

SEEFFGS Post Processing with QGIS

Presented by

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**09-13 May 2016, Follow Up Operations Workshop
South East Europe Flash Flood Guidance (SEEFFG) System**



World Meteorological Organization
(WMO)



Hydrologic Research Center
(HRC)

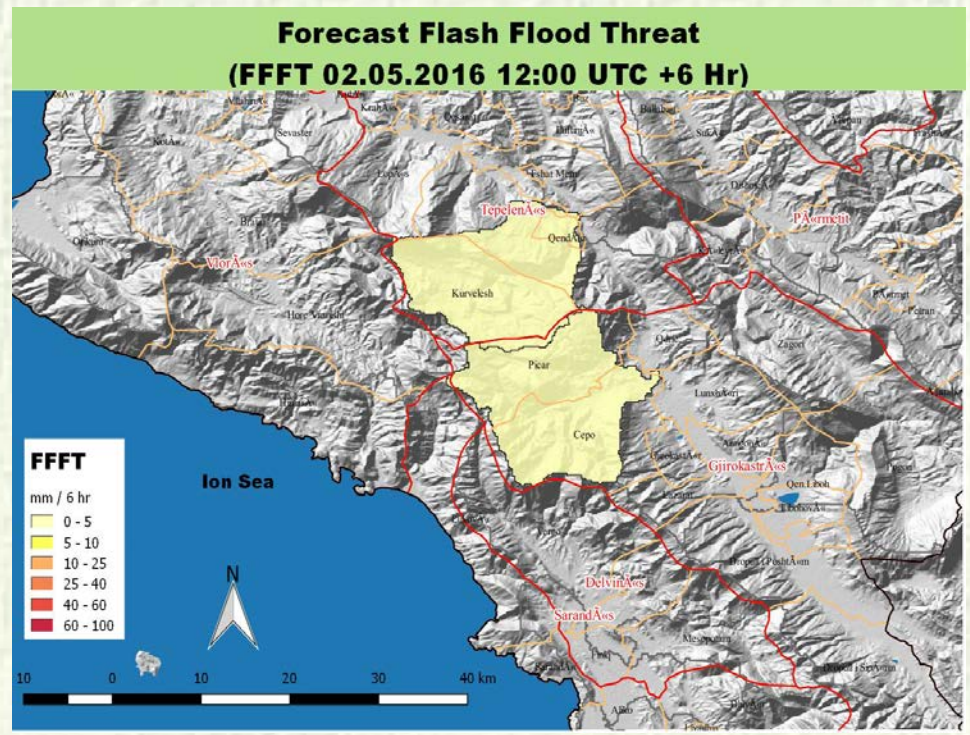
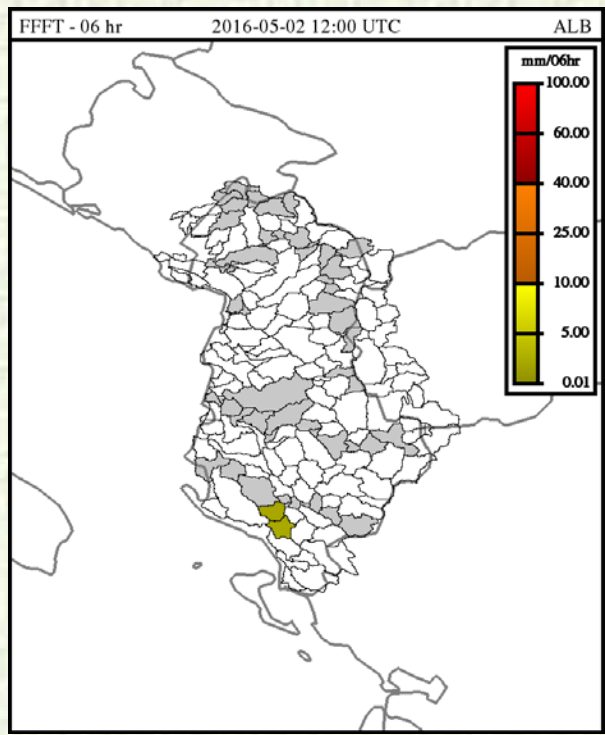


National Oceanic and Atmospheric
Administration (NOAA)



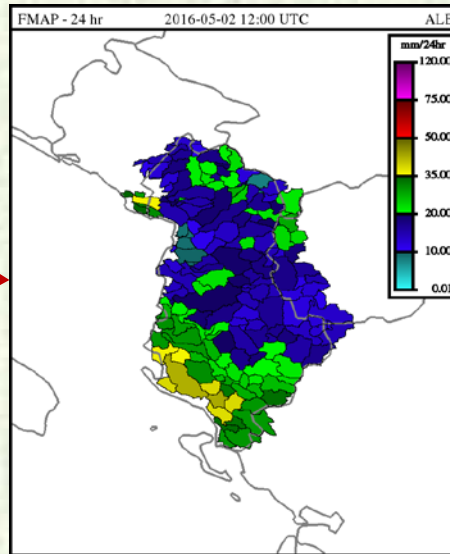
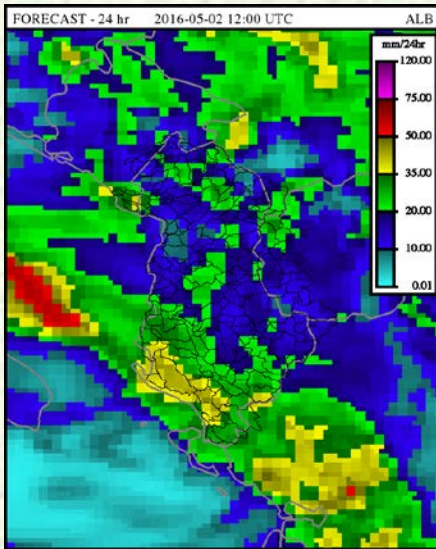
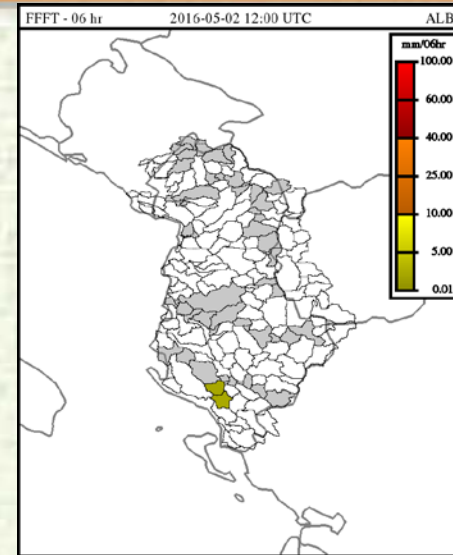
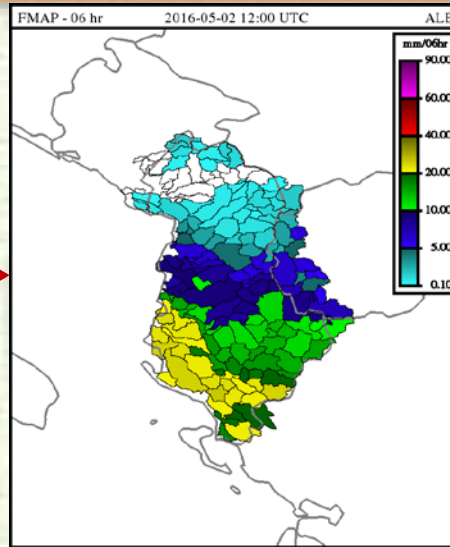
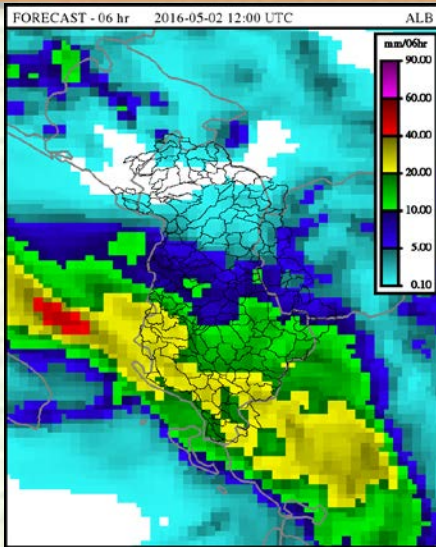
U.S. Agency for International
Development (USAID)

GOAL



The goal of this study is to prepare maps for post processing of SEFFGS products by using QGIS.

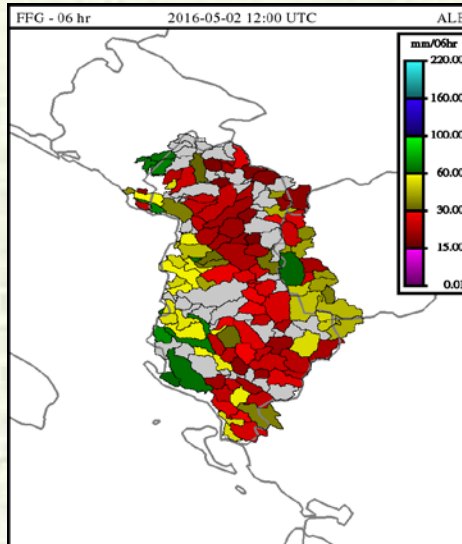
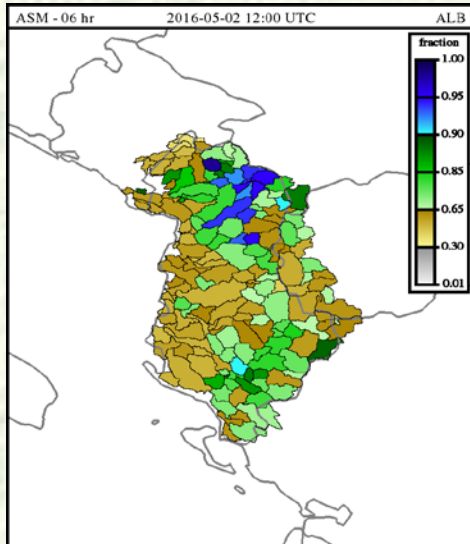
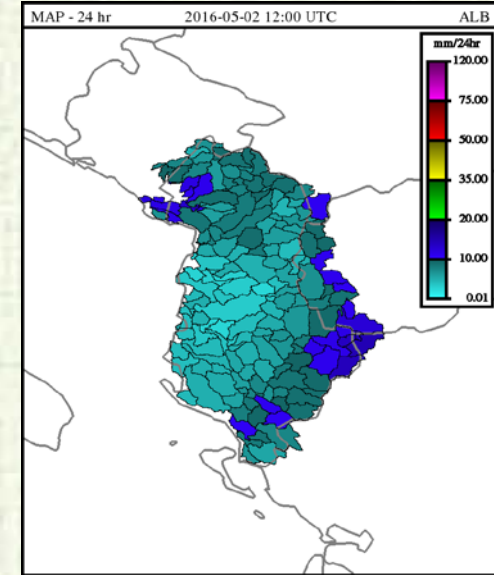
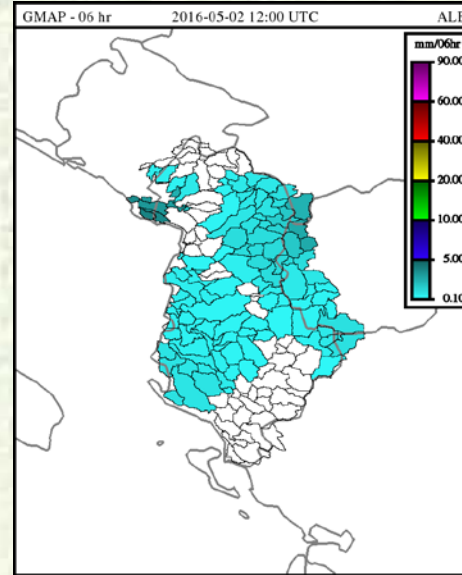
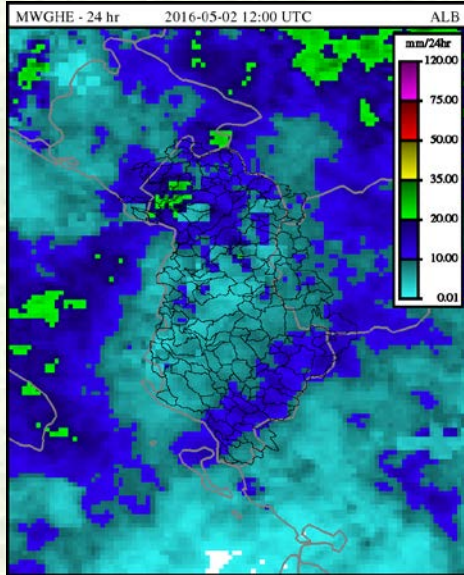
EVALUATION OF THE CURRENT SITUATION



On the left side, the images provide 6-hour and 24-hour totals of forecast precipitation (mm) produced by using numerical forecasts from the Aladin Model. ALADIN forecast. They show heavy rainfall is expected over Albania. It is important to note that the majority of expected rainfall occur in the first 6 hours. In particular, there is heavy rainfall prediction in the southern part.

