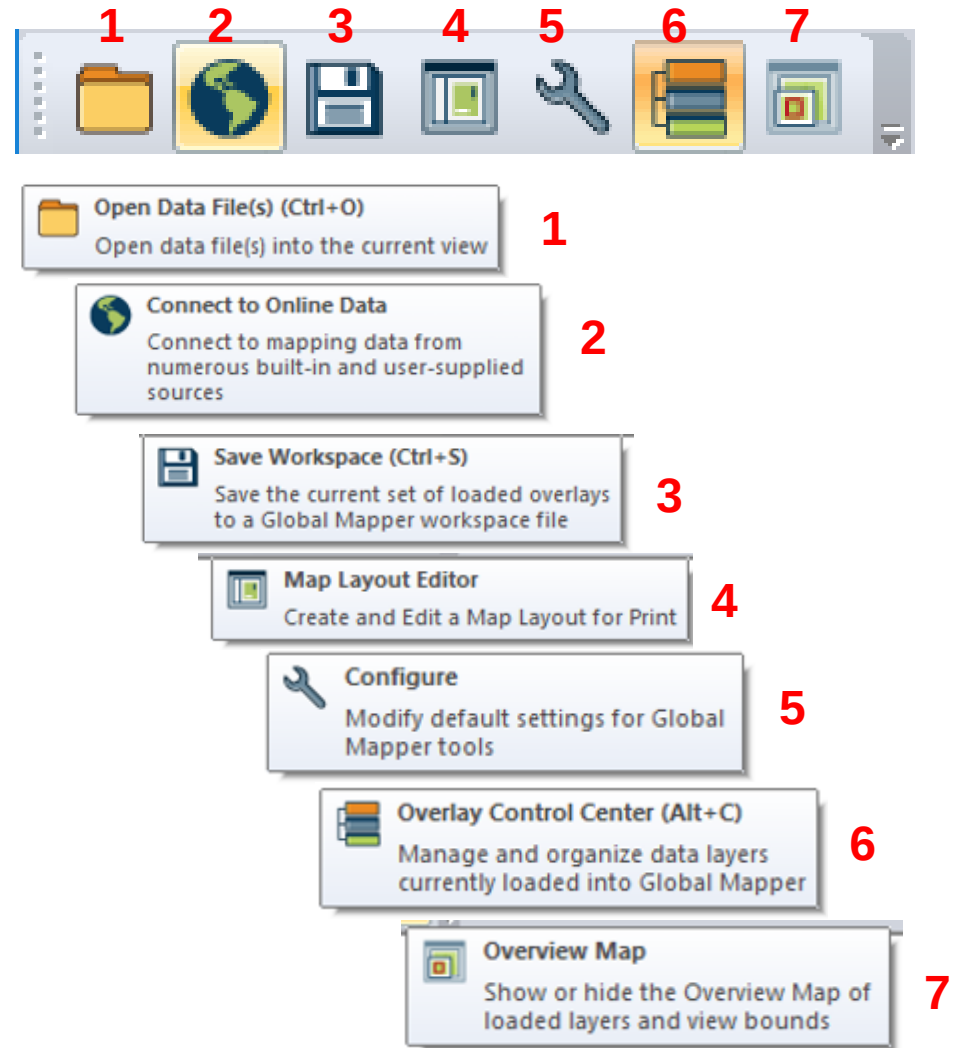
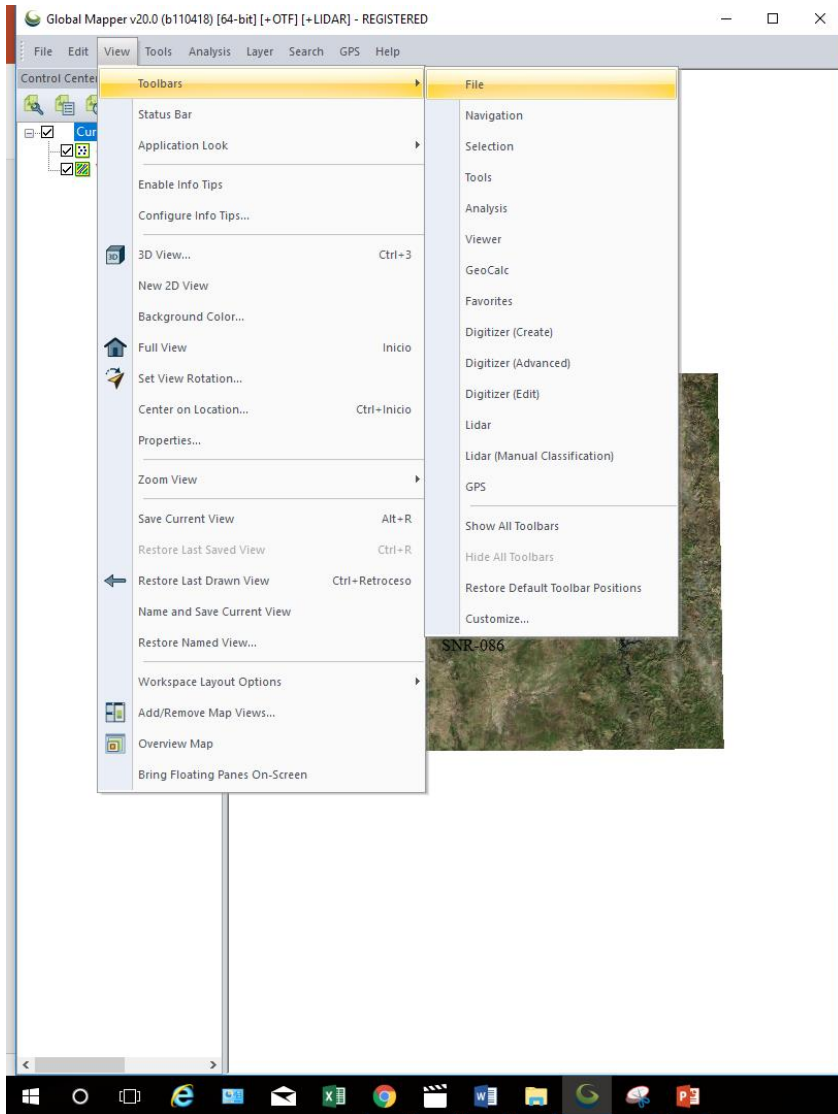




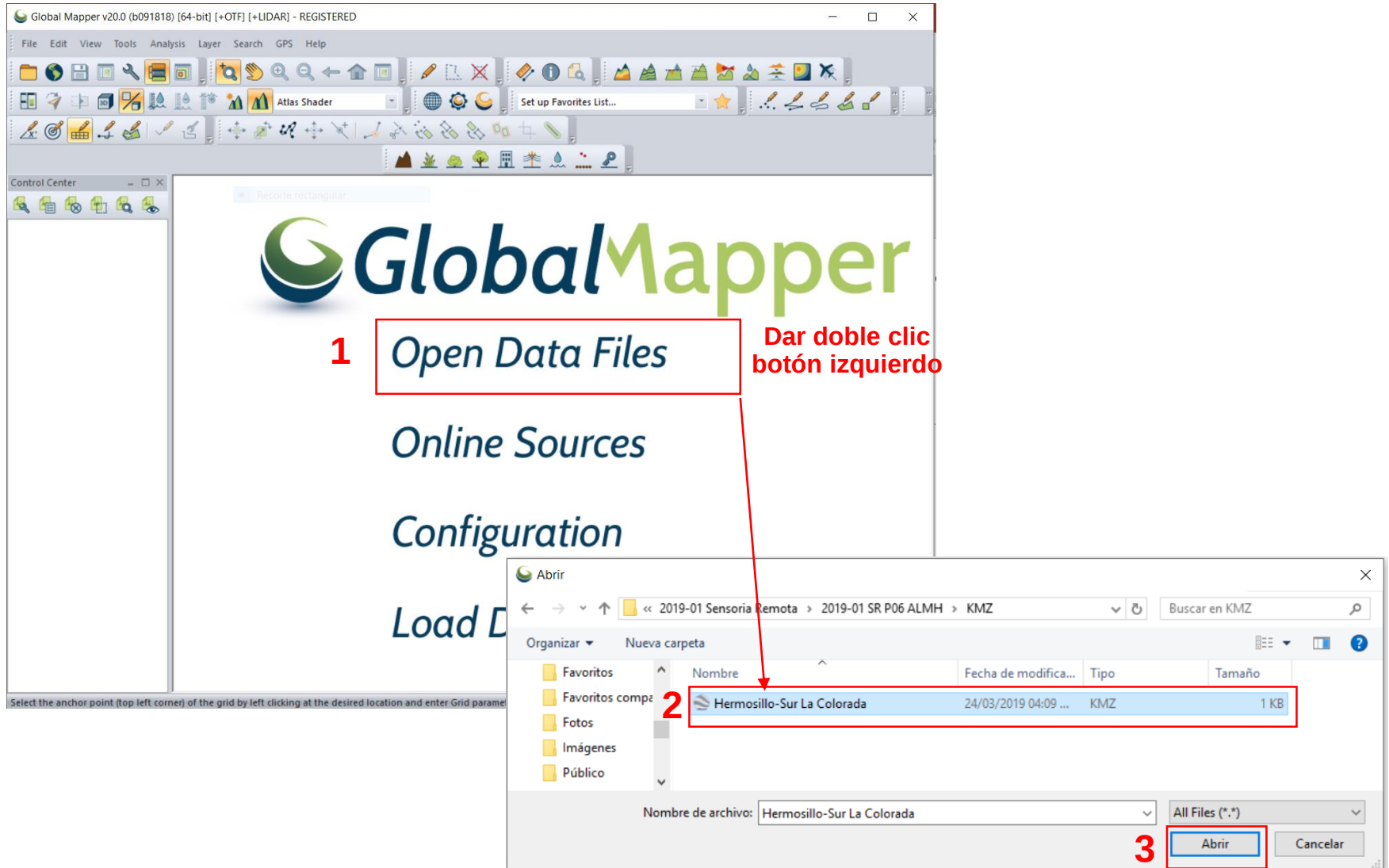
Descargar Curvas de Nivel
Descargar Imágenes

