



GLOBE Thailand Report 2022

The Institute for the Promotion of Teaching Science and Technology (IPST)
Ministry of Education

<https://globethailand.ipst.ac.th/>



GLOBE Thailand Staffs



Assoc. Prof. Dr. Thiradet Jiarasuksakun

President of The Institute for the Promotion of Teaching Science and Technology (IPST),
GLOBE Country Coordinator, Thailand



Dr. Wanida Tanaprayothesak

Assistant President of The Institute for the Promotion of Teaching Science and Technology (IPST)



GLOBE Thailand Staffs



GLOBE Thailand Overview



IVSS: International Virtual Science Symposium
SJWP: Stockholm Junior Water Prize
GLOBE SRC: GLOBE Student Research Competition
TJWP: Thailand Junior Water Prize
GLOBE TSS: GLOBE Thailand Teacher Shining Star



GLOBE Thailand Activities 2022

GLOBE Activities Promotion and Raising Awareness of Environmental Science Learning in Thailand

GLOBE Media

Cooperation with Universities in Promoting Environmental Science Research Based on IPST Concept

The Extension of GLOBE Research Program and Network to Strengthen Local Wisdoms in Rural Areas of Thailand

GLOBE Thailand Special Events

Training to Enhance Teachers' Potential for Understanding Climate Change and Earth System Science

Enhancement of Teacher and Student Potential on Environmental Science Research and Innovation for Environmental Science Education 2022





GLOBE Thailand Activities 2022



20+2	UNIVERSITY NETWORKS / AGENCY NETWORK
617	SCHOOLS
2,430	STUDENTS, TEACHERS & GENERAL PUBLIC
93,402	GLOBE DATA ENTRY (<i>DATA UPDATED ON FEBRUARY 28, 2023</i>)
260	STUDENT RESEARCH PROJECTS / LEARNING MODULES
4	TEACHER TRAINING WORKSHOPS
1	GLOBE MEDIA
4	GLOBE CAMPAIGNS
9	GLOBE ONLINE SEMINARS

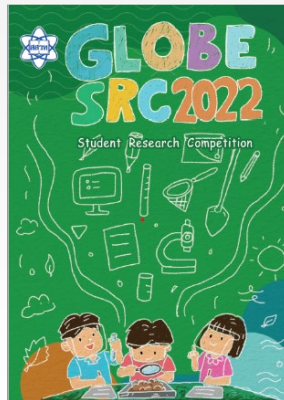




1.1 GLOBE Student Research Competition 2022 (GLOBE SRC 2022)

- Conducted the Virtual GLOBE SRC 2022 Competition on May 30 – June 1, 2022
- Report/Poster/Clip VDO/Interview
- 80 student research projects from 61 schools (231 students and 118 teachers)
- 21 Prizes

80 student researches/
349 students & teachers





1.1 GLOBE Student Research Competition 2022 (GLOBE SRC 2022) (cont.)

Primary school

Prize	Research Title	School
First prize	The Study of Factors Affecting the Efficiency to Trap and Physical Factors Affecting the Infestation of Fruit Flies to Develop the Smart Thermal Oriental Fruit Flies Trap	Intertots Trilingual School, Chachoengsao Province
Second prize	Relationship between the Properties of Soils along Chiang Mai-Lamphun Road in Saraphi District and the Growth of Yang Na Trees (<i>Dipterocarpus alatus</i> Roxb. ex G. Don)	Wat Weluwan School, Chiang Mai Province
Third prize	Comparison of Environmental Factors Affect on <i>Calocasia esculenta</i> Growth on Tambon Don and Tambon Khokthai, Pakthongchai District, Nakhonratchasima Province	Bandon School (Saharat-Ratuthit), Nakhon Ratchasima Province
Honorable mention	A study of Factors Affecting of Monkey Population Livelihood in Khao Hua Taek Area (Khao Wang Niang Community and Khuha Nuea Community) Mueang District, Phatthalung Province	Tedsaban Bankuhasawan School, Phatthalung Province
Honorable mention	Physical Quality Education Soil Chemistry Affecting Growth and Leaf Color Change of <i>Syngonium</i> Hybrid	Wat Mai Siew School, Nakhon Ratchasima Province
Honorable mention	An Effect of the Land Cover Plants in Soil Temperature and Humidity	Varee Chiangmai School, Chiang Mai Province



1.1 GLOBE Student Research Competition 2022 (GLOBE SRC 2022) (cont.)

Lower Secondary school

Prize	Research Title	School
First prize	The Study of the Relationship of Type and Quantity of Rice Insect Pests to Damage of Rice Leaves in Seedling Stage to Tillering Stage in Chum Phae District, Khon Kaen	Chum Phae Suksa School, Khon Kaen Province
Second prize	The Study of Water Quality and Phytoplankton which Affect to the Survival and Growth Rates of Oyster (<i>Crassostrea belcheri</i>) in the Coastal Area of Trang Province.	Princess Chulabhorn Science High school Trang, Trang Province
Third prize	Effect of Different Colors of Light on <i>Zamioculcas zamiifolia</i> Plant Growth and PM2.5 Removal Ability	Srinakharinwirot University Demonstration School Prasarnmit (Secondary Division), Bangkok
Honorable mention	Study of Soil Conditions Affecting Yield of Surat Thani 1 Oil Palm in the Area of Laem Rat Bamrung School, Khuan Chalik Sub-district, Hua Sai District, Nakhon Si Thammarat Province.	Laemratbumrung School, Nakhon Si Thammarat Province
Honorable mention	Study of Soil Properties in Cultivated Areas to Develop a Web Application Used to Analyze Soil Quality Suitable for Growing Local Crops.	Kalasinpittayasan School, Kalasin Province
Honorable mention	A Study of the Relationship between Tree Canopy Cover and Particulate Matter in the Air.	Phimai Wittaya School, Nakhon Ratchasima Province



