

Curso Introductorio al análisis espacial de datos con QGIS



Sesion 003

Antony Barja

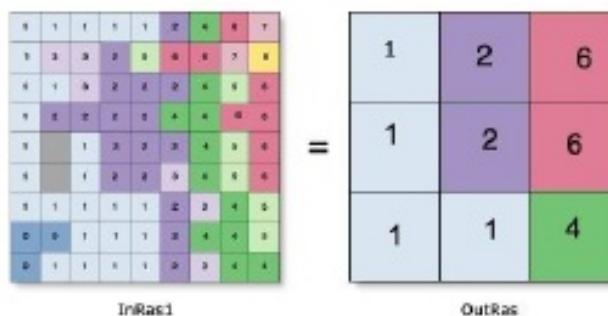
Analista junior en datos espaciales

2019/07/07 (updated: 2019-07-21)

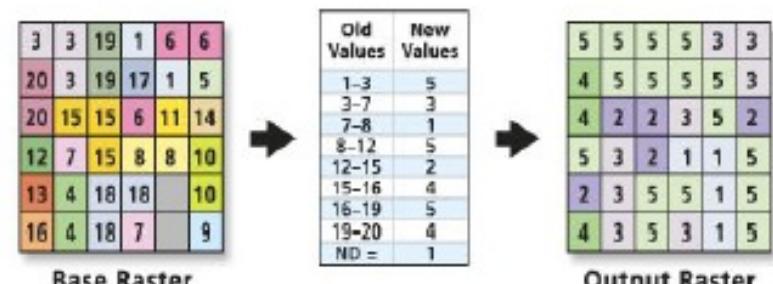
Geoprocесamiento con datos raster

Tipos de geoprocessamiento con datos raster

Resample



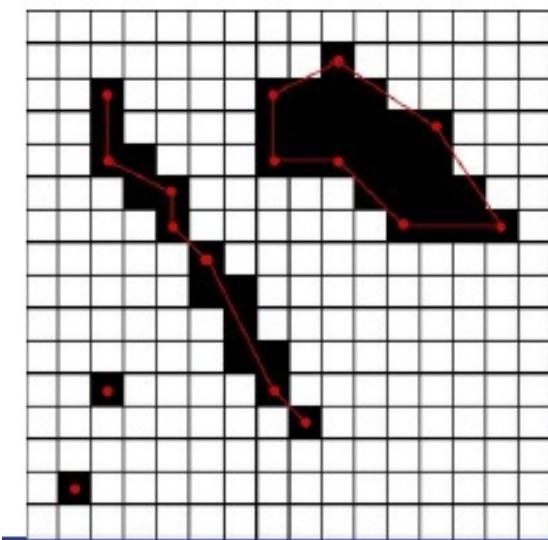
Reclasificación



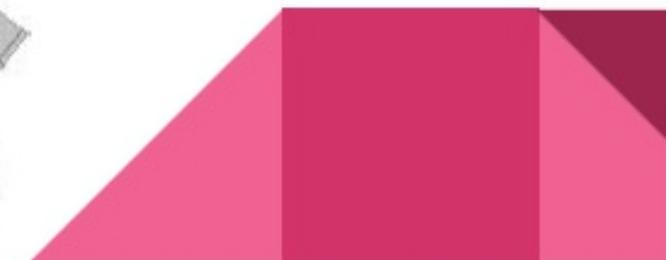
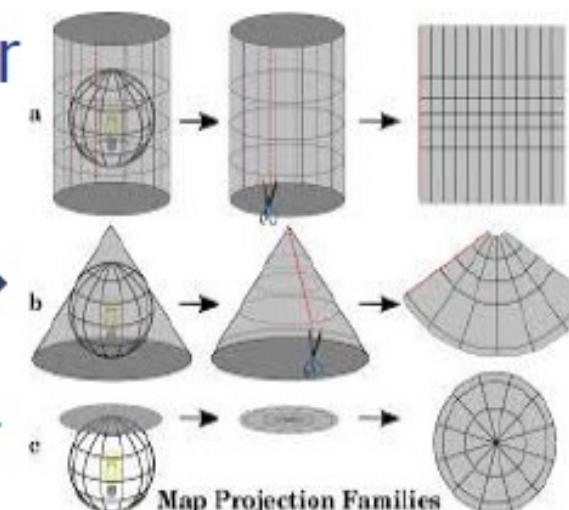
Máscara