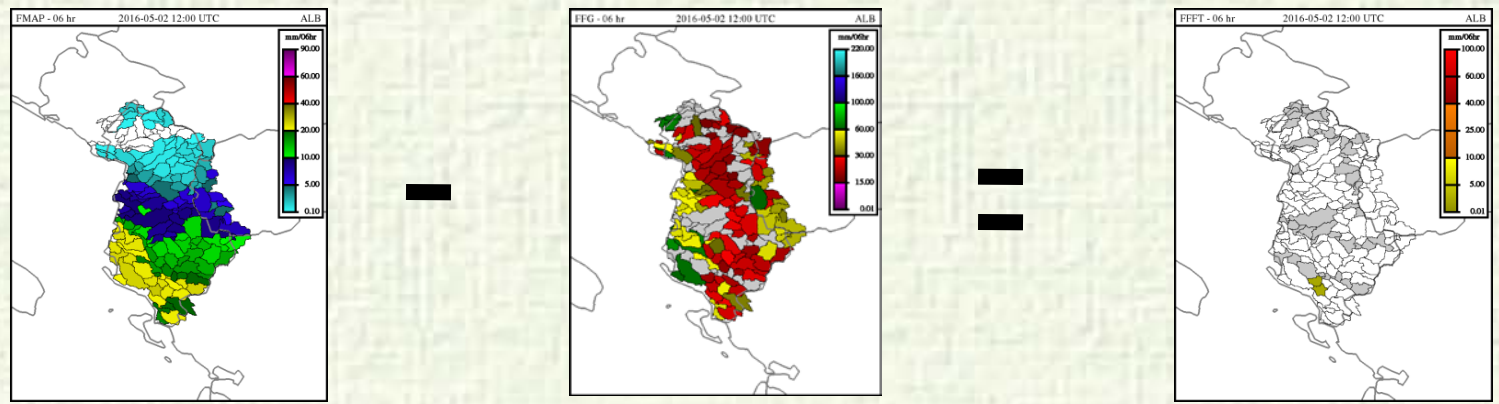
MEVCUT DURUM DEĞERLENDİRMESİ

EVALUATION OF THE CURRENT SITUATION



Albania received some precipitation in the last 24 hours from the gauge observation and satellite rainfall estimate maps. Accordingly, saturation of the soil moisture was increased while FFG threshold values were declined.

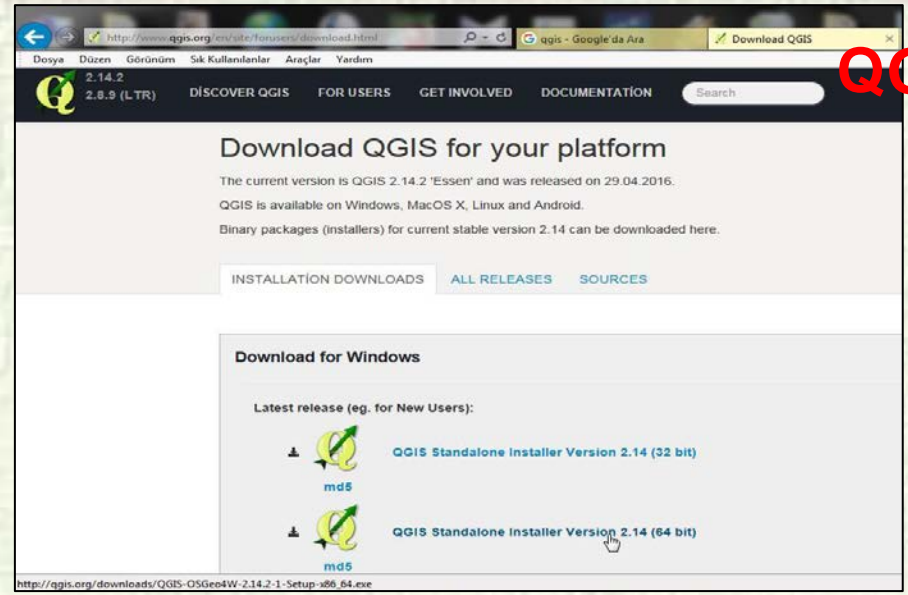
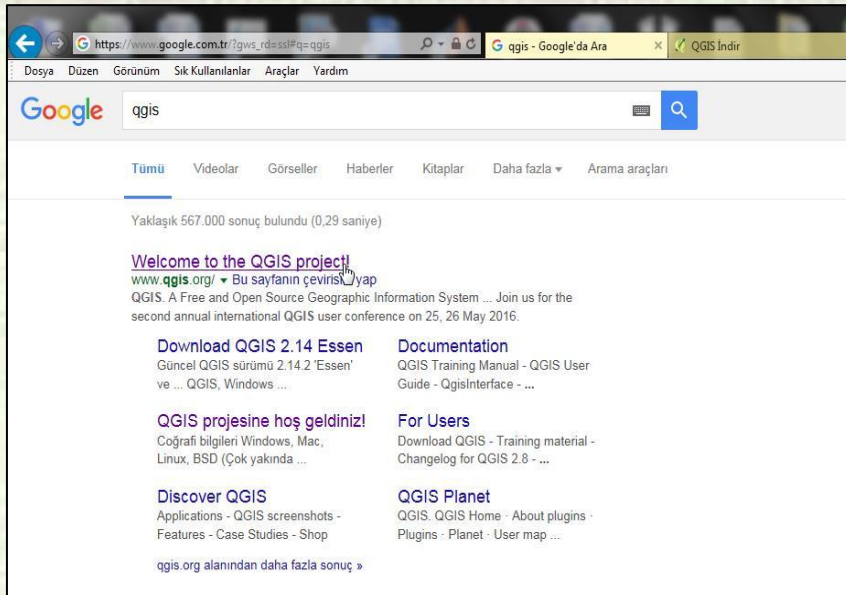
WARNING DECISION



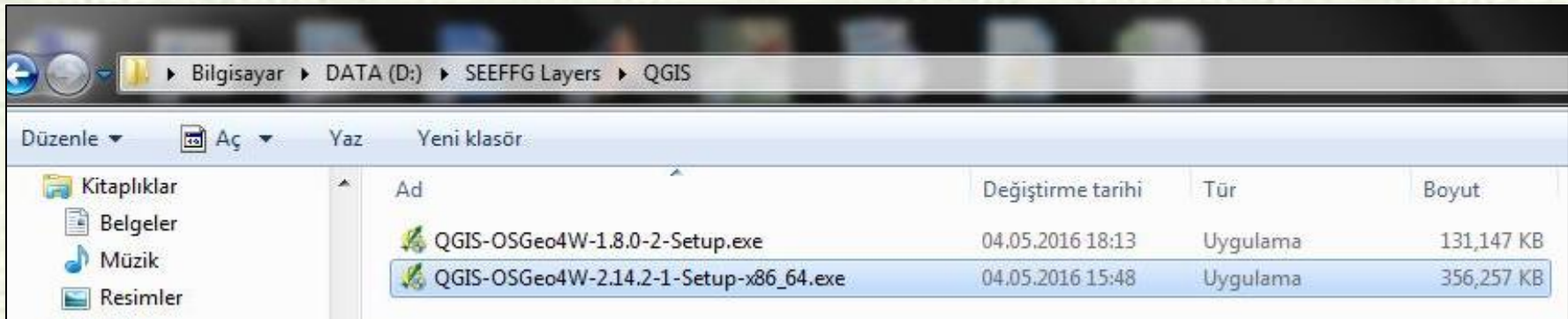
$$\text{FMAP} - \text{FFG} = \text{FFFT}$$

In the preparation phase of a flash Flood Early Warning Bulletin, One can consider looking at the values of FFFT product (Here, Forecast Flash Flood Threat is equal to FMAP minus FFG). If 1,3,6 hour FFFT maps results in colored sub-basin, it means flash Flood Hazard is highly expected within the next these hours.

DOWNLOADING AND INSTALLING QGIS



QGIS

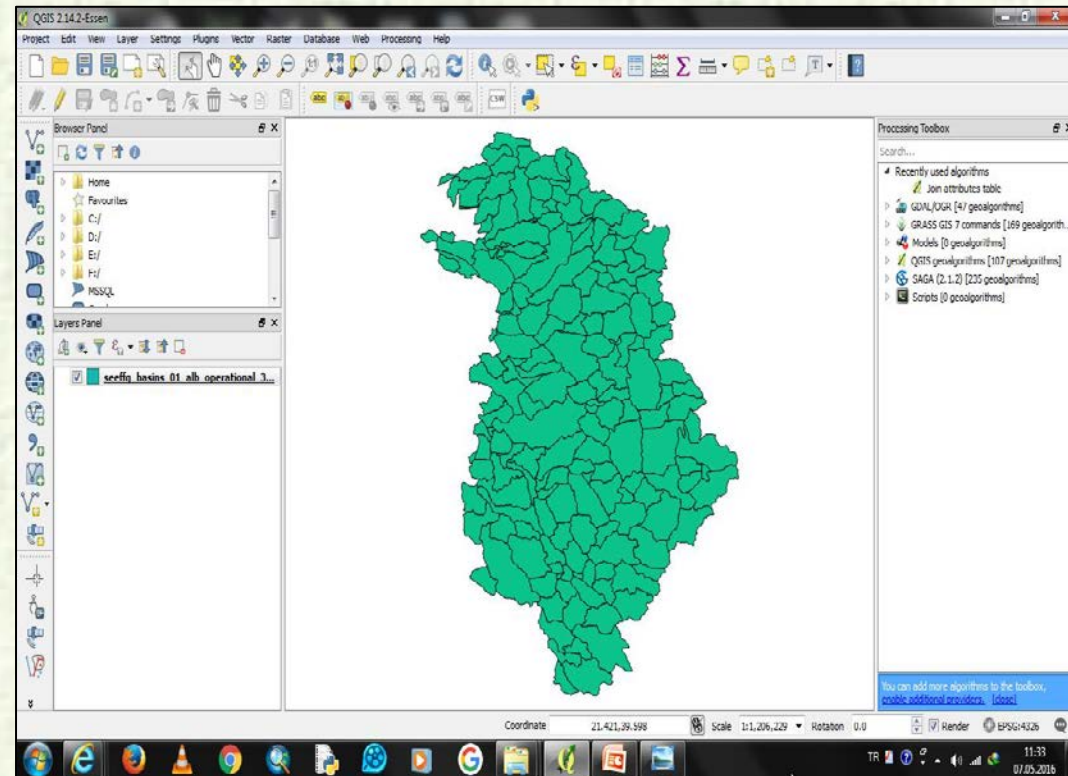


You can find [QGIS v.1.8.0-2](#) at the bottom of Static Resources tab. QGIS installation is quite simple. After QGIS-OSGeo4W-2.14.2-1-Setup-x86_64.exe file is downloaded, it is installed by double-clicking on the next-next.