Alba Lucina Martínez Haros
E-mail: alba.mtz.h@gmail.com

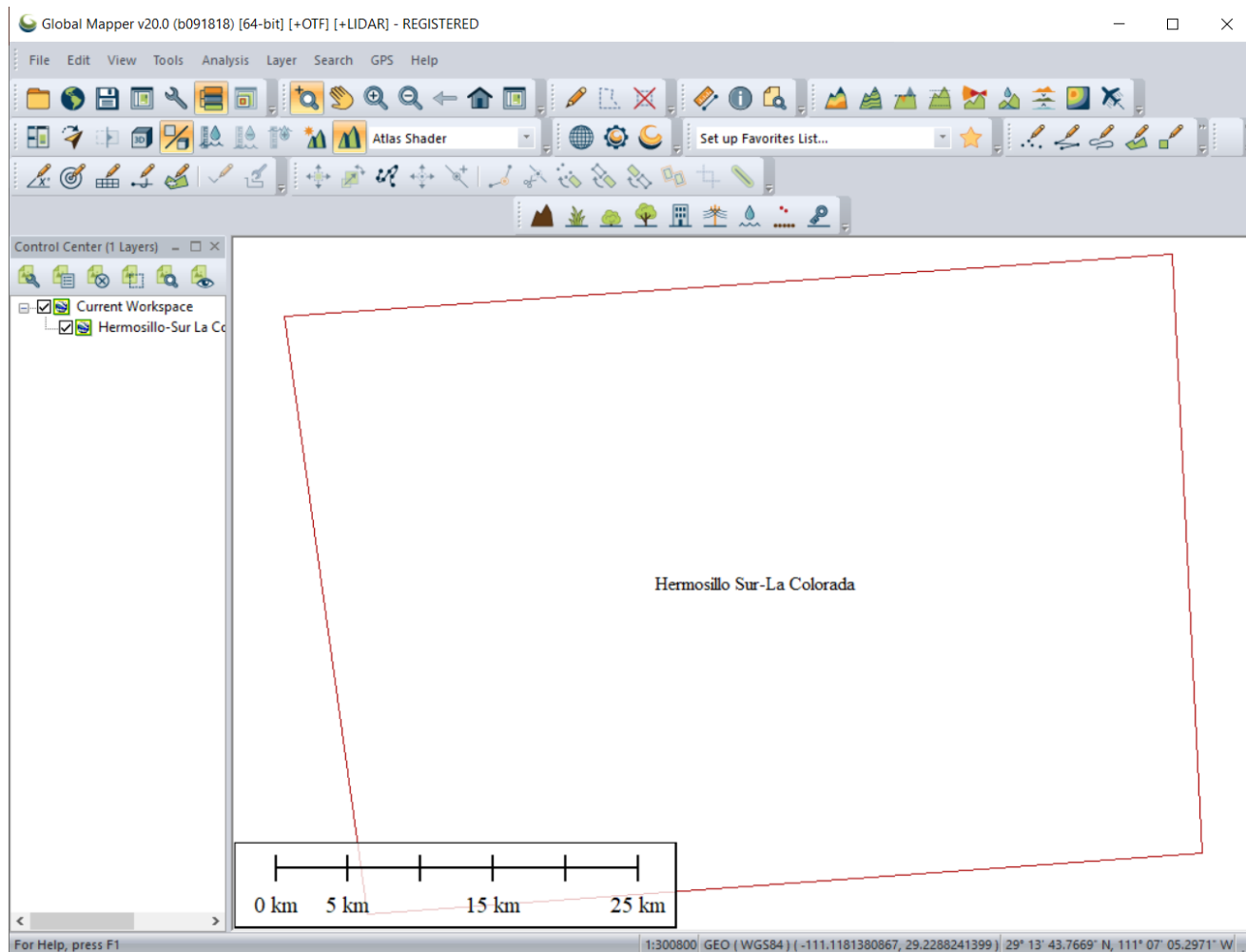
TOOLBARS



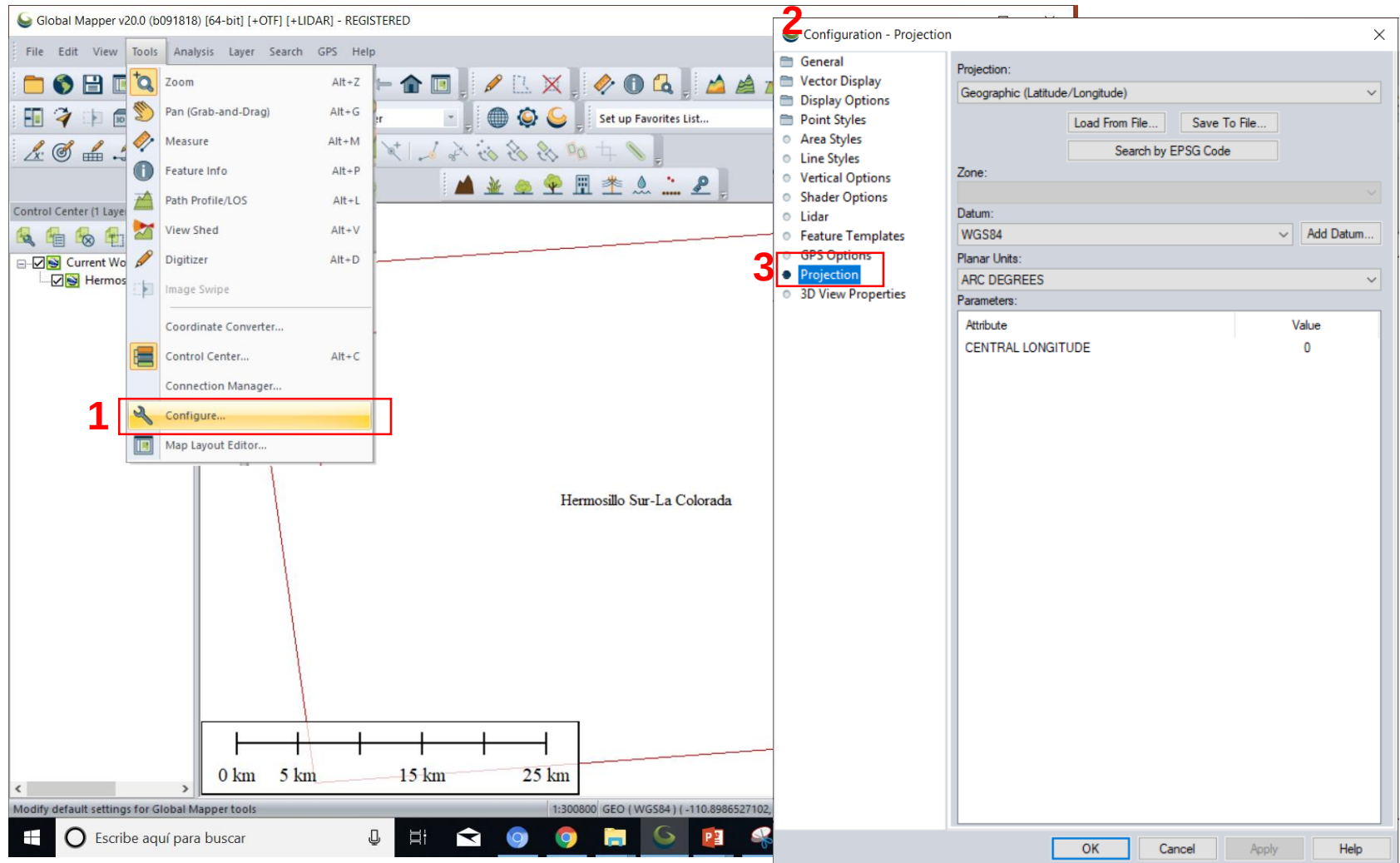
Abrir el archivo enviado en formato kmz Hermosillo-Sur La Colorada que se uso para la 2019-01 SR P05-01 ALMH*