Poligonizar

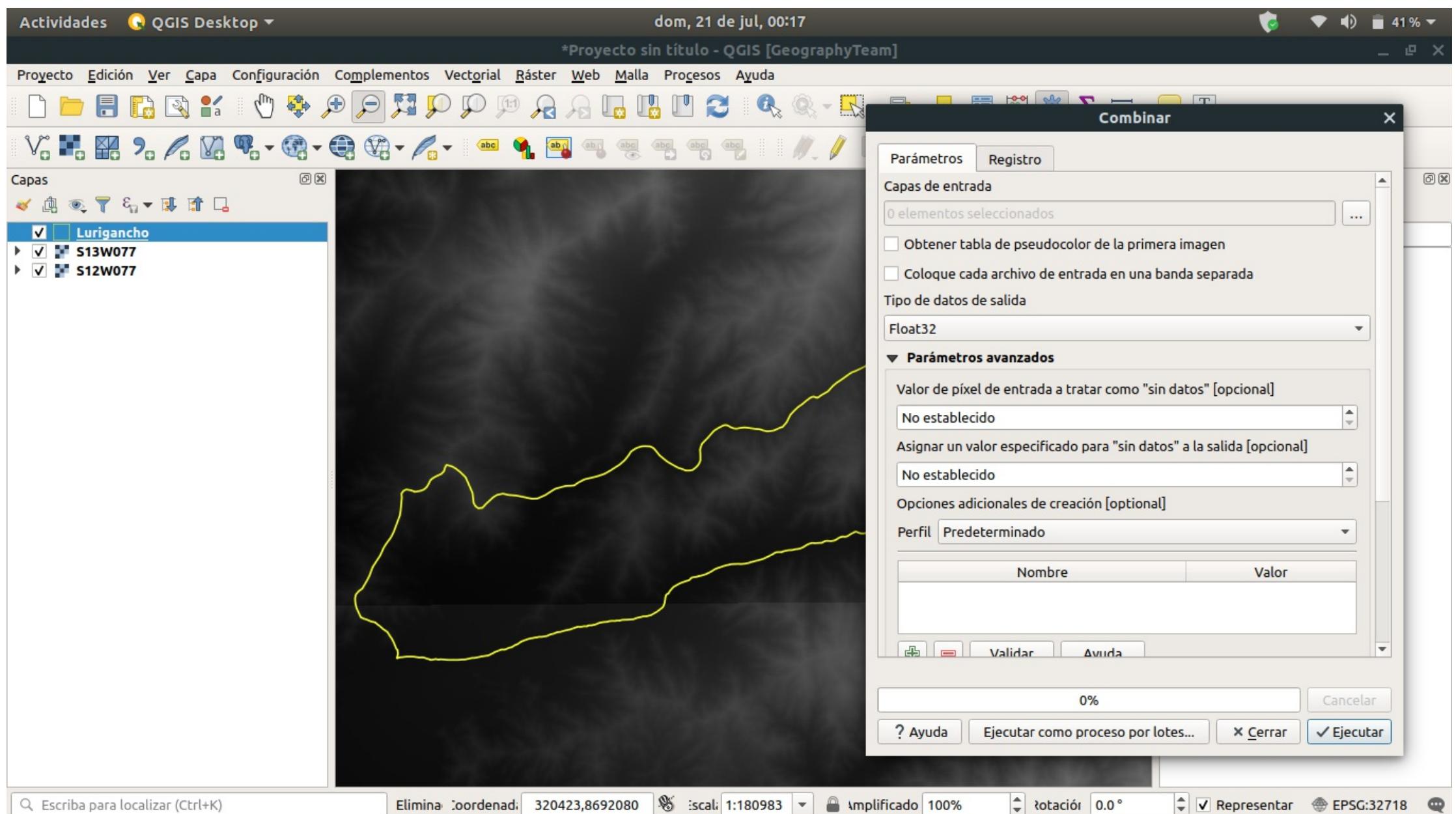


Reproyectar



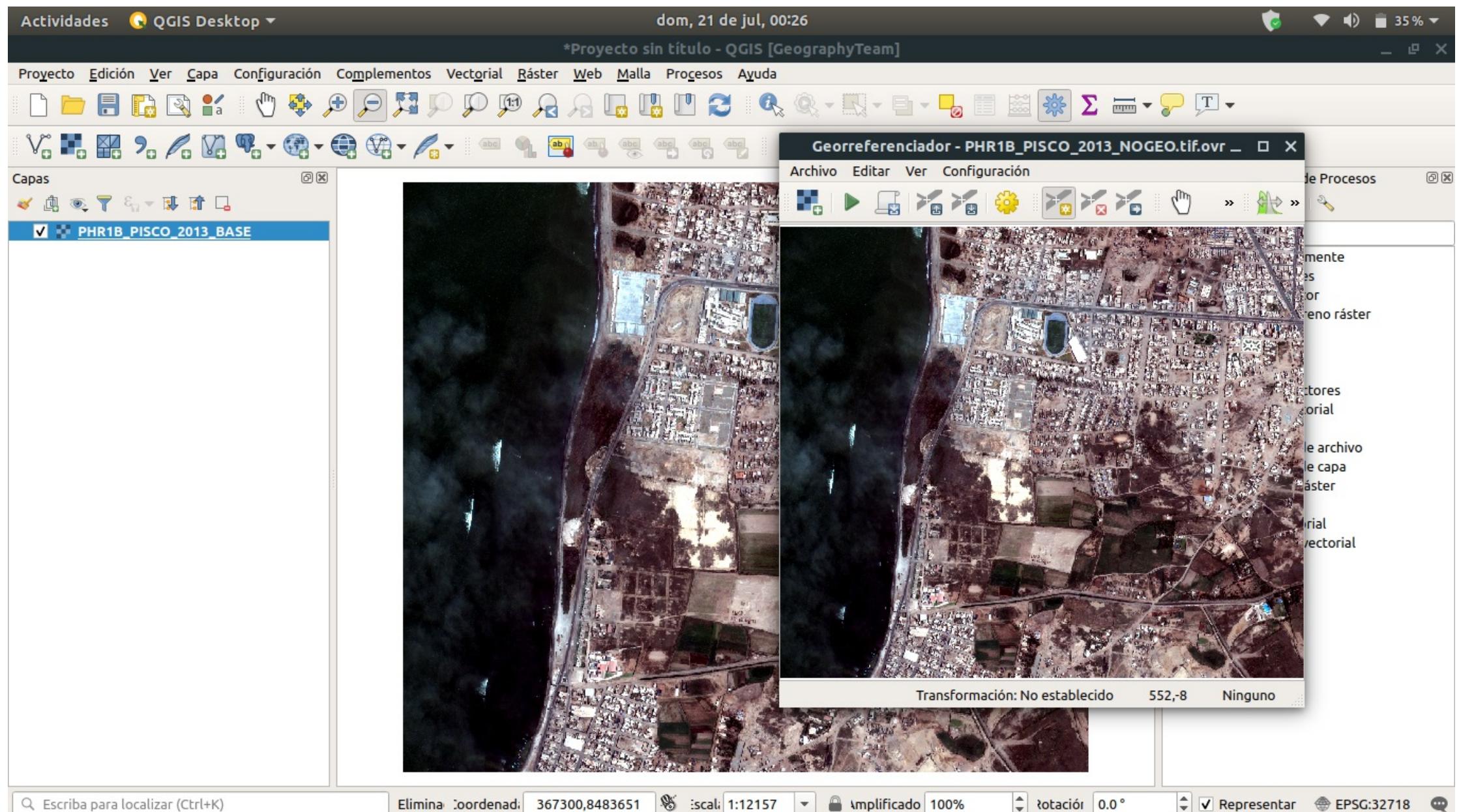
Parte práctica

Ejercicios - parte I



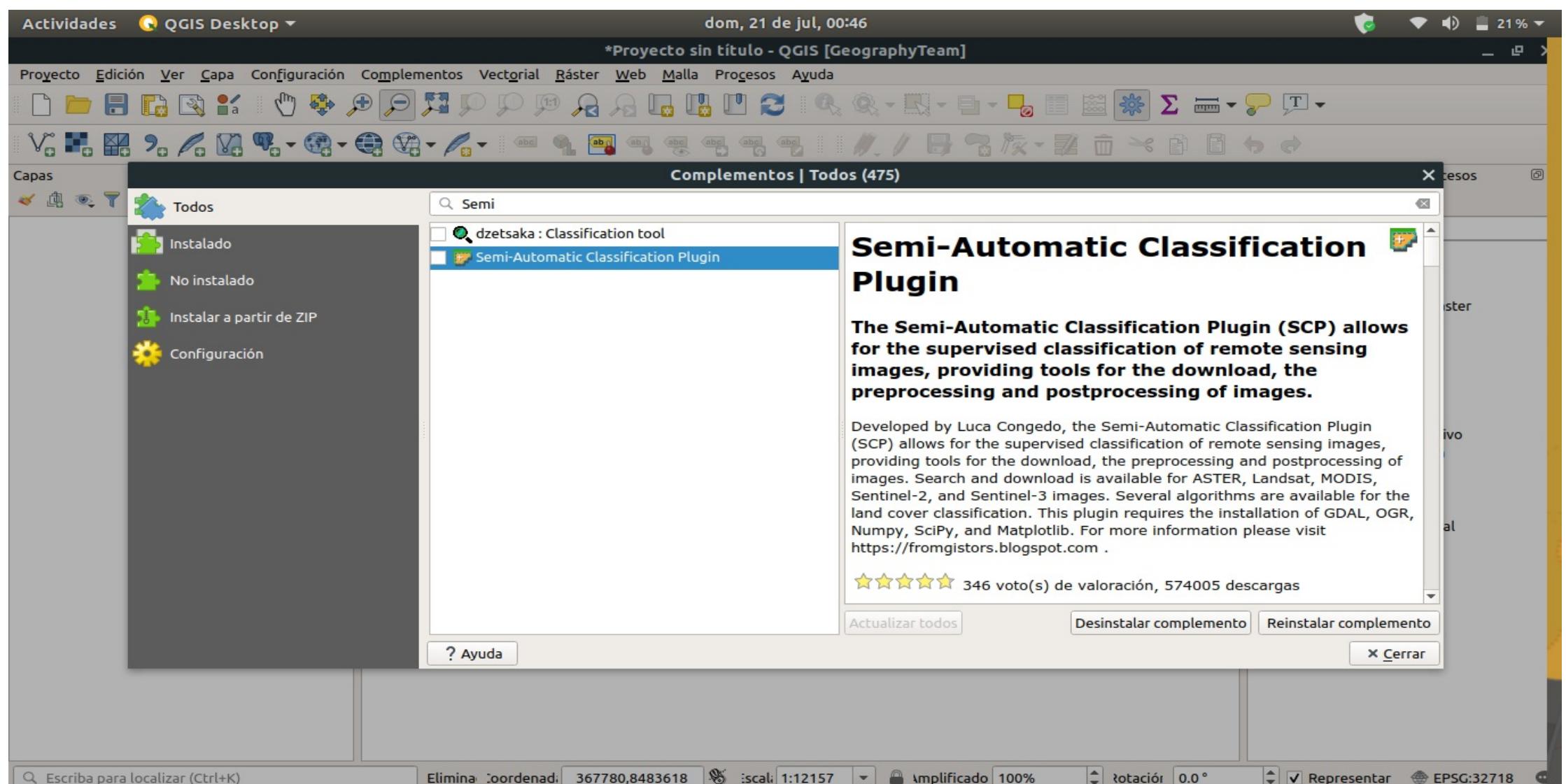
Insumos aquí aquí

Georreferenciación de imágenes satelitales

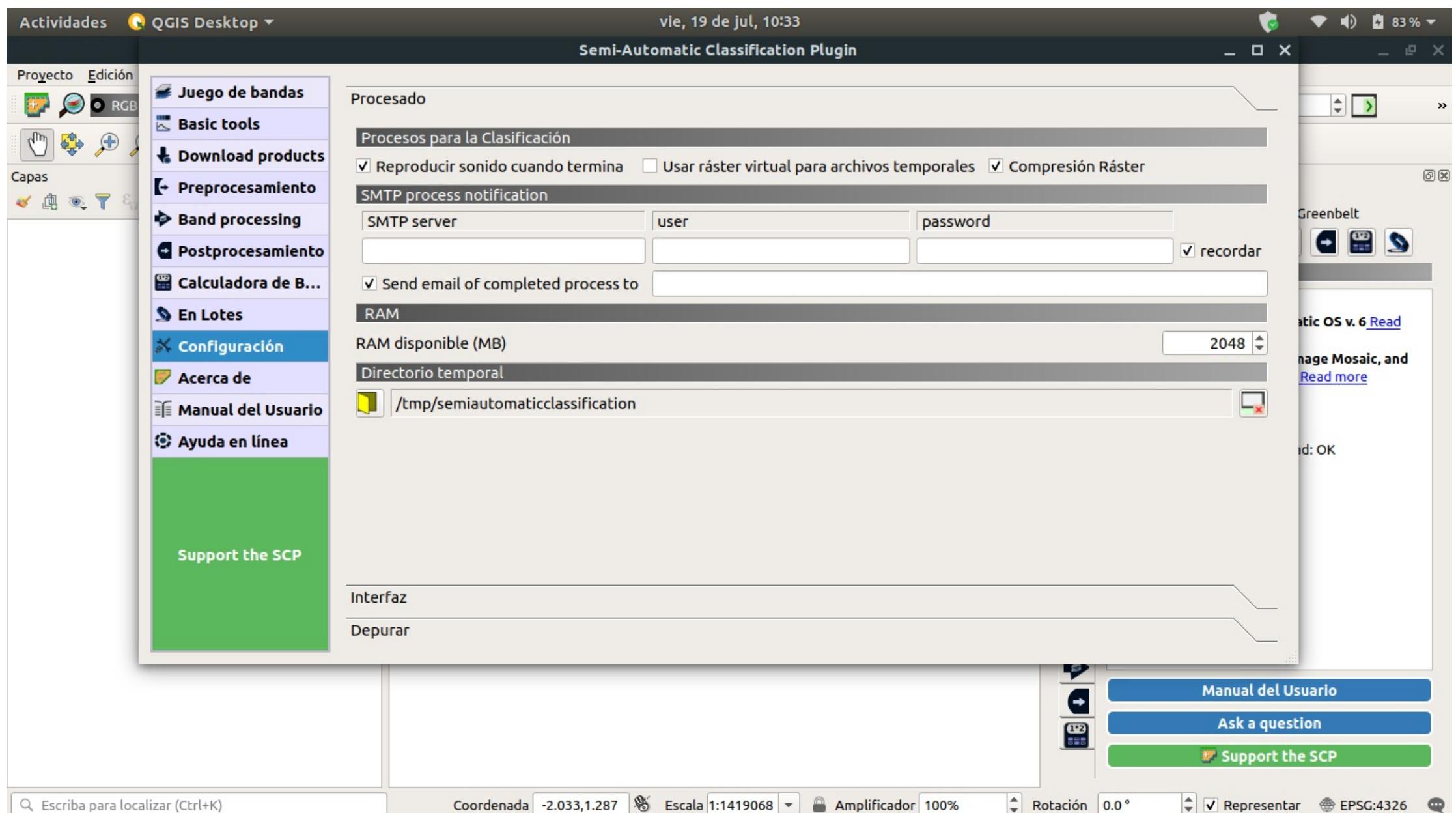


Plugins para Teledetección

