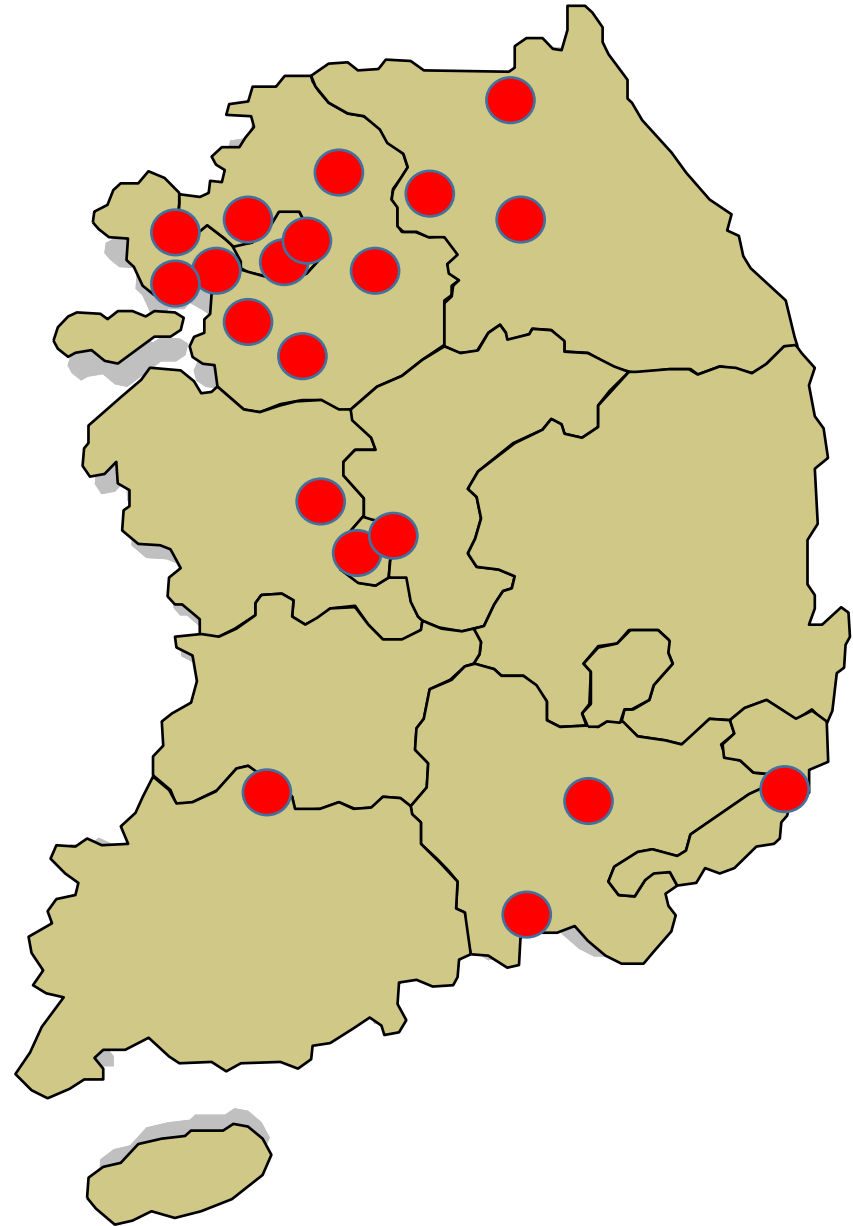


2017 GLOBE Program in Korea



2017 Overview

- 20 schools
 - Elementary : 4 schools
 - Middle : 3 schools
 - High : 13 schools
- 150 Students participated
- 20 Teachers participated
- Protocol
 - AtmosPHERE : 8 schools
 - Hydrosphere : 6 schools
 - Pedosphere : 2 schools
 - Biosphere : 4 schools



Teacher's Training Program

- Date : 2017.5.19~5.20
- Participants : 20 GLOBE teachers



Introduction



Field work



GLOBE guide book



lab work & data entry

GLOBE Asia-Pacific Regional Meeting of Country Coordinators

- Date : 2017.5.21~5.25
- Participant : Ms. Soo Kyung, Cho



Student's inquiry camp

- Date : 2017.9.15~9.17
- Participants : 20 GLOBE teams(110 students and teachers)

1st day

- GLOBE poster session
- UN climate change negotiation game
- Astronomical observation
- Discussion about Cloud protocol



2nd day

- Forests activities
- Discussion about how to solve local community problems by GLOBE program
- Make diorama (based on August 2017 cloud data)
- Tony Murphy's web lecture & interview!!



