



# 2018 GLOBE Asia-Pacific Regional Meeting Taiwan Report 2017

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AMERICAN  
INSTITUTE IN  
TAIWAN  
美國在台協會



# 2017 Missions of GLOBE Taiwan Office

- New GLOBE schools expansion
  - 17 new schools and 3 S'COOLs
- New GLOBE teachers training
  - GLOBE Train-the-Teacher Workshop and basic GLOBE protocols trainings
- Hosted international and domestic activities for teachers and students to share their results of GLOBE science investigations
  - 2017 GLOBE Taiwan Annual Conference & Students Exhibition in Taoyuan
  - GLOBE Asia-Pacific Science Festival in Taipei
- GLOBE agreement extension

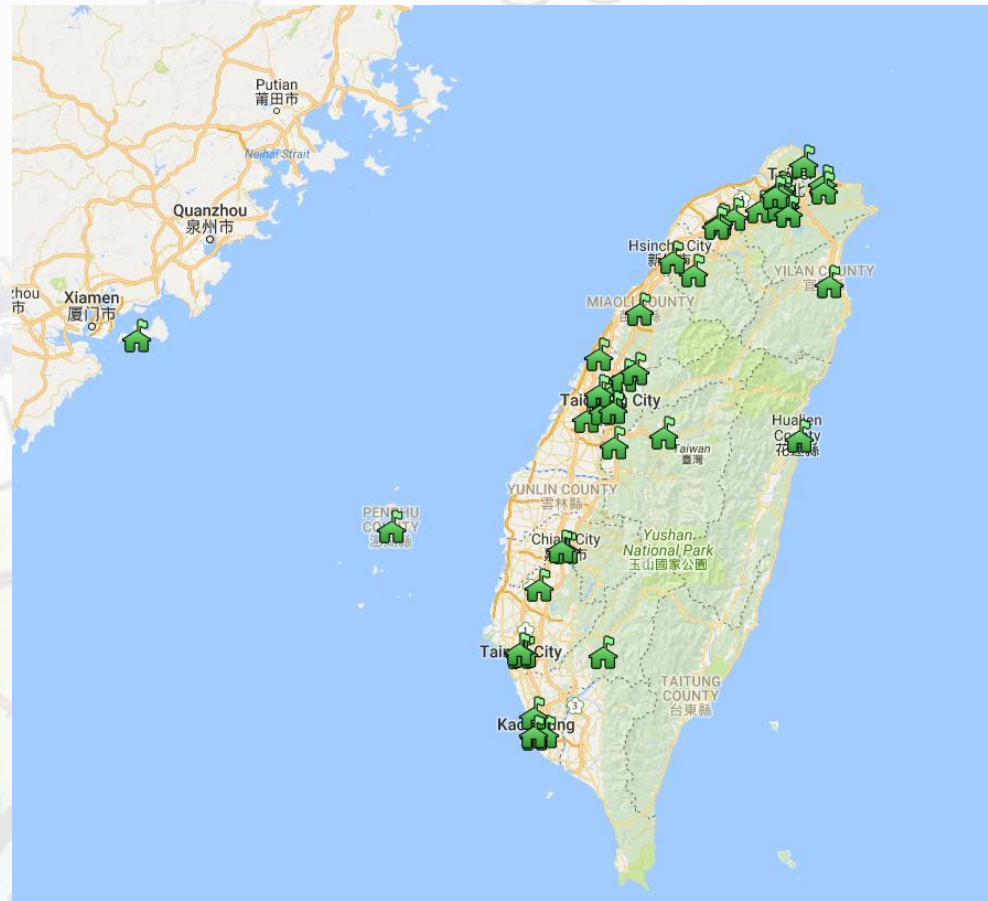




# Current Status of GLOBE Taiwan

# GLOBE Schools

- We currently have 45 GLOBE schools in Taiwan, 34 senior high schools, 6 junior high schools, and 5 elementary schools.
- Contacting 3 S'COOL schools to do GLOBE observations
- At a glance
  - 2769 Students
  - 125 Teachers
  - 236 GLOBE Observers
  - 89503 Data Entries
  - 48 Schools
  - 74 Honor Rolls
  - 130 People Trained
  - 10 Workshops Held