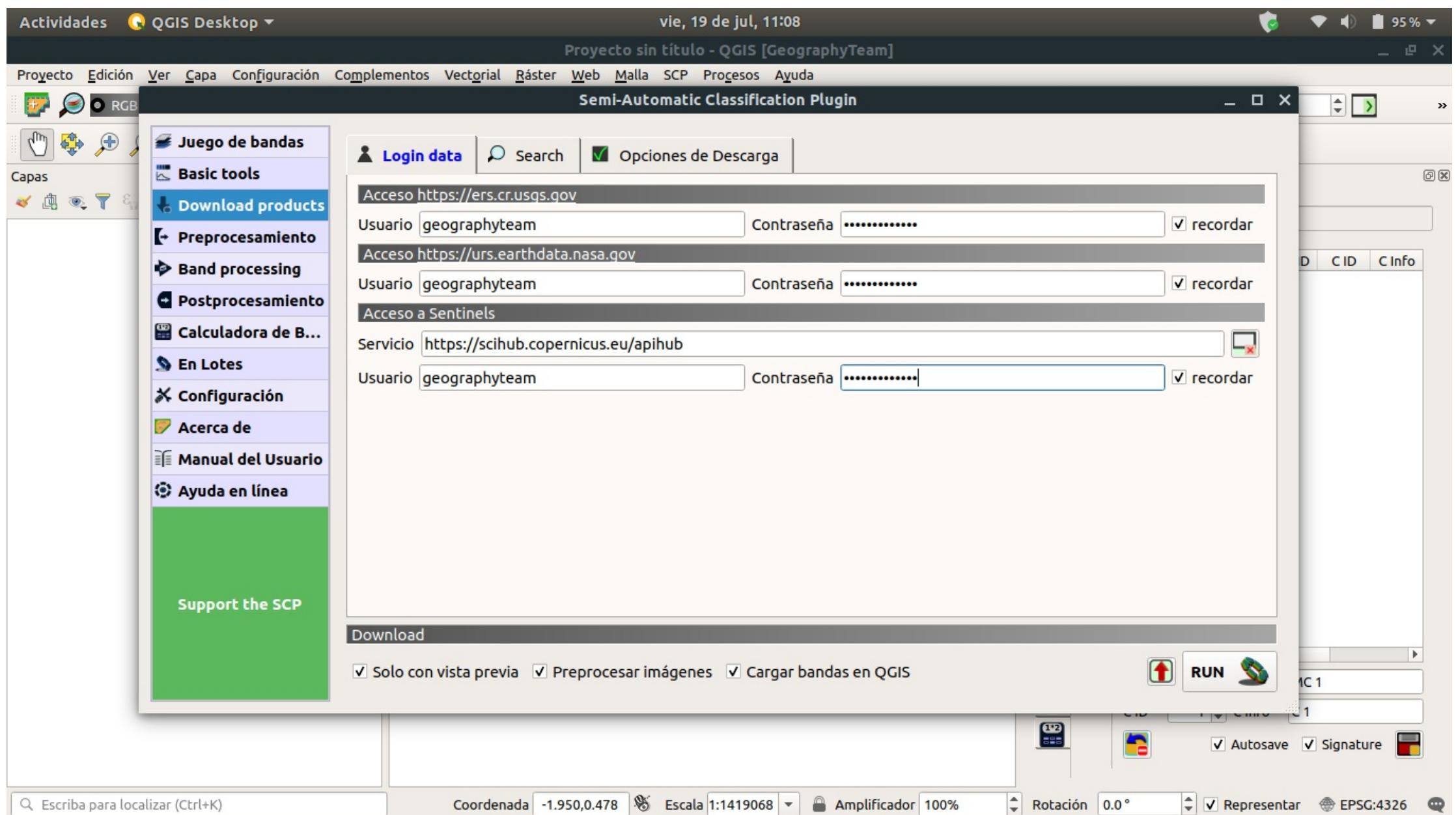
Plugin de mayor importancia: SCP



Configuración del plugin

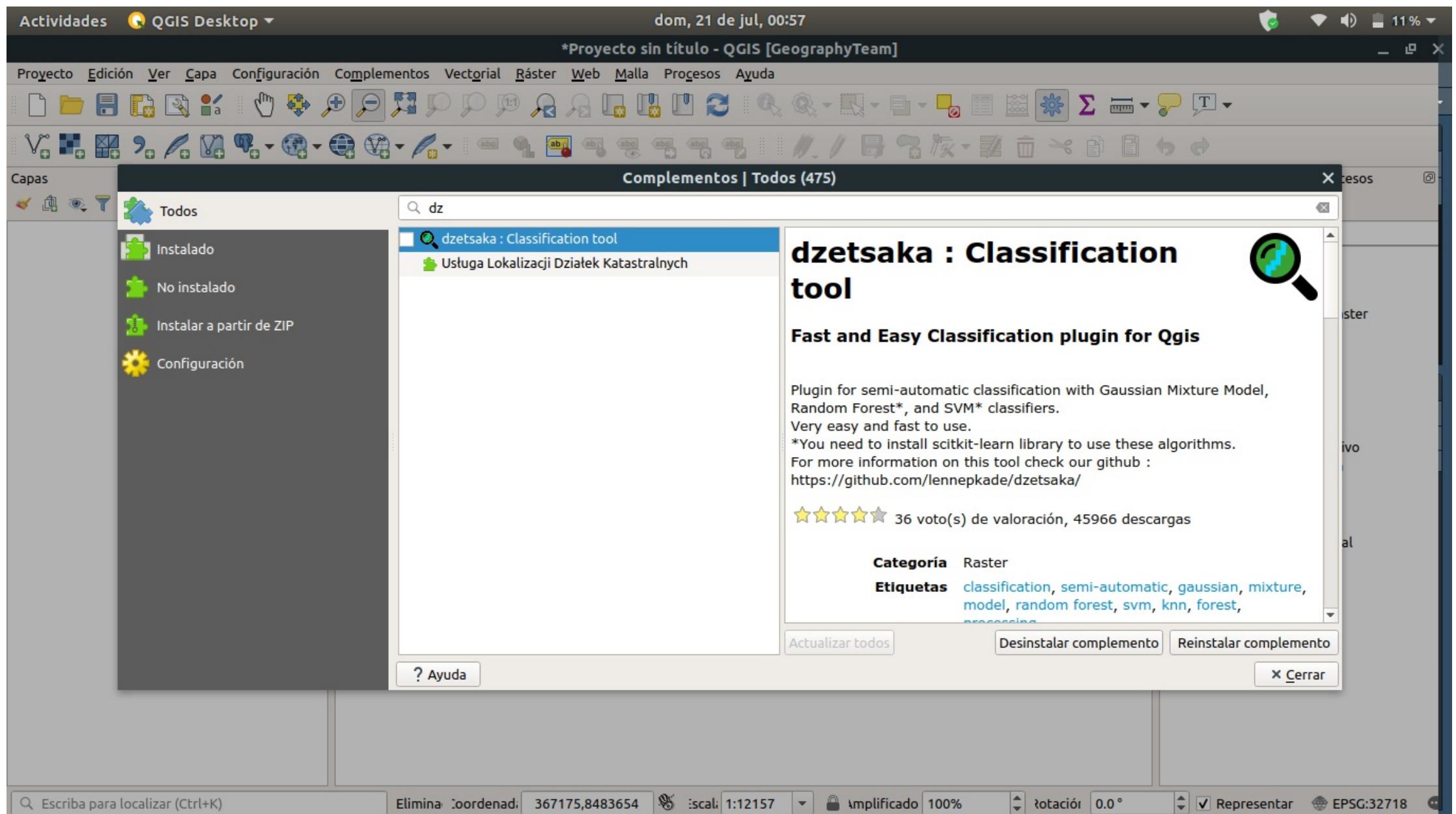


Configuración del plugin



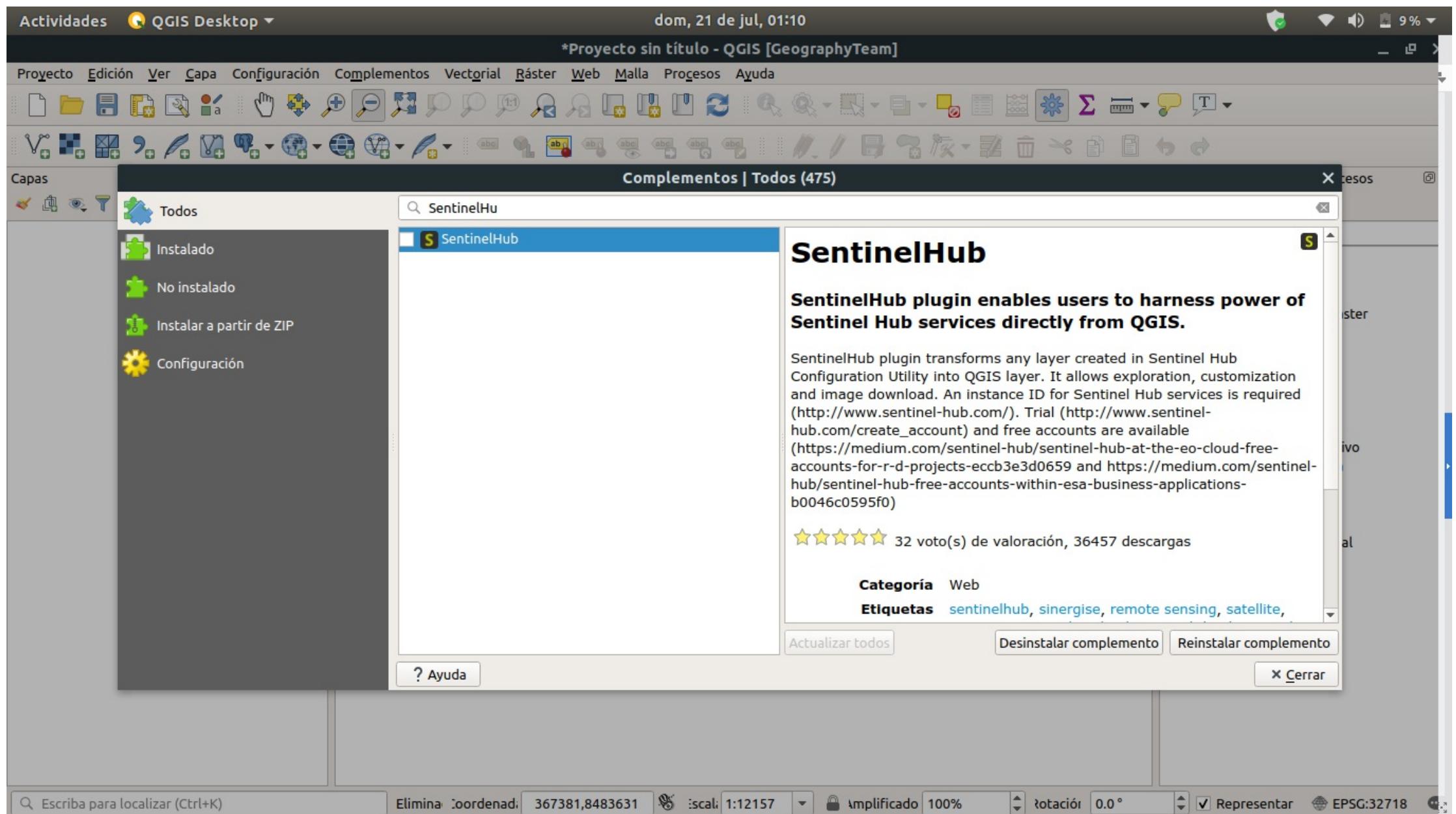
Más información aquí [aquí](#)

Otros plugins



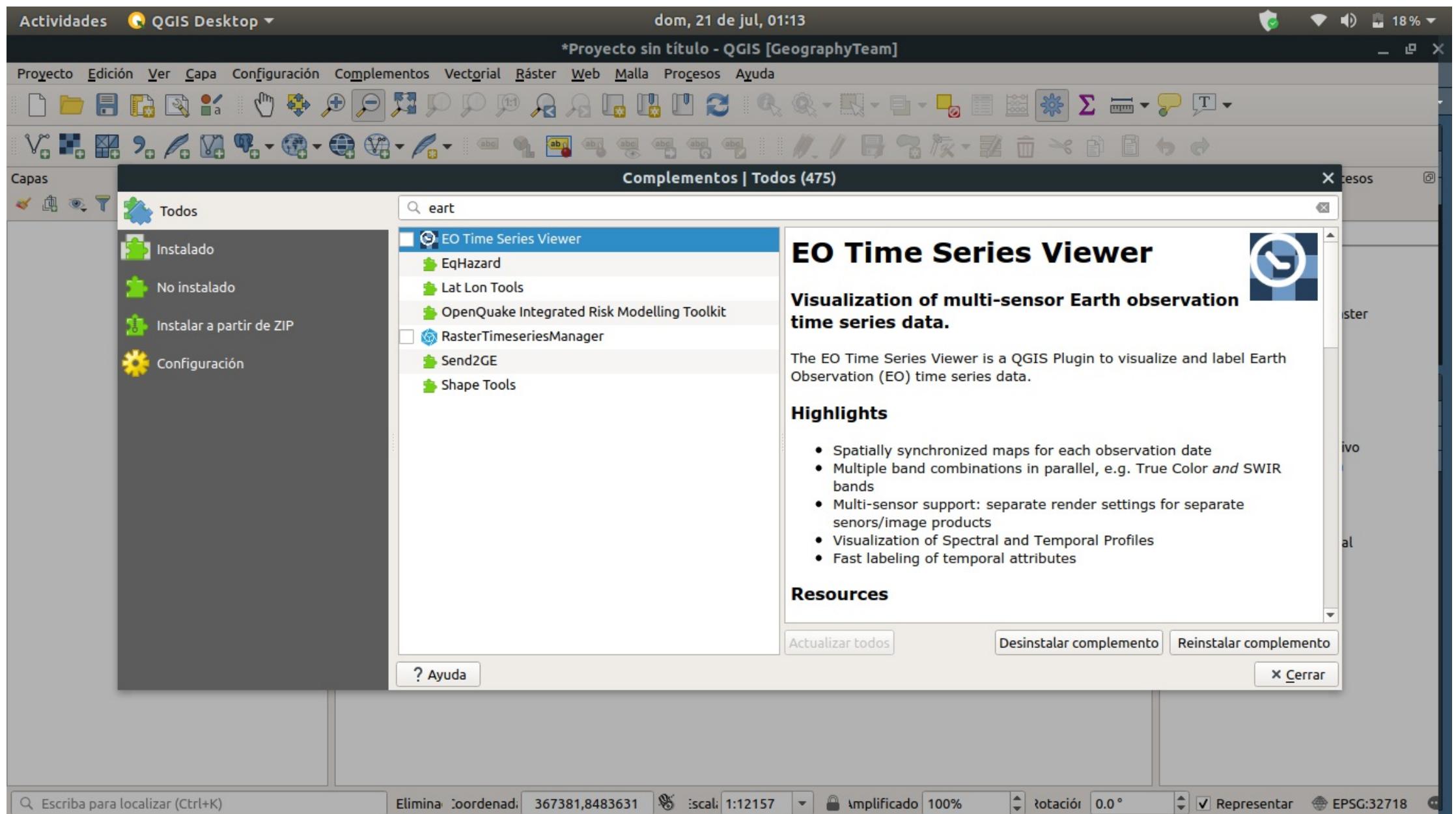
Más información [aquí](#)