Share best practices

- Select & Award 8 best practices
- Share 3 best practices by making brochure
- Provide opportunity of international exchange to 1 best practice
- Best Practices will be used to Teacher's Training Program in 2018

Green Earth (Masan Yongma High School)



Green Earth is a circle which is intended to learn about the coexistence of nature and humans through the activities of community monitoring team on the water quality changes of Bongam Mudflat of Masan Bay designated as marine protection area (coastal wetland protection area) and also think of what we can do for the environmental preservation of Masan Bay and put our ideas into practice.

Topic of Autonomous Study:
"Protect Bongam Mudflat, which is a hope of Masan Bay!"

01 Objectives of Study

1. Learning about the coexistence of human and nature
2. Establishment of practice of our tasks to preserve the environment of Masan Bay and Bongam Mudflat

02 Contents of Study

1. Survey of the water quality Masan Bongam Mudflat designated as marine protection zone (coastal wetland protection area)
2. Analysis of the water quality survey data of Changwon River (# 52) which is flowing into Masan Bay, Bongam Mudflat (# 52) and Masan Bay (# 51)
3. Selection of the tasks we can implement to preserve the environment of Masan Bay and Bongam Mudflat
4. Implementation of the tasks we selected to preserve the environment of Masan Bay and Bongam Mudflat
5. Activities of Bongam Mudflat Community Monitoring Team

03 Results of Study

1. Accumulation of the water quality data of Changwon River (# 52) which is flowing into Masan Bay, Bongam Mudflat (# 52) and Masan Bay (# 51)
2. Analysis of the water quality data of Changwon River (# 52) which is flowing into Masan Bay, Bongam Mudflat (# 52) and Masan Bay (# 51)
3. Enhancement of community consciousness of environmental preservation through the activities of ngam Mudflat Community Monitoring Team

04 Achievements

Achievements from GLOBE activities

1. Accumulation of the water quality data of Changwon River (# 52) which is flowing into Masan Bay, Bongam Mudflat (# 52) and Masan Bay (# 51)
2. Analysis of the water quality data of Changwon River (# 52) which is flowing into Masan Bay, Bongam Mudflat (# 52) and Masan Bay (# 51)
3. Enhancement of community consciousness of environmental preservation through the activities of Bongam Mudflat Community Monitoring Team
4. Enhancement of thinking power and the formation of integrity and responsibility through water pollution measurement process

Achievements from community-based GLOBE activities

1. We agreed to participate as a student circle club in "Bongam Mudflat shore crab habit monitoring" activities jointly promoted by industry and academia (Marine Biodiversity Institute of Korea, Kunsan National University)
2. We participated in the 21st Korea Creative Science Festival and operated an Eco-friendly Water Bottle Experiment Booth on the theme "Water is Life" to promote the value of the environment among citizens and students who participated in the event.
3. We invited children from Sanho Community Children's Center near the school to give them the opportunities to experience environmental science experiments.
4. We participate in science experience exhibition (on-campus) with local community and held a booth related to environment.

05 Excellence of Activities

1 Sustainability and Integrity

For the measurement of cloud, which was a common task, we measured clouds 92 times in total during lunch break every day, except when it was inevitable.

For the measurement of water quality, which was autonomous study task, we went to Bongam Mudflat, which is 20 minutes away from the school, around 17:00 on every Saturday or Sunday, and monitored the 3 areas, brought the collected samples to the laboratory to measure DO, alkalinity, and nitrate etc.

