Rural Training Center – Thailand (RTC-TH)

FOCUS

REEEPP

Rural Environmental Education Enhancement Pilot Program

A Visit to the Thawangpha Weather Station

Created by G.K. Lee for the RTC-TH REEEPP

Lesson W7

This is an English Language Training module of

REEEPP

Rural Environmental Education Enhancement Pilot Program

presented by

The Rural Training Center-Thailand

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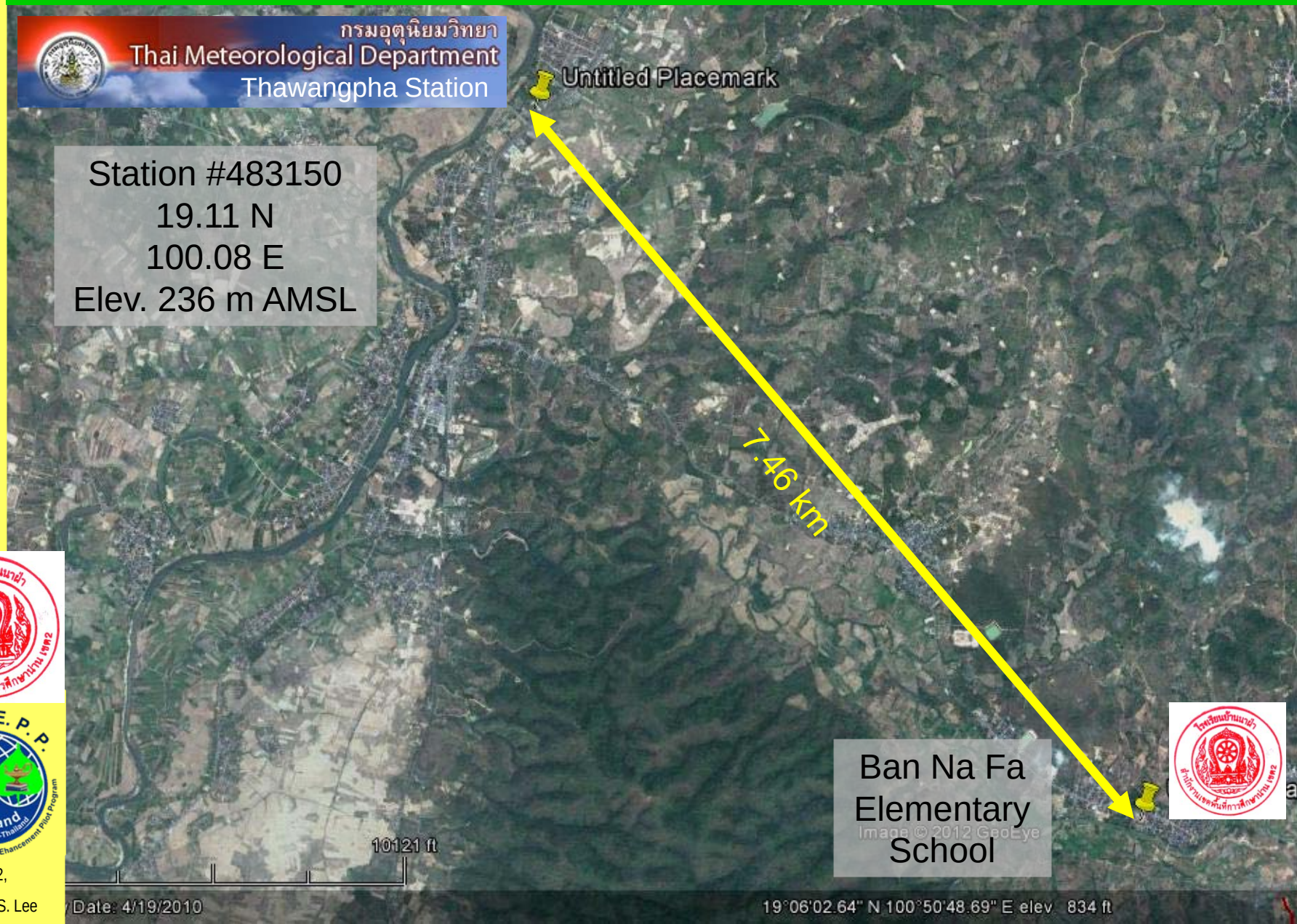
www.neighborhoodlink.com/org/rtcth