Otros plugins



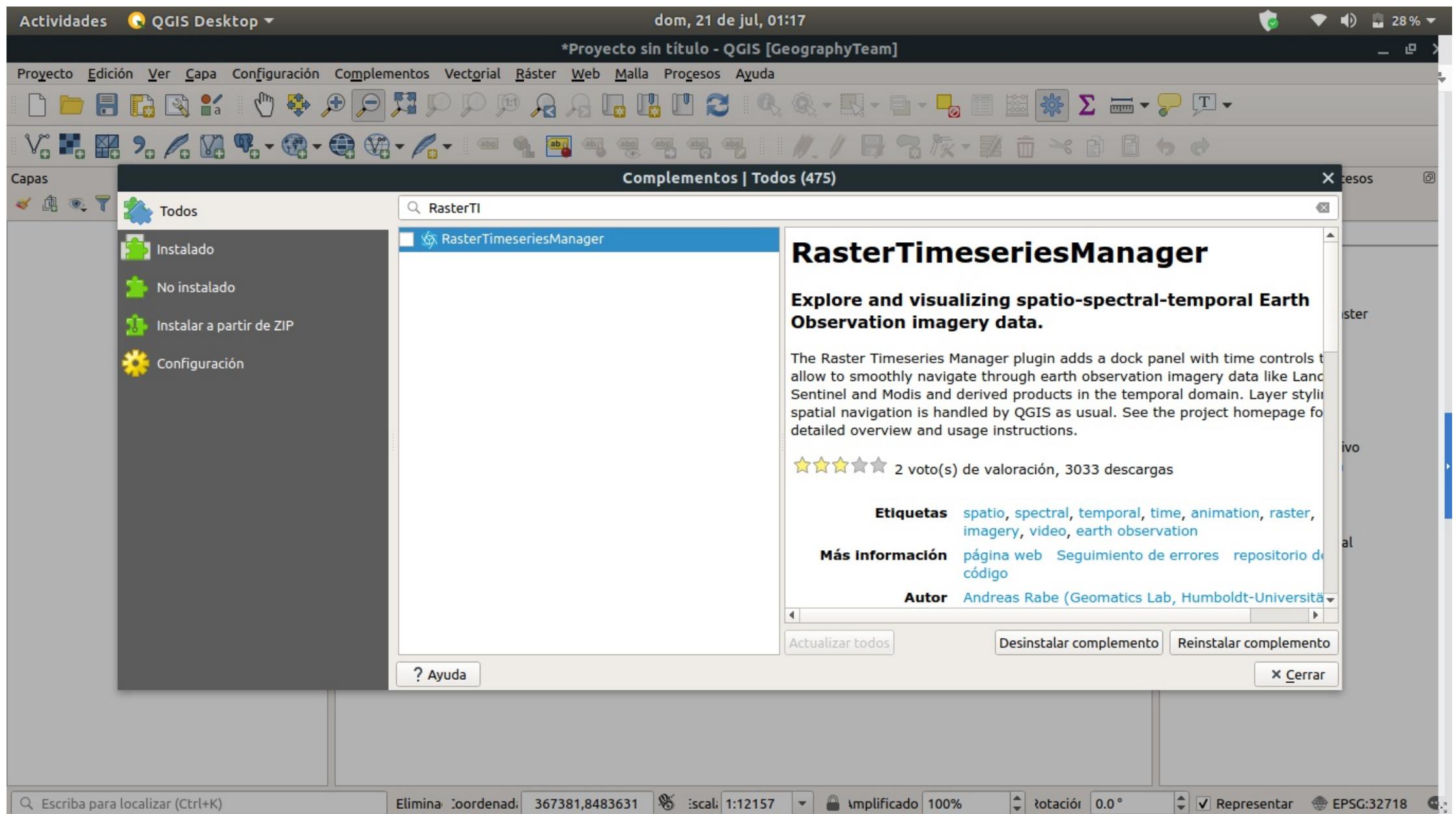
Más información [aquí](#)

Otros plugins



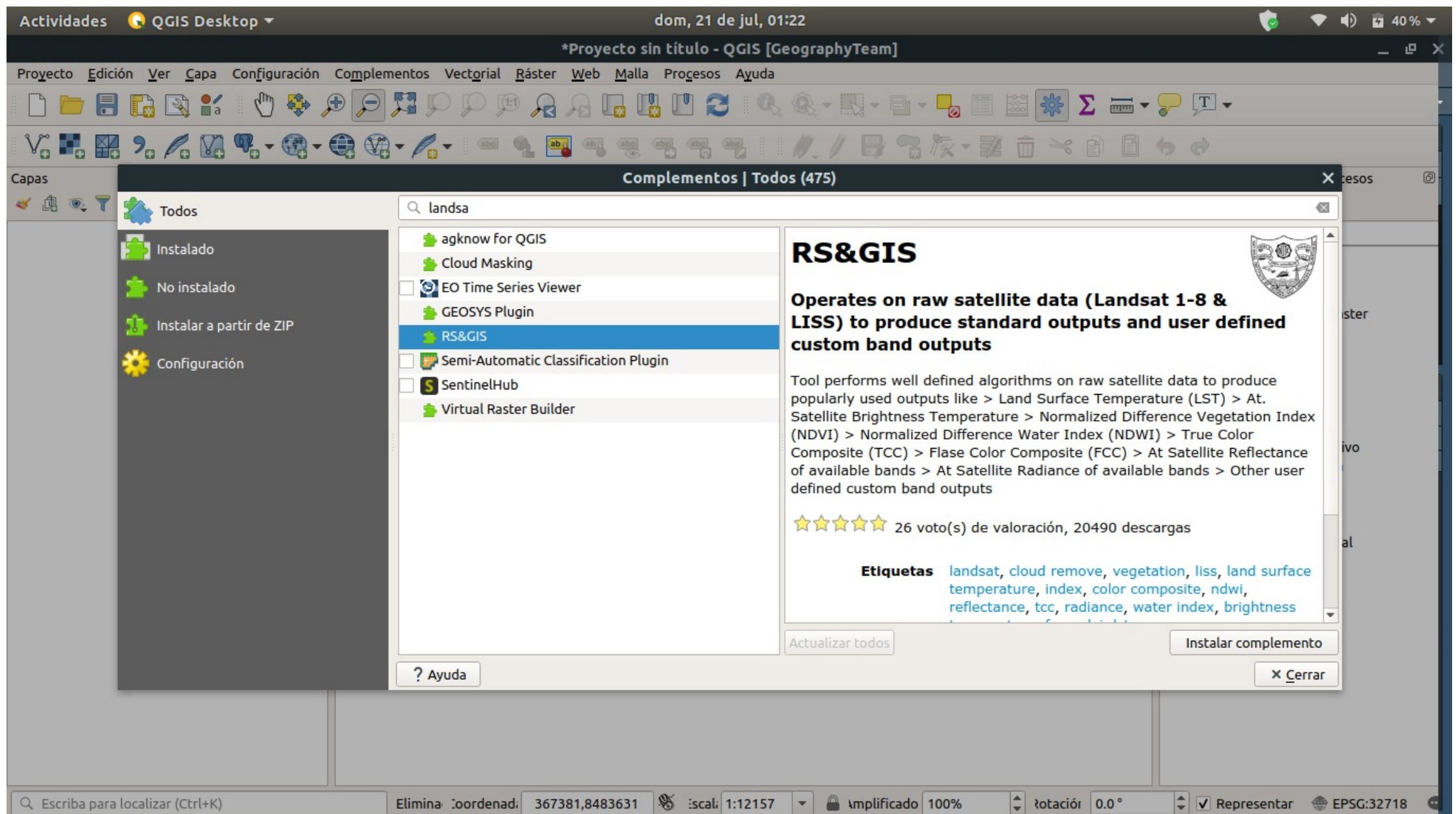
Más información [aquí](#)