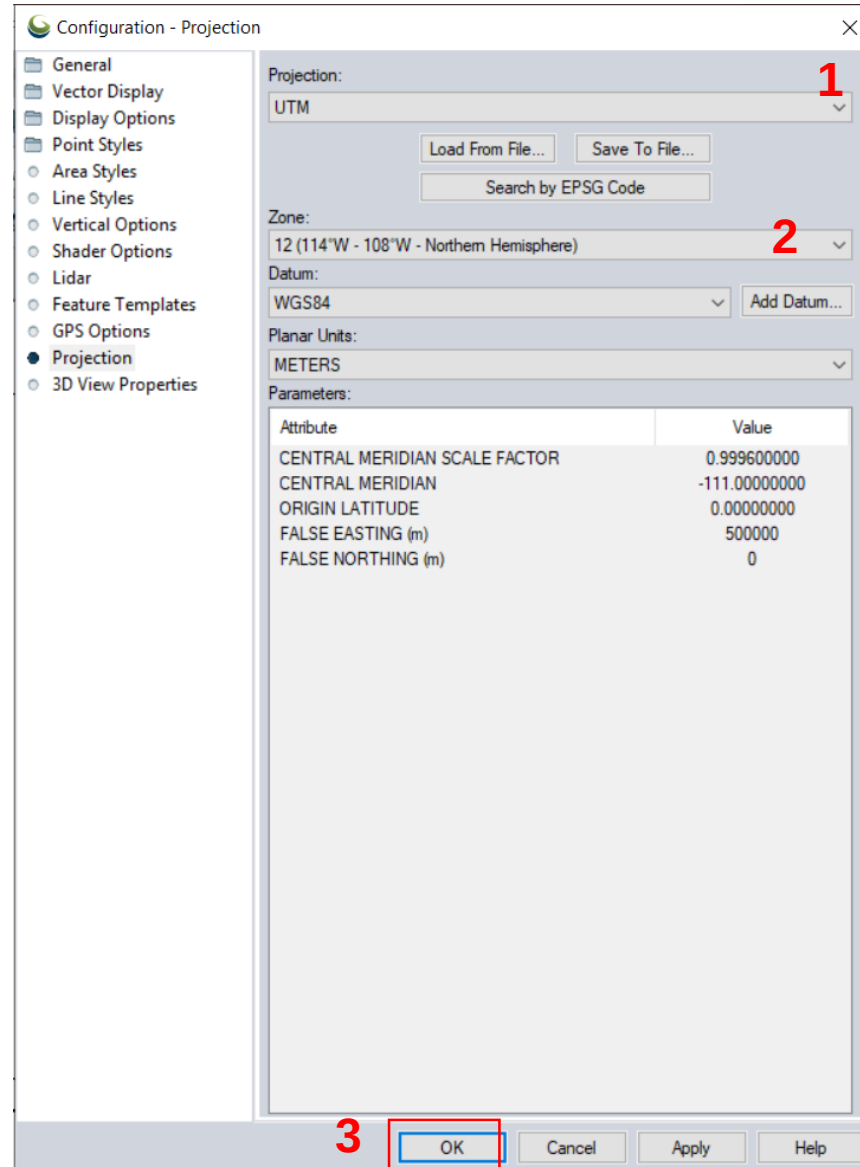
Se desplegara el archivo kmz Hermosillo-Sur La Colorado



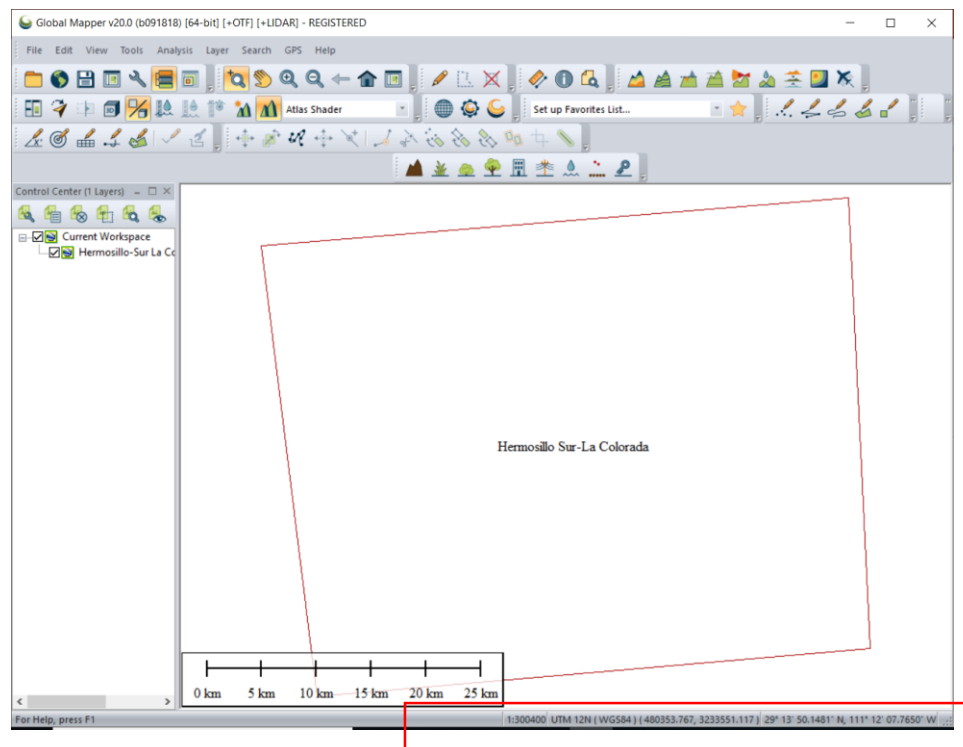
Para cambiar el sistema de coordenadas debemos de realizar los siguientes pasos:



Cambiar los datos como se muestra en las figuras



En la parte inferior se observa el cambio en el sistema de coordenadas



1:300400 UTM 12N (WGS84) (516832.357, 3179349.814) 28° 44' 29.1094" N, 110° 49' 39.3978" W

Descargar MED. Buscar la opción de TERRAIN DATA/ ASTER GDM

Global Mapper v20.0 (b091818) [64-bit] [+OTF] [+LIDAR] - REGISTERED

File Edit View Tools Analysis Layer Search GPS Help

Open Data File(s)... Ctrl+O

Open Spatial Database...

Open Cloud Dataset...

Open Generic Text File(s)...

Open All Files in a Directory Tree...

Open Data File at Fixed Screen Location...

Unload All... Ctrl+U

Download Online Imagery/Topo/Terrain Maps... 1

Create New Map Catalog...

Rectify (Georeference) Imagery...

Load Workspace... Ctrl+W

Save Workspace... Ctrl+S

Save Workspace As... Ctrl+Mayusculas+S

Run Script...

Capture Screen Contents to Image... Mayusculas+C

Export

Batch Convert/Reproject...

Print... Ctrl+P

Print Preview...

Print Setup...

1 Hermosillo-Sur La Colorada

2 Área_de_Estudio_pto.dbf

3 Área_de_Estudio.dbf

15 km 20 km 25 km

sources 1:300400 UTM 12N (WGS84) (504831.775, 3209947.324) 29° 01' 03.7097" N, 110° 57' 01.3823" W

Select Online Data Source to Download

Select Data Source

TERRAIN DATA

2 ASTER GDEM v2 Worldwide Elevation Data (1 arc-second Resolution)

Backup Source - ASTER GDEM Worldwide Elevation Data (1.5-arc-second Resolution)

Intermap NEXTMap-Elevation-DSM [PREMIUM CONTENT]

Intermap NEXTMap-Elevation-DTM [PREMIUM CONTENT]

Korean VWorld Server - DEM

MapMart On Demand (Worldwide Data) [PREMIUM CONTENT]

NOAA Digital Coast (Lidar/Terrain) (Download via NOAA Web Site)

SRTM Worldwide Elevation Data (1-arc-second Resolution, SRTM Plus V3)

SRTM Worldwide Elevation Data (3-arc-second Resolution)

United States Elevation Data (NED) (10m Resolution)

OLD UNRELIABLE SOURCES

TOPPO MAPS

Add New Source... Remove Source Delete Cached Files... Add Sources from File... Load ECW from Web...

