



GLOBE Program Regional Meeting Europe and Eurasia

Zichron Yaacov, Israel, November 6 – 10, 2017

Notes by RCO Europe and Eurasia

Regional Meeting was hosted in Eden Inn Hotel in Zichron Yaacov, Israel. The group consisted of 35 Country Coordinators, trainers, scientists and teachers from 21 countries and was joined by 20 teachers from Israel who attended the training. They all come together to learn about the most recent activities of the GLOBE Program in the Region and worldwide. The Meeting was organized in cooperation with GLOBE Israel, GLOBE Europe and Eurasia Board along with Region Coordination Office of GLOBE Europe and Eurasia.

5th November – Sunday

Europe and Eurasia Board, Working Groups representatives and organizing committee Meeting

All the presentations listed below are available to download at the [Documents section of the Europe and Eurasia Region](#) page at globe.gov.

Day 1: 6th November - Monday - Country Coordinators Meeting

Opening

The meeting was opened by the welcome speech of the Israeli Ministry of Education representatives, GLOBE Implementation Office Director and Europe and Eurasia RCO representatives.

Ministry of Education: ICT Department Dr. Ofer Rimon; Head of Information Systems Technology, Mr. Ronny Dayan; Head of Information Technology, Dr. Gilmore Keshet, Director of Science Division, Pedagogic Secretariat, and Dr. Aviva Breiner, Chief Inspector of Science and Technology. GLOBE Israel Country Coordinator Dr. Farid Hamdan

GLOBE Implementation Office: Dr. Tony Murphy

Europe and Eurasia RCO: Dana Votápková and Bara Semeráková

Recapitulation of the last year, milestones, news

Presentation by *Tony Murphy, GIO Director*

Tony Murphy delivered a presentation on activities undertaken by GLOBE Implementation Office (GIO):

- The activities are summarized in [2016-2017 Annual Review](#)
- The ENSO (El Nino) Campaign progress to Phase III – [Water in Our Environment](#)
- [GLOBE International Virtual Science Symposium](#) – 147 student research reports in total of which 26 were from Europe and Eurasia region.
- Earth Day – video contest, Cloud Observations...
- Citizen Science [GLOBE Observer App](#) is a success, new protocols added – Clouds, Mosquitoes.

What is coming in 2018:

- [2018 GLOBE International Virtual Science Symposium](#) – deadline for submission of reports is March 1st 2018; first webinar recording and slides available on the event page.
- [2018 GLOBE Learning Expedition \(GLE\): Ireland, Killarney, July 01-06 2018](#) – will be organized together with the 2018 Annual Partner Meeting
- New Standing Carbon Protocol, Soil Moisture Probe testing
- Revision of the Training Process (Trainers and Master Trainers)
- New Strategic Plan for the program
- Collaboration with UNESCO, Federation for Environmental Education, Peace Corps...

Presentation by Bara Semerakova, RCO representative

Bara Semerakova gave an update on activities of the Europe and Eurasia Region Coordination Office.

- **26 student research reports were submitted for the 2017 [International Virtual Science Symposium](#).** Two of them were selected in drawing and were supported in their participation at the GLOBE Annual Meeting in USA.
- [2017 GLOBE at My School Calendar](#) - distributed to CCs and schools
- [Phenology Campaign in Europe](#) – piloted in spring, GrowApp for animations of trees, GLOBE protocol, more than 50 schools in collaboration group
- [GLOBE365 Phenology Poster](#) for schools printed and distributed to CCs at the meeting
- [Regional Brochure](#): Summary of recent GLOBE Program activities in the Europe and Eurasia Region
- **Earth Day Contest**: 48 video submissions from the Region
- Four [GLOBE Working Groups](#) with 6 representatives from the Region

Highlights from countries I.

CCs presented a specific highlight from their country in a short time (3 min). Detailed info on GLOBE implementation in countries is summarized in 2017 [Country Reports booklet](#).

The presentations are available for download [here](#).

GLOBE Learning Expedition 2018 (GLE) and other international events for students

- The aim of the session was to 1) introduce coming GLE and other international events where students, teachers and scientists from different countries can meet; 2) discuss the opportunities for communicating the events to schools and get funding to cover participants' travel costs
- Bara Semerakova introduced the GLE in general, their benefits and examples of already existing events in the Region.
- Tony Murphy gave presentation on the venue, program and logistics of the coming GLE in Ireland in July 2018. GLE page: https://www.globe.gov/news-events/meetings_symposia/globe-learning-expeditions/2018-killarney-ireland
- An international event for students will be organized in following countries in 2018: Czech Republic (GLOBE Games on 31.05-03.06.), Estonia (dates to be confirmed), Latvia (dates to be confirmed)

Collaboration with U.S. Embassies in countries

- 3 examples from countries were presented by:

Laura Altin, Estonia

Jan Blažek, Czech Republic

Elżbieta Wołoszyńska-Wiśniewska, Poland

Following the session, the meeting group was invited to the reception at the residency of the U.S. Embassy in Tel Aviv – Hertzeliya in the evening, where DCM Leslie Tsou hosted a working dinner for GLOBE Europe and Eurasia Regional Meeting participants and guests from Ministry of Education.