# GLOBE Protocols used in Taiwan



- Digital Multi-Day Max-Min-Current Air
- Soil Temperature
- Barometric Pressure
- Clouds Observations
- Precipitation
- Relative Humidity
- Surface Temperature
- Davis Weather Station
- Aerosols
- Water Temperature
- Water pH
- Transparencies
- Alkalinities
- Conductivities
- Nitrates
- Salinities
- Dissolved Oxygens
- GPS

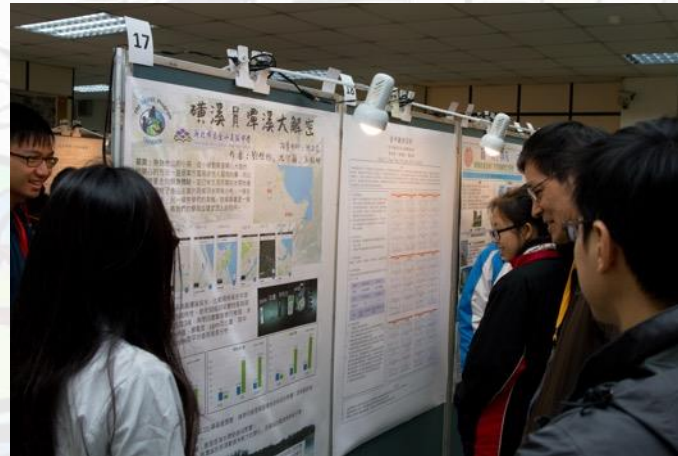
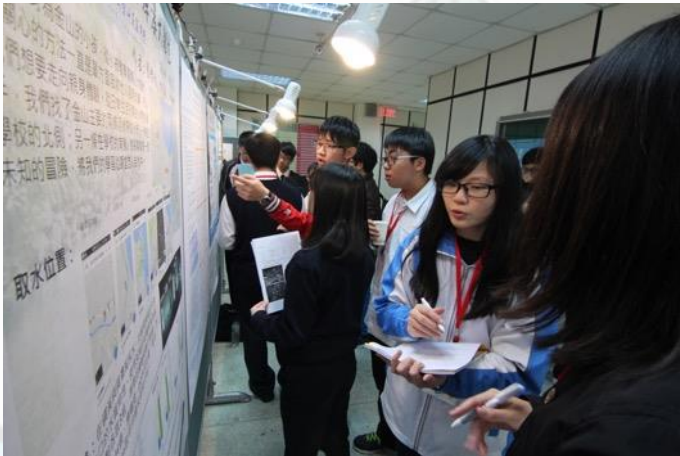


# 2017 GLOBE Taiwan Events

# Students activities in Taiwan



- 2017/01/24 GLOBE Taiwan Annual Conference & Student Exhibition



# 2017 GLOBE Asia-Pacific Science Festival



- 2017/07/09-07/15 42 GLOBE participants from India, Mongolia, the Philippines, Thailand, and Malaysia team came to Taiwan





# Trainer & Teacher Training



- 2017/04/29-05/01 We hosted TTT Workshop and invited Dr. Kris and Dr. Mullica for Atmosphere and Hydrology protocols training



# Trainer & Teacher Training



- 2017/11/18 GLOBE Train-the-Teacher Workshop for new teachers



# New Sites Installation



- 2017/08-2017/11 GLOBE Taiwan Staff helped 17 new schools to set-up their sites. Meanwhile, we installed Davis weather stations for schools which have joined GLOBE for more than 1 year.





# Students International Activities

# Students activities overseas

- 4 Taiwan teachers and 11 students from 4 schools participated in Student Exchange Program in India during Jan. 31 to Feb. 4, 2017



# GLOBE IVSS

2018 We had 11 projects from 7 schools.

2017 We had 9 projects from 5 schools.



## 2017 GLOBE International Virtual Science Symposium

台中女中 : The Connection Between Taiwanese Proverbs and Weather Phenomena



台中女中 : The interaction between Air Pollution and Temperature Inversion



台中女中 : The urban planning effect on Taichung city microclimate



台中女中 : The delay of afternoon thunderstorms in Taiwan



安樂高中 : Dusty-What kind of the soil in our school



復旦高中 : What is the differences between the dew point,season,and region?



復旦高中 : What is the relationship between the contrails and flight?