1.1 GLOBE Student Research Competition 2022 (GLOBE SRC 2022) (cont.)

Upper Secondary
school

Prize	Research Title	School
First prize	The Study of Salinity, Water Temperature and Soil Quality on Diversity of Fiddler Crabs in Mangrove Saline Hot Springs, Hat Chao Mai National Park, Trang Province	Princess Chulabhorn Science High School Trang, Trang Province
Second prize	A Study of Increasing the Yield of Aloe Vera (<i>Hippeastrum johnsonii</i> Bury) Using Organic Materials and Off-season Flowering Techniques	Donchanwittayakom School, Kalasin Province
Third prize	Study of the Water Quality in Khlong Maha Sawat using Physical Measurement and Planktons as the Bioindicators	Mahidol Wittayanusorn School, Nakhon Pathom Province
Honorable mention	A Study of the Relationship between some Endemic Herbaceous Plants and their Properties and Soil Fertility for Use as an Indicator of Soil Quality before Planting	Khuru Prachasan School, Chainat Province
Honorable mention	The Mangosteen Fruit in Cha-Uat District, Nakhon Si Thammarat and Pa Phayom District, Phatthalung: Its Sweetness, Color, pH Level and Shell Characteristics	Pa Phayom Phitthayakhom School, Phatthalung Province
Honorable mention	Bio-fermented Water Spraying Machine Controlled by a Smartphone for Improving Soil Quality to have a Desired pH Value for Cantonese Vegetables	Suankularb Wittayalai Nonthaburi School, Thailand



1.1 GLOBE Student Research Competition 2022 (GLOBE SRC 2022) (cont.)

Poster Presentation: **Best Popular Vote Poster Presentation prize**

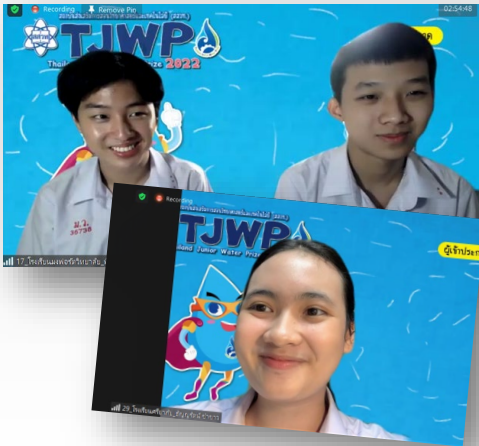
Level	Research Title	School
Primary school	A Study of Wastewater Treatment with Biological Methods Using Aquatic Plants to Improve the Water Quality of the Mae Ping River, Mueang District, Chiang Mai	Dara Academy, Chiang Mai Province
Lower Secondary school	A Study of Wastewater Treatment with Biological Methods to Improve the Water Quality of Mae Ka Canal, Mueang District, Chiang Mai.	Dara Academy, Chiang Mai Province
Upper Secondary school	Tree Carbon Storage at Dara Academy School, Chiang Mai Province	Dara Academy, Chiang Mai Province



1.2.1 Thailand Junior Water Prize (TJWP) 2022

40 student research projects /115 participants

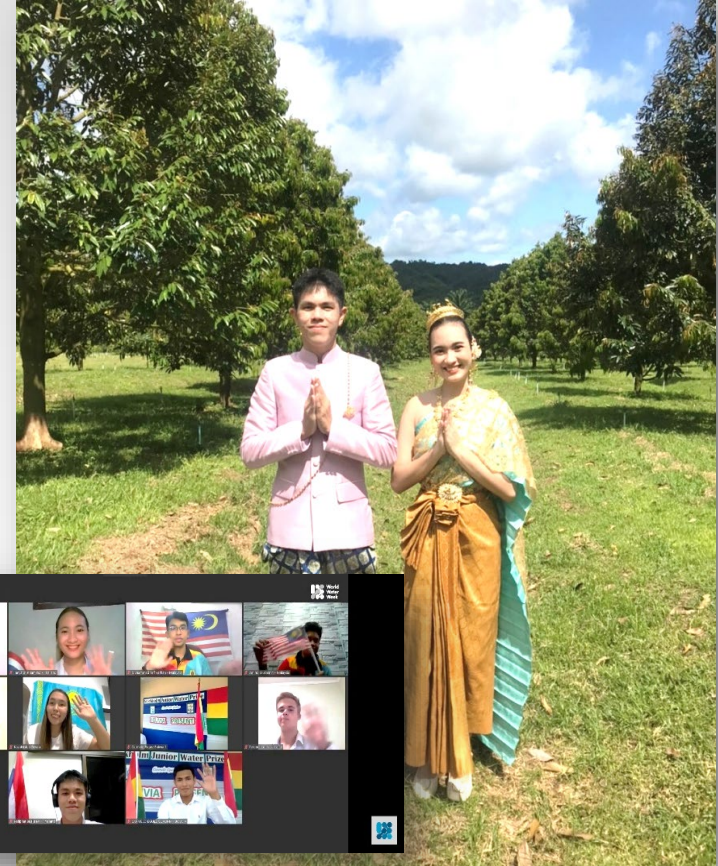
- Conducted the Virtual TJWP2022 Competition on May 2-3, 2022
- Encourage students to learn about, care for, and conserve water resources.
- 40 student research projects from 40 schools (75 students and 40 teachers)
- The winner: **"Two-layer rubber Biological nursery bags add an oasis of coconut coir fiber to retain water and maintain soil moisture level for cultivating durian seedlings"** from Sriyapai School, Chumphon Province.





