

Opening ceremony

The formal opening ceremony of this Introduction to Google Earth Engine Training took place on Wednesday June 7, 2017 and was chaired by Mr Abdoulaye NDIAYE, SERVIR WEST AFRICA, USAID Accra and Mr Emil Cherrington, representative of NASA.

Participants at this workshop can from CERSGIS, ACMAD, RCMRD, ICRISAT, UENR, GSSTI, AFRIGIST, UMAT, EORIC, SERVIR West Africa and AGRHYMET Regional Centre.



Abdoulaye Ndiaye



Emil Cherrington

Google Earth Engine is a free, cloud based, geospatial remote sensing processing platform. This platform allows for the collaborative development and execution of Earth observation data analysis Workflows. The extensive, and regularly updated, data catalogue includes over 40 years of historic and current global Earth observation imagery.

The objectives of the workshop are to:

- Introduce participants to the Google Earth Engine, including the Code Editor;
- Explore basic JavaScript and Earth Engine programming concepts;
- Become familiar with a sample of basic geospatial applications in Earth Engine; and
- Introduce available resources for continued learning of Earth Engine concepts.



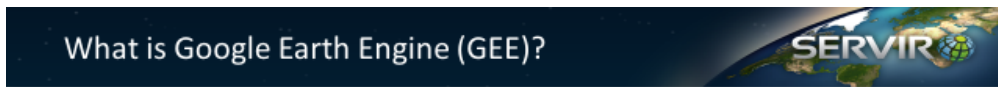
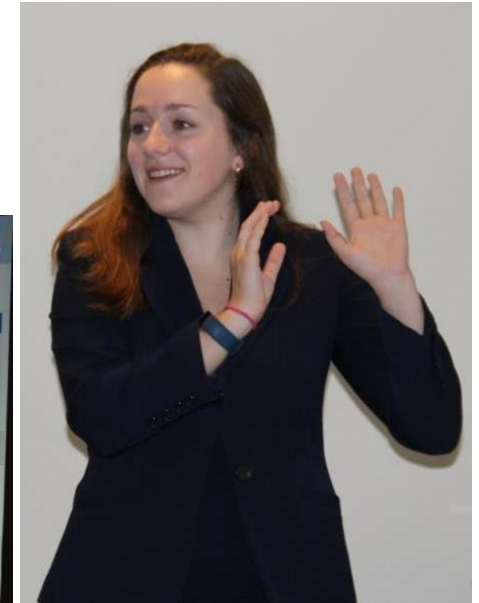
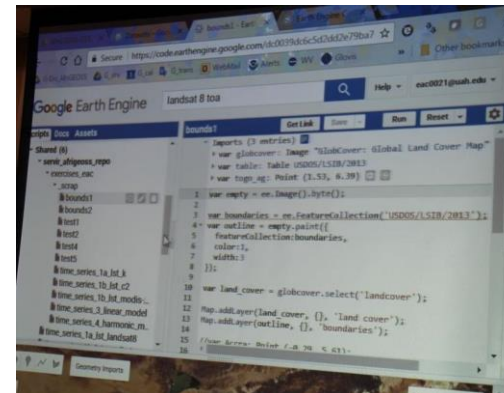
Overview of the auditorium

...Presentation: Introduction to Google Earth Engine by Emily

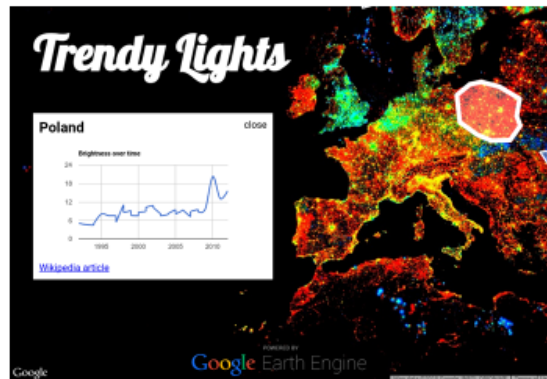
... Exercise: Introduction to Google Earth Engine by Rebekke Muench



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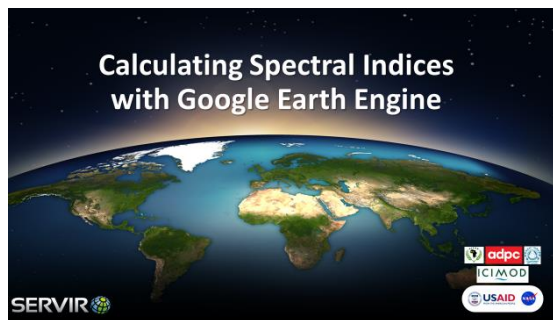


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...Exercise: Calculating Indices by Kelsey Herndon



Exercises group



... Presentation: Using Google Earth Engine for Time Series Analysis by Emil Cherrington



3. Applications of time series analysis

- Use of vegetation indices (VIs) and other indices to monitor changes over time
 - Enhanced Vegetation Index (EVI)
 - Normalized Difference Vegetation Index (NDVI)
 - Normalized Difference Water Index (NDWI)
- Monitoring of other EO parameters
 - Cloud cover
 - Land surface temperature
- Ability to study change using ~30m NDVI since 1982 (1972)
 - Deforestation / forest degradation
 - Agricultural expansion
 - Urbanization