Select Area to Download

☒ Current Screen Bounds

☐ Within 1 miles of address

☐ Within 1 miles of latitude 28.8701820808501 longitude -110.691486415197

☐ Specify Latitude/Longitude Bounds of Area

West -111.05243065051 North 29.0865592222663 East -110.33054217987 Draw Box...

South 28.6538049394335

☐ Download Within Currently Selected Polygon(s)

☐ Entire Data Source Bounds

Display Options

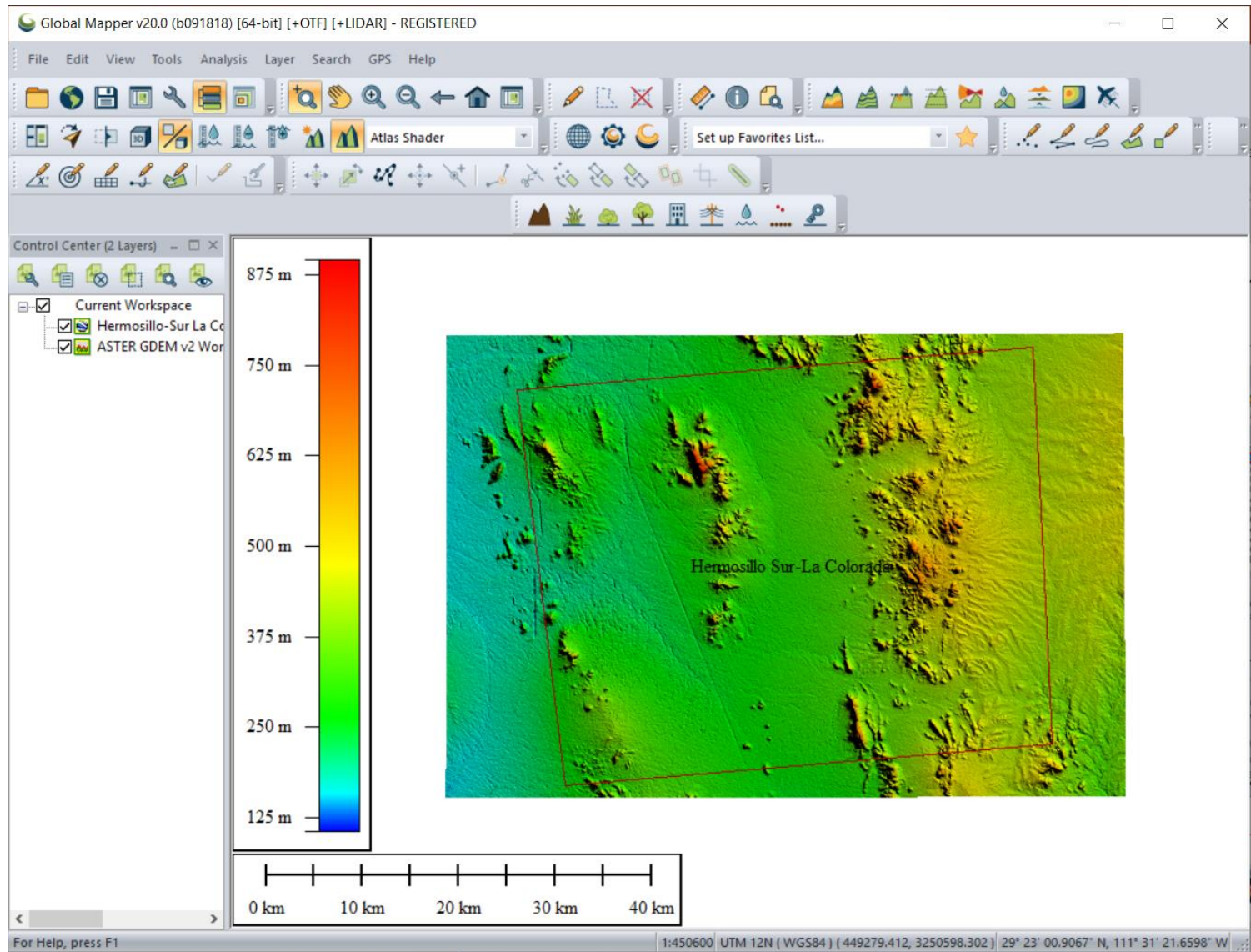
Resampling Method: Bilinear Interpolation Detail Level: Less Default More

☒ Restrict Source to Selected Bounds (i.e. Don't Allow Panning Entire Data Set)

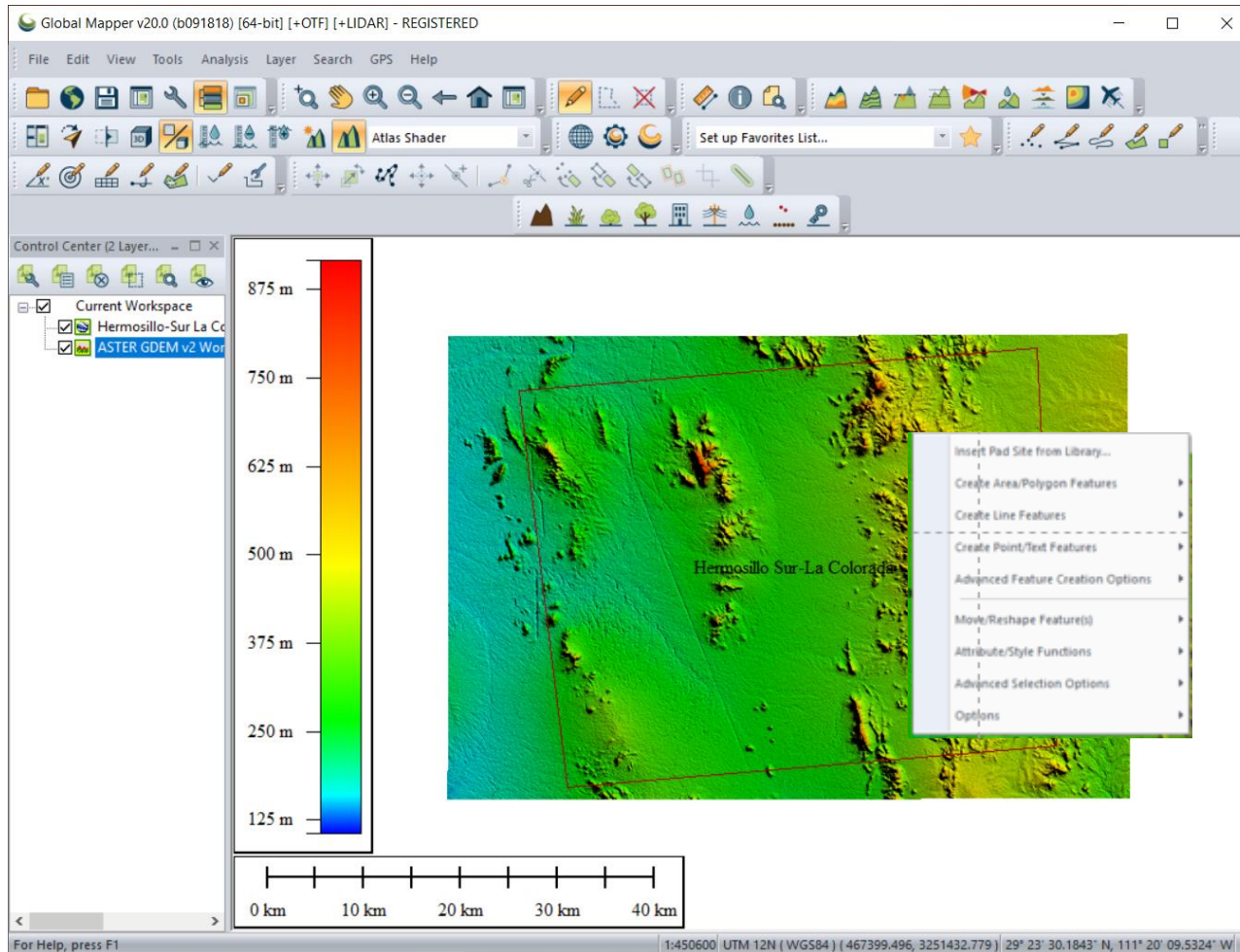
IMPORTANT NOTE: These data sources are on external servers that we have no control over. The data may draw/export very slowly or become unavailable at any time. We have no control over this.