1.2.2 Stockholm Junior Water Prize (SJWP) 2022

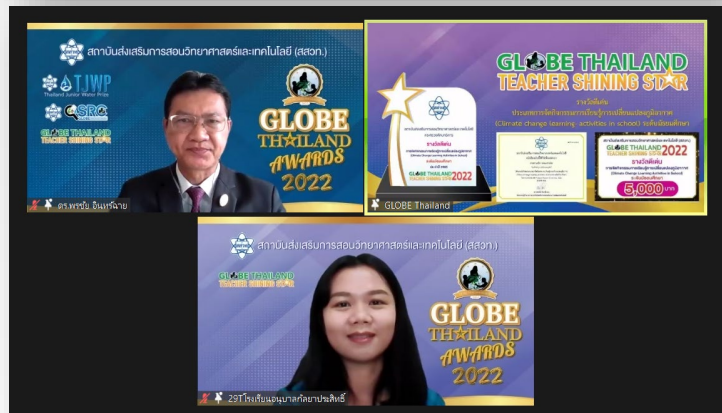
- 53 Young generations from 45 countries attended Online and Onsite SJWP 2022 on August, 2022





1.3 GLOBE Thailand Teacher Shining Star 2022

- To admire teachers who implement GLOBE learning resources such as Earth System Science book, Climate Change Learning Activity and GLOBE Protocols in school.
 - GLOBE Young Scientist Inspiration (*No award*)
 - ESS Curriculum Implementation in School (*No award*)
 - Climate Change Learning Activities in School
 - ✓ **Primary level** presented to Miss Onanong Pongklang, Ban Pa Plu School, Lamphun Province
 - ✓ **Secondary level** to Miss Kaneeka Promprakhon, Anuban Kanlayaprasit school, Buri Ram Province



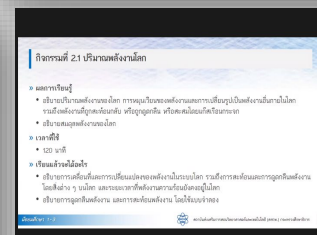
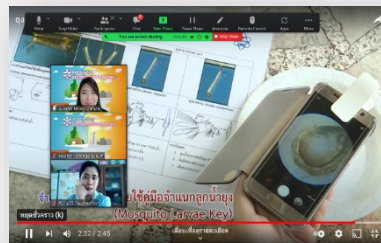
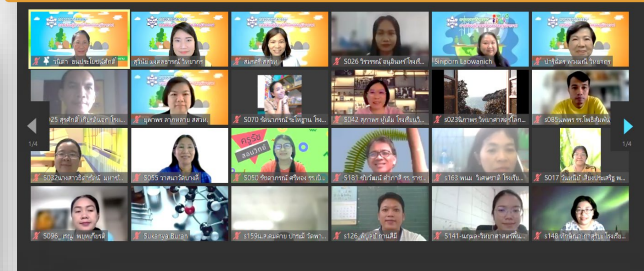


2.1 Training on Climate Change Learning Activities

- Online teacher training via Zoom and Google Classroom
- For Primary school teachers on December 1-3, 2021 and April 6-8, 2022
- For Secondary school teachers on December 13-15, 2021 and May 9-11, 2022



335 Teachers / 262 schools

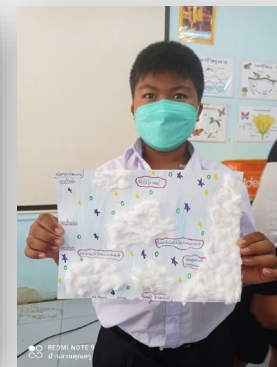




2.1 Training on Climate Change Learning Activities (cont.)

85 schools/94 teachers

- Hosted the teacher sharing meeting who trained in 2021 on 28 January, 2022 and 26 September, 2022 for 2022 trainees

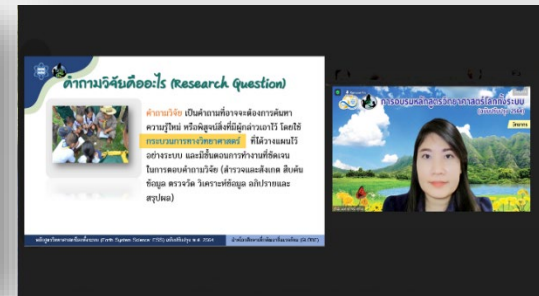
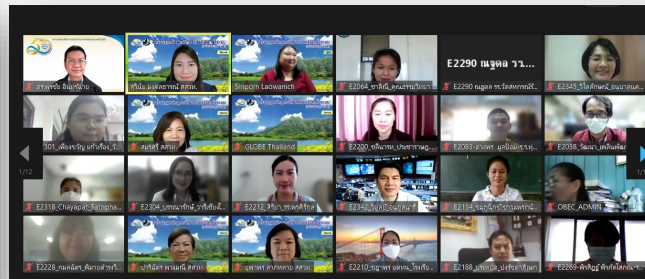
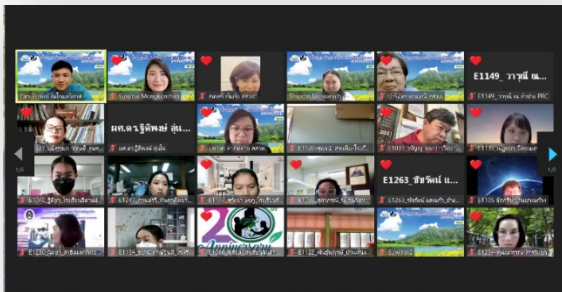




2.2 Training on Earth System Science Curriculum

250 schools/422 teachers

- Online teacher training “Earth System Science curriculum (version 2021) via Zoom and Google Classroom
- 2 training sessions: 422 teachers from 250 schools
 - On February 7, 8, and 11, 169 teachers from 94 schools
 - On March 28, 29, and April 1, 2022, 253 teachers from 156 schools





2.2 Training on Earth System Science Curriculum (cont.)

72 schools/107 teachers

- 107 trained teachers from 72 schools attended a follow-up conference on the implementation of the Earth System Science curriculum in schools on August 22, 2022.
- Implementation in 1st semester of the academic year 2022: 38% additional courses, 30% integrated with science subjects, 19% environmental clubs, 12% environmental camps, and 1% research project subject.
- Achieve extremely high levels of 21st century learning skills in almost all subjects:
 - communication and cooperation,
 - critical thinking and problem solving,
 - leadership and responsibility,
 - media literacy,
 - ICT literacy,
 - initiative and self-direction,
 - flexibility and adaptability,
 - information literacy, and
 - social and cross-cultural skills