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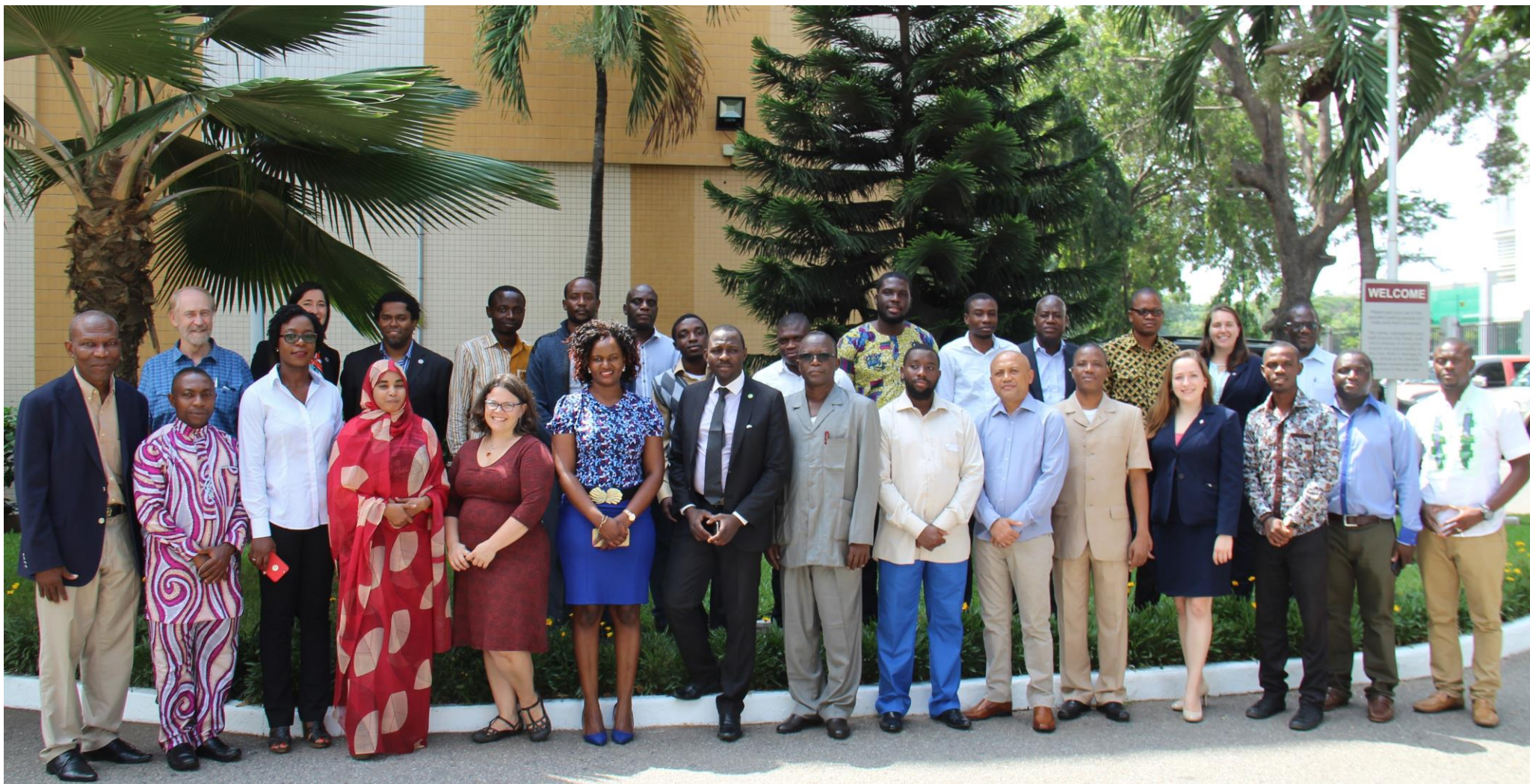


Photo Group

...participants list



Boamah (CERSGIS)



Comfort (GSSTI)



David (UENR)



Kofi (GSSTI)



James (RCMRD)



Phoebe (RCMRD)



Emmanuel (GSSTI)



Foster (CERSGIS)



Victor (CERSGIS)



Sanoussi (ICRISAT)



Hassane (ICRISAT)



Lamptey (ACMAD)



Ernest (CERSGIS)



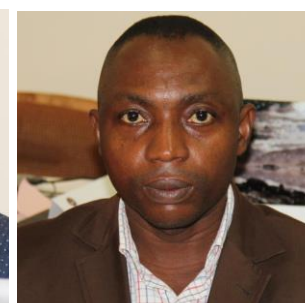
Eugere (CERSGIS)



Evans (UENR)



Leon (ACMAD)



Ayila (AFRIGIST)



Tohozin (AFRIGIST)



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George (ARC)



Andiswa (AfrigeOSS)



Margaret (USAID WA)



Kadidiatou (SERVIR WA)



Paul (SERVIR WA)



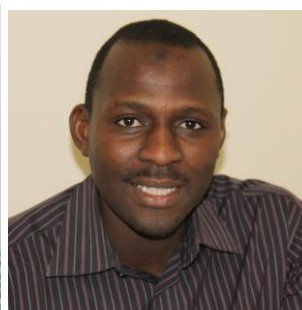
Bako (SERVIR WA)



Songoti (AGRHYMET)



Aziz (AGRHYMET)



Rabilou (SERVIR WA)

...The facilitators



Emil (NASA)



Kelsey (NASA)



Rebekke (NASA)



Emily (NASA)