3 Connect

Se visualizara el MED

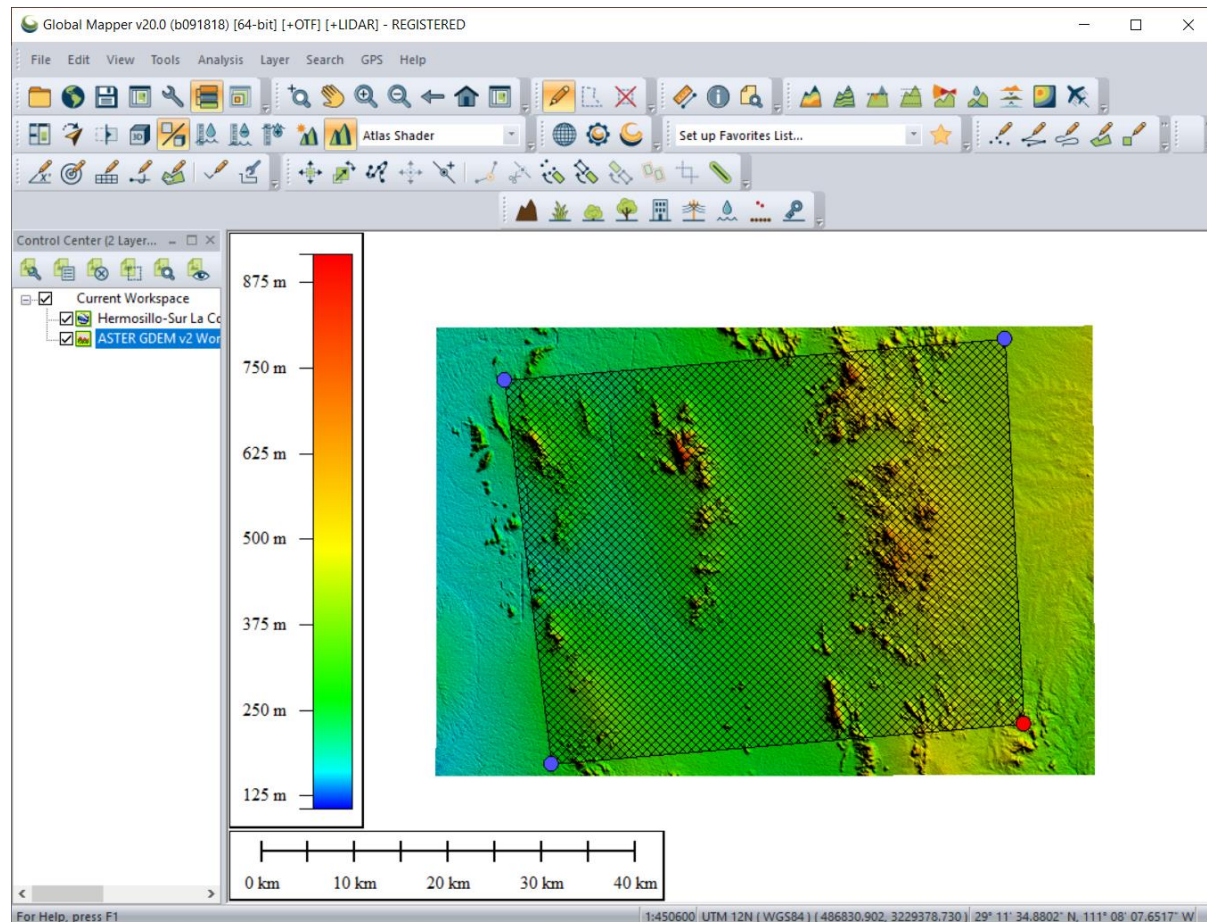


Generar los contornos de las curvas de nivel. Se deberá de dar clic con el botón derecho sobre el kmz que se abrió y aparecerá el siguiente mensaje