2 Selection of topics and activities related to community issues

As a results of thinking a lot about our activities as an environmental protector of our community as citizens, not as students, we selected the theme of "Protect Bongam Mudflat, which is a hope of Masan Bay", and involved in activities as community monitors. Furthermore, we participated in various sharing experiences and promoted the value of environmental preservation.

3 Changes in Circle Member's Consciousness of Environment

- We became interested the scientific study topics in daily life and have an attitude to study about sustainable development.
- We could improve our scientific thinking power and formed sincerity and responsibility through the process of water pollution measurement.



06 Photos of Activities



Photo 1 Water quality measurement and sampling at # 51



Photo 2 Sampling at # 52



Photo 3 Water quality measurement at # 52



Photo 4 Water quality measurement in laboratory



Photo 5 Participation in theme creation Science Festival



Photo 6 Scientific experiment of the children invited from Sanho Community Children's Center



Photo 7 Community meeting activity



Photo 8 Participation in community sharing event

International exchange(visit Colorado, U.S.)

- Date : 2018.1.10~1.17
- Participants : 6 students and 1 teacher, 1 coordinator
- Programs
 - Visit Westview middle school(GLOBE best school)
 - Saint Vrain Innovation Center
 - GIO
 - University of Colorado(Fiske Planetarium)
 - NCAR (National center for Atmospheric Research)
 - Rocky Mountain National Park ('Plain to the park' program)
 - Denver Museum of Nature and Science
 - Dinosaur ridge and Rocky Mountain National wild life refuge



Colorado local news(2018.1.11)

http://www.timescall.com/news/longmont-schools/ci_31586660/south-korean-students-american-education-longmont

TIMES-CALL SCHOOLS

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HOT TOPICS: Circle K shooting - Ericom scheme alleged - Longmont arson - South I-70 Parkway bridge


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South Korean high school students take in American education experience in Longmont

A group of teens from South Korea visited Westview Middle School on Thursday

By Sam Lounaberry
Staff Writer

POSTED: 01/11/2018 03:52:44 PM MST
UPDATED: 01/11/2018 03:53:03 PM MST



South Korean Students visit Westview MS in Longmont
Poudre Mountain Publishing

Autoplay: On | Off

Looks of awe struck the faces of six high school students from South Korea as a science teacher at Westview Middle School in Longmont showed them a cast-off elk antler in a classroom Thursday morning.

The foreign students are on a five-day trip to the United States as part of a program sponsored by NASA, and were amazed at the size of the antler and the perspective it provided of the bulk of its owner.

The six South Korean teens became even more impressed by videos of bull elk clashing their heads in bouts for mates in Rocky Mountain National Park after holding the antler in Westview Middle School science teacher Daniel Cribby's classroom.

An interpreter for the students, who attend Masan Yongma High School in Masan, a city in the southeast Korean peninsula, told Cribby the students are not accustomed to having wildlife such as elk, mountain lions, bobcats and bears just a drive away as it is in Longmont.

The teenagers are most familiar with squirrels and other city-dwelling animals that live in Masan with its more than 400,000 people, said Cho SooKyung, the translator and a researcher for the Korea Foundation for the Advancement of Science and Creativity.

The students won a five-day trip to the U.S. as an award for their research project for the Global Learning and Observations to Benefit the Environment Program, which is associated with NASA and implements data collection and monitoring routines of environmental indicators at schools around the world.

2018's plan

- Select and Support about 40 schools
 - Teacher's Training Program('18.6)
 - International exchange('19.1)
 - Try to connect local environment civic groups to schools
- Diffusion of Best Practices
 - Online contents platform(Scienceall), online science newspaper(Sciencetimes)
 - Offline Korea Science festival, Local Science festival(14 region)
 - Various Kind of school(Youth Science Club, STEAM school, Science education Leading School, Computer Education Leading school, etc...)
- Prepare 2019 Asia Pacific Regional Meeting in Korea('19.5 vs '19.8)

Thank you ☺