高雄女中 : Temperature in Kaohsiung



金山高中 : Discover Sulfur Creek



## 2018 GLOBE International Virtual Science Symposium

台中女中

The Effect of Indoor and Outdoor Humidity on PM2.5



高雄女中

Discussion of the relationship between temperature and ozone concentration.



Explore the factors of the change of temperature in Kaohsiung



The Correlations Between PM2.5 And Meteorological factors



羅東高中

characteristic of groundwater of analysis at Wu Yuan area



Wooden Thermometer Screen and Environment Factors



丹鳳高中

Causes of extreme acid rain and alkali rain in Taiwan



安樂高中

The Wu-Lun river quality observation



Weather



明倫高中

To uncover the secret of the water quality of Keelung River



復旦中學

Research of Path of Typhoons from 2015 to 2016-Factors and Influences



# GLOBE Annual Meeting



- 2017 GLOBE Annual Meeting in New Haven, USA
- 1 teachers and 4 students from 1 GLOBE Schools





# Timeline





# 2017-2018



- Taiwan Annual Conference & Students Exhibition (93 participants)
- GLOBE Students Exchange in India

2017.01

- GLOBE TTT Workshop (33 teachers & 5 graduate students)

2017.04

36 teachers participated in Train-the-Teacher Workshop

2017.11

Dr. Pay-Liam Lin attended GLOBE Thailand Train-the-Trainer Workshop as a trainer

2017.12

AIT officer and Staff visited GLOBE Taiwan School

2018.04

2017

2017.03

- New GLOBE Schools Orientation
- 45 GLOBE Schools

2017.07

- 37 GLOBE participants from India, Mongolia, Philippines, Thailand, Taiwan, and 8 participants from Malaysia joined GLOBE AP Science Festival
- 5 GLOBE Taiwan teachers and students attended GLOBE Annual Meeting in USA

2018

2018.07

GLOBE Taiwan Annual Meeting in Taichung

# 2018/04/19 AIT visited GLOBE Taiwan



- Ms. Anna Wang, economic officer of AIT, and Ms. Stella Chiu, Staff of Public Diplomacy Section in AIT, visited GLOBE Taiwan School.

 美國在台協會 AIT added 4 new photos.  
April 19 at 8:41pm · 🌐

美國在台協會環境科技衛生官員王涵星期四(4月19日)拜訪了位於國立中央大學的GLOBE團隊。The GLOBE Program是一個由美國太空總署NASA - National Aeronautics and Space Administration所支持成立的國際科學與教育計畫，提供學生機會參與資料蒐集與科學實驗，對於瞭解我們的地球有很大的貢獻。GLOBE台灣由國立中央大學林沛練教授的團隊領導全台49所中小學參與這個計畫。王涵也拜訪了一所GLOBE學校，看看學生們參與科學的美好過程。AIT要感謝所有GLOBE學生對於科學社群的貢獻，並期待他們在未來能有更好的表現。祝大家世界地球日快樂。#Earthday2018

AIT Environment, Science, Technology, and Health Officer (ESTH) Anna Wang visited the GLOBE Taiwan team on April 19. The GLOBE Program, supported by NASA - National Aeronautics and Space Administration, is an international science and education program that gives students the opportunity to participate in data collection and the scientific process, and contribute to our understanding of the planet. 49 elementary and high schools in Taiwan participate in this program, which is led by Dr. Lin Pay Liam and his team at National Central University 國立中央大學。Anna also visited a GLOBE high school to see the wonderful work students are doing. AIT thanks all GLOBE students for their contributions to the science community and looks forward to seeing great things from them in the future. Happy Earth Day!!



# 2018 GLOBE Taiwan Science Festival & HIGHSCOPE and FORSEEING Fair/Exhibition



- 2018/07/20~07/22 in Taichung, Taiwan
- GLOBE Taiwan Science Festival is an annual event for GLOBE Taiwan students to present their results of GLOBE science investigations. Meanwhile, this event will be part of the 2018 HIGHSCOPE and FORESEEING Fair / Exhibition, which is hosted by Taiwan's Ministry of Science and Technology.
- Both HIGHSCOPE and FORESEEING projects focus on science, technology, engineering and mathematics(STEM) education. This year, the main theme of 2018 HIGHSCOPE and FORESEEING Fair / Exhibition will be artificial intelligence robot.





# Thanks for your attention!