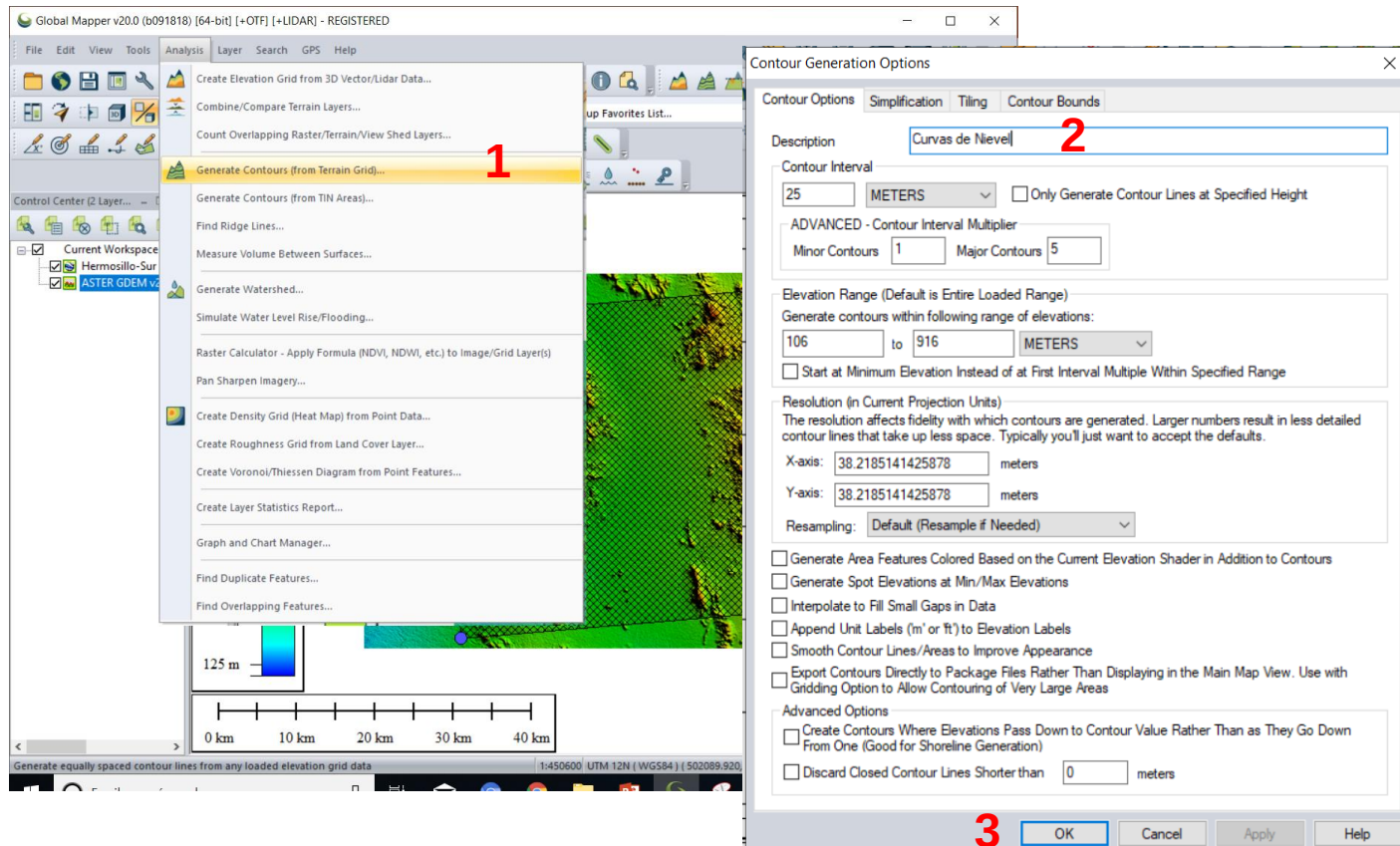


Salir del cuadro de dialogo y dar clic con el botón izquierdo al kmz que abrimos

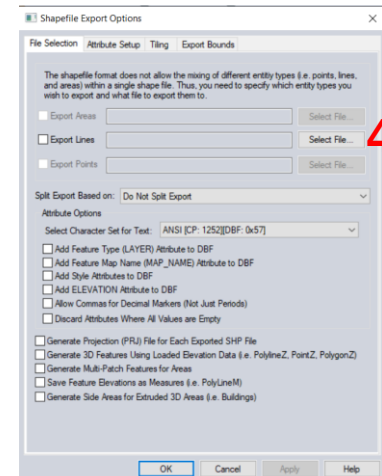
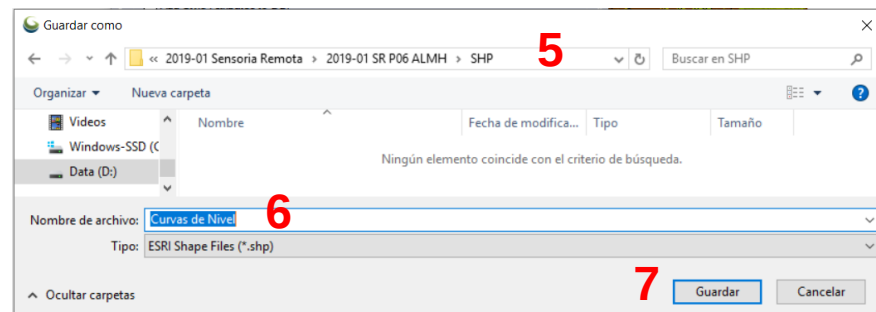
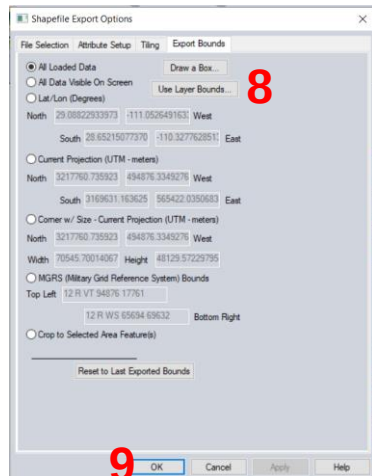
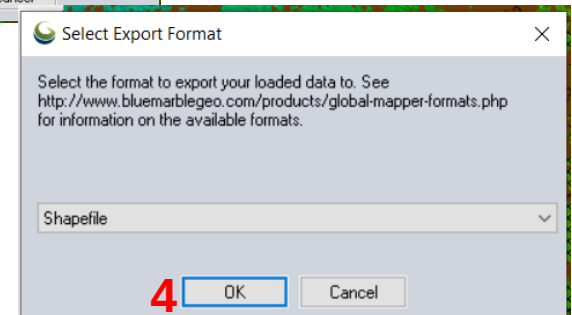
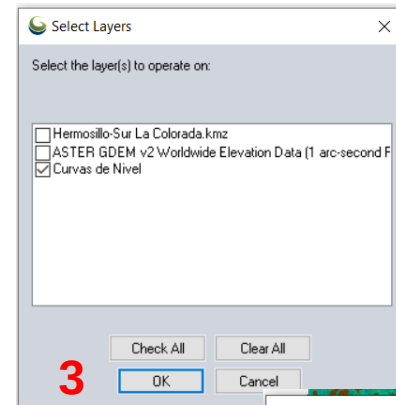
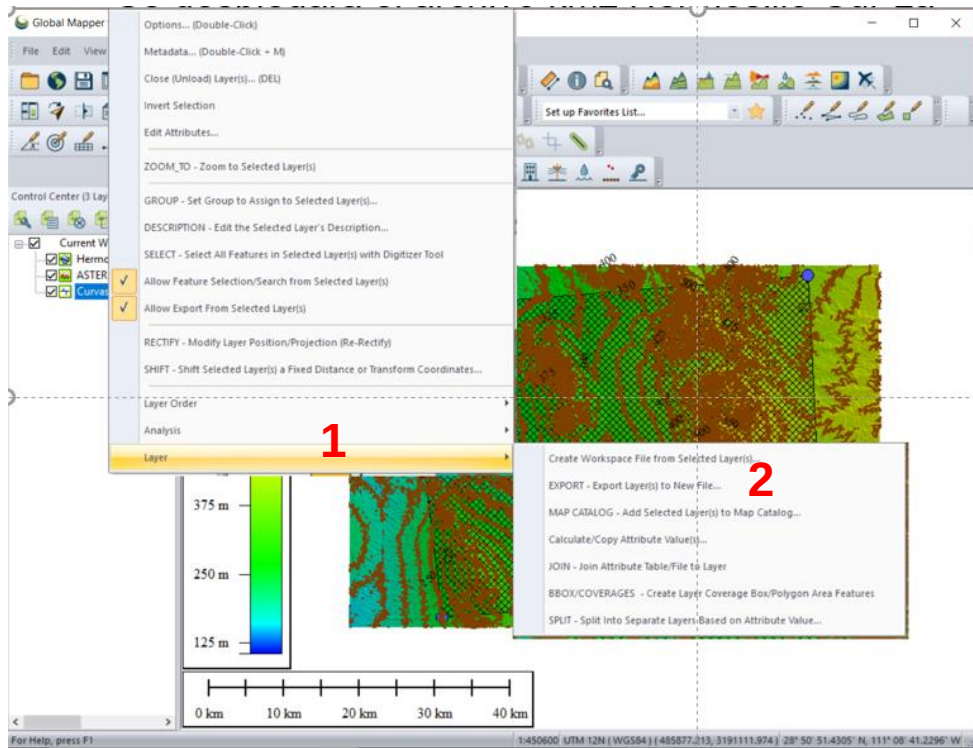
Se seleccionara el área donde se generaran las curvas de nivel



Seleccionar Generate Contours. Después escribir nombre de curvas de en el espacio de Description. Y dar OK

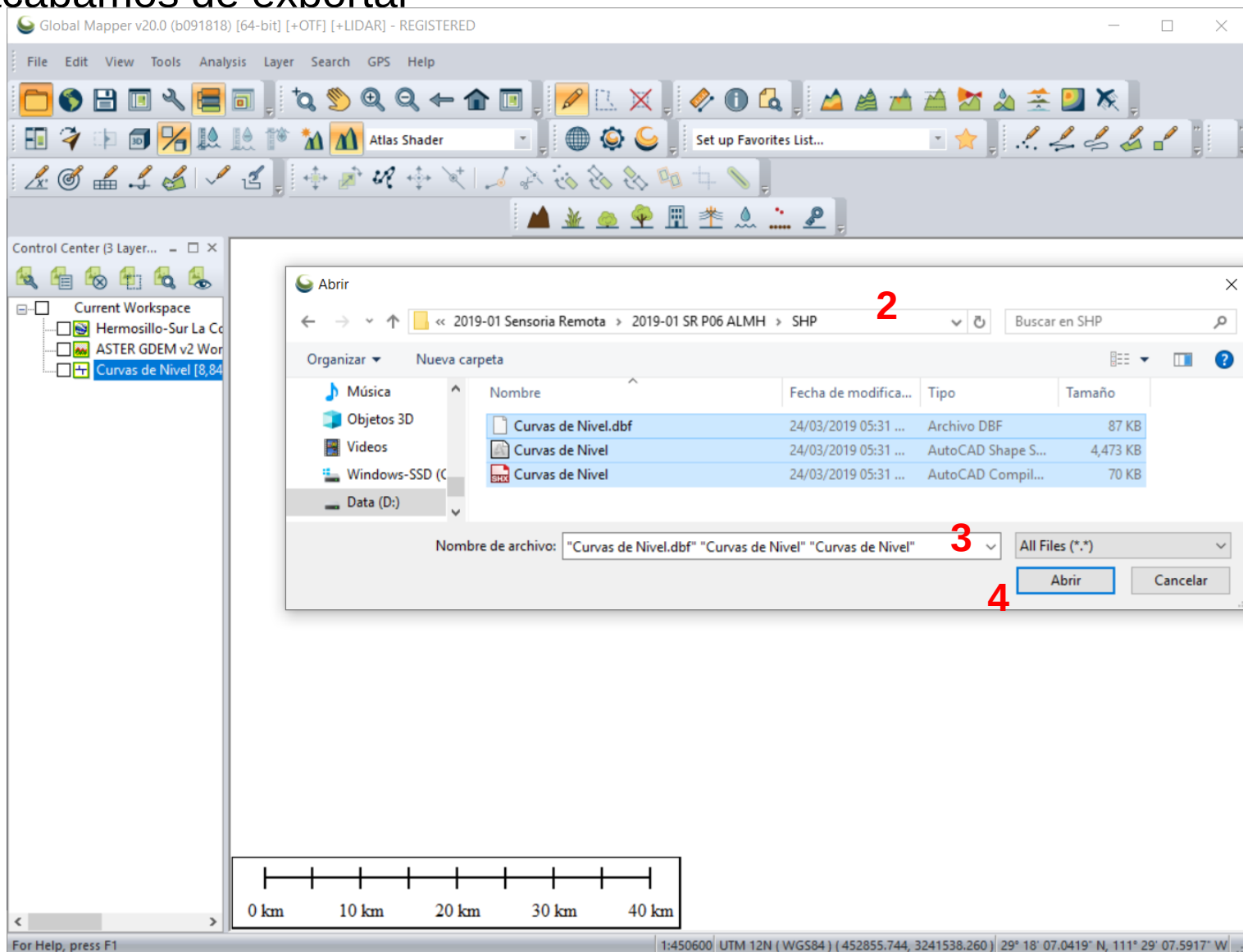


Con el botón derecho del mouse dar clic a la capa de Curvas de Nivel y seleccionar la opción de Layer en la opción EXPORT



De deberán de apagar todas las capas y abrir los archivos del shp que acabamos de exportar

1



Para descargar la imagen de satélite se lleva a cabo el siguiente proceso

The screenshot displays the Global Mapper v20.0 software interface. The main window shows a map with a selected polygon area, indicated by blue dots at the vertices. A scale bar at the bottom indicates distances from 0 to 40 km. The 'Control Center' on the left lists the current workspace layers, including 'Hermosillo-Sur La Co', 'ASTER GDEM v2 Wor', 'Curvas de Nivel [8,84', and 'Curvas de Nivel.shp'. A dialog box titled 'Select Online Data Source to Download' is open, showing a list of data sources under the 'IMAGERY' category. The 'World Imagery' source is selected. The 'Connect' button is highlighted with a red '3'. The dialog also includes options for selecting the area to download (Current Screen Bounds, Within a distance, or Specify Latitude/Longitude Bounds) and display options (Resampling Method, Detail Level, and Restrict Source to Selected Bounds). An important note at the bottom of the dialog states: 'IMPORTANT NOTE: These data sources are on external servers that we have no control over. The data may draw/export very slowly or become unavailable at any time. We have no control over this.'

