COST Action CA16208
KNOWLEDGE CONVERSION FOR ENHANCING MANAGEMENT OF
EUROPE AN RIPARIAN ECOSYSTEMS AND SERVICES (CONVERGES)
Training Course Using Google Earth Engine for Monitoring
Changes in Riparian Vegetation
Online
11/12 February 2021

Organized by Ellis Penning, Gennadii Donchyts and Robyn Gwee (Deltares)

Monitoring the current status of floodplain vegetation and changes therein over time can be challenging and costly due to the vast extend of floodplains in many larger river systems. Satellite images give near real time information on the status of the dominant vegetation classes within the floodplains and allow for long term time series analysis.

The aim of this course is to give a first introduction to the use of Google Earth Engine for the monitoring of floodplain vegetation and analyzing changes over time.

Participants must have some experience with programming in phyton and be familiar with GIS-based analysis in QGIS or alike.

*****Course will proceed with a minimum of 10 candidates and a maximum of 40*****
*****Please register via** https://attendee.gotowebinar.com/register/8760155896378797840
 before 20 january 2021**
more information : ellis.penning@deltares.nl

Thursday 11th February – time in CET *(note time difference for UTC and UTC-2 member states !)*

9h00-9h15
　　　　Welcome to the course, rules of the game, some general words on benefits of using GEE

9h15-9h40
　　　　Practical example: the use of GEE for Floodplain vegetation monitoring in the Netherlands

9h40-10h10
　　　　 Basic features within GEE

10h10-10h50
　　　　Guidance on querying a satellite image for your own river system
　　　　Incl. Use of basic scripting, available scripts and adjustments of scripts

10h50-11h30
　　　　Guidance on selecting satellite images for a period or given date
　　　　Incl. downloading of data vs cloud-based analysis

11h30-13h30 Lunchbreak

13h30-16h00
　　　　Working on exercise (self-study with support via chat)

16h00-16h30
　　　　General feedback on experiences of the first day

Friday 12th February

9h00-10h00
    General explanations on classification algorithms for vegetation analysis

10h00-11h00
    Basic scripting of classifications

11h00-12h00
    Querying results (graphs and mapping features, incl. error matrices and accuracy discussion)

12h00-13h00 lunchbreak

13h00-16h00
    Working on exercise (self-study with support via chat)

16h00-16h30
    General feedback and experiences on the training course