DOWNLOAD BOUNDRIES OF SUB BASIN

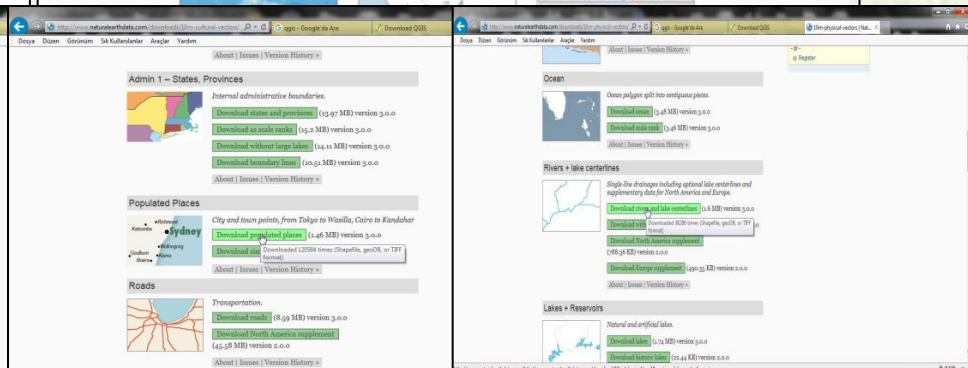
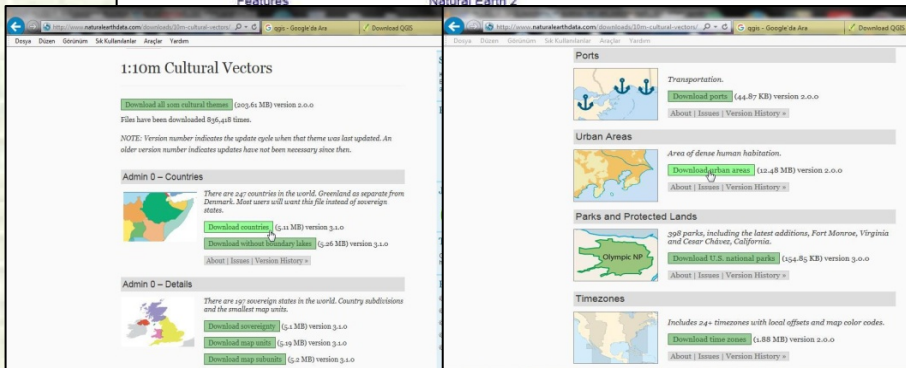
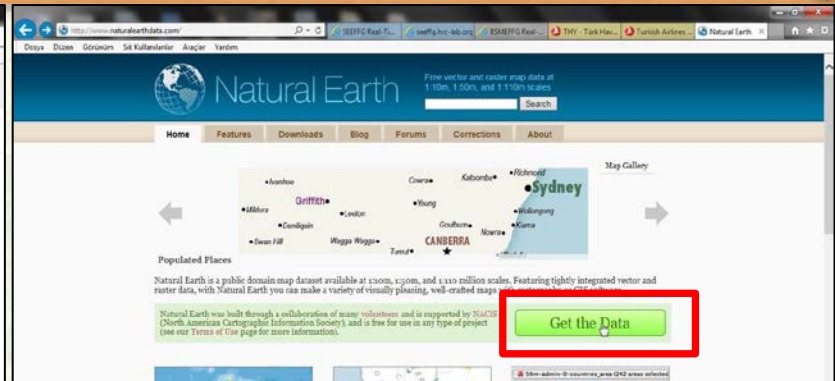
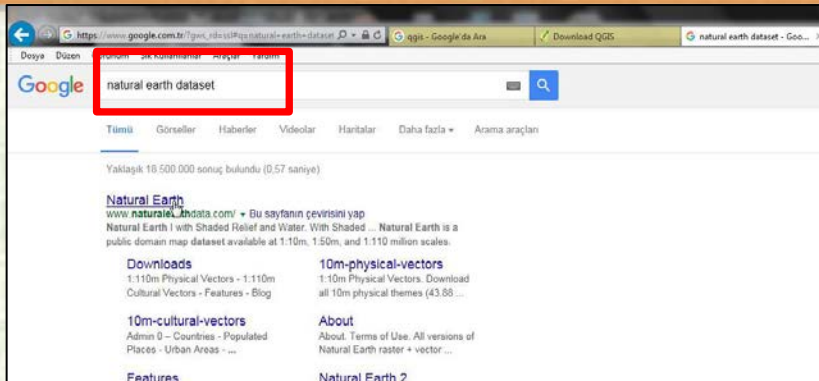
Static Resources and Reference Materials

| Category | Item | Resource Link | Description |
|-----------------|---|--|--|
| GIS Data Layers | SEEFFG Sub-Basin Shapefiles All Layers (8.0M) | SEEFFG All Shapefiles | A zipped archive (*.zip) of the component files for all shapefile layers from boundaries for all SEEFFG export regions. This is a single download file that includes *all* of the individual archives offered below. |
| GIS Data Layers | Southeast Europe Regional Sub-Basin Shapefiles (3.7M) | SEEFFG Southeast Europe Regional Shapefile | A zipped archive (*.zip) of the shapefile component files that provide basin boundaries for the Southeast Europe Regional export region. |
| GIS Data Layers | ALB Sub-Basin Shapefiles (160K) | SEEFFG ALB Shapefile | A zipped archive (*.zip) of the shapefile component files that provide basin boundaries for the ALB export region. |
| GIS Data Layers | BHI Sub-Basin Shapefiles (372K) | SEEFFG BHI Shapefile | A zipped archive (*.zip) of the shapefile component files that provide basin boundaries for the BHI export region. |
| GIS Data Layers | HRV Sub-Basin Shapefiles (458K) | SEEFFG HRV Shapefile | A zipped archive (*.zip) of the shapefile component files that provide basin boundaries for the HRV export region. |



All countries involved in the project have sub-basin boundaries in the shapefile format under the “Static Resources” tab of SEEFFG interface. These files can be opened by GIS programs after unzipping them.

DOWNLOAD FREE GIS LAYERS



Many vector datasets can be downloaded from www.naturalearthdata.com address for free. There are many layers such as country borders, city centers and borders, such as rivers and lakes.

DOWNLOAD FREE GIS LAYERS

Google search results for 'srtm'. The search results show a link to 'cgiar-csi/srtm' highlighted in a red box. The text below the link reads: 'srtm.csi.cgiar.org - Bu sayfanın çevirisini yap Bu sitenin robots.txt dosyası olduğundan, bu sonuç için açıklama bulunmamaktadır. Daha fazla bilgi edinin.'

Screenshot of the CGIAR-CSI SRTM 90m Digital Elevation Data website. The page shows the 'SRTM Data Selection Options' section with various filters and a world map. A red box highlights a specific region on the map. Below the map, there is a table with search results, including a red box around a thumbnail image of the selected region.

SRTM Data Selection Options

1. Select Server: CGIAR-CSI (USA) HarvestChoice (USA) JRC (IT) King's College (UK) TerraScience (USA)

2. Data selection method: Multiple Selection Enable Mouse Drag Input Coordinates

Many files can be selected at random locations. These selected files are listed in the results page for download.

3. Select File Format: GeoTIFF Arcinfo ASCII

Click here to Begin Search >>

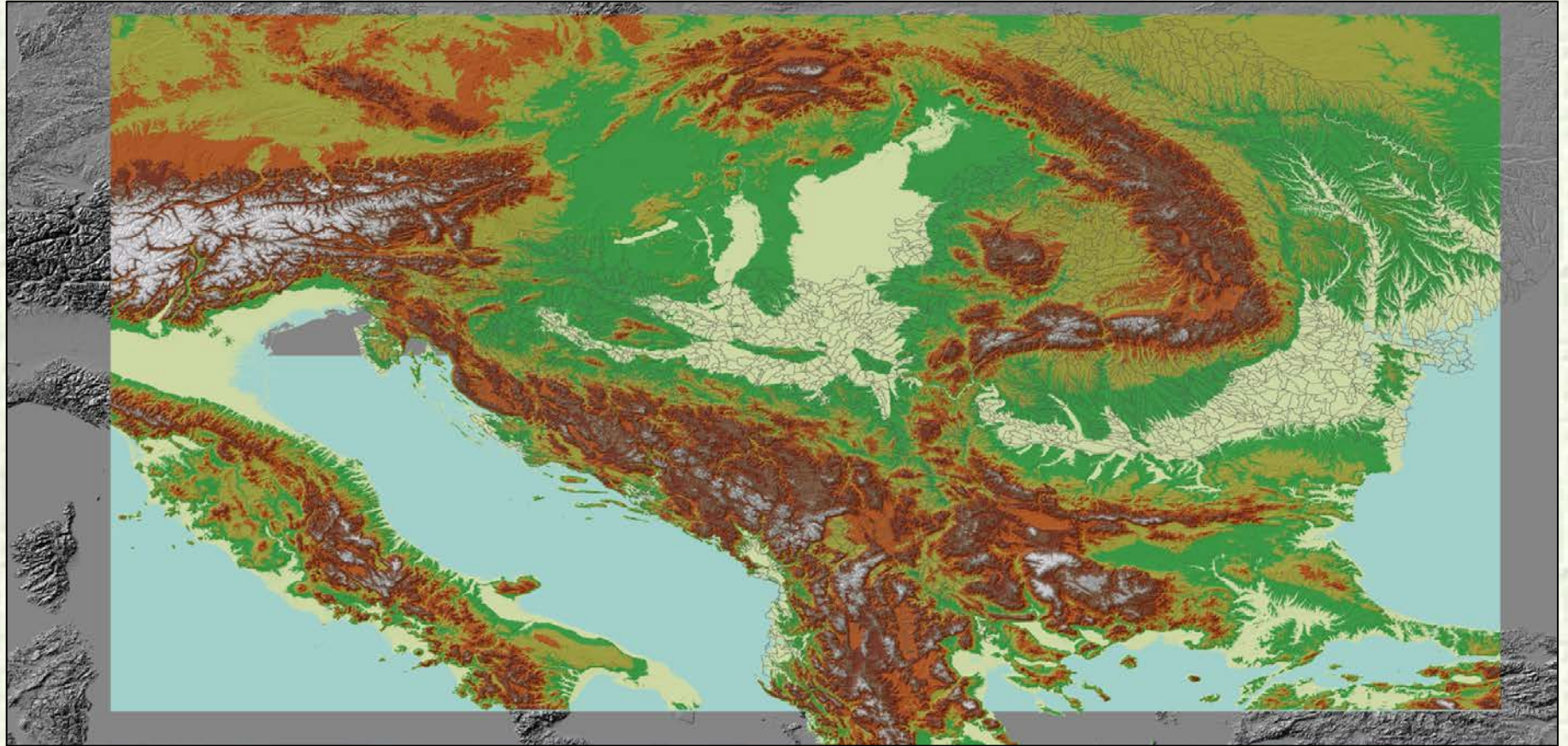
SRTM 90m Digital Elevation Data

UPDATE - VER SION 4: THE SRTM DATA NOW AVAILABLE FROM THIS SITE HAS BEEN UPGRADED TO VERSIO CONFIDENT THIS IS NOW THE HIGHEST QUALITY SRTM DATASET AVAILABLE

The CGIAR-CSI GeoPortal is able to provide SRTM 90m Digital Elevation Data for the entire world. The SRTM digital elevation areas of the developing world. The SRTM digital elevation data provided on this site has been processed to fill data voids, and to

| Description | Location |
|---|----------|
| Product : SRTM 90m DEM version 4 Data File Name : srtm_40_05.zip Mask File Name : srtm_mk_40_05.zip | |

DOWNLOAD FREE GIS LAYERS



90 meter Digital Elevation Model (source:<http://srtm.csi.cgiar.org/>) with hillshade

DOWNLOAD FREE GIS LAYERS

1

Google open street map

Tümü Haberler Görseller Haritalar Videolar Daha fazla Ara

Yaklaşık 141.000.000 sonuç bulundu (0,36 saniye)

OpenStreetMap
https://www.openstreetmap.org/ Bu sayfanın çevirisini yap

openstreetmap.org sitesinden sonuçlar

2--> Export

OpenStreetMap

OpenStreetMap verileri, Open Data Commons Open Database License (ODbL) altında lisanslanmıştır.

Bu elan OpenStreetMap XML verisi olarak verilerine kadar büyüktür. Lütfen yakınlaştır veya daha küçük bir elan seç ya da aşağıdaki veriler diğer kaynakları kullan.

Overpass API
Download this bounding box from a mirror of the OpenStreetMap database

OSM Gezegeni
Regularly-updated copies of the complete OpenStreetMap database

Geofabrik (kaynaklar)
Regularly-updated extracts of continents, countries, and selected cities.

Büyükşehir Çıktıları
Büyükşehir ile banliyölerin çıktıkları

3--> Geofabrik Downloads

4--> Choose Continent

OpenStreetMap Data Extracts

Welcome to Geofabrik's free download server. This server has data extracts from the OpenStreetMap database, updated every day. Select your continent and then your country of interest from the list below. If you are elsewhere and are not familiar with OpenStreetMap, we highly recommend that you read our OpenStreetMap download service is offered for free by Geofabrik GmbH.

Willkommen auf dem Geofabrik-Downloads-Server. Hier gibt es Daten-Auszüge aus dem OpenStreetMap-Datenbank, aktualisiert werden. Wählen Sie aus dem Verzeichnis unten den Kontinent und ggf. das Land anderswo auf dieser Seite gelandet sind und von OpenStreetMap nichts wissen, dann ist unser Download-Service für Sie angeboten wird. Diese Downloads werden von Geofabrik GmbH kostenlos angeboten.