Otros plugins



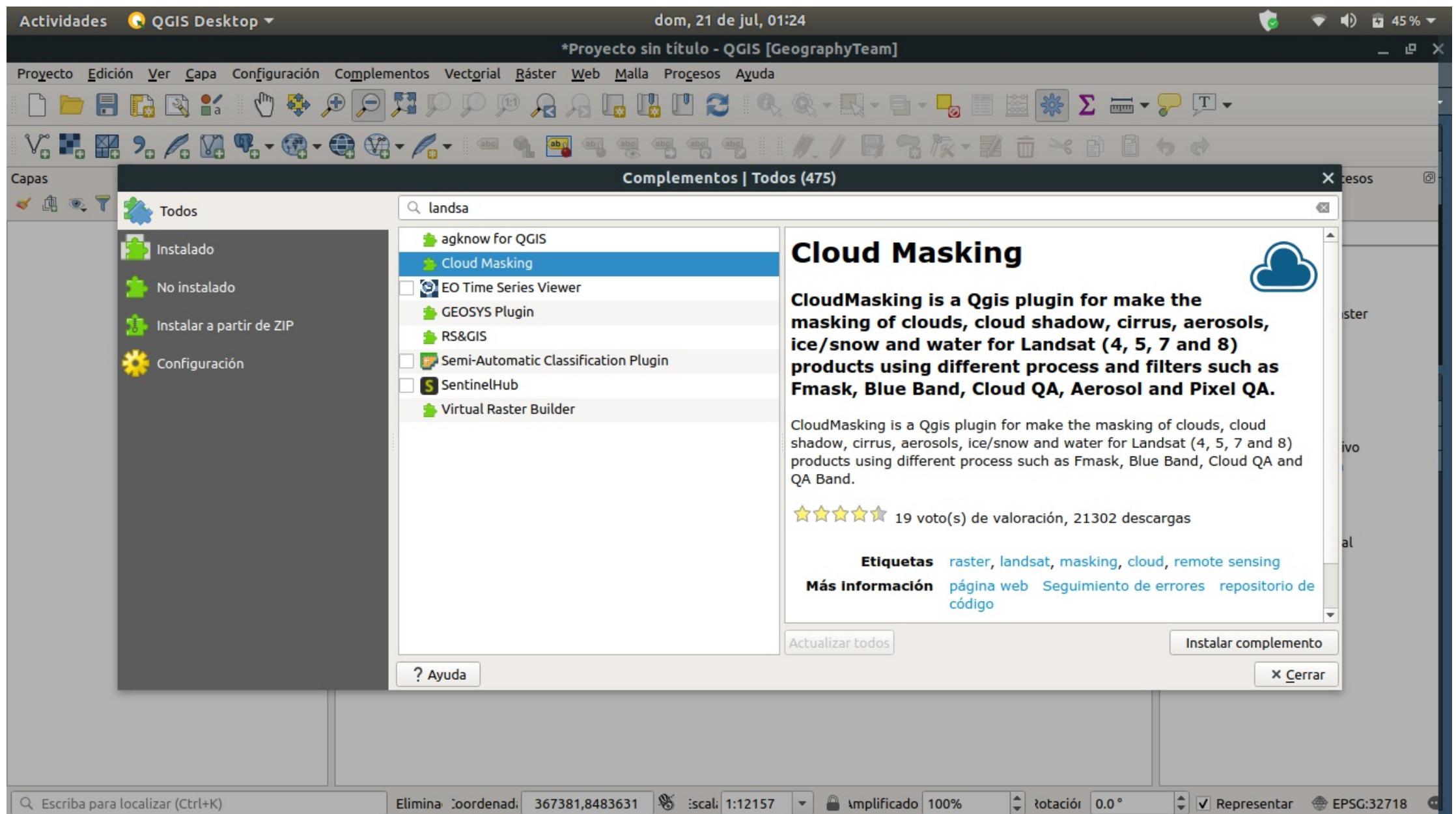
Más información aquí

Otros plugins



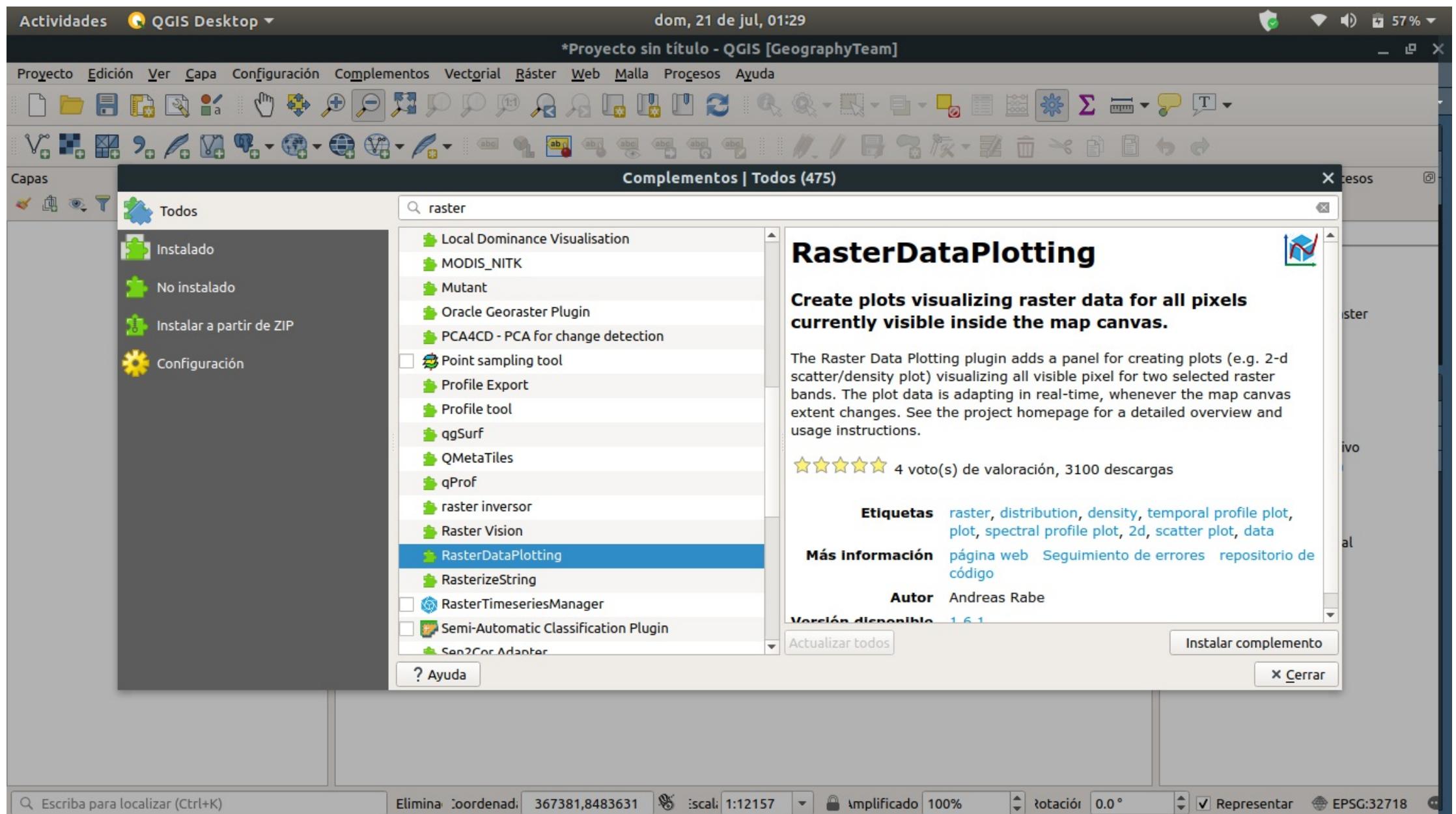
Más información [aquí](#)