3.1 GLOBE Campaign

**4 campaigns/
199 participants**

No.	Campaign	Theme	Activity Period	Number of participants
1	World Water Day	Story telling from Underground Water	February 26 – March 21, 2022	26
2	Earth Day	“Collect Connect with GLOBE” Collecting Cloud by using GLOBE Observer application	April 22, 2022	79
3	Data Entry	“Mosquito Larvae Hunter” by using GLOBE Observer application	July 18 – 31, 2022	46
4	World Soil Day	“Love (Conserve) the Earth” for World Soil Day 2022: Soils, where food begins. Aim to raise soil awareness and encourage students and teachers to improve soil health by sharing their ideas about fertilizer usage in their local areas.	December 1- 22, 2022	48
Total				199



3.1 GLOBE Campaign (cont.)

4 campaigns/
199 participants

World Water Day 2022
Groundwater: Making the Invisible Visible

THE GLOBE TEAM ขอเชิญชวนผู้สนใจเข้าร่วมโครงการประกวดเขียนนิยาย "เรื่องเล่าเกี่ยวกับน้ำใต้ดิน"

วัตถุประสงค์: ส่งเสริมการเรียนรู้เกี่ยวกับน้ำใต้ดิน และสร้างจิตสำนึกในการอนุรักษ์น้ำใต้ดิน

กติกาการประกวด:
- หัวข้อ: เรื่องราวเกี่ยวกับน้ำใต้ดิน
- ประเภท: นิยายสั้น (ไม่เกิน 1,000 คำ)
- ภาษา: ไทย
- ระยะเวลา: 1 ตุลาคม - 21 ตุลาคม 2565

ส่งผลงานไปที่: globe@iit.ac.th
ปิดรับสมัคร: 21 ตุลาคม 2565

World Water Day 2022
"เรื่องเล่าเกี่ยวกับน้ำใต้ดิน"

เรื่องเล่าเกี่ยวกับน้ำใต้ดิน

น้ำใต้ดินเป็นแหล่งน้ำที่ซ่อนอยู่ใต้ผิวดิน มีปริมาณมากกว่าน้ำที่มองเห็นบนผิวดินถึง 10 เท่า

น้ำใต้ดินมีความสำคัญต่อวิถีชีวิตของมนุษย์และสัตว์ป่า

การใช้น้ำใต้ดินอย่างไม่เหมาะสมอาจส่งผลให้น้ำใต้ดินปนเปื้อนและหมดลงได้

เราทุกคนสามารถช่วยกันอนุรักษ์น้ำใต้ดินได้

1. ใช้น้ำอย่างประหยัด
2. ตรวจสอบคุณภาพน้ำใต้ดิน
3. งดใช้ปุ๋ยและสารเคมีทางการเกษตร
4. ปลูกพืชคลุมดินเพื่อรักษาความชื้นในดิน

วัฏจักรน้ำ

น้ำในธรรมชาติจะเปลี่ยนสถานะตลอดเวลา

1. การระเหย: น้ำในมหาสมุทรและบนผิวดินจะระเหยกลายเป็นไอ

2. การกลั่นตัว: ไอน้ำจะรวมตัวกันเป็นเมฆ

3. การตกลงมา: น้ำในเมฆจะตกลงมาในรูปของน้ำหรือหิมะ

4. การซึมซาบ: น้ำจะซึมลงสู่ดินกลายเป็นน้ำใต้ดิน

5. การไหลกลับสู่มหาสมุทร: น้ำจะไหลกลับสู่มหาสมุทรผ่านลำธาร แม่น้ำ และน้ำพุ

Collect Connect
WITH GLOBE

สมัคร GLOBE
GLOBE Observer of Applications

สมัครก่อนวันที่ 22 ตุลาคม 2565

เปิดรับสมัคร: 1 ตุลาคม - 21 ตุลาคม 2565
ปิดรับสมัคร: 22 ตุลาคม 2565

สมัครที่: <https://forms.glo/urY7xVz4FzK4w0387X>

สมัครก่อนวันที่ 22 ตุลาคม 2565

สมัครก่อนวันที่ 22 ตุลาคม 2565



ภารกิจ ผีเสื้อ
"MOSQUITO LARVAE HUNTER"

สมัครวันที่ 18 - 31 กรกฎาคม 2565

THE GLOBE ขอเชิญชวนผู้สนใจเข้าร่วมโครงการประกวดเขียนนิยาย "เรื่องเล่าเกี่ยวกับน้ำใต้ดิน"

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แผนที่ประเทศไทย

แสดงตำแหน่งของโรงเรียน

โรงเรียน	พิกัด
โรงเรียนบ้านหนองบัว	7.8112, 101.9646
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WORLD SOIL DAY 2022
"Soils, where food begins"

ดินเป็นรากฐานของชีวิต อาหาร และสิ่งแวดล้อม

ดินมีความสำคัญต่อวิถีชีวิตของมนุษย์และสัตว์ป่า

การใช้น้ำใต้ดินอย่างไม่เหมาะสมอาจส่งผลให้น้ำใต้ดินปนเปื้อนและหมดลงได้

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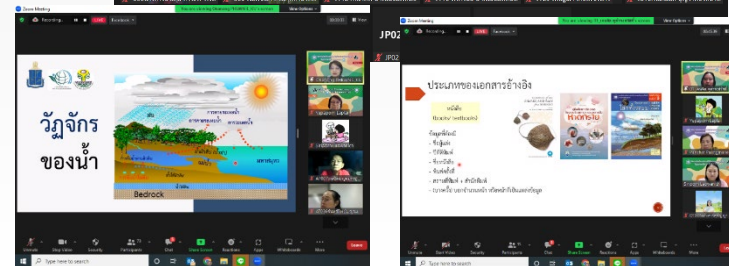
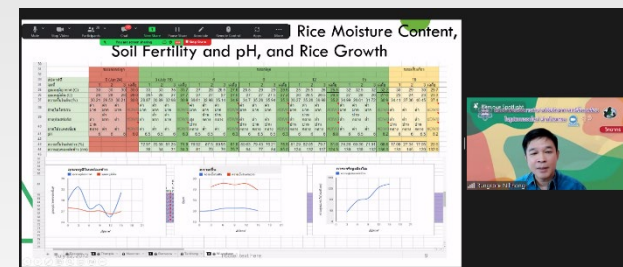
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3.2 Promotion of Environmental Science Research Seminars