Global Mapper v20.0 (b091818) [64-bit] [+OTF] [+LIDAR] - REGISTERED

File Edit View Tools Analysis Layer Search GPS Help

Atlas Shader Set up Favorites List...

Control Center (4 Layer...)

Current Workspace

- ✓ Hermosillo-Sur La Co
- ✗ ASTER GDEM v2 Wor
- ✗ Curvas de Nivel [8,84
- ✗ Curvas de Nivel.shp

Select Online Data Source to Download

Select Data Source

- ✗ GEOLOGIC MAPS
- ✗ IMAGERY
 - *** Worldwide High-Res Imagery *** from DigitalGlobe [PREMIUM CONTENT]
 - Copernicus Open Access Hub (Formerly Sentinel) (European Imagery Available via Download)
 - Landsat8 Global Imagery (Download via EarthExplorer)
 - MapMart On Demand (Worldwide Data) [PREMIUM CONTENT]
 - US National Map Imagery (1 Foot or Better Resolution) [NAIP]
 - World Imagery**
 - ✗ Australia
 - ✗ Germany
 - ✗ OLD UNRELIABLE SOURCES
 - ✗ United States
 - ✗ LAND COVER

Connect Close

Select Area to Download

☒ Current Screen Bounds

☐ Within 1 miles of address

☐ Within 1 miles of latitude 28.8544622876877 longitude -110.739440914932

☐ Specify Latitude/Longitude Bounds of Area

West -111.28133953224 North 29.178849726652 East -110.19754229761 South 28.5300748487234

Draw Box...

(NOTE: Longitude values in the Western Hemisphere and latitude values in the Southern hemisphere must be negative.)

☐ Download Within Currently Selected Polygon(s)

☐ Entire Data Source Bounds

Display Options

Resampling Method: Bilinear Interpolation Detail Level: Less Default More

☒ Restrict Source to Selected Bounds (i.e. Don't Allow Panning Entire Data Set)

IMPORTANT NOTE: These data sources are on external servers that we have no control over. The data may draw/export very slowly or become unavailable at any time. We have no control over this.

For Help, press F1

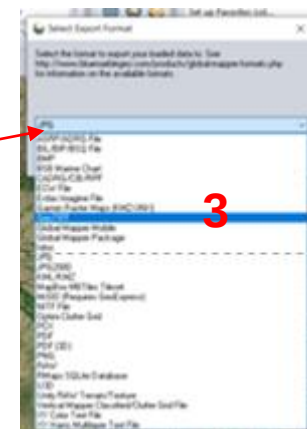
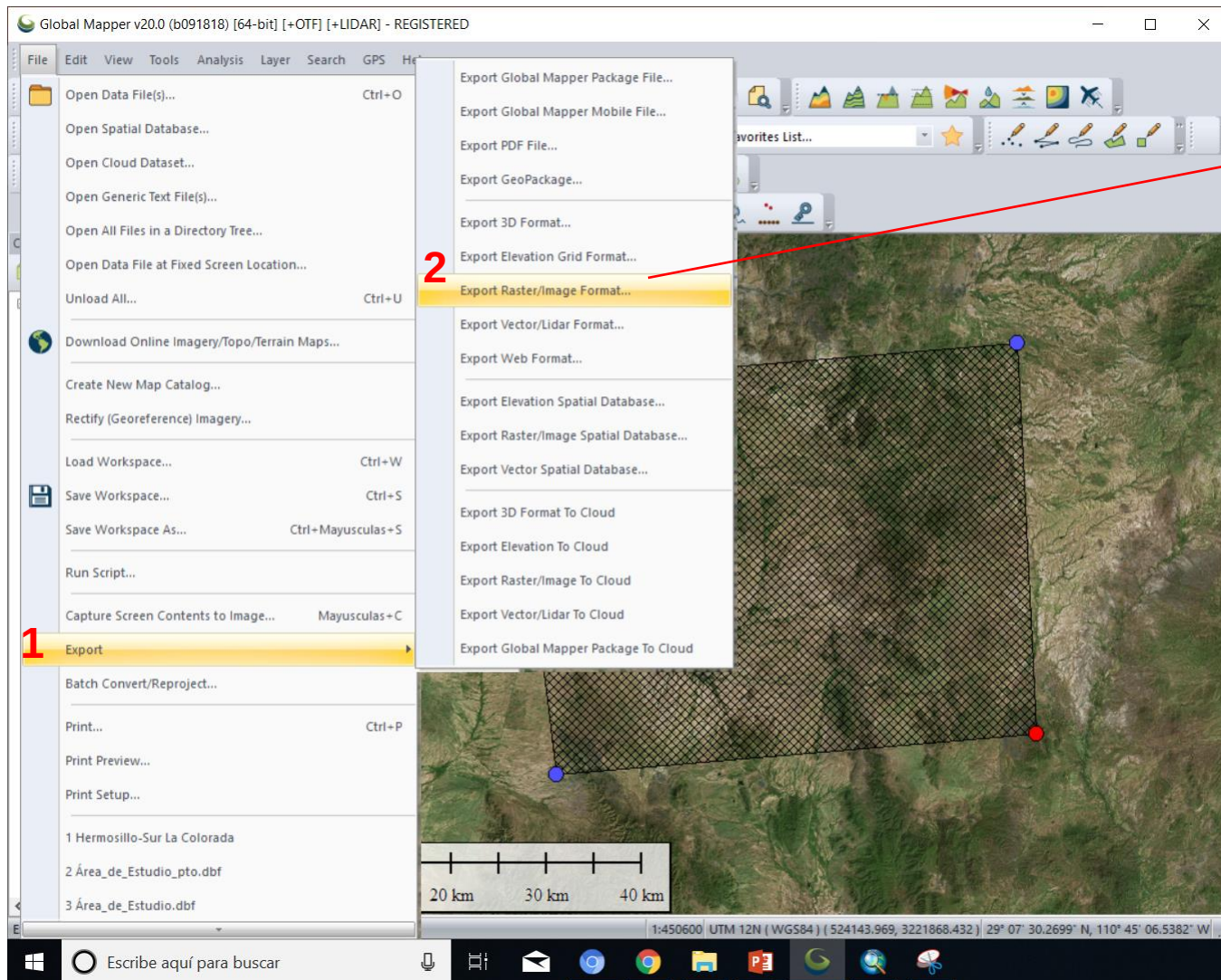
1:450600 UTM 12N (WGS84) (474075.316, 3217099.989) 29° 04' 55.2041" N, 111° 15' 58.9585" W