The station location



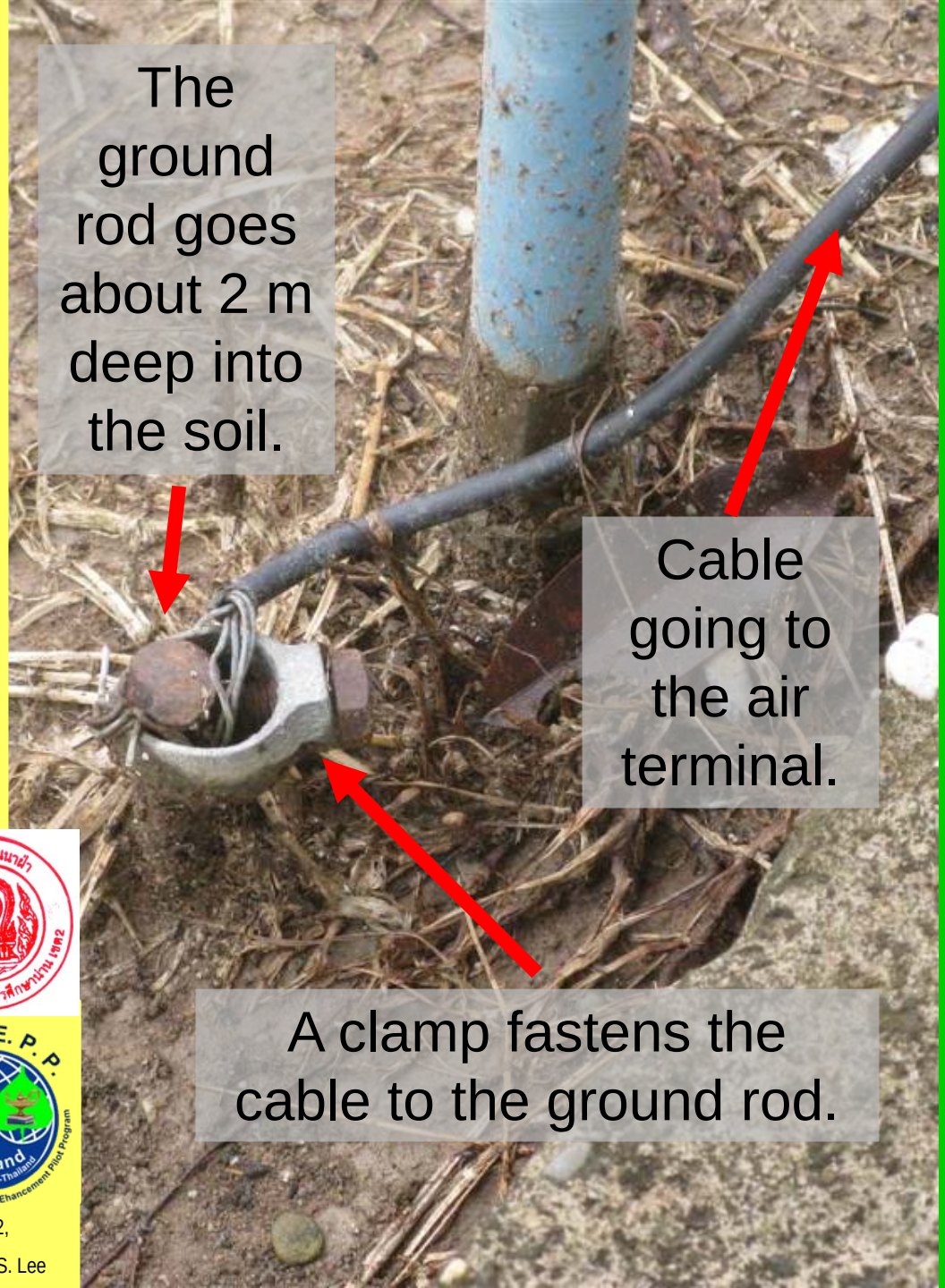
Between the District Police Station and the Post Office near the Jct Hwys 1148/1080