Day 2: 7th November - Tuesday - Country Coordinators Meeting

Highlights from countries II.

Second part of the session that started on Day 1. CCs presented a specific highlight from their country in a short time (3 min). Detailed info on GLOBE implementation in countries is summarized in 2017 [Country Reports booklet](#).

The presentations are available for download [here](#).

Trainers and Master Trainers – process of certification

The aim was to get feedback from CCs for the Education Working Group represented by Diana Garasic. Education WG reviews the certification process for new GLOBE trainers.

Diana Garasic first presented an overview of current certification process and the status of the trainers/master trainers community. After that she opened the discussion for any feedback, including comments on how the trainings work in countries. Tony Murphy appreciated the ideas collected from the participants.

A summary document as an input for Education WG was produced after the session. The document is available in the folder with Presentations from the meeting along with the opening presentation.

The election of members of the Board of GLOBE Europe and Eurasia

Diana Garasic (former member of the Board), Magda Machinko-Nagrabecka and Laura Altin (both current members of the Board) facilitated the election.

Pre-Election Status: Five members continue mandate one more year (Matthijs Begheyn, Magda Machinko-Nagrabecka, Juliette Vogel, Laura Altin, Karl Schneider) and one member stepped down earlier in 2017 (Natali Pustilnik), hence the election was carried out to elect only one member.

There were 3 nominations: Farid Hamdan, Anthony Purcell, Diana Garasic

The election committee announced the winning nominee (after two rounds of elections): Farid Hamdan. The new Board comes in to effect from December 2017.

Regional Meeting 2018 – host and dates

Two nominations for the next regional meeting were presented:

- 1) Deputy CC of Kyrgyzstan Jyldyz Duishenova introduced the venue in Kyrgyzstan.
- 2) CC of France Danielle de Staerke introduced the venue in Toulouse / France.

RCO decided to take more time and discuss both the options with the CCs and Board. The planned date of the meeting is autumn 2018.

GLOBE Website and Technology

Presentation by Cornell Lewis, SSAI

What has been completed:

- Mobile phone Data Entry App enhanced: add site without internet connection, 9 languages, etc.
- GLOBE Observer App: clouds enhanced, new app Mosquito Habitat Mapper, Eclipse miniapp
- GLOBE Website: New Homepage design
- New landing pages for regions, countries, partners, schools
- GLOBE events calendar
- Blogs – see the WG members blogs and others – many new posts

- GLOBE Observers can become GLOBE trained
- Publishing news at the Regional Page / Homepage – “distribute to button”
- Partner Dashboard – new management tool for CCs
- Visualization – new design, lat and long according to the map, saving filters, new filters for Phenology (according species, legend has color range according by weeks)

What is coming:

- Land Cover protocol integrated to GLOBE Observer
- More languages added to Data Entry App
- Sphere landing pages – for Atmosphere, Hydrosphere etc.
- Improve document libraries and photo galleries
- Support others to connect to GLOBE data (push in and pull out data form the database)
- And many more

GLOBE in school curricula

Presentation by:

Angélique Emonts, Ministry of Education, Belgium – GLOBE in school curricula in German speaking community in Belgium

Andreas Thiemer, Germany – GLOBE for pre-service teachers at University of Cologne

Imbi Henno, Ministry of Education, Estonia – skype call presentation on GLOBE in school curricula in Estonia

GLOBE Alumni and GLOBE Veterans

Presentation by:

Magda Machinko-Nagrabecka, Poland and Laura Altin, Estonia

Two close topics were discussed during the session: How to work with GLOBE Alumni and How to keep active retired GLOBE members (so called Veterans). Both the groups have a great potential for the GLOBE community thanks to the enthusiasm and experience of the Alumni and Veterans. A plan how to keep them involved was introduced.

GLOBE Partnerships with other programs

Presentation by:

Constantinos Cartalis, Greece – GLOBE and UNEP and Eco-Schools

Synergies between the GLOBE Program and UNEP were introduced as well as suggested ways of mutual support of these two programs. Participants shared examples on how the collaboration between GLOBE and Eco-schools network function at school and national level in several countries. After that a discussion was started on how to use the UNEP strategies/topics and Eco-schools themes within GLOBE school network.