Click on the region name to see the overview page for that region, or select one of the following sub-regions:

| Sub-Region | .osm.pbf | Quick Links | .osm.bz2 |
|-----------------------|------------|-------------|------------|
| Africa | [.osm.pbf] | [.shp.zip] | [.osm.bz2] |
| Antarctica | [.osm.pbf] | [.shp.zip] | [.osm.bz2] |
| Asia | [.osm.pbf] | [.shp.zip] | [.osm.bz2] |
| Australia and Oceania | [.osm.pbf] | [.shp.zip] | [.osm.bz2] |
| Central America | [.osm.pbf] | [.shp.zip] | [.osm.bz2] |
| Europe | [.osm.pbf] | [.shp.zip] | [.osm.bz2] |
| North America | [.osm.pbf] | [.shp.zip] | [.osm.bz2] |
| South America | [.osm.pbf] | [.shp.zip] | [.osm.bz2] |

5

Download OpenStreetMap data for this region:
Europe

Commonly Used Formats

- osm.pbf: suitable for Osmium, Osmosis, imposm, osm2pgsql, mkgmap, etc. It contains all OSM data up to 2016-05-09T19:44:03Z. File size: 17.0 GB; MD5 sum: 5189e9c04fe6327480eefac4d730b0a
- osm.bz2: suitable for Osmium, Osmosis, imposm, osm2pgsql, mkgmap, etc. It contains all OSM data up to 2016-05-09T19:44:03Z. File size: 17.0 GB; MD5 sum: 5189e9c04fe6327480eefac4d730b0a
- osm.gz: suitable for Osmium, Osmosis, imposm, osm2pgsql, mkgmap, etc. It contains all OSM data up to 2016-05-09T19:44:03Z. File size: 17.0 GB; MD5 sum: 5189e9c04fe6327480eefac4d730b0a

Other Formats and Auxiliary Files

- osm.bz2: yields OSM XML when decompressed; use for programs that can't handle .osm.pbf files.
- poly: file that describes the extent of this region.
- osm.gz: files that contain all changes in this region, suitable e.g. for Osmosis updates
- raw: directory index; allowing you to see and download older files

Sub Regions

Click on the region name to see the overview page for that region, or select one of the following sub-regions:

| Sub Region | .osm.pbf | Quick Links | .shp.zip | .osm.bz2 |
|------------|----------------------|-------------|------------|------------|
| Albania | [.osm.pbf] (16.9 MB) | [.shp.zip] | [.osm.bz2] | [.osm.bz2] |
| Andorra | [.osm.pbf] (1.3 MB) | [.shp.zip] | [.osm.bz2] | [.osm.bz2] |
| Austria | [.osm.pbf] (451 MB) | [.shp.zip] | [.osm.bz2] | [.osm.bz2] |
| Azores | [.osm.pbf] (4.3 MB) | [.shp.zip] | [.osm.bz2] | [.osm.bz2] |
| Belarus | [.osm.pbf] (136 MB) | [.shp.zip] | [.osm.bz2] | [.osm.bz2] |
| Belgium | [.osm.pbf] (248 MB) | [.shp.zip] | [.osm.bz2] | [.osm.bz2] |

6--> Download

Dosya indirme bilgisi

URL: http://download.geofabrik.de/europe/albania-latest.shp.zip

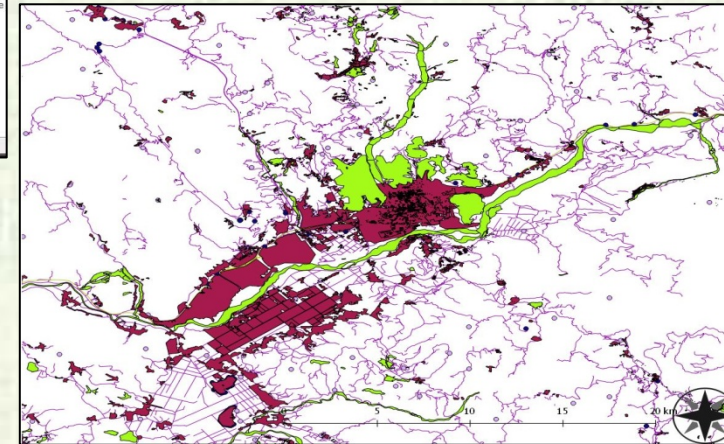
Kategori: Sıkıştırılmış

Farklı Kaydet: C:\Users\umut\Downloads\Compressed\albania-latest.shp.zip 28.55 MB

"Sıkıştırılmış" kategorisi için bu yolu habra

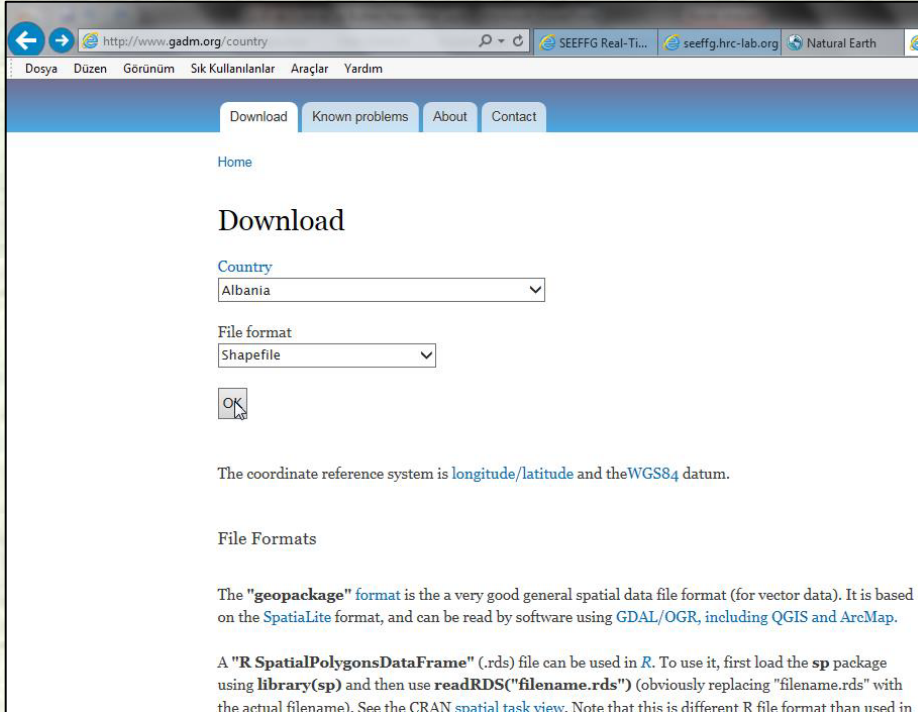
Açıklama

Daha sonra indir İndirmeyi Başlat İptal



This data contains buildings, landuse, natural, places, points, railways, roads and waterways.

DOWNLOAD FREE GIS LAYERS



http://www.gadm.org/country

Dosya Düzen Görünüm Sık Kullanılanlar Araçlar Yardım

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Country
Albania

File format
Shapefile

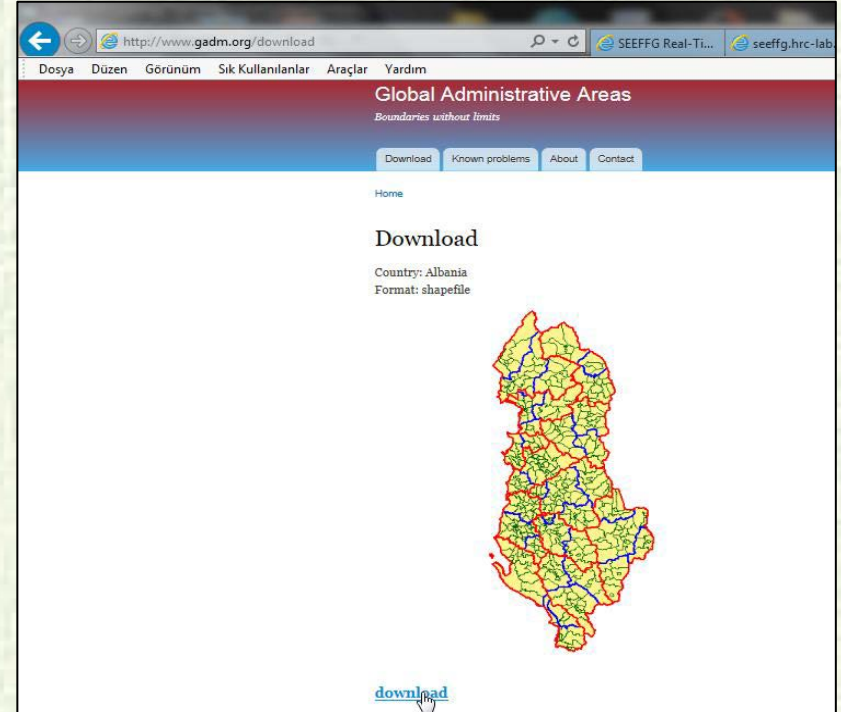
OK

The coordinate reference system is [longitude/latitude](#) and the [WGS84](#) datum.

File Formats

The "**geopackage**" format is the a very good general spatial data file format (for vector data). It is based on the [SpatialLite](#) format, and can be read by software using [GDAL/OGR](#), including [QGIS](#) and [ArcMap](#).

A "**R SpatialPolygonsDataFrame**" (.rds) file can be used in *R*. To use it, first load the **sp** package using **library(sp)** and then use **readRDS("filename.rds")** (obviously replacing "filename.rds" with the actual filename). See the CRAN [spatial task view](#). Note that this is different R file format than used in



http://www.gadm.org/download

Dosya Düzen Görünüm Sık Kullanılanlar Araçlar Yardım

Global Administrative Areas


Boundaries without limits

Download Known problems About Contact

Home

Download









Country: Albania
Format: shapefile




[download](#)

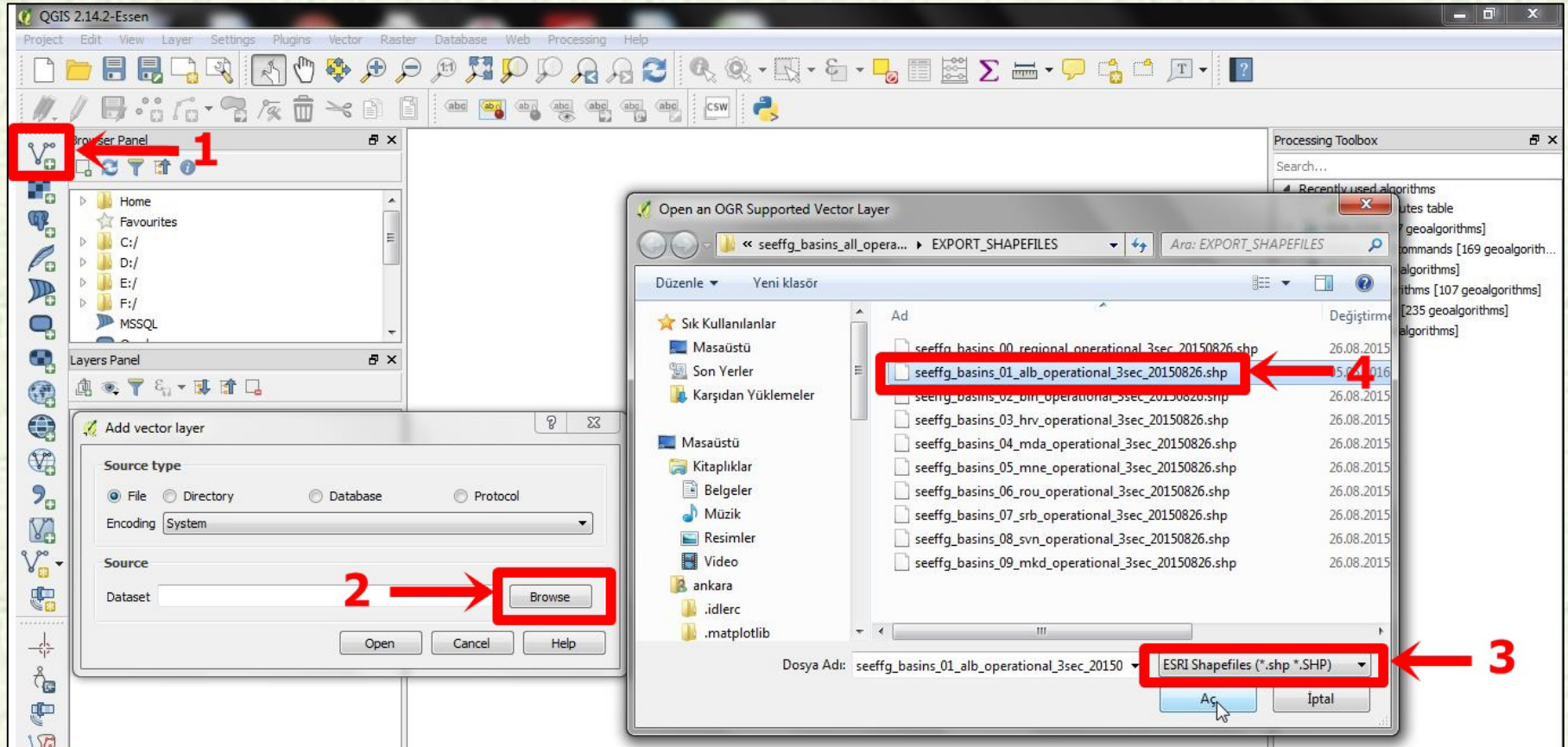
you can download from Global Administrative Areas (www.gadm.org) web address to see the country, provincial, district and town limits in shapefile format.