**9 online seminars/
672 participants**

- Aims to promote the creativity of student in environmental science research and to promote environmental science skills and knowledge for students and teachers
- 672 participants including 243 teachers, 409 students, and 20 general public
 - ✓ Introduction of Student Research by using remote with GLOBE Visualize Data
 - ✓ Know the Weather
 - ✓ Marine Research
 - ✓ Water Technology and Sustainable Development Goals
 - ✓ Water Quality and Soil Fauna Biodiversity
 - ✓ Plankton and Student Research in School
 - ✓ Innovation for Community Water Management
 - ✓ Interpret Research Data and Presentation
 - ✓ How to Write a Reference?



4.1 Development Media for Promotion Environmental Science Competency

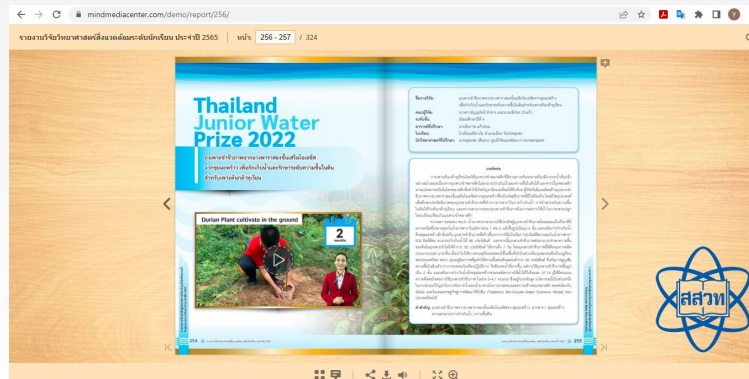
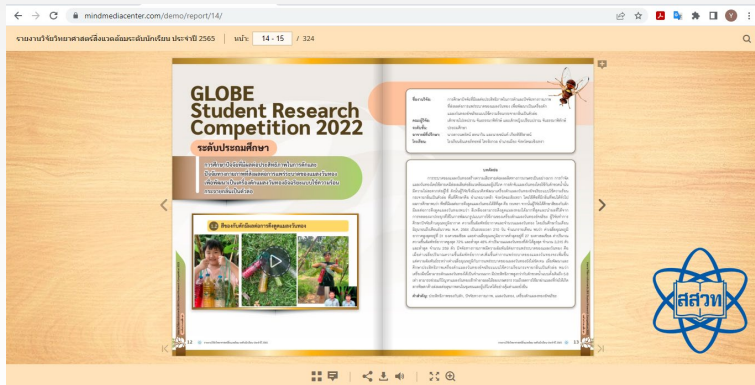
- Developed board game for student “Earth System Science Adventure” for Grade 1-3 and Grade 4-6 in Thai version.
- Learn Living things and Non-Living thing by grouping and making the relationship between these two groups
- Supplement for Science and Earth System Science curriculum.





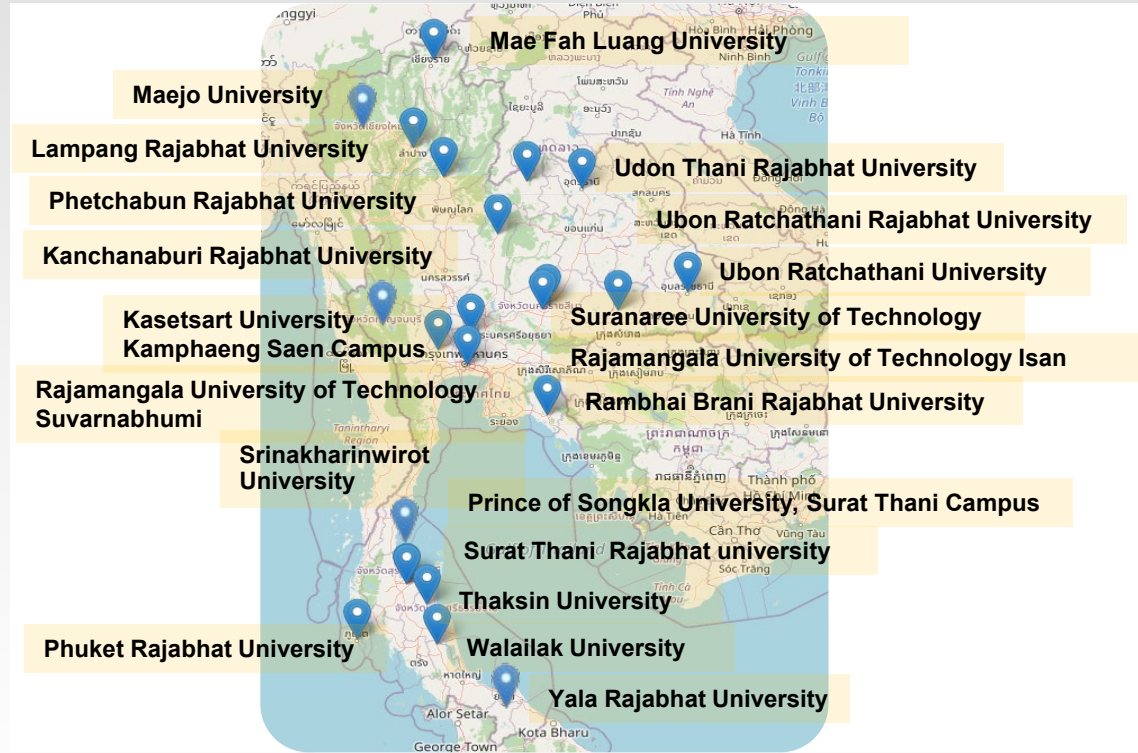
4.2 2022 Student Journal of Environmental Science Research