Otros plugins



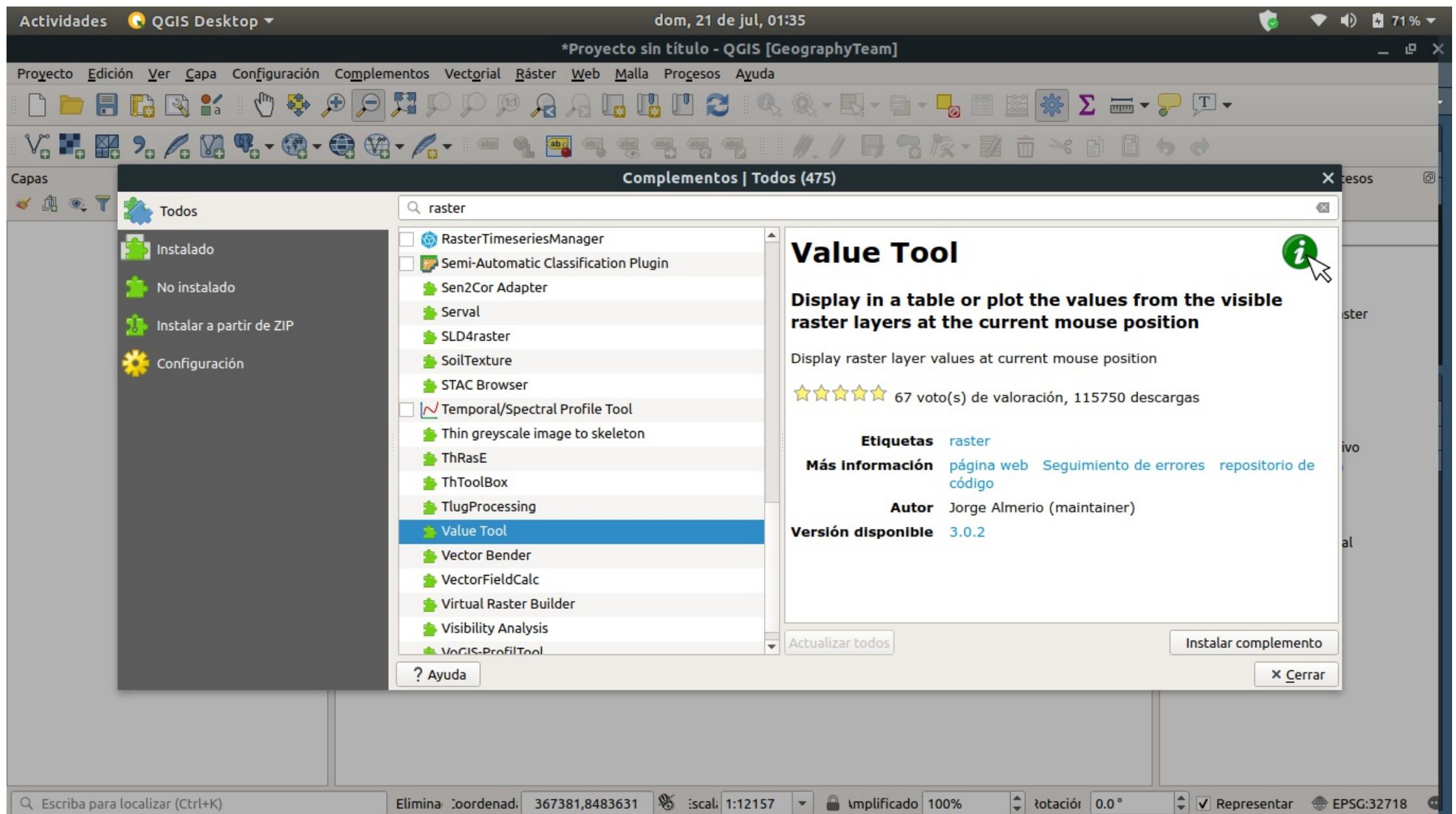
Más información aquí

Otros plugins



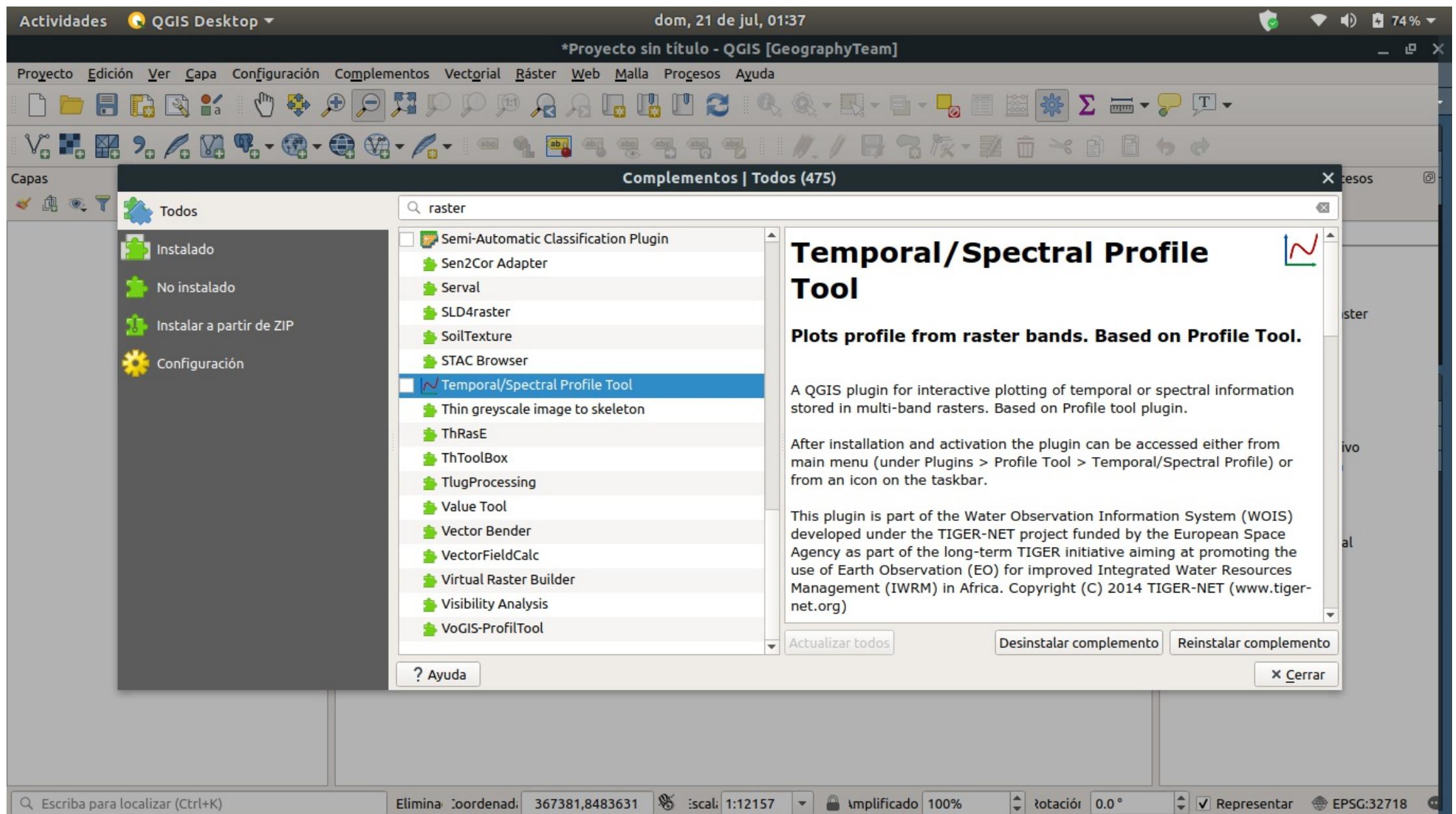
Más información [aquí](#)

Otros plugins



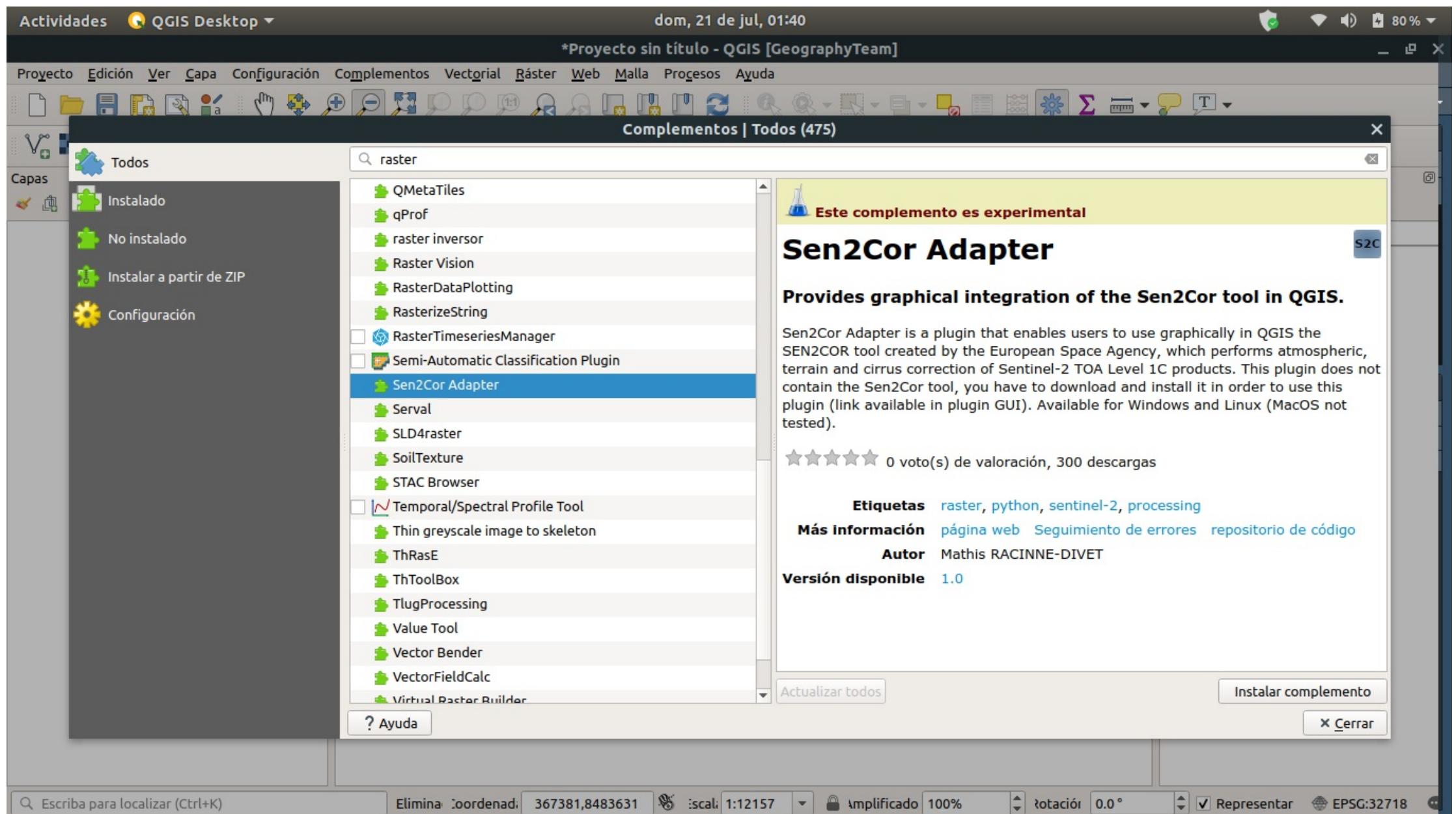
Más información [aquí](#)

Otros plugins



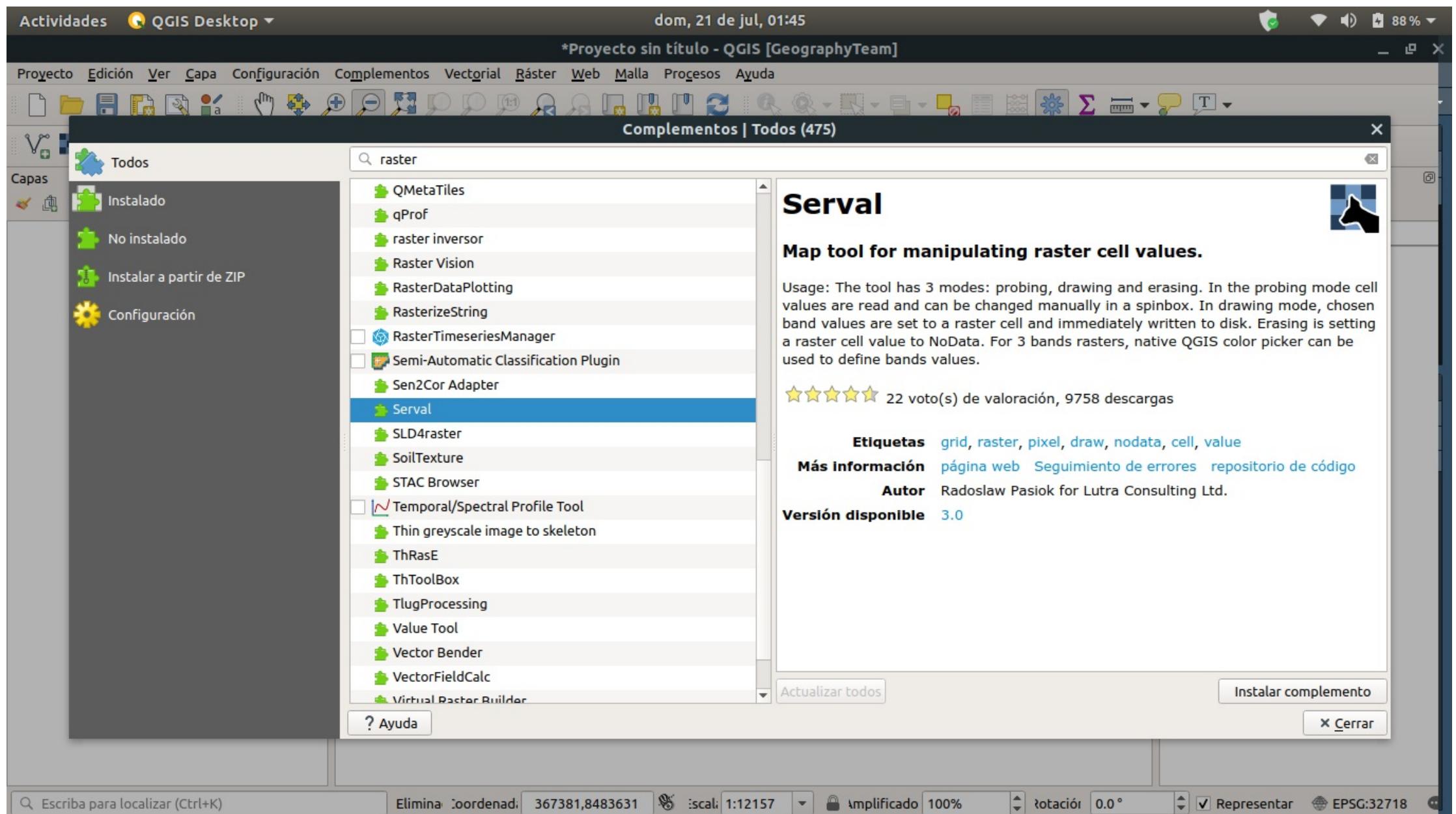
Más información [aquí](#)

