



## TRAINING ON GOOGLE EARTH ENGINE

### *MODULE 3 : GEOMETRY in Google Earth Engine*

Prof. Dr. Eng. Ayman Abdulrahman

Coordinated from

Dr. Wahib Sahwan (Freie Universität Berlin)

**Geo-IT**

**The Technology of Data Acquisition for Sustainable Development and Crisis Management**

**(Germany, Jordan, Lebanon and Syria)**

## *MODULE 3 : GEOMETRY in Google Earth Engine*

- *GEE Geometry*
- *GEE Features*
- *GEE Features collection*
- *GEE Digital Elevation Model (SRTM)*
- *GEE Watershed and subwatershed delineation (WFF)*
- *Examples and exercises*

## ee.Geometry

ee.Geometry.BBox(west, south, east, north)

ee.Geometry.Rectangle(coords, proj, geodesic, evenOdd)

ee.Geometry.Point(coords, proj)

ee.Geometry.Polygon(coords, proj, geodesic, maxError, evenOdd)

ee.Geometry.MultiPoint(coords, proj)

ee.Geometry.MultiPolygon(coords, proj, geodesic, maxError, evenOdd)

ee.Geometry.LineString(coords, proj, geodesic, maxError)

ee.Geometry.LinearRing(coords, proj, geodesic, maxError)

ee.Geometry.MultiLineString(coords, proj, geodesic, maxError)

## ee.Feature

ee.Feature(geometry, properties) >>>>>>

breate a new Feature

geometry

ComputedObject | Feature | Geometry | Object

A geometry or feature.

properties

Object, optional

A dictionary of metadata properties. If the first parameter is a Feature (instead of a geometry), this is unused.

## ee.FeatureCollection

FeatureCollections can be constructed from the following arguments:

- A string: assumed to be the name of a collection.
- A single geometry.
- A single feature.
- A list of features.
- A GeoJSON FeatureCollection
- A computed object: reinterpreted as a collection.

### ee.FeatureCollection(args, column)

args                    ComputedObject | Feature | FeatureCollection | Geometry | List

The constructor arguments.

column                String, optional

The name of the geometry column to use. Only useful when working with a named collection.