- Conducted 2 platforms of student research competitions; GLOBE Student Research Competition (GLOBE SRC) and Thailand Junior Water Prize (TJWP)
- 27 research's winners, published (Thai version) online in GLOBE Thailand website <https://globefamily.ipst.ac.th/student-research/globe-thailand-awards>





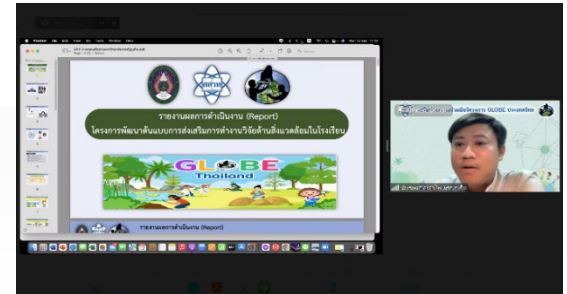
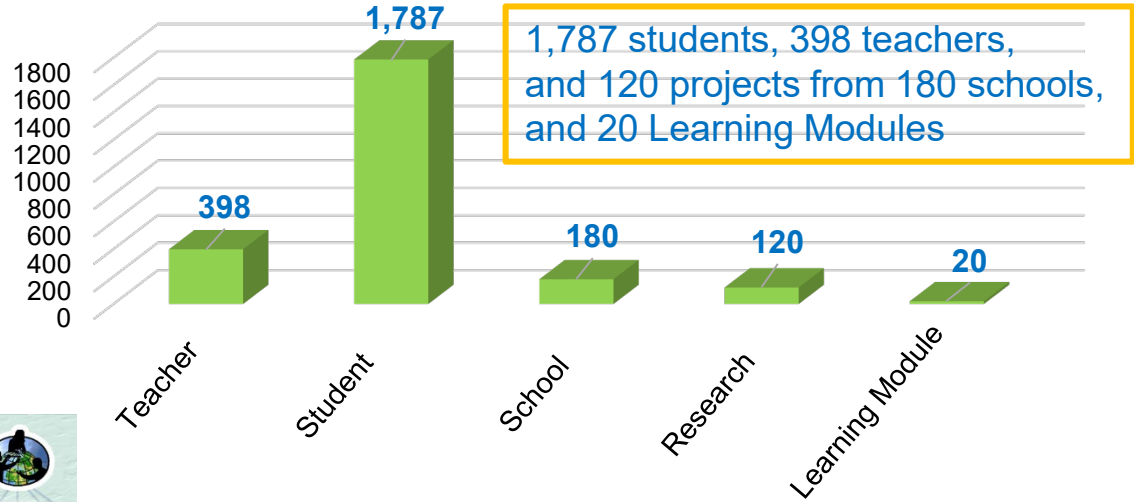
1. Srinakharinwirot University
2. Walailak University
3. Kasetsart University Kamphaeng Saen Campus
4. Prince of Songkla University, Surat Thani Campus
5. Thaksin University
6. Udon Thani Rajabhat University
7. Ubon Ratchathani Rajabhat University
8. Rajamangala University of Technology Isan
9. Mae Fah Luang University
10. Surat Thani Rajabhat university
11. Suranaree University of Technology
12. Phuket Rajabhat University
13. Rambhai Brani Rajabhat University
14. Lampang Rajabhat University
15. Rajamangala University of Technology Suvarnabhumi
16. Phetchabun Rajabhat University
17. Ubon Ratchathani University
18. Maejo University
19. Kanchanaburi Rajabhat University
20. Yala Rajabhat University





Held online and face-to-face GLOBE STEM workshop on the Atmosphere, Hydrosphere, Pedosphere, and Biosphere Protocol

Overall Result of Cooperation with Universities in 2022

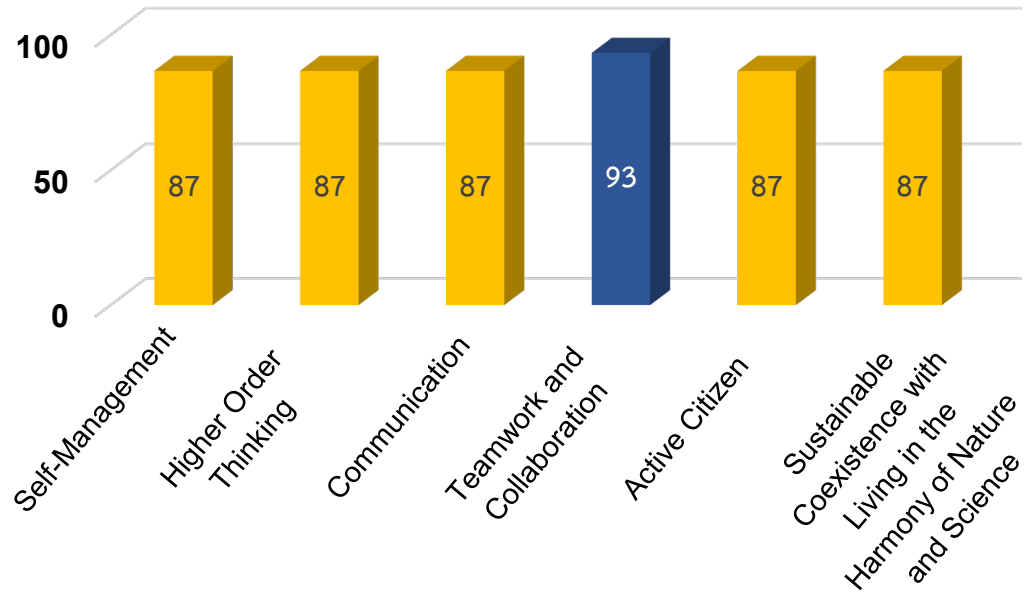




- Do questionnaires to assess the development of students' core competencies
- Students can develop core competencies of learners 93% of the teamwork and collaboration, while 87% of all other competencies can be developed