Otros plugins



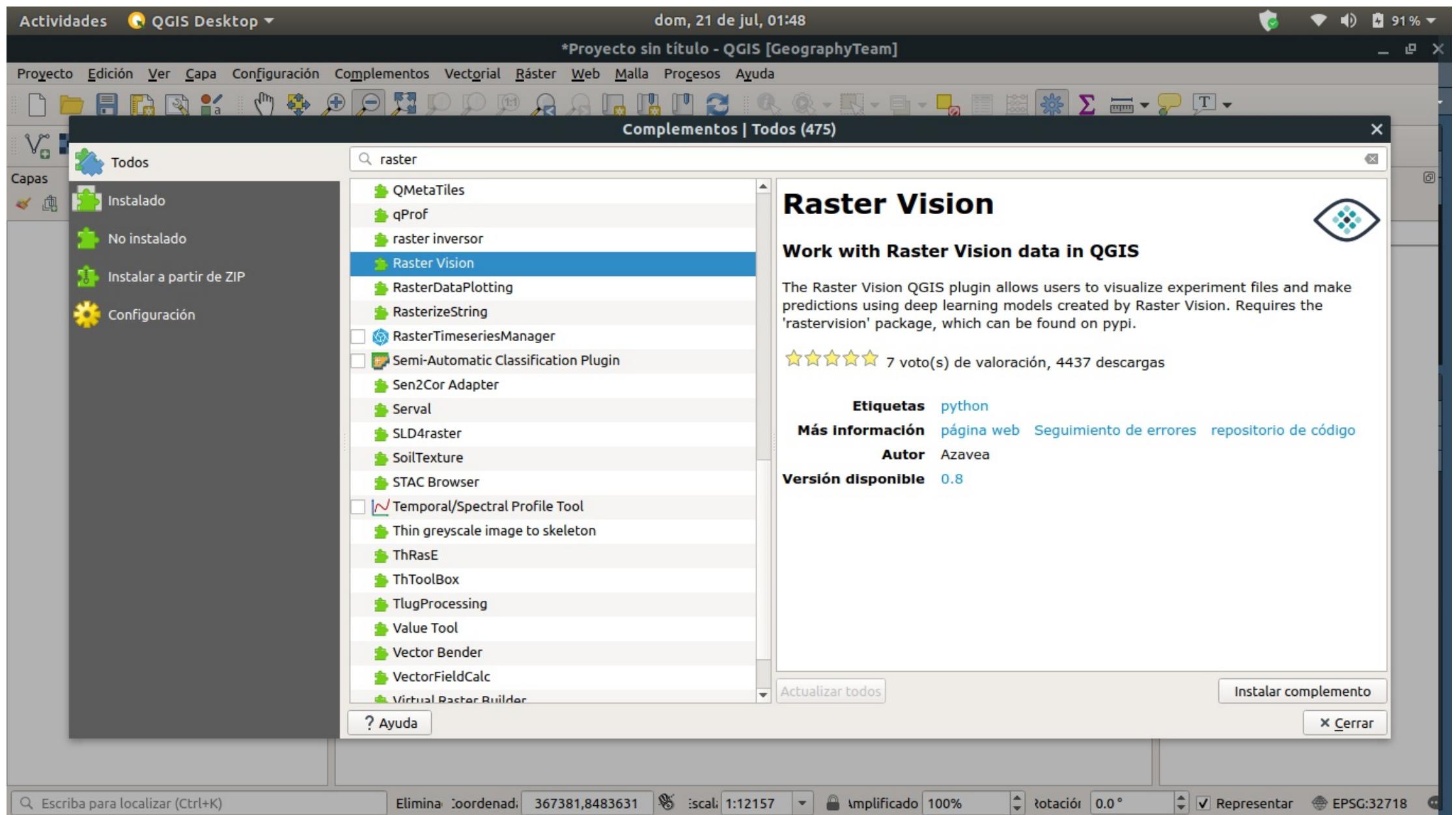
Más información aquí

Otros plugins



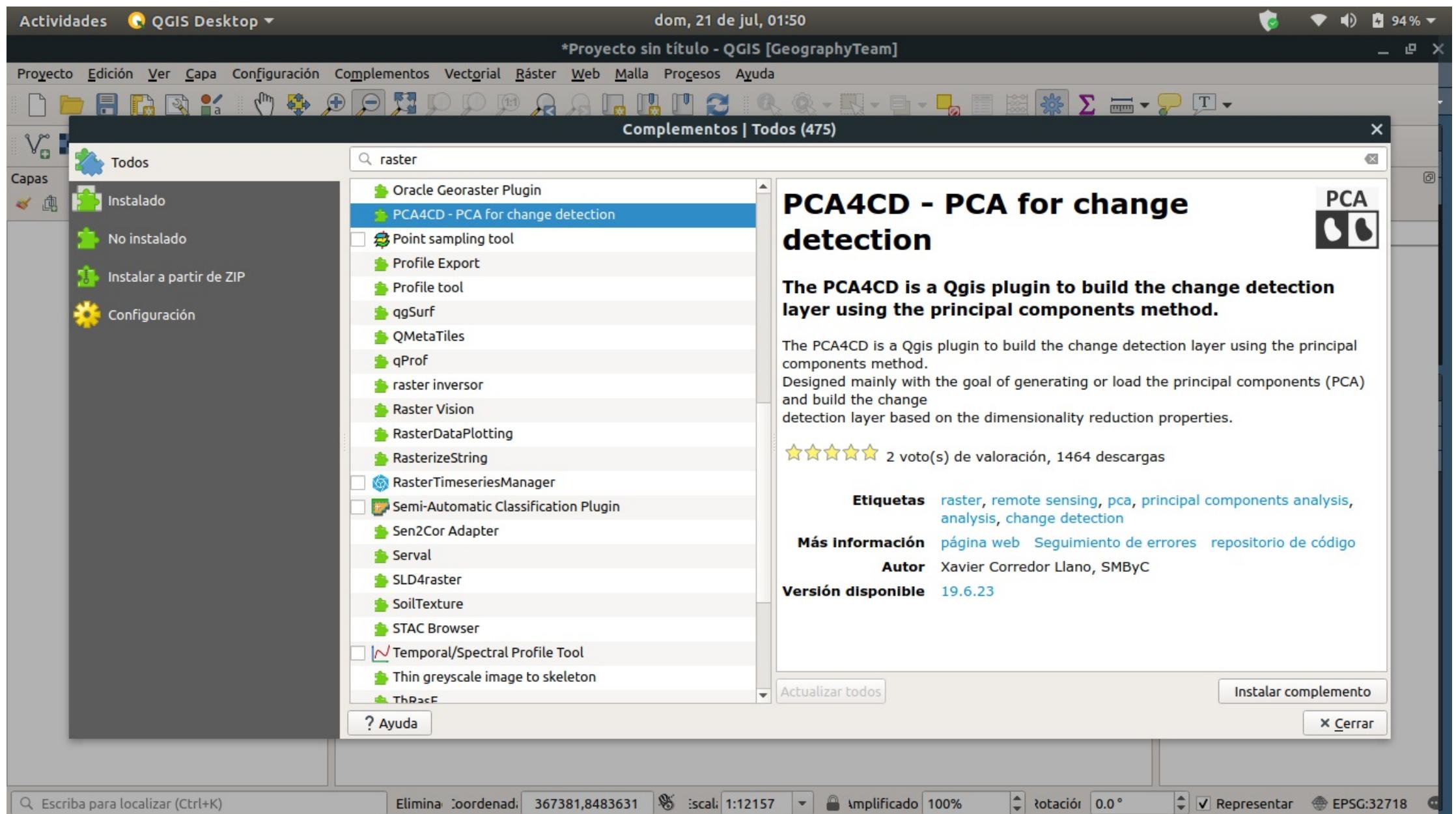
Más información aquí

Otros plugins



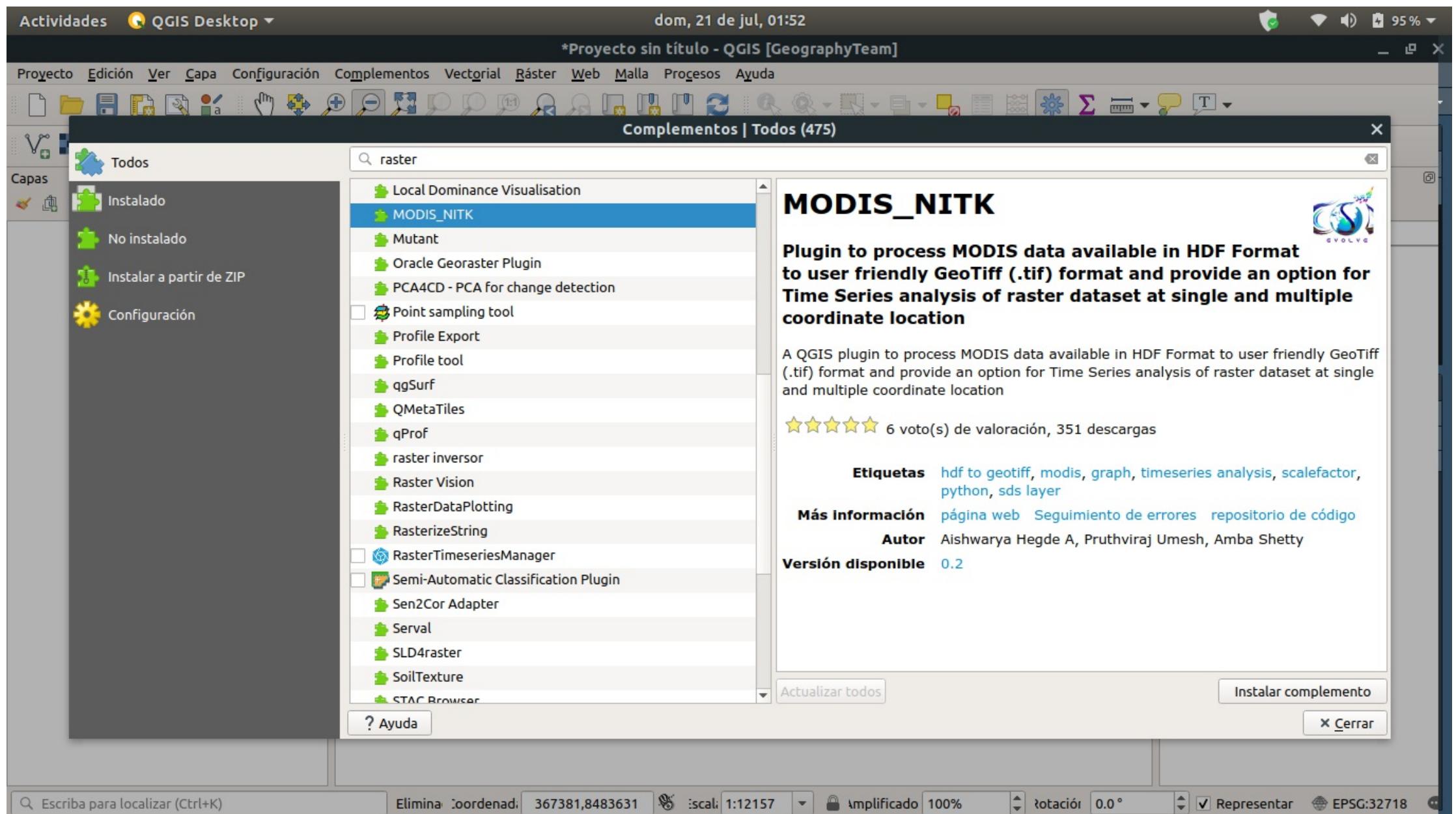
Más información [aquí](#)