Behind the station office are more weather instruments

Welcome to the Weather Station

Instruments on the roof

There are 2 weather instruments on the roof. The anemometer measures wind speed.
The wind vane measures wind direction.



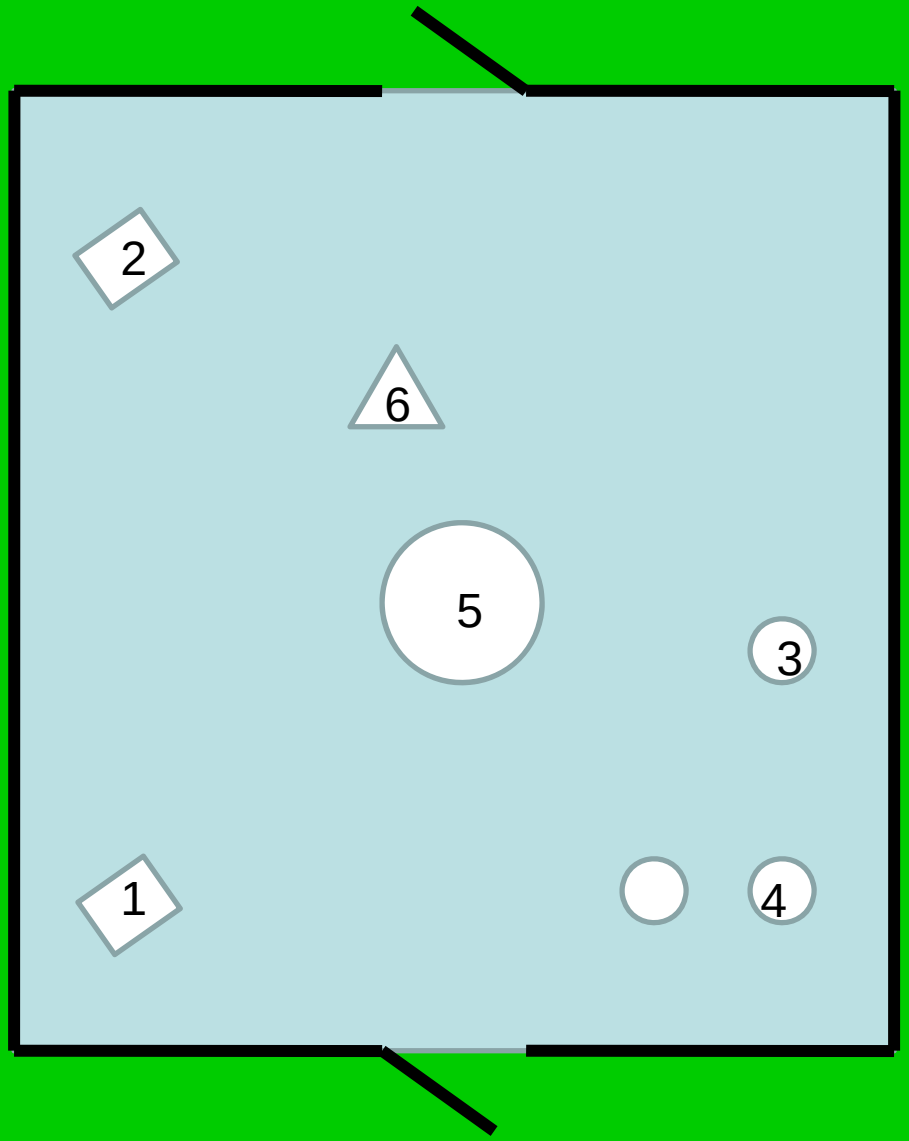
A cable connects the air terminal to a ground rod. When lightning hits the air terminal, the electrical charge is conducted safely to “ground” so the weather instruments are not damaged.