1,378 students, 158 teachers, from 71 schools

Development of Core Competencies of Learners Participating in Learning Module to Promote Environmental Research in Schools for the Year 2022





- Collaborating with universities and science high school;
 - 1) Mae Fah Luang University,
 - 2) Rajamangala University of Technology Isan,
 - 3) Ubon Ratchathani Rajabhat University,
 - 4) Princess Chulabhorn Science High School Trang
 - 5) Walailak University
- To extend GLOBE program in 4 disadvantage schools to do the Extension of GLOBE Research Program and Network to Strengthen Local Wisdoms in Rural Areas of Thailand Project
- Banpotwittaya School in the northern, Bandon (Saharat-Ratuthit) School and Ban Pongpao School in northeastern, Banmodtanoy School in southern parts of Thailand.
- Granted by U.S. Embassy in Thailand and supported the equipment by Youth Learning as Citizen Environmental Scientists (YLACES)
- Universities conducted the GLOBE Protocols Workshop in 4 schools and collaborate with school to do GLOBE research in context of based on local wisdoms of Thais' way of life such as agriculture and tourism, thus benefit the studied communities.

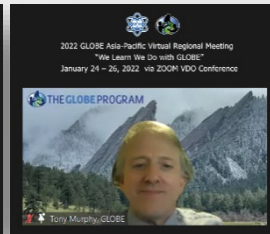




7.1 GLOBE Asia-Pacific Regional Virtual Meeting 2022

- Cooperated with GLOBE Asia-pacific Regional Coordination Office (RCO) and GLOBE Implementation Office (GIO) organized 2022 GLOBE Asia-Pacific Virtual Regional Meeting in the theme “We Learn, We Do with GLOBE” on January 24 – 26, 2022 via Zoom VDO Conference.
- GLOBE Asia-Pacific Student Research Presentation on January 24, 2022.
- 280 participants and 10 student research presentations from 6 countries: India, Nepal, Taiwan, Philippines and Republic of Korea. During January 25 – 26, 2022,
- Country Coordinator from 9 countries :India, Taiwan, Nepal, Thai, Philippines, Republic of Korea, Sri Lanka, Australia and United States of America

9 countries, 280 participants

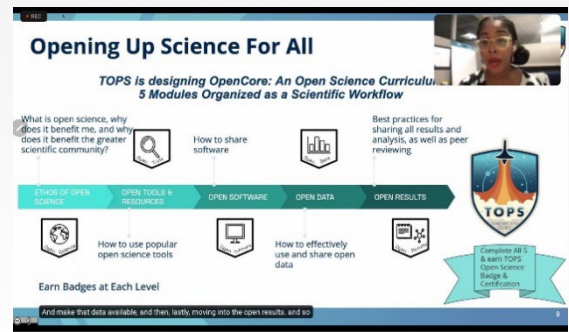
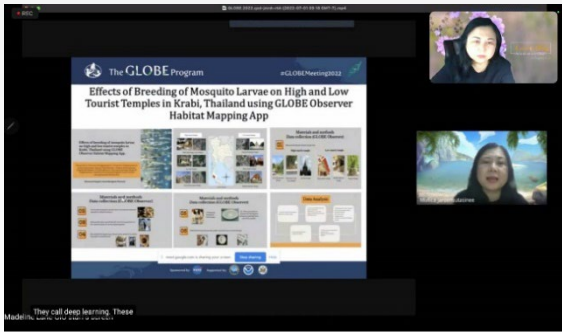




7.2 2022 GLOBE Annual Meeting (Virtual)

- During July 25 – 29, 2022, 12 participants from GLOBE Thailand: IPST, Walailak University, Princess Chulabhorn Science High School Trang and Kalasin Pittayasan School participated in this virtual meeting.

12 participants

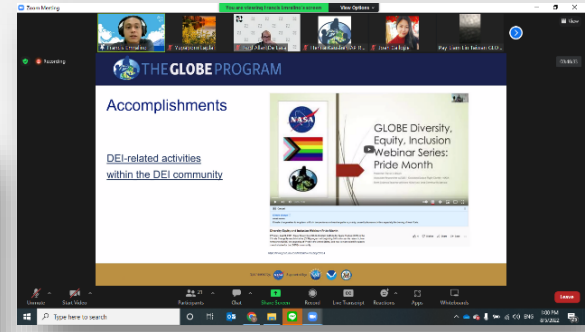
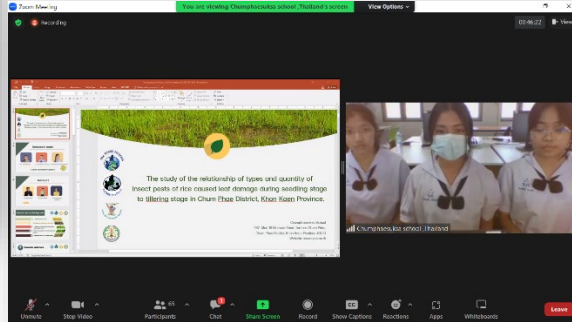
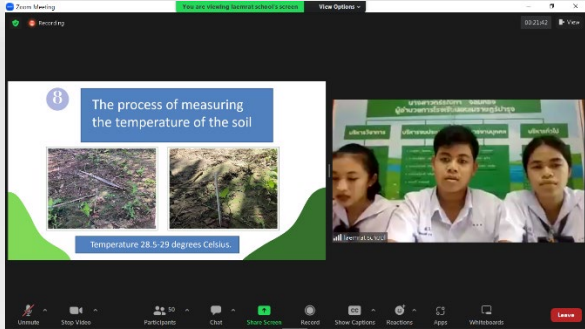




7.3 GLOBE Asia-Pacific Webinar

- Attended the online GLOBE Asia-Pacific Webinar. There are 8 times including 13 student research teams presented in this event.