BEGINNING WORK WITH QGIS

| Ad | Değiştirme tarihi | Tür | Boyut |
|--|-------------------|---------|-------|
|  GRASS GIS 7.0.3 | 04.05.2016 20:23 | Kısayol | 2 KB |
|  OSGeo4W Shell | 04.05.2016 20:26 | Kısayol | 2 KB |
|  QGIS Browser 2.14.2 with GRASS 7.0.3 | 04.05.2016 20:26 | Kısayol | 3 KB |
|  QGIS Browser 2.14.2 | 04.05.2016 20:26 | Kısayol | 3 KB |
|  QGIS Desktop 2.14.2 with GRASS 7.0.3 | 04.05.2016 20:26 | Kısayol | 3 KB |
|  QGIS Desktop 2.14.2 | 04.05.2016 20:26 | Kısayol | 3 KB |
|  Qt Designer with QGIS 2.14.2 | 04.05.2016 20:26 | Kısayol | 3 KB |
|  SAGA GIS (2.1.2) | | | |



ADD VECTOR DATA ON THE QGIS



1

2

3

4

Processing Toolbox

Recently used algorithms

| Ad | Değiştirme |
|---|------------|
| seeffg_basins_00_regional_operational_3sec_20150826.shp | 26.08.2015 |
| seeffg_basins_01_alb_operational_3sec_20150826.shp | 5.7.2016 |
| seeffg_basins_02_bir_operational_3sec_20150826.shp | 26.08.2015 |
| seeffg_basins_03_hrv_operational_3sec_20150826.shp | 26.08.2015 |
| seeffg_basins_04_mda_operational_3sec_20150826.shp | 26.08.2015 |
| seeffg_basins_05_mne_operational_3sec_20150826.shp | 26.08.2015 |
| seeffg_basins_06_rou_operational_3sec_20150826.shp | 26.08.2015 |
| seeffg_basins_07_srb_operational_3sec_20150826.shp | 26.08.2015 |
| seeffg_basins_08_svn_operational_3sec_20150826.shp | 26.08.2015 |
| seeffg_basins_09_mkd_operational_3sec_20150826.shp | 26.08.2015 |

Dosya Adı: seeffg_basins_01_alb_operational_3sec_20150

ESRI Shapefiles (*.shp *.SHP)

Ac İptal

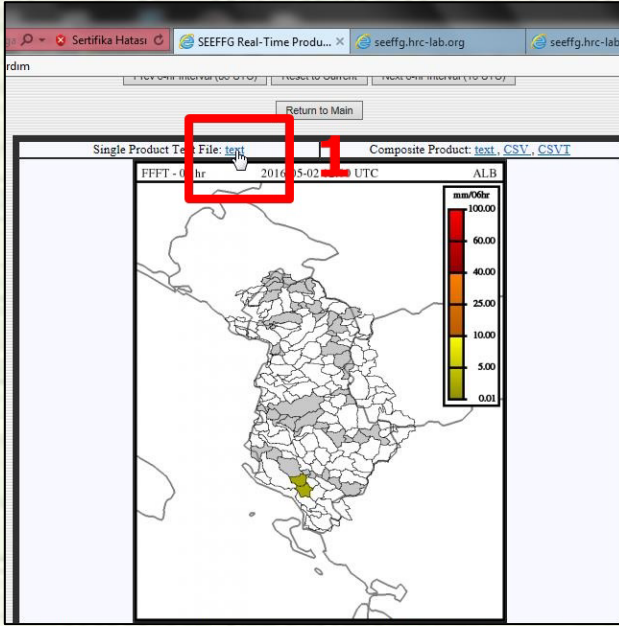
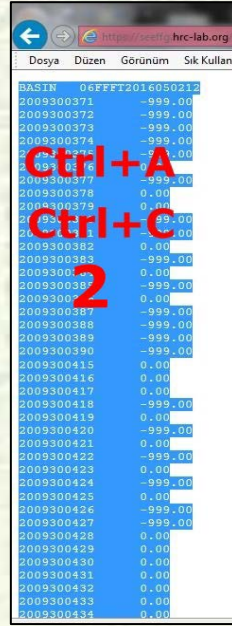
PRODUCT TABLE

Images of existing products in the modem interface, updated times and data types are summarized in the table below.

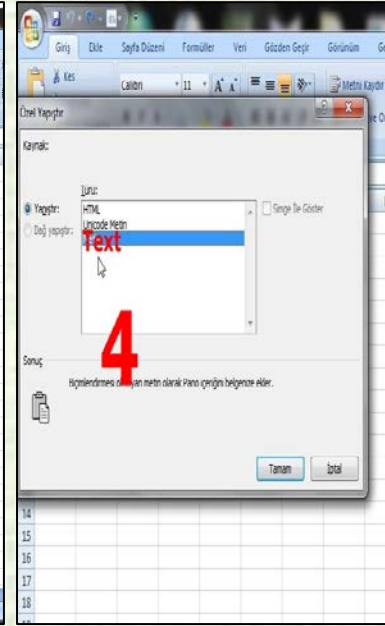
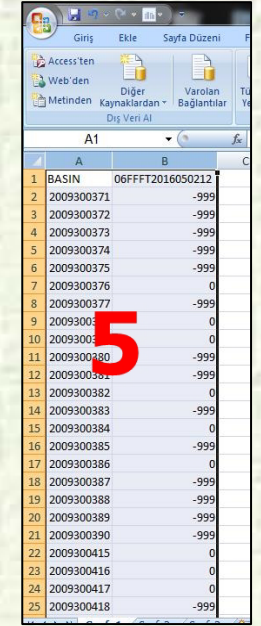
| Product's Name | 01 hr | 03 hr | 6 hr | 24 hr | 4 hr | Numerical Data |
|---------------------|-------|-------|------|-------|------|----------------|
| RADAR Precipitation | | | | | | |
| MWGHE Precipitation | + | + | + | + | | + |
| GHE Precipitation | + | + | + | + | | + |
| Gauge MAP | | | + | + | | + |
| Merged MAP | + | + | + | + | | + |
| ASM | | | + | | | + |
| FFG | + | + | + | | | + |
| IFFT | + | + | + | | | + |
| PFFT | + | + | + | | | + |
| ALADIN Forecast | + | + | + | + | | |
| FMAP | + | + | + | + | | + |
| FFFT | + | + | + | | | + |
| Gauge MAT | | | + | | | + |
| Latest IMS SCA | | | | + | | + |
| SWE | | | + | | | + |
| Melt | | | | + | + | + |

SEEFFGS VERİLERİNİ EXCELE AKTARMAK

SEEFFGS's TRANSFER DATA TO EXCEL

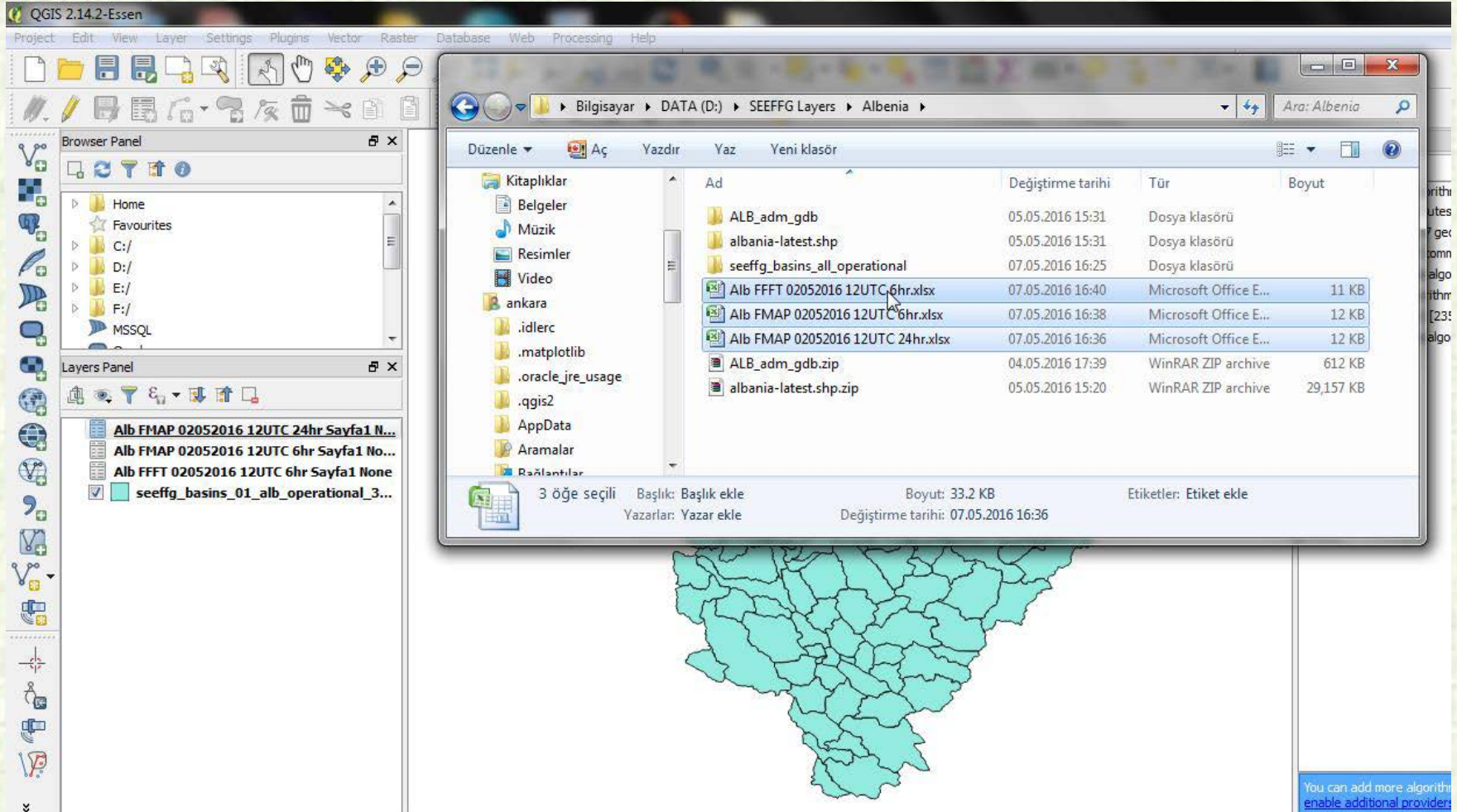
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| 2009300377 | -999.00 | |
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| 2009300379 | -999.00 | |
| 2009300380 | 0.00 | |
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| 2009300385 | -999.00 | |
| 2009300386 | 0.00 | |
| 2009300387 | -999.00 | |
| 2009300388 | 0.00 | |
| 2009300389 | -999.00 | |
| 2009300390 | -999.00 | |
| 2009300415 | 0.00 | |
| 2009300416 | 0.00 | |
| 2009300422 | -999.00 | |
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| 2009300419 | 0.00 | |
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| 2009300424 | -999.00 | |
| 2009300425 | 0.00 | |
| 2009300426 | -999.00 | |
| 2009300427 | -999.00 | |
| 2009300428 | 0.00 | |
| 2009300429 | 0.00 | |
| 2009300430 | 0.00 | |
| 2009300431 | 0.00 | |
| 2009300432 | 0.00 | |
| 2009300433 | 0.00 | |
| 2009300434 | 0.00 | |

| | A | B |
|----|-------|------------------|
| 1 | BASIN | 06FFFT2016050212 |
| 2 | | -999 |
| 3 | | -999 |
| 4 | | -999 |
| 5 | | -999 |
| 6 | | -999 |
| 7 | | 0 |
| 8 | | -999 |
| 9 | | 0 |
| 10 | | 0 |
| 11 | | -999 |
| 12 | | -999 |
| 13 | | -999 |
| 14 | | -999 |
| 15 | | -999 |
| 16 | | -999 |
| 17 | | 0 |
| 18 | | -999 |
| 19 | | -999 |
| 20 | | -999 |
| 21 | | -999 |
| 22 | | -999 |
| 23 | | 0 |
| 24 | | 0 |
| 25 | | -999 |

To transfer the data of SEEFFGS products into the excel file ;

1. Click on product blue txt
2. On the following page, copy data by pressing Ctrl +A and Ctrl +C
3. Right-click on the excel file to copy data with special paste,
- 4- select Text to paste it.
5. At the end of this process, we have two columns of data (BASIN, data)



QGIS 2.14.2-Essen

Project Edit View Layer Settings Plugins Vector Raster Database Web Processing Help

Bilgisayar > DATA (D:) > SEEFFG Layers > Albania

Ara: Albania

| Ad | Değiştirme tarihi | Tür | Boyut |
|-----------------------------------|-------------------|-----------------------|-----------|
| ALB_adm_gdb | 05.05.2016 15:31 | Dosya klasörü | |
| albania-latest.shp | 05.05.2016 15:31 | Dosya klasörü | |
| seeffg_basins_all_operational | 07.05.2016 16:25 | Dosya klasörü | |
| Alb FFFT 02052016 12UTC 6hr.xlsx | 07.05.2016 16:40 | Microsoft Office E... | 11 KB |
| Alb FMAP 02052016 12UTC 6hr.xlsx | 07.05.2016 16:38 | Microsoft Office E... | 12 KB |
| Alb FMAP 02052016 12UTC 24hr.xlsx | 07.05.2016 16:36 | Microsoft Office E... | 12 KB |
| ALB_adm_gdb.zip | 04.05.2016 17:39 | WinRAR ZIP archive | 612 KB |
| albania-latest.shp.zip | 05.05.2016 15:20 | WinRAR ZIP archive | 29,157 KB |

3 öğe seçili Başlık: Başlık ekle Boyut: 33.2 KB Etiketler: Etiket ekle
Yazarlar: Yazar ekle Değiştirme tarihi: 07.05.2016 16:36

You can add more algorithms from the processing provider you have installed. You can also enable additional providers.

Select some Excel files then, hold and drag over QGIS interface.

HOW TO JOIN EXCEL DATA TO A SHAPEFILE ?