There are more instruments behind the office.

The fence protects the instruments

The fence keeps the instruments from being disturbed and protects them from possible damage.

Weather Instrument Area Diagram



1. Instrument shelter #1
2. Instrument shelter #2
3. Rain gauge #1
4. Rain gauge #2
5. Evaporation Pan
6. Tower

Instrument Shelter #1

This Stevenson Screen contains a Dry-Wet Bulb Psychrometer (to measure relative humidity) and a set of Maximum – Minimum Thermometers (to measure the high and low temperature of the day).

Instrument Shelter #2

This Stevenson Screen contains a thermohydrograph to record relative humidity.

Rain Gauge #1

This rain gauge must be manually read. If it fills up and overflows before the measurement is read and recorded, the rainfall data are incorrect.

Rain Gauge #2

. If this rain gauge fills up, the bucket automatically records the measurement, empties and continues to measure the rainfall. It keeps track of the total rainfall for the specified time period which is set ahead of time.

Evaporation Pan (front)

. This instruments measures how much water is evaporated from the pan each day. This data is useful for managers of reservoirs and fish ponds.

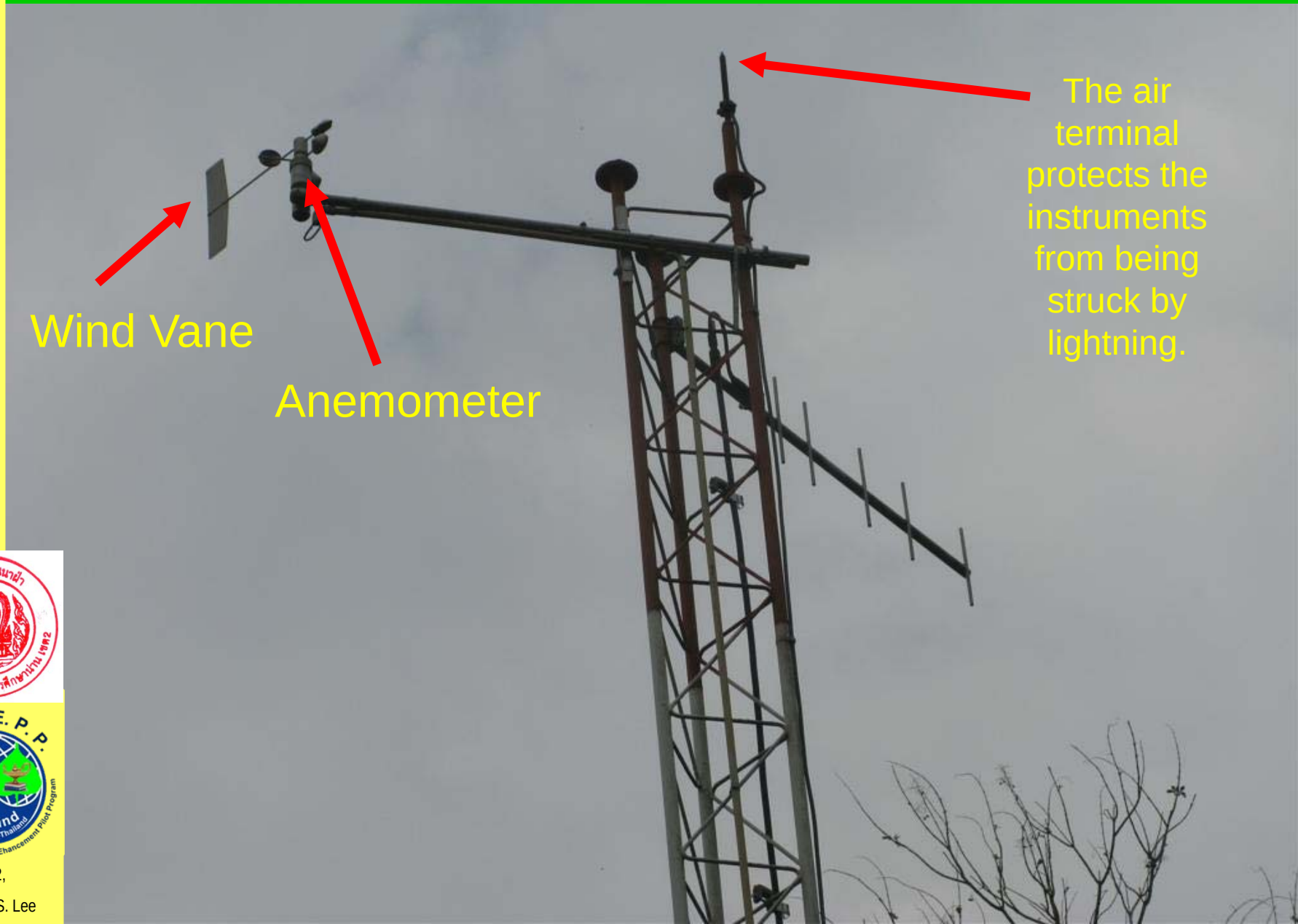
Evaporation Pan (side)

