

Thailand

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Organization and Number of Staff: 5 persons

Funding by: Government

Cooperating Organizations/Individuals:

1. University
2. U.S. Embassy Bangkok, Thailand
3. National Science and Technology Development Agency

GLOBE Schools (what types, how many):

There are 1,055 schools in Thailand. The implementation of GLOBE school are in Primary to Secondary education.

GLOBE Areas you and schools focus on:

To promote the operation of GLOBE Thailand, IPST has developed scientific knowledge and competencies of teachers and students through collaborative research between students, teachers, scientists and communities to enhance understanding of the interrelation of the 4 major components of the earth (Pedosphere, Hydrosphere, Atmosphere, and Biosphere) using Earth System Science that is linked to real life and improve their local environment.

In 2022, IPST has supported the GLOBE Program through the following important activities:

1. The environmental science research: IPST, in collaboration with 20 universities and external agencies, has developed knowledge and abilities of teachers and students through the environmental science research using IPST's approach. The project currently has 20 network universities across the country.
2. The development of knowledge, active learning abilities and competencies of teachers in environmental science learning and research process: IPST aimed

for teachers to apply what they learned in their classes as effective as required by IPST.

3. Creating the society of science learning and raising environmental awareness through activities such as a online seminar for alls, campaigns such as World Soil Day, World Water Day, and hot issues of current environmental situation such as Climate Change Learning activity, cloud photography, Mosquito habitat mapper etc. In addition, IPST created platform for encouraging teachers to share their teaching experiences in Environment Science Education through GLOBE Thailand Teacher Shining Star (GLOBE TSS).
4. The learning materials in environmental science: the development of learning materials served a supplementary curriculum for schools in IPST's Enrichment Science Classroom project in lower secondary school level. The materials include textbooks and teacher's guides in Earth System Science, Student's learning activities and teacher's guides in Climate Change for upper primary school and lower secondary school levels, and other materials using in activities such as Earth System Science Adventure, cloud chart, plant color guide, mosquito larvae identification guide, etc.
5. The GLOBE Student Research Competition: IPST has organized the GLOBE Student Research Competition in the area of environmental science since 2009. The competition aims to provide students with the opportunity to submit their research on environmental science conducted in their local area and to exchange their knowledge and experiences with other schools across the country. The winning school team will get the opportunity to participate in the annual GLOBE Student Exchange Program with other member countries in the Asia Pacific region. Moreover, the research projects from GLOBE Thailand students have often been selected to present at the GLOBE Annual Meeting in the United States.

Please see the GLOBE Thailand Report 2022 linked below for more information:

https://drive.google.com/drive/folders/119vSctjJlCuUdcccfeWyPbgPYfitfwEiV?usp=share_link

Number of Schools Reporting Data over Past Year:

For this 2022, out of 112 schools and 468 teachers, there were 93,402 total observations. (Data updated for 28 February, 2023)

Program Implementation, International Cooperation in GLOBE Network, and Activities over Past Year (categorized by GLOBE Strategic Plan 2018-2023 Goals):

1. Education
2. Science
3. Community
4. Technology
5. Communications

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Plans and Ideas for Next Year:

1. Enhancement of Teacher and Student Potential on Environmental Science Research and Innovation for Environmental Science Education 2023
 - 1.1 GLOBE Student Research Competition (GLOBE SRC) 2023
 - 1.2 Thailand Junior Water Prize (TJWP) 2023
 - 1.3 GLOBE Thailand Teacher Shining Star (GLOBETSS) 2023
2. Training to Enhance Teachers' Potential for Understanding Climate Change and Earth System Science
IPST will conduct 4 teacher training workshops for Earth System Science Curriculum and Climate Change Learning Activity Curriculum. In addition, GLOBE Thailand will organize 6 workshops for enhancing knowledges, abilities and competencies of teachers in environmental science learning and research process by using GLOBE Protocols (Pedosphere, Hydrosphere, Atmosphere and Biosphere).
3. GLOBE Activities Promotion and Raising Awareness of Environmental Science Learning in Thailand
 - 3.1 Organizing online seminar for empowering scientific knowledges, active learning abilities and competencies of teachers, students and community in handle their scientific environmental science learning and research process.
 - 3.2 Raising awareness of Environmental Science Learning by running campaigns such as World Soil Day, World Water Day, and hot issues of current environmental situation such as Climate Change mitigation and adaptation activity, cloud photography, Do GLOBE in anywhere, etc.
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 this fiscal year 2023, GLOBE Thailand, IPST has 21 Universities network.
6. GLOBE Thailand Special Events
 - 6.1 GLOBE Thailand Awards 2023
 - 6.2 GLOBE Annual Meeting 2023