Layer Properties - seeffg_basins_01_alb_operational_3sec_20150826 | Joins

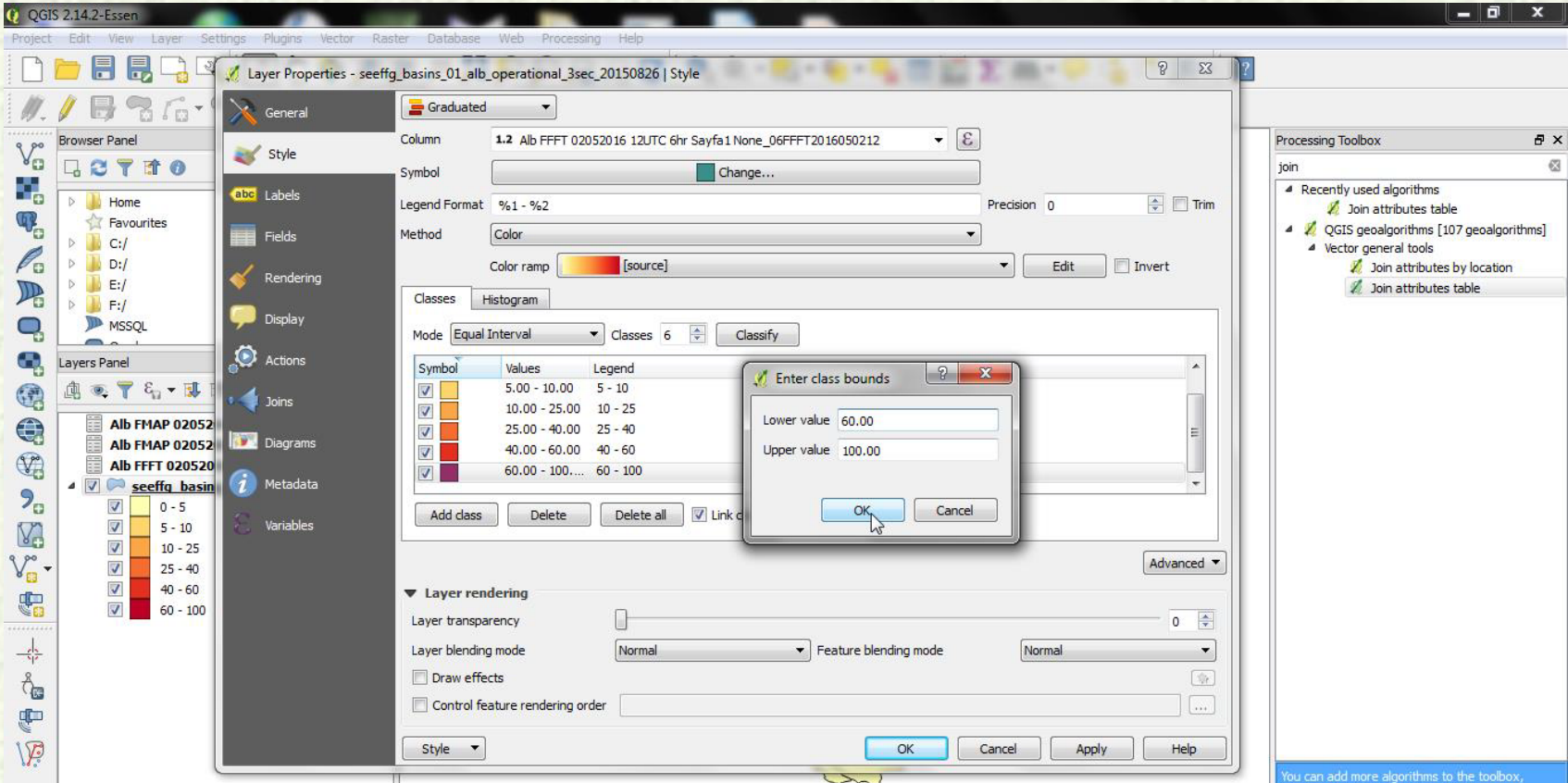
| Join layer | Join field | Target field | Memory cache | Prefix | Joined fields |
|--|------------|--------------|-------------------------------------|--------|---------------|
| Alb FFFT 02052016 12UTC 6hr Sayfa1 None | BASIN | value | <input checked="" type="checkbox"/> | | 1 |
| Alb FMAP 02052016 12UTC 24hr Sayfa1 None | BASIN | value | <input checked="" type="checkbox"/> | | 1 |

Add vector join dialog:

- Join layer: 4 Alb FMAP 02052016 12UTC 6hr Sayfa1 None
- Join field: 5 123 BASIN
- Target field: 6 123 value
- Cache join layer in virtual memory
- Create attribute index on join field
- Choose which fields are joined
- Fields to join:
 - BASIN
 - 06FMAP2016050212
- Custom field name prefix:
- OK button: 8

In the Add vector join dialog, select the Join layer. Next we have to select the field with unique ids in both the shapefile and the csv or excell. Select the Join field and Target field respectively. Click OK

HOW TO SET STYLE ?

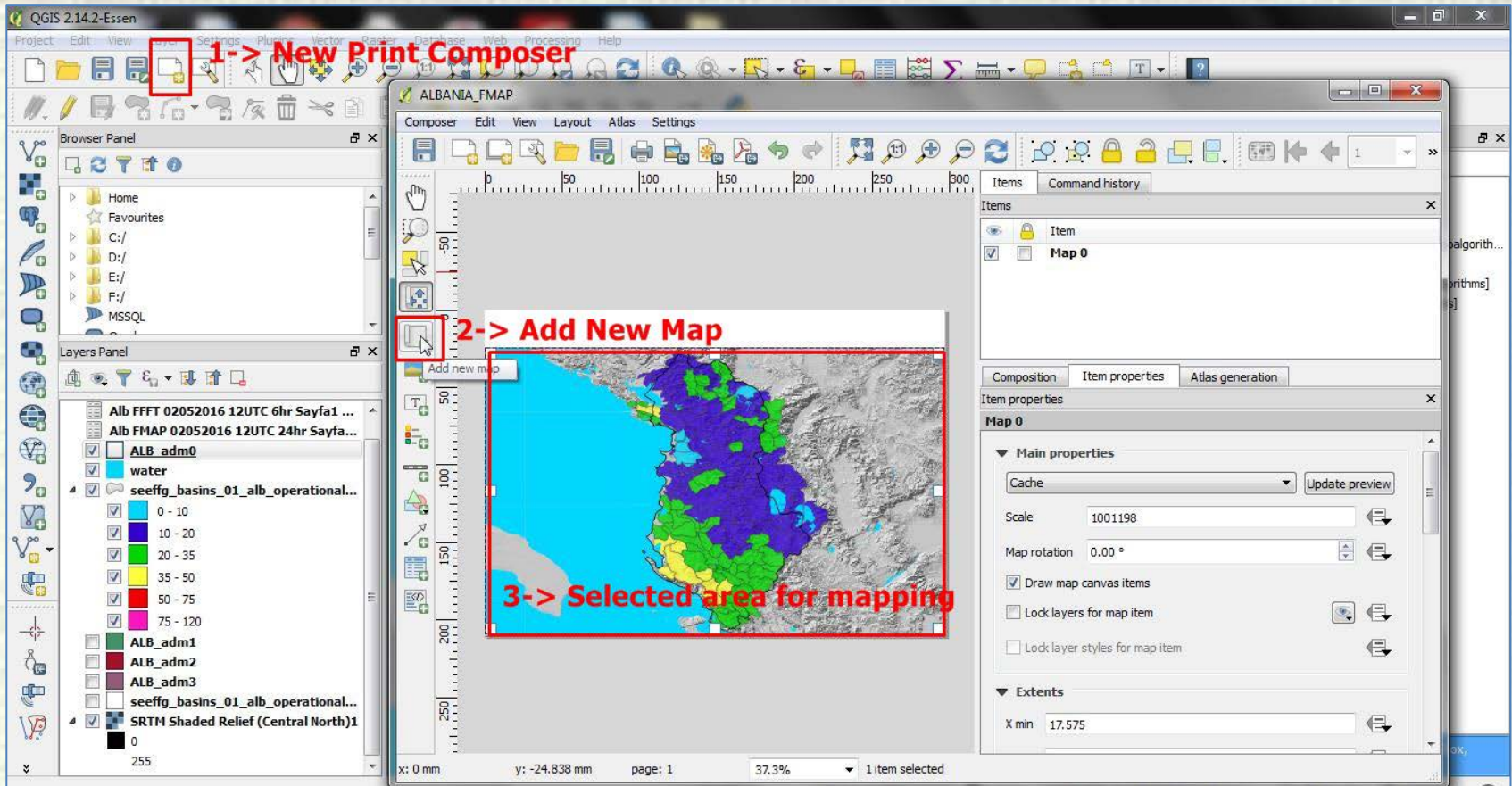


The screenshot shows the QGIS 2.14.2-Essen interface. The 'Layer Properties' dialog for the layer 'seeffg_basins_01_alb_operational_3sec_20150826' is open, with the 'Style' tab selected. The 'Graduated' classification method is chosen. The 'Column' is set to '1.2 Alb FFFT 02052016 12UTC 6hr Sayfa1 None_06FFFT2016050212'. The 'Legend Format' is '%1 - %2' and the 'Method' is 'Color'. A color ramp is visible. The 'Classes' section shows a 'Histogram' mode with 'Equal Interval' classification and 6 classes. An 'Enter class bounds' dialog is open, showing 'Lower value' as 60.00 and 'Upper value' as 100.00. The background map shows a color scale legend for 'seeffg_basin' with values from 0-5 to 60-100.

| Symbol | Values | Legend |
|-------------------------------------|----------------|----------|
| <input checked="" type="checkbox"/> | 5.00 - 10.00 | 5 - 10 |
| <input checked="" type="checkbox"/> | 10.00 - 25.00 | 10 - 25 |
| <input checked="" type="checkbox"/> | 25.00 - 40.00 | 25 - 40 |
| <input checked="" type="checkbox"/> | 40.00 - 60.00 | 40 - 60 |
| <input checked="" type="checkbox"/> | 60.00 - 100.00 | 60 - 100 |

In QGIS, double click on the layer you are dealing with. Then go to the Style menu. In the Style menu, set your classification to “Graduated”. After you can set class bounds and colours.

EDITING THE MAP OUT



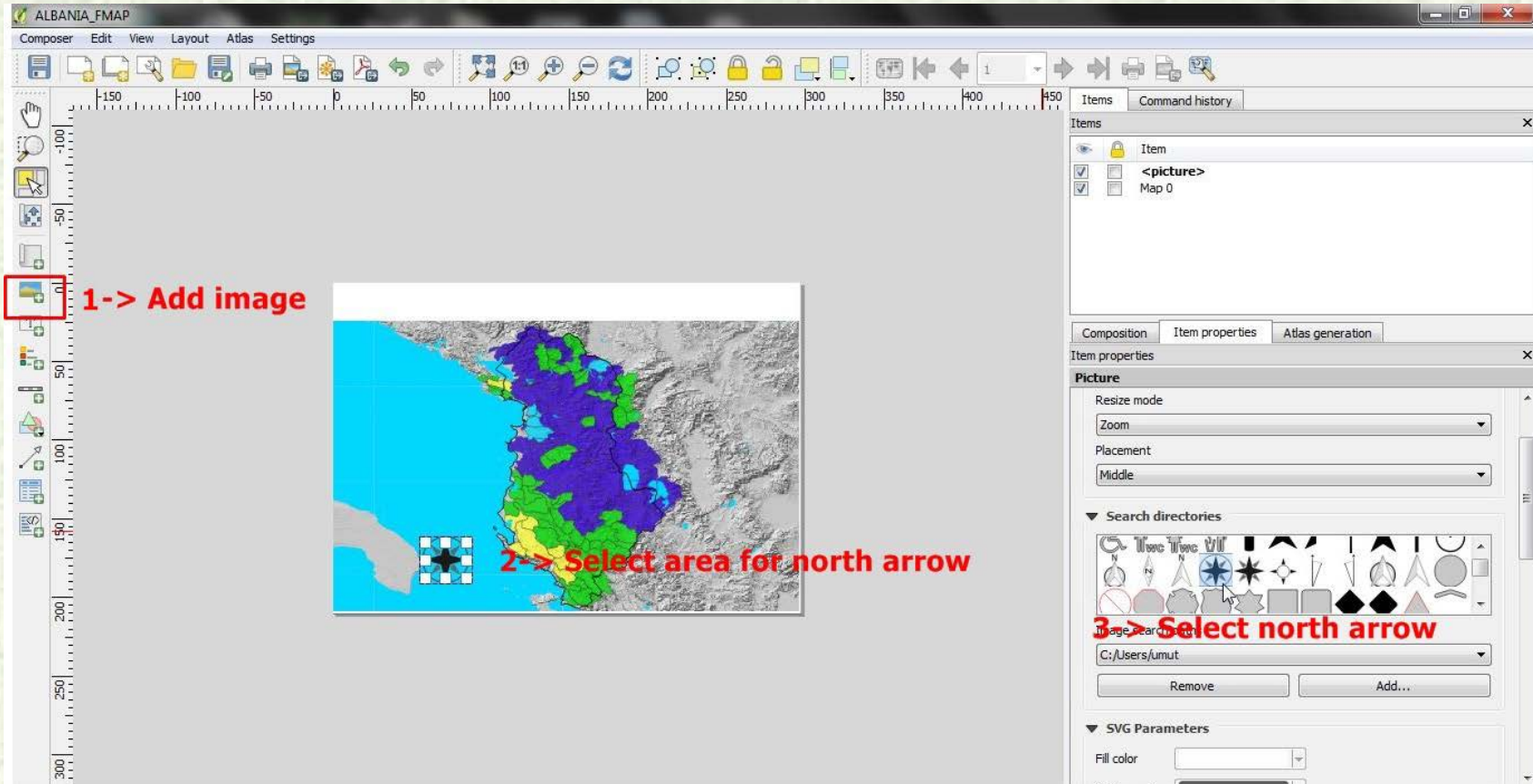
1 -> New Print Composer

2 -> Add New Map

3 -> Selected area for mapping

The screenshot displays the QGIS 2.14.2-Essen interface. The main window is titled 'ALBANIA_FMAP' and shows a map of Albania with a red box highlighting a specific area. The interface includes a menu bar, a toolbar, a Browser Panel, a Layers Panel, and a Composer window. The Composer window shows a map of Albania with a red box highlighting a specific area. Red annotations with arrows point to the 'Print' menu item, the 'Add new map' button, and the highlighted area on the map.