Heat and wind evaporate water. So the wind speed near the surface of the water must also be measured.

Some of the sensors are on the tower

Temperature & Rain Sensors

Wind Instruments & Air Terminal

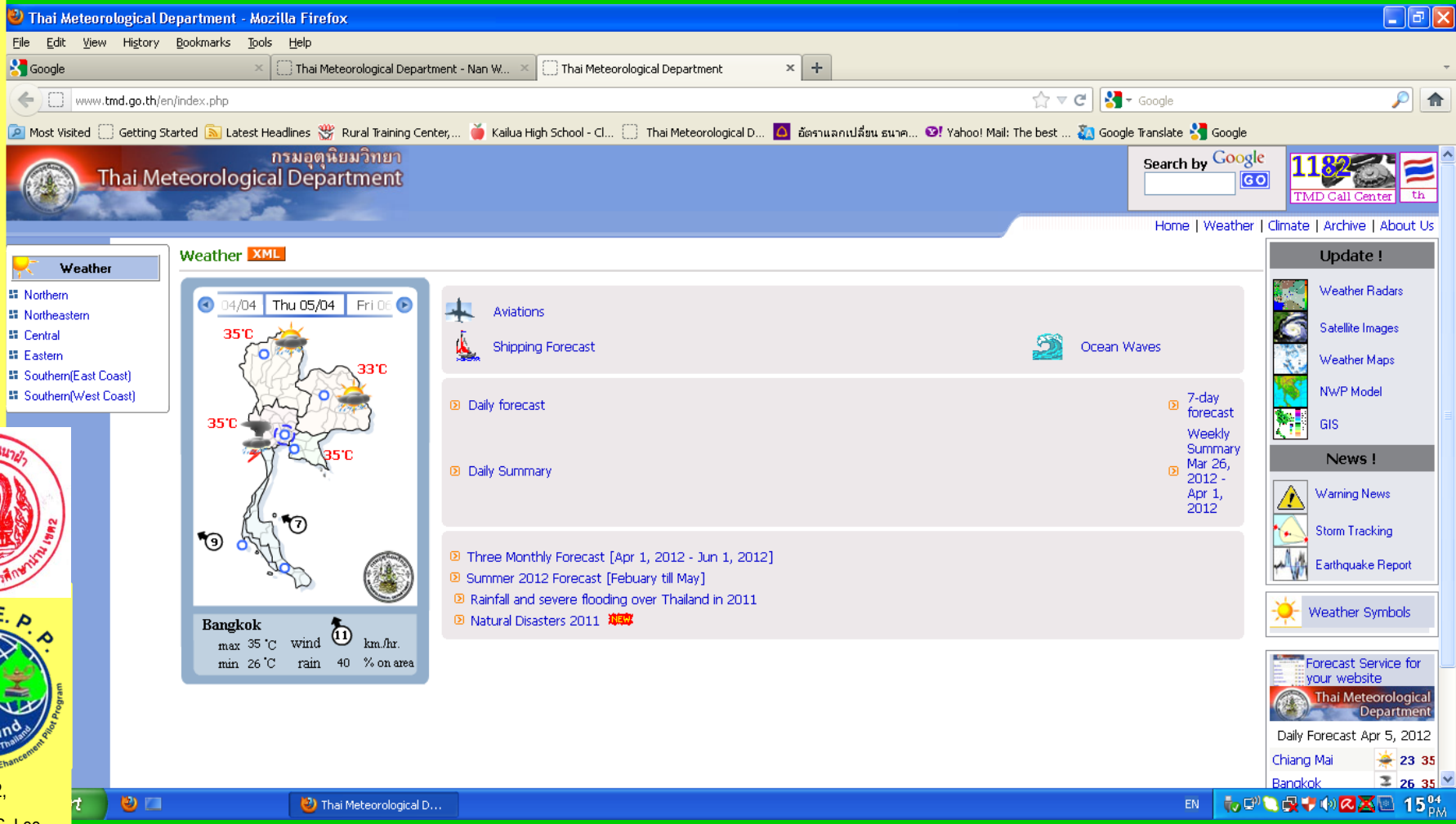


A cable connects the air terminal to a ground rod. When lightning hits the air terminal, the electrical charge is conducted safely to “ground”

Now you have seen the Thawangpha weather station.

Royal Thai Meteorological Department Website & Weather Data

You can find weather data for all the provinces of Thailand on the Internet. http://www.tmd.go.th/en/index.php



