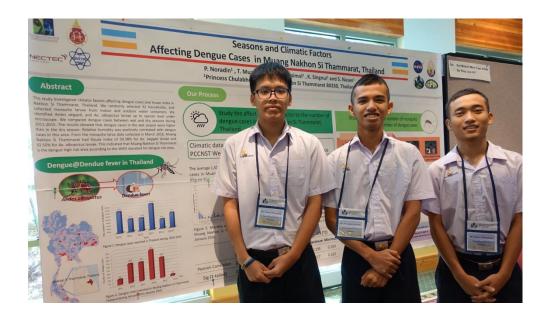


The Students' Experience for the GLOBE International Science Symposium Preparing



Mr.Phuwadon Noradin Mr.Thiranai Keatpimol Mr.Thanayot Muangkeaw

Princess Chulabhorn Science High School Nakhon Si Thammarat (PCSHS NST), Thailand

PCSHS NST Science Project & GLOBE Project

GLOBE Project Grade 10 : 1stSemester **Project proposal & Project pre-study** The Effect of Climate Change on We are already progress.....Project planning **Dengue Incidence in Muang Nakhon Project experiment** Si Thammarat, Thailand 500 400 300 200 100

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2012

2013

2011

2014

2015

2016

Mosquito lavea data

weather data

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Research Report

Seasons and Climatic Factors Affecting Dengue Cases in Muang Nakhon Si Thammarat, Thailand

Students: Phuwadon Noradin*, Thiranai Keatpimol, Thanayot Muangkeaw

School: Princess Chulabhorn College Nakhon Si Thammarat

Teacher: Mrs. Kanokrat Singnui and Mr. Sutep Nusen

Email: skanokrat208@gmail.com

8 March 2016

ABSTRACT

This study investigated climatic factors affecting dengue cases and house index in Nakhon Si Thammarat, Thailand. We randomly selected 32 households, and collected mosquito larvae from indoor and outdoor water containers. We identified *Aedes aegypti*, and *Ae. albopictus* larvae up to species level under microscope. We compared dengue cases between wet and dry seasons during 2011-2015. The results showed that dengue cases in the wet season were higher than in the dry season. Relative humidity was positively correlated with dengue cases in this area. From the mosquito larva data collected in March 2016, Muang Nakhon Si Thammarat had house index of 59.38% for *Ae. aegypti* larvae and 62.50% for *Ae. albopictus* larvae. This indicated that Muang Nakhon Si Thammarat is the dengue high risk area according to the WHO standard for dengue risk area.

Keywords: dengue cases, atmospheric measurement, GLOBE, Thailand, Nakhon Si Thammarat

The Effect of Climate Change on Dengue Incidence in Muang Nakhon Si Thammarat, Thailand

Data analysis and conclusion

Scientific methods were checked by the teacher and GLOBE trainer

Paper Template : Research report

Presentation

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The effect of climage change on dengue incidence in Muang Nakhon Si Tammara

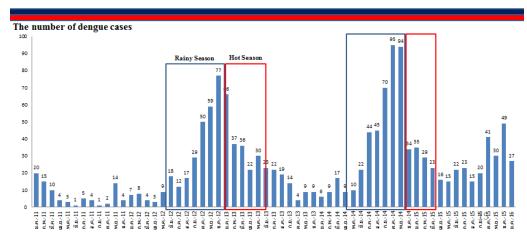


Seasons and Climatic Factors Affecting Dengue Cases in Muang, Nakhon Si Thammarat, Thailand

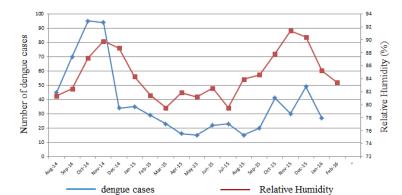
https://www.youtube.com/watch?v=QrnAzPnd3RQ

Uploaded presentation video

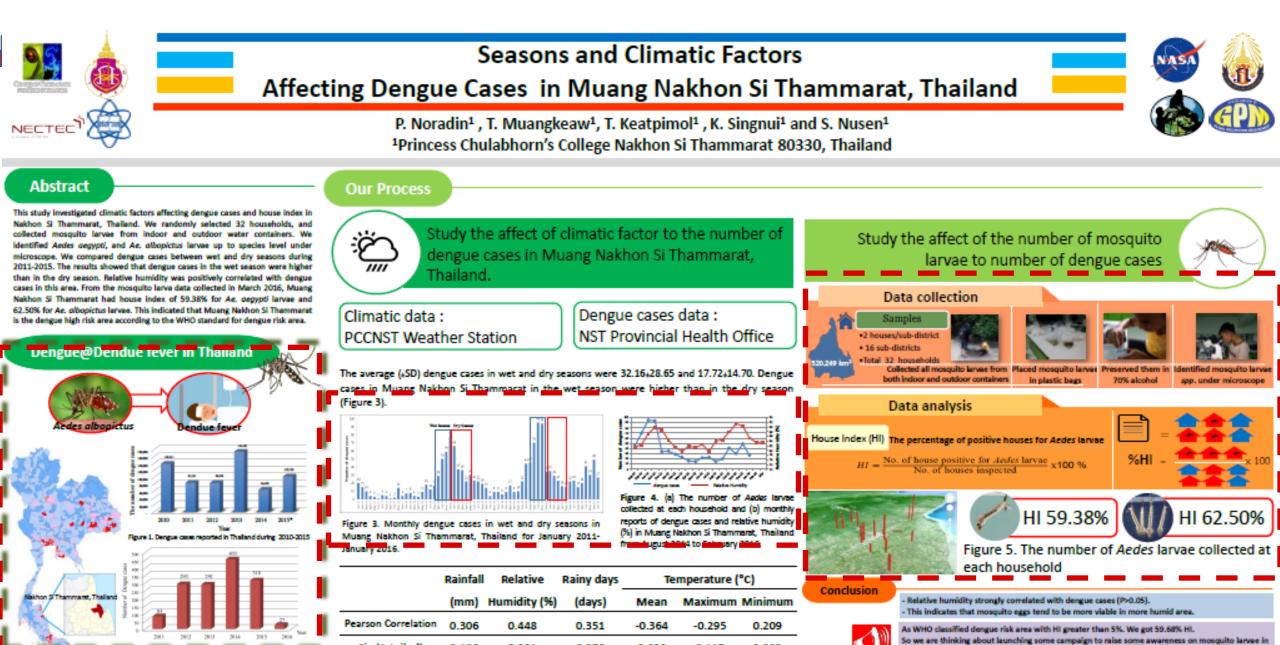
Data Summary and Analysis



The number of dengue cases and Relative Humidity, Nakhon Si Thammarat August 2014 to Febuary 2016



The GLOBE International Science Fair Poster





Acknowledgement

Princess Chulabhorn Science High School Nakhon Si Thammarat

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