EDITING THE MAP OUT



The screenshot shows the ALBANIA_FMAP software interface. The main window displays a map of Albania with a grid overlay. The interface includes a menu bar (Composer, Edit, View, Layout, Atlas, Settings), a toolbar with various editing tools, and a vertical ruler on the left. A red box highlights the 'Add image' icon in the toolbar, with the text '1 -> Add image' next to it. A red arrow points to a specific area on the map, with the text '2 -> Select area for north arrow' next to it. A red arrow points to a north arrow icon in the 'Search directories' section of the 'Item properties' panel, with the text '3 -> Select north arrow' next to it.

ALBANIA_FMAP

Composer Edit View Layout Atlas Settings

Items Command history

Item properties

Picture

Resize mode: Zoom

Placement: Middle

Search directories

Image search: C:/Users/umut

Remove Add...

SVG Parameters

Fill color

1 -> Add image

2 -> Select area for north arrow

3 -> Select north arrow

EDITING THE MAP OUT

The screenshot shows the ALBANIA_FMAP software interface. The main map area displays a topographic map of Albania with a hydrological basin overlay. The legend is titled "seeffg_basins_01_alb_operational_3sec_20150826" and lists six categories with corresponding colors: 0-10 (light blue), 10-20 (dark blue), 20-35 (green), 35-50 (yellow), 50-75 (red), and 75-120 (magenta). A scale bar and a compass rose are also visible on the map.

Two red annotations are present on the map:

- 1-> Add new legend**: Points to the legend icon in the software's toolbar.
- 2-> Select area for legend**: Points to a specific area on the map where the legend is being edited.

The software interface includes a menu bar (Composer, Edit, View, Layout, Atlas, Settings), a toolbar with various editing tools, and several panels on the right side:

- Items**: A list of map items including Legend, scale bar, Hydrometeorology Department, picture, and Map 0.
- Item properties**: A panel for editing the properties of the selected item.
- Legend**: A panel for editing the legend items, including an "Auto update" checkbox and an "Update all" button.

EDITING THE MAP OUT

The screenshot displays the ALBANIA_FMAP application window. The main map area shows a forecast of mean areal precipitation for Albania on 02.05.2016 at 12:00 UTC +24 hr. The map is color-coded by precipitation intensity, with a legend in the bottom-left corner. A scale bar and a north arrow are also present on the map.

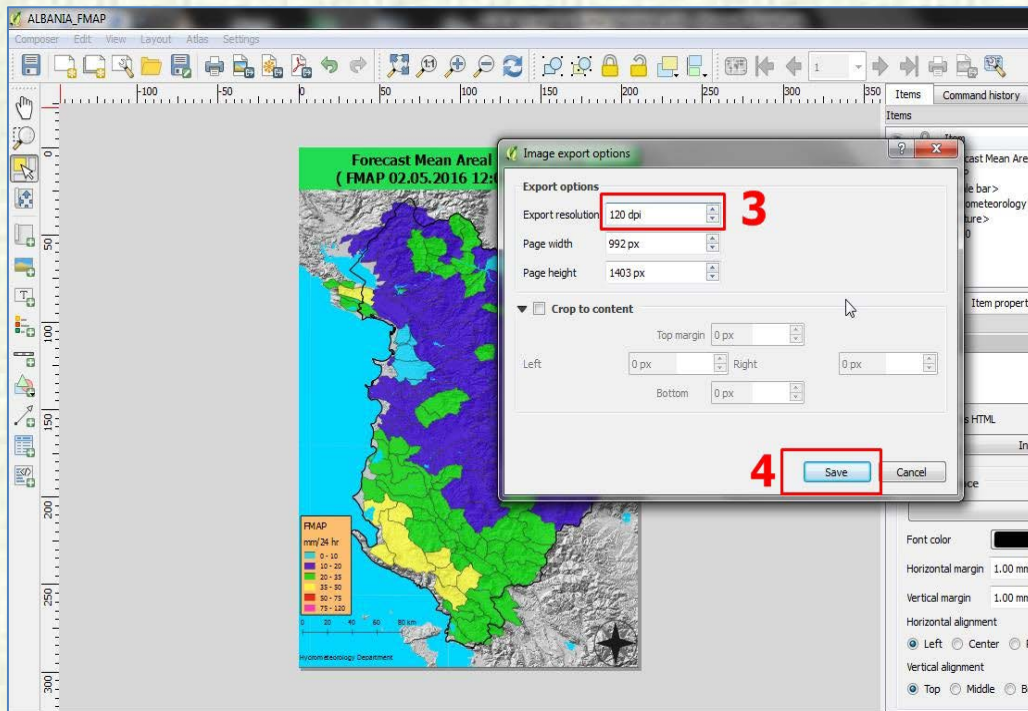
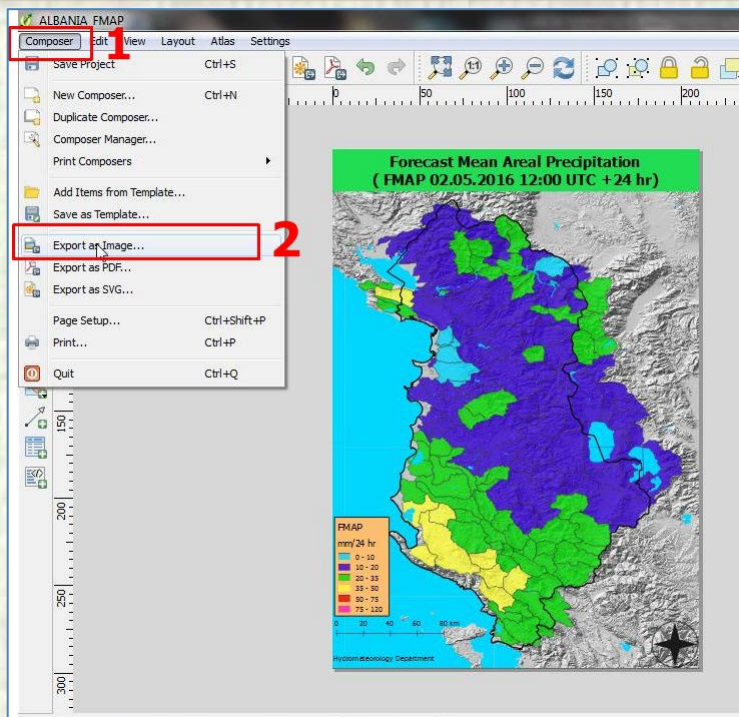
Annotations on the map include:

- Forecast Mean Areal Precipitation (FMAP 02.05.2016 12:00 UTC +24 hr) --> Label**: A red box highlights the title text at the top of the map.
- > Add new label**: A red box highlights the 'Add new label' icon in the left toolbar.
- > Add new scalebar**: A red box highlights the 'Add new scalebar' icon in the left toolbar.
- > Scalebar**: A red box highlights the scale bar at the bottom of the map.
- > Label**: A red box highlights the 'Hydrometeorology Department' text at the bottom of the map.

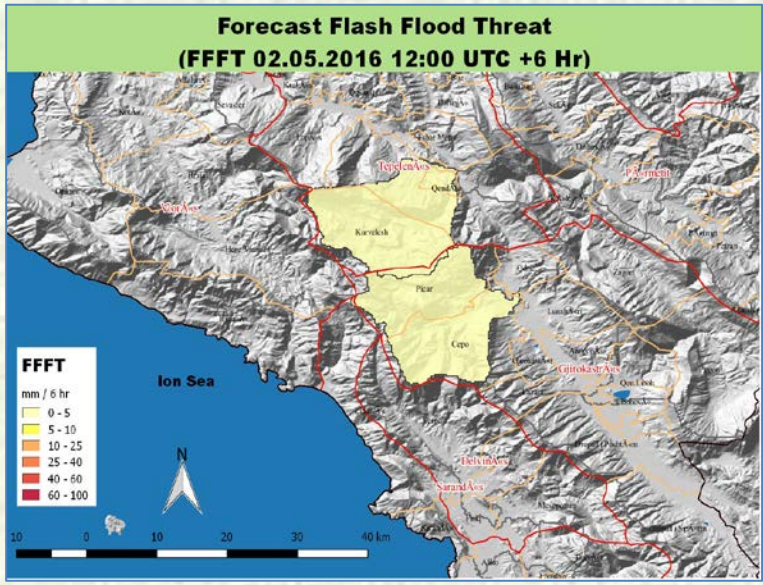
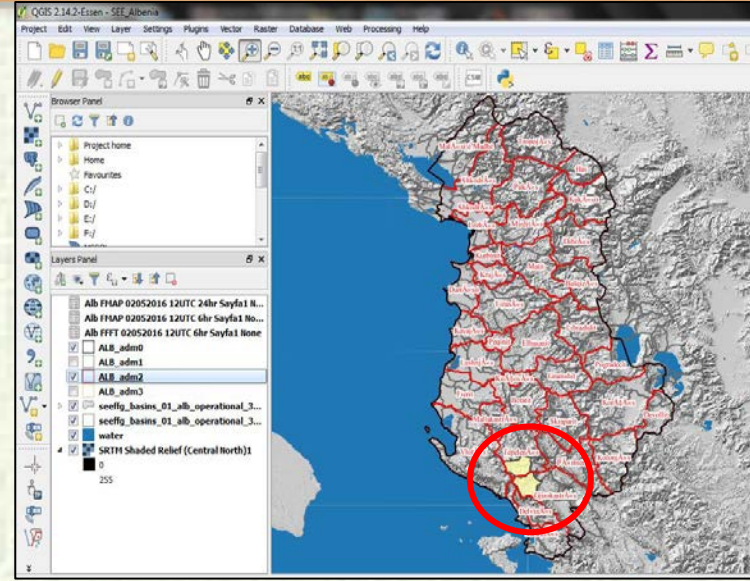
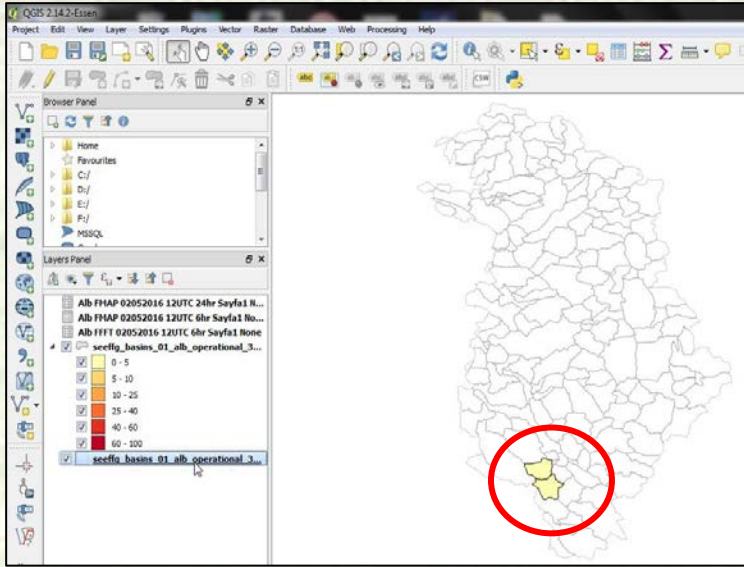
The software interface includes a menu bar (Composer, Edit, View, Layout, Atlas, Settings), a toolbar with various editing tools, and two panels on the right:

- Items**: A list of map items including 'Forecast Mean Areal Preci...', 'FMAP', '<scale bar>', 'Hydrometeorology Departme...', '<picture>', and 'Map 0'.
- Item properties**: A panel for 'Map 0' with 'Main properties' (Cache, Scale: 1001198, Map rotation: 0.00°) and 'Extents' (X min: 17.575, Y min: 39.620, X max: 22.492).