Day 3: 8th November – GLOBE Training

Mosquito Protocol and App

Claudia Caro, Perú (Portugal)

The new protocol on mapping mosquito habitats was introduced (part of Hydrosphere area of GLOBE – see the [e-training modul](#)). Participants learnt about different mosquito's genus and their significance for environment and human health, about the breeding cycle of mosquitos and their survival strategy. They tried out the app called Mosquito Habitat Mapper which is a part of the GLOBE Observer app. The campaign is very popular especially in Latin America, Africa and South-East Asia Region, however, it can be used by teachers all around the world to teach about mosquitoes.

Atmosphere protocols – basics

Danielle DeStaerke, Eric Abgrall, Sylvain Taussac, Michel Pedurand, GLOBE France

Training covered the basic Atmosphere protocols such as air temperature, barometric pressure, relative humidity. Participants learnt about the standards for choosing a study site (meteorological shelter).

Hydrology - basics

Lorella Rigonat and Maria Pia Coceano, GLOBE Italy

Basic Hydrosphere protocols such as water temperature, pH, conductivity, water transparency, nitrates etc. Participants learnt about the standards for a study site and the proper conduct of sampling and analysis. Participants could learn more about salinity protocol and practice taking samples on Friday field excursion to the Mediterranean Sea.

Good Practice of IBSE with using GLOBE topics/data

Michel Pedurand (France): Student Research Project for IVSS

Jan Mazůrek (Czech Republic): When the forest wakes up

Krisjanis Liepins (Latvia): Inquiry-based Science Education training for teachers – MASS Project

Farid Hamdan (Israel): GLOBE in Israel: Connecting Science, Culture and Technology

GLOBE Data Explorations – classroom activities

– Diana Garasic (Croatia)

The workshop introduce one of the classroom activities that use GLOBE data: Comparing Croatia Climates. GLOBE Data Explorations are classroom activities developed by the UCAR Center for Science Education, a GLOBE Partner, to help students learn how to analyze GLOBE environmental data while also learning atmospheric science concepts and geography. The nine activities were reviewed by science educators and staff at the GLOBE Implementation Office and field tested by teachers. Download the activities here:

<https://scied.ucar.edu/globe-data-explorations>

GLOBE website basics for CCs: administration and navigation

– Cornell Lewis

Introduction to the online tools for administration of the users accounts, schools, workshops and managing pages. Overview of where to find what on the website.

Data Entry and Visualization - Basics for CCs/trainers/teachers

– Cornell Lewis

Introduction to the GLOBE website tools that can be used to visualize and retrieve data from the database. Examples on how to work with maps, filter and download the data.

GLOBE Visualization Tool and Advanced Data Analysis Tool - Examples how to work with data

– *Bara Semerakova*

Examples of how to use full potential of Visualization tool and ADAT – for advanced users. Different types of filtering data, saving filters, plotting graphs. How to extract images and raw data, edit them and use in for presentation or classroom activity. Explanation on different types of legends and datasets for different protocols. Introduction to the ADAT, csv and excel processing of the datasets.

Day 4: 9th November – GLOBE Training

School Visit – meeting with students and teachers:

GLOBE Israel facilitated two school visits to Amal Elementary Jewish School in Kfar Yona and Barta'a Junior High School, where GLOBE U.S. and European representatives had a superb opportunity to learn hands-on about GLOBE Israel activities in the Jewish and Arab sectors. Both visits attracted key officials, including the mayors of Kfar Yona and the Basma regional council. The students demonstrated the measurements that they conduct using the GLOBE app and explained about the activities they are involved in all year-round.

Phenology Basics (Green Up, Green Down)

– *Magda Machinko-Nagrabecka*

Introduction to the basics of the Phenology protocols: Green Up and Green Down.

Clouds - Basics (coverage, types)

– *Laura Altin*

Presentation on classification of Cloud types and layers as they are observed within the Clouds Protocol.

New Clouds Observations and GLOBE Observer App

– *Laura Altin, Dana Votapkova*

Introduction to the integrated Clouds protocol that was launched in March 2017 and that can be used even by non-GLOBE members when use GLOBE Observer App. The protocol main components are cloud cover, cloud type, contrails, sky visibility and sky color.

European Phenology Campaign and Grow App

– *Bara Semerakova*

Update on the Phenology Campaign in Europe: current activities for schools, school collaborating group, support by scientists, website and discussion forum, GLOBE365 poster. More on the campaign website: <http://www.globe.gov/web/european-phenology-campaign/overview>

Day 5: 10th November – GLOBE Excursion and Training

GLOBE Excursion and Training (North Israel – Haifa region)

Data collection practice in: water salinity, pH, water temperature and transparency, clouds observations



GLOBE Meeting Group visiting Barta'a Junior High School.



The GLOBE France team giving the Atmosphere training.



Organizing team together with the representatives of the Ministry of Education.



Claudia Caro giving a presentation on Mosquito Habitat Mapper.



Mosquito protocol training (left). Student reports data on Clouds observation through GLOBE Observer App (right) and taking measurements of precipitation (down) at Amal Elementary Jewish School in Kfar Yona.