The RTC-TH was created to honor the memory of Mr. Tang Suttisan, a father, a farmer, and a man who valued education and used it in starting his family farm applying the King's Theory.

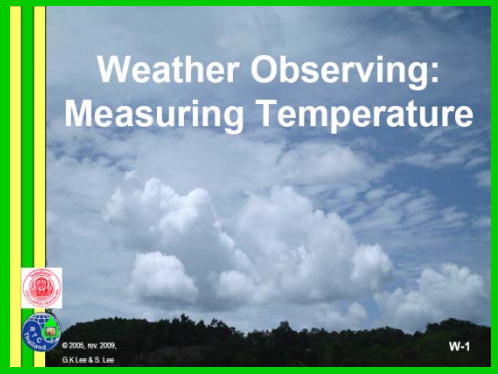
REEEPP

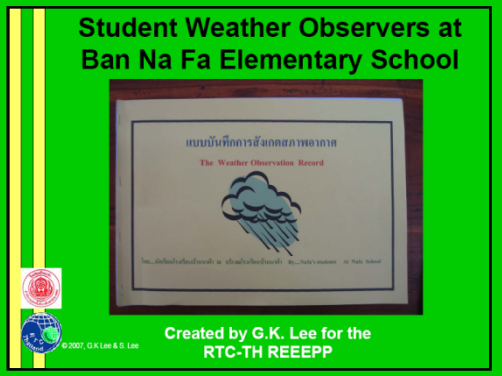
Rural Environmental Education Enhancement Pilot Program

An innovative, non-traditional community-based environmental education program integrating math, science, geography, English language, and technology lessons for environmental stewardship using interactive experiential learning in outdoor settings at Ban Na Fa Elementary School, Nan Province, Thailand..

To see more **REEEPP** lessons visit

http://www.neighborhoodlink.com/RTC-TH_Tech/pages





The End

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