EXPORT THE MAP

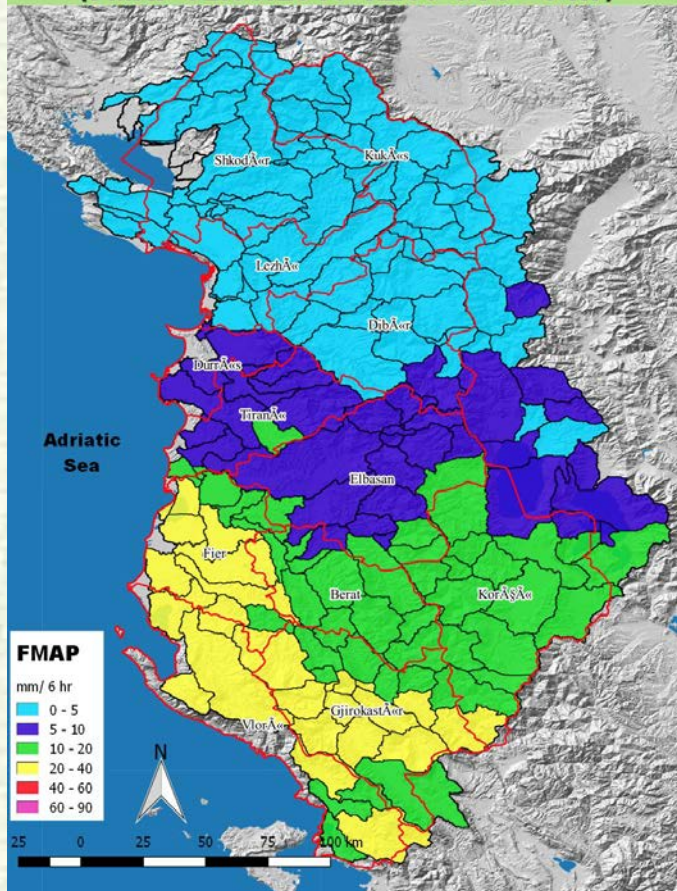


ZOOM TO THREAT AREA

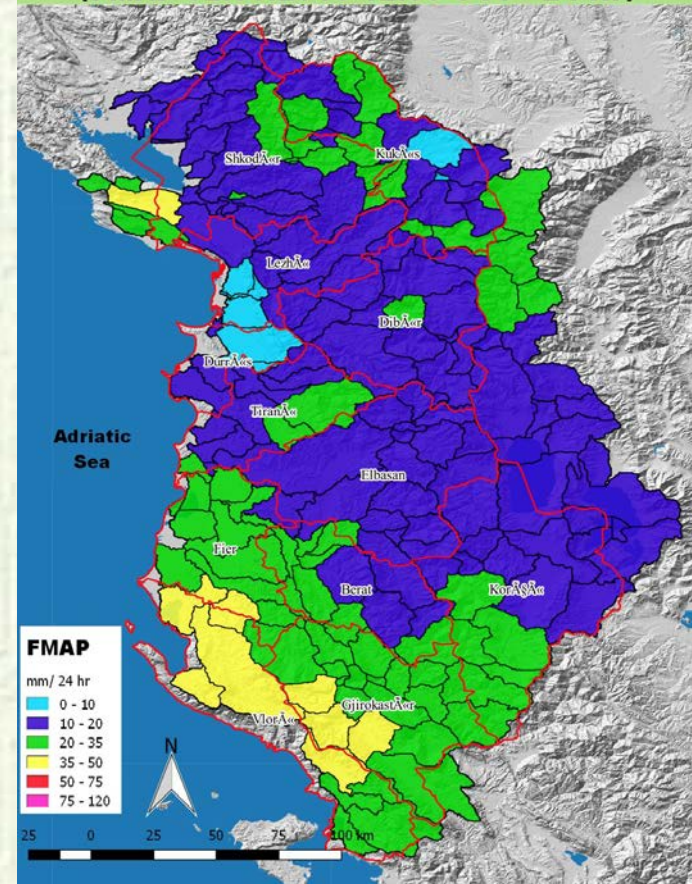


OTHER MAPS

**Forecast Mean Areal Precipitation
(FMAP 02.05.2016 12:00 UTC +6 Hr)**



**Forecast Mean Areal Precipitation
(FMAP 02.05.2016 12:00 UTC +24 Hr)**



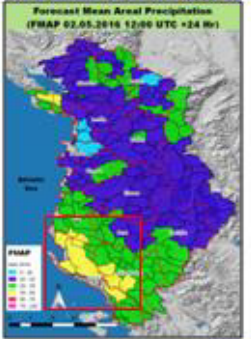
FLASH FLOOD GUIDANCE BULLETIN

T.C.
ORMAN VE SU İŞLERİ BAKANLIĞI
METEOROLOJİ GENEL MÜDÜRLÜĞÜ

FLASH FLOOD GUIDANCE BULLETIN
02 MAY 2016
(17:00 UTC)


ANI TAŞKIN ERKEN UYARI MODELİ 24 SAATLİK ORTALAMA ALANSAL YAĞIŞ TAHMİNİ HARİTASI (13.01.2016 06:00 UTC - 24 SAAT)

**Forecast Mean Area Precipitation
(FMAP 02.05.2016 12:00 UTC +24 hr)**




ANI Taşkın Erken Uyarı Modelinin alansal yağış verilerine göre Söğüt'deki 24 saat içinde Manisa, Kütahya, Edirne ve Etilik ilçelerinde devam eden ve beklenen yağışların yer yer çok şiddetli olması beklendiğinden bu bölgelerin dikkate alınması gerekmektedir.

**Forecast Flash Flood Threat
(FFF 02.05.2016 12:00 UTC +6 hr)**



ANI Taşkın Erken Uyarı Modeliyle yapılan ANI TAŞKIN tahminlerine göre Söğüt'deki 6 saat içinde Manisa ilinin Gördes, Selendi, Demirci ilçeleri, Kütahya ilinin Tavşanlı, Simav ilçeleri, Edirne'nin Uşak, Şarbağlı ve Mihaliçcik ilçelerinde devam eden ve beklenen çok şiddetli yağışlardan dolayı bu bölgelerdeki sızma ve derelerdeki ANI Taşkın beklendiğinden bu bölgelerin dikkate alınması gerekmektedir.

**Forecast Mean Area Precipitation
(FMAP 02.05.2016 12:00 UTC +24 hr)**



ANI Taşkın Erken Uyarı Modelinin alansal yağış verilerine göre Söğüt'deki 24 saat içinde Kütahya ilinin Demirci ilçelerinde yer yer çok şiddetli olması beklenen yağışlardan dolayı bu bölgelerdeki sızma ve derelerdeki ANI Taşkın riskine karşı dikkate alınması gerekmektedir.

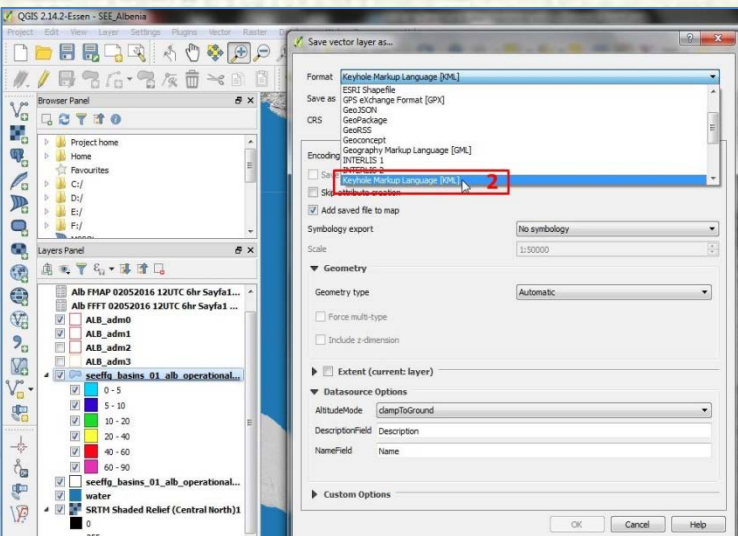
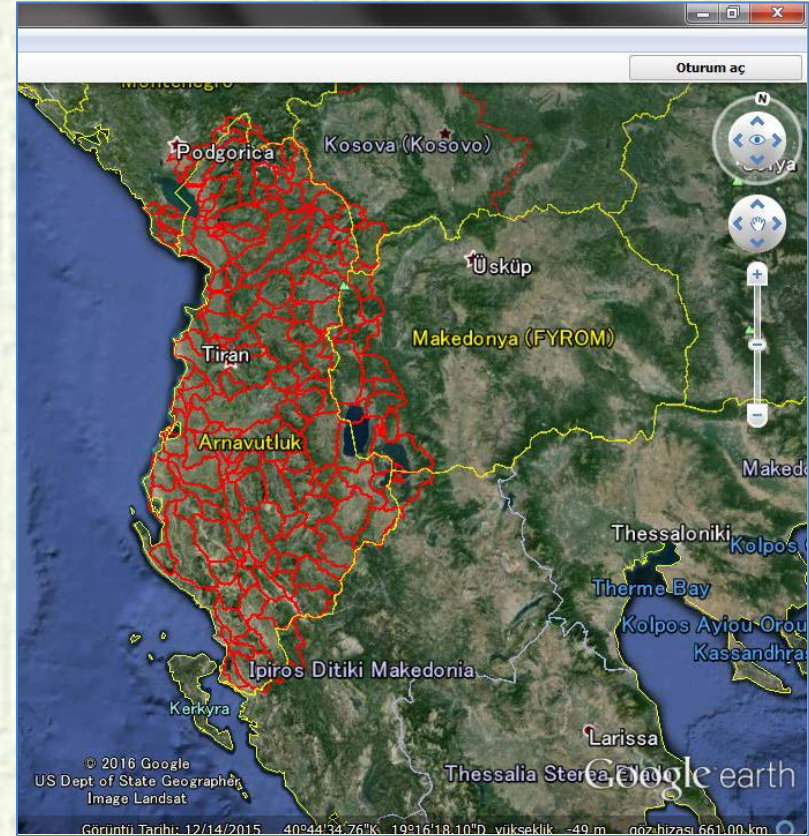
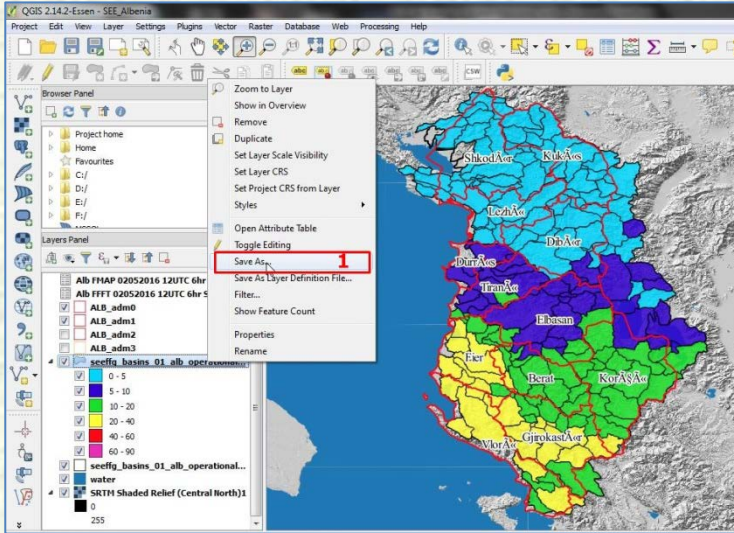
**GENEL DEĞERLENDİRME
(13.01.2016 06:00 UTC - 6 SAAT)**

ANI Taşkın Erken Uyarı Modeliyle yapılan ANI TAŞKIN tahminlerine göre Söğüt'deki 6 saat içinde Manisa ilinin Gördes, Selendi, Demirci ilçeleri, Kütahya ilinin Tavşanlı, Simav ilçeleri, Edirne'nin Marlıca ve Mihaliçcik ilçelerinde devam eden ve beklenen çok şiddetli yağışlardan dolayı bu bölgelerdeki sızma ve derelerde ANI Taşkın beklendiğinden bu bölgelerin dikkate alınması gerekmektedir.

(13.01.2016 06:00 UTC - 24 SAAT)

ANI Taşkın Erken Uyarı Modelinin alansal yağış verilerine göre Söğüt'deki 24 saat içinde Kütahya ilinin Tavşanlı, Emet, Nizircik ilçeleri, Edirne'nin Marlıca, Mihaliçcik, Alpa, İncecik ilçelerinde Manisa ilinin Demirci ilçelerinde ve Etilik ilinin Pazaryeri, Söğüt, Bozözü, İbrahim ilçelerinde yer yer çok şiddetli olması beklenen yağışlardan dolayı bu bölgelerdeki sızma ve derelerdeki ANI Taşkın riskine karşı dikkate alınması gerekmektedir.

SHAPE TO KML





Thank you for your attentetion