Notas

Escribe aquí para buscar

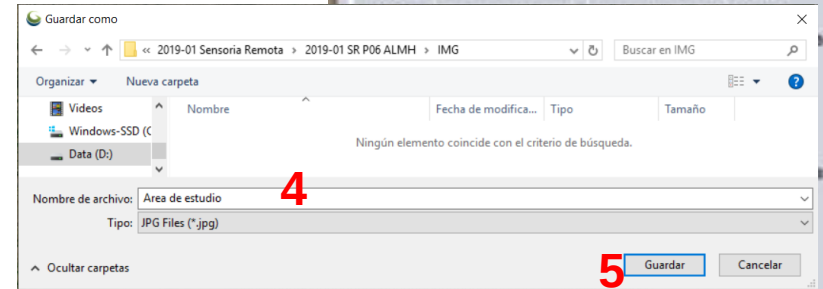
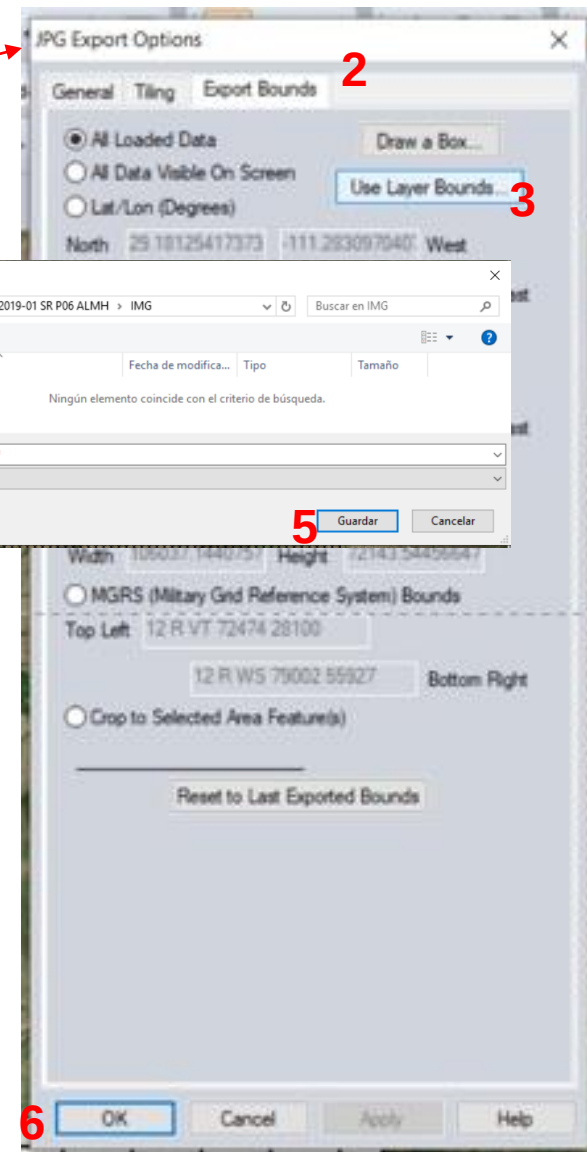
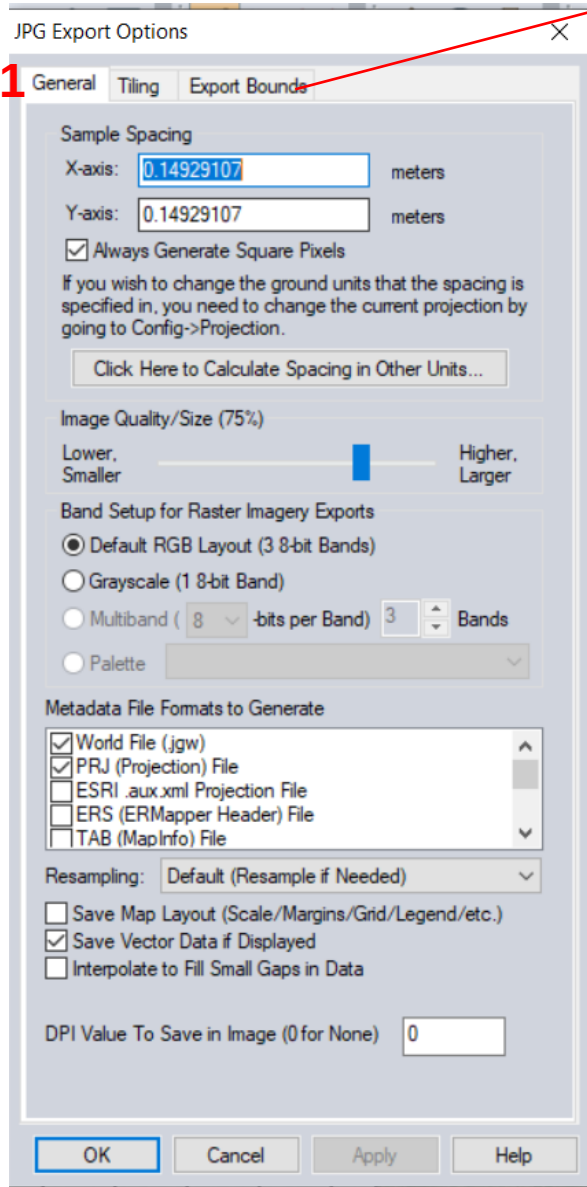
05:41 p. m. 24/03/2019

Se deberá de mantener seleccionada el kmz que sirve como área de corte



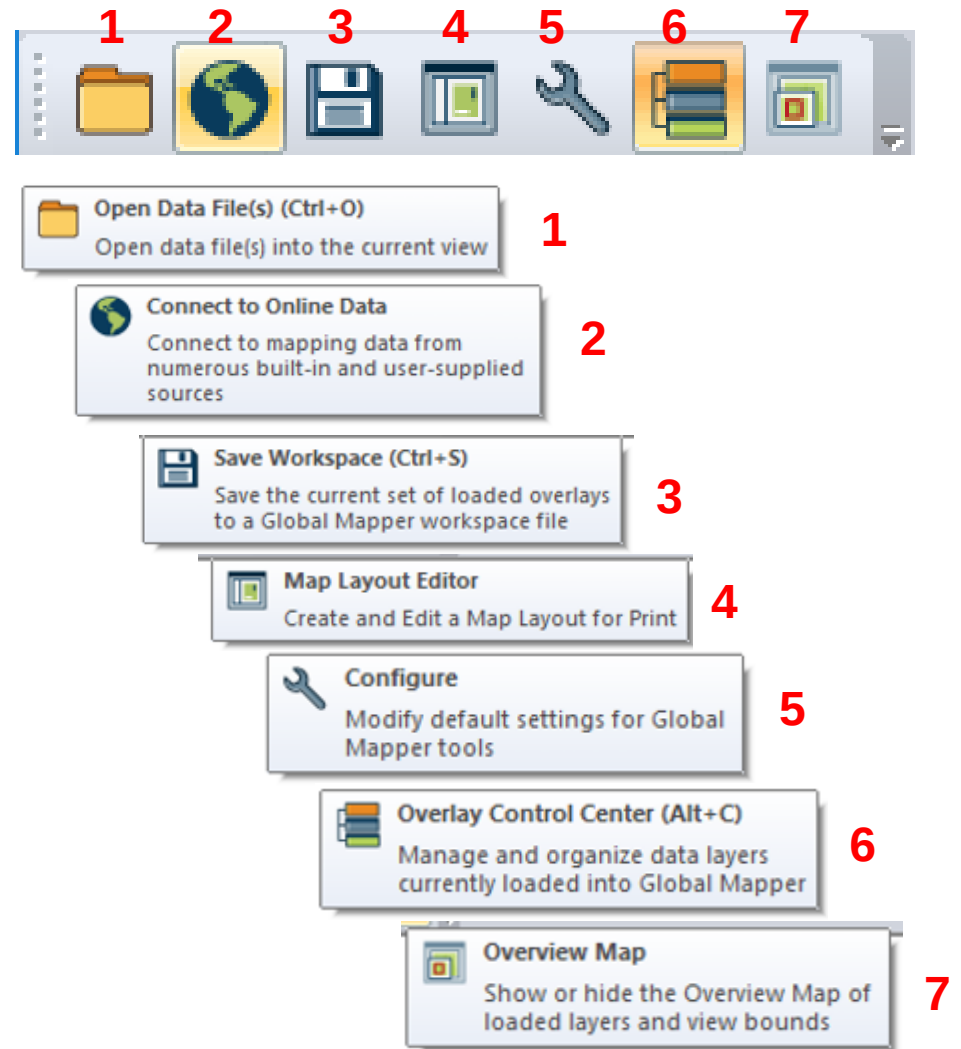
Guardar la imagen en una carpeta llamada IMG
Guardar imagen en formato geoTIFF y JPG

Se desplegara el archivo kmz Hermosillo-Sur La



**ESPERAR HASTA QUE LA
ACCIÓN CONCLUYA
GUARDAR LAS IMÁGENES
CON EL MISMO NOMBRE**

Guardar el
proyecto en la
carpeta de la
práctica con las
recomendacione
s ya usadas



Abrir ArcMap y verificar que los archivos realizados en Global Mapper v20 se visualicen.

Guardar el proyecto en ArcMap con las recomendaciones ya utilizadas

Actividades y Preguntas

Realizar diversos ejercicios donde los contornos generados con el MED sean de 1, 5, 10, 20 y 50 metros. Colocar los nombres de CN_1m,... y CN_50m.

Realizar diversas imágenes con tamaño de pixel diferentes para visualizar la calidad de la imagen (5 imágenes). Y explique cuando se deben de usar diferente pixel en la generación de imágenes.

¿Cuál es la diferencia entre las curvas de nivel descargadas de las cartas 50,000 y las generadas con Global Mapper?

¿Para que tipos de trabajos puedo utilizar las curvas generadas en Global Mapper?

Explique cuales la diferencia entre la imagen de Google Earth y la imagen de descargada de Global Mapper v20.