8 times/ 13 student research teams





7.4 GLOBE Asia-Pacific Student Exchange Program

4 GLOBE Teachers and students attended the 2022 Lake Pokhara Expedition in Kathmandu and Pokhara, Nepal during September 27 – October 3, 2022.

1. Mrs.Patchara Pongmanawut (Teacher),Princess Chulabhorn Science High School Trang
2. Miss Neungruthai Chaimanee (Teacher), Princess Chulabhorn Science High School Trang
3. Miss Nattagratta Lunda (Student), Princess Chulabhorn Science High School Trang
4. Miss Hataipat Karnjanasrimak (Student), Princess Chulabhorn Science High School Trang

4 participants

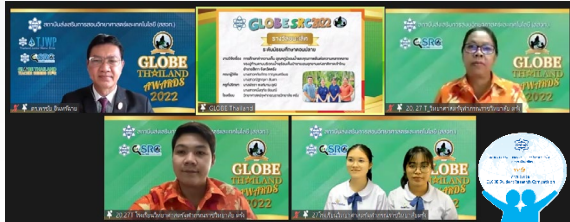




7.5 GLOBE Thailand Awards 2022 (Virtual)

- Conducted Virtual GLOBE Thailand Awards 2022 on August 10, 2022
- Aim to present awards for students and teachers in 3 GLOBE Thailand Competition platforms
- 118 participants : 48 teachers and 70 students
- 29 awards were presented to the winner, as follows:
 1. GLOBE Student Research Competition 2022, 21 awards.
 2. Thailand Junior Water Prize 2022, 6 awards.
 3. GLOBE Thailand Teacher Shining Star 2022, 2 awards.

118 participants/
29 awards





7.6 Special Award for GLOBE Thailand, IPST

- IPST received the 2022 Good Person, Smart Person and Brave Person Award from the Committee on Science, Technology, Research, and Innovation, Senate, Thailand.
- **“Promotion of Teaching Environmental Science Literacy project”** (included GLOBE Student Research Competition (GLOBE SRC), Thailand Junior Water Prize (TJWP) and GLOBE Thailand Teacher Shining Star (GLOBE TSS))
- This award aim to encourage government agency that support and encourage people to be a Good Person, Smart Person and Brave Person.
- 74 agencies received this award and IPST (1 of 10 agencies from Ministry of Education (MOE))





Future Plan in 2023

1

Enhancement of Teacher and Student Potential on Environmental Science Research and Innovation for Environmental Science Education 2023 (GLOBE SRC, TJWP and GLOBE TSS)

2

Training to Enhance Teachers' Potential for Understanding Climate Change and Earth System Science

- Online Teacher Training on ESS, Climate Change Activities

3

GLOBE Activities Promotion and Raising Awareness of Environmental Science Learning in Thailand

- Online Seminar
- Raising Environmental Awareness with GLOBE Campaigns

4

GLOBE Media by developing E-book for 2023 Student Journal of Environmental Science Research

5

Cooperation with Universities in Promoting Environmental Science Research Based on IPST Concept. (In 2023, 21 Universities)

6

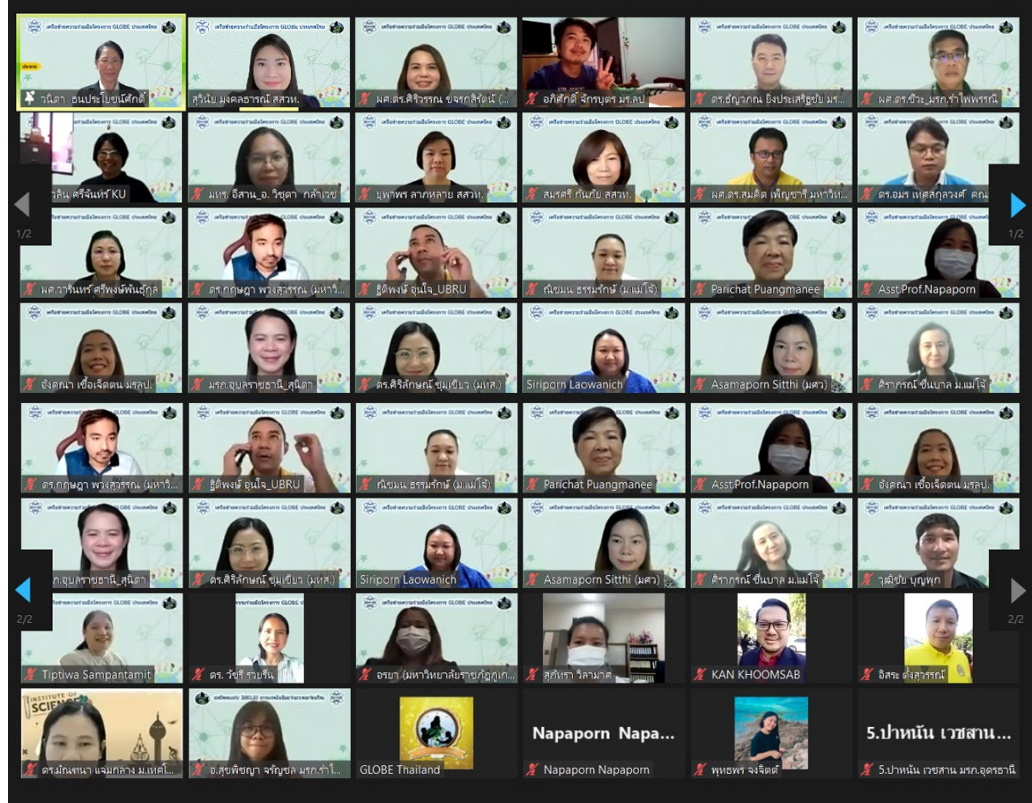
The Extension of GLOBE Research Program and Network to Strengthen Local Wisdoms in Rural Areas of Thailand

- Student do their research (GLOBE SRC2023, IVSS2023)
- Develop Local Knowledge center

7

GLOBE Thailand Special Events

- GLOBE Thailand Awards 2023
- GLOBE Annual Meeting 2023



THANK YOU !

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