Otros plugins



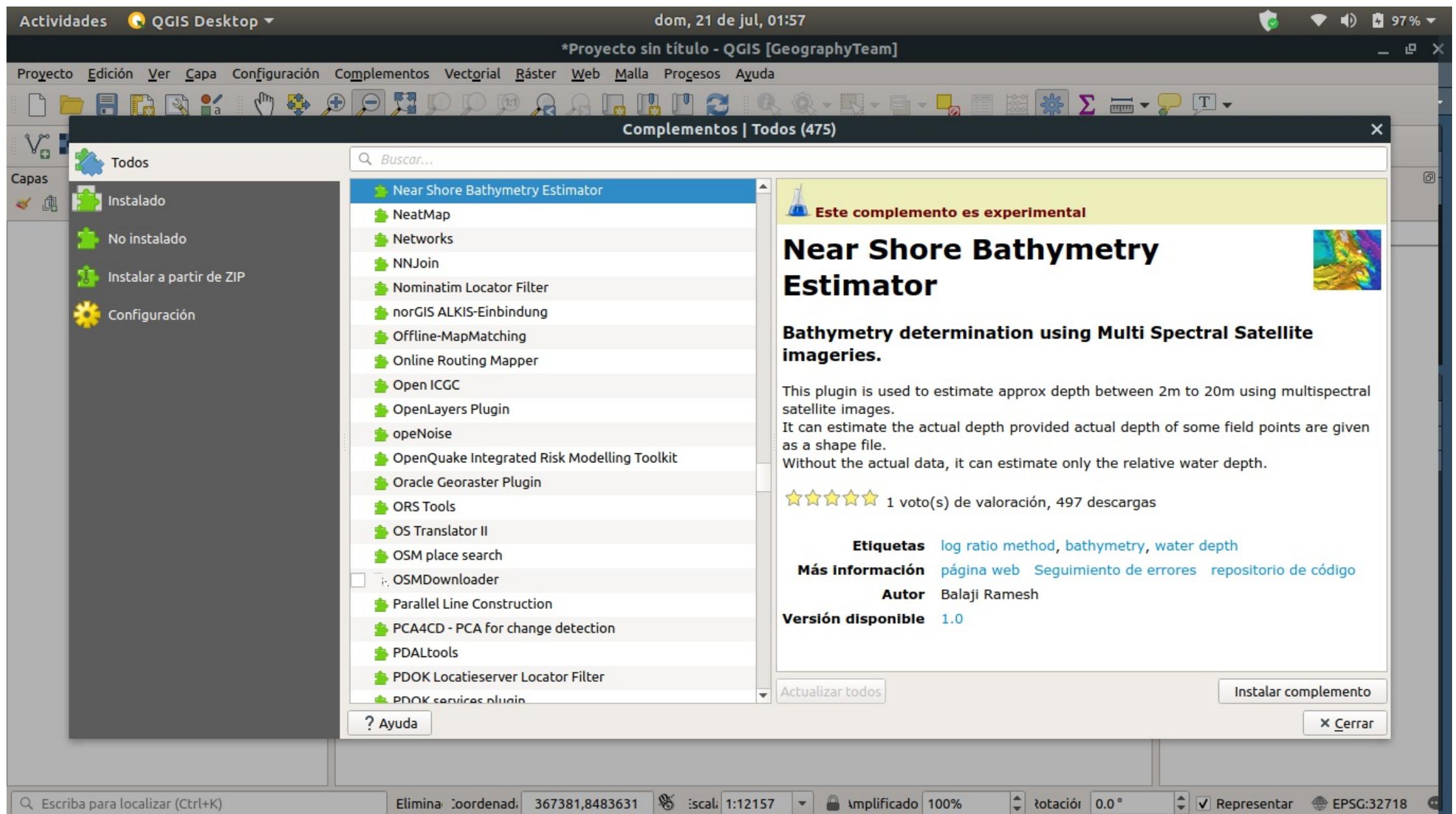
Más información [aquí](#)

Otros plugins



Más información aquí

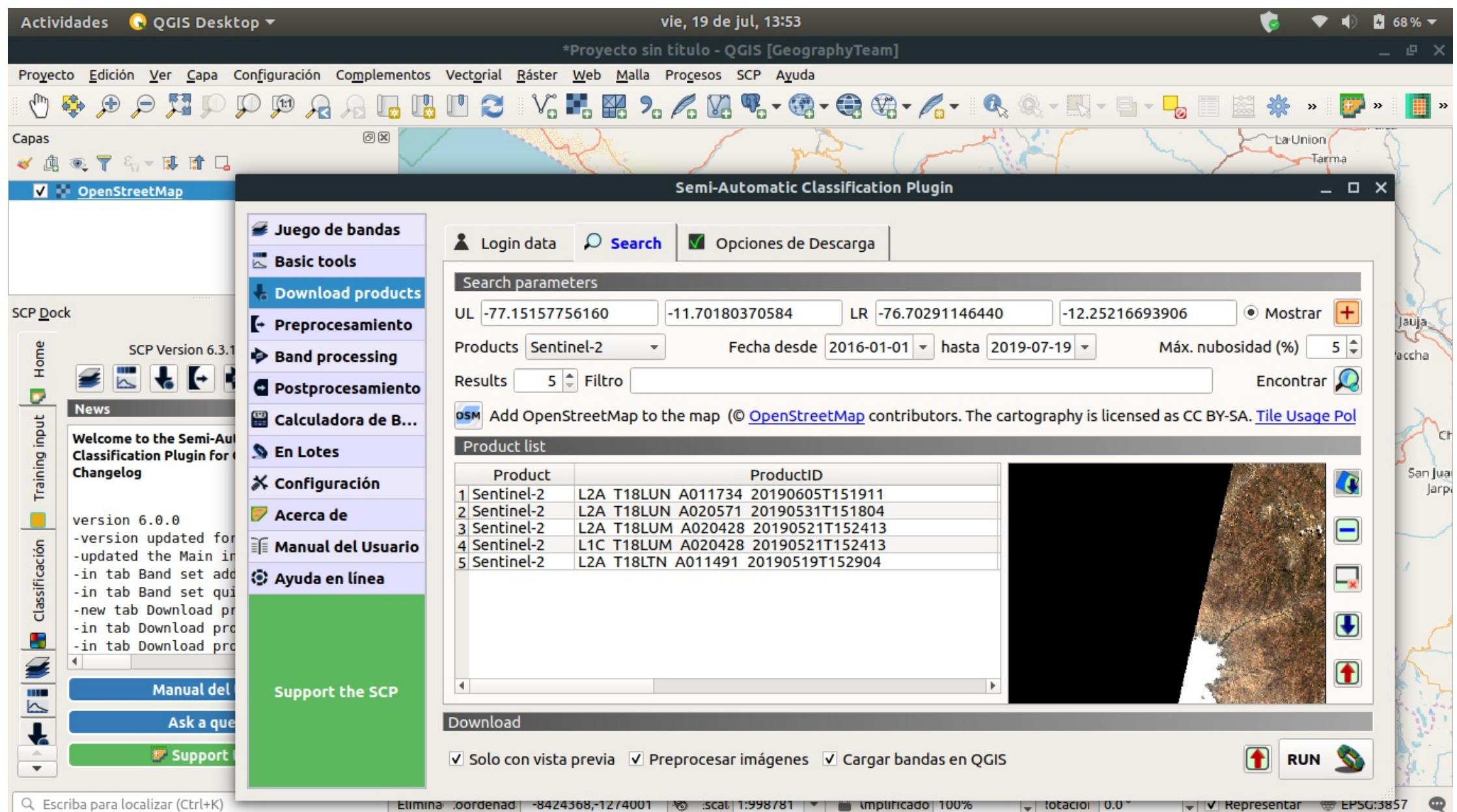
Otros plugins



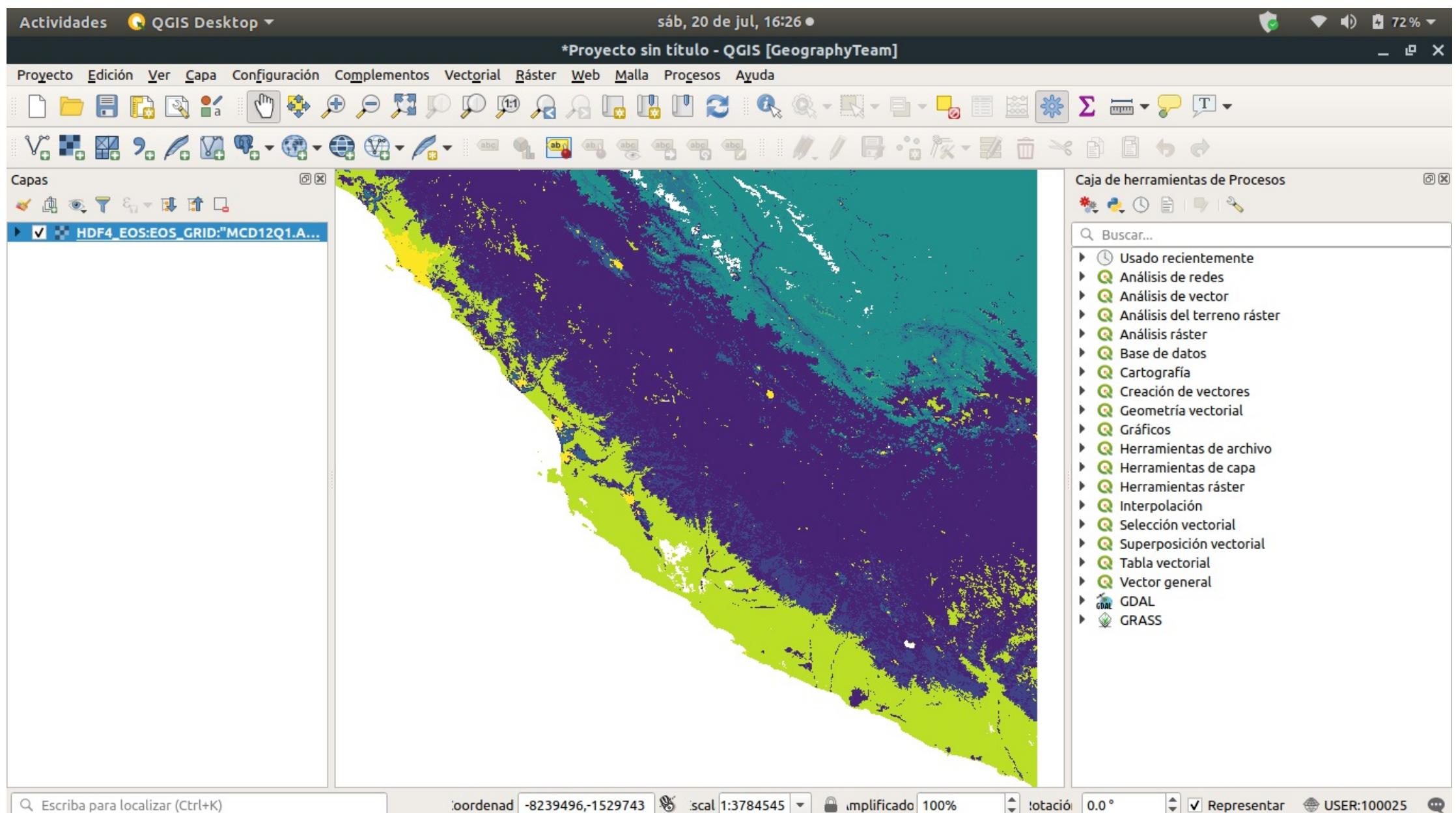
Más información aquí

Parte práctica

Ejercicios - parte II



Ejercicios - parte II



Análisis de índices espectrales

Índices espectrales

SAGA + QGIS

Qué es SAGA?

SAGA es un software de sistema de información geográfica de código abierto para el análisis de terreno, "hidrología" y "teledetección".

Actualmente forma parte del ecosistema de QGIS y R.

Observación: El paquete para trabajar SAGA en R se llama RSAGA

Más información aquí

System for Automated Geoscientific Analyses (SAGA) v. 2.1.4

O. Conrad¹, B. Bechtel¹, M. Bock^{1,2}, H. Dietrich¹, E. Fischer¹, L. Gerlitz¹, J. Wehberg¹, V. Wichmann^{3,4}, and J. Böhner¹

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Received: 12 December 2014 – Published in Geosci. Model Dev. Discuss.: 27 February 2015

Revised: 05 June 2015 – Accepted: 08 June 2015 – Published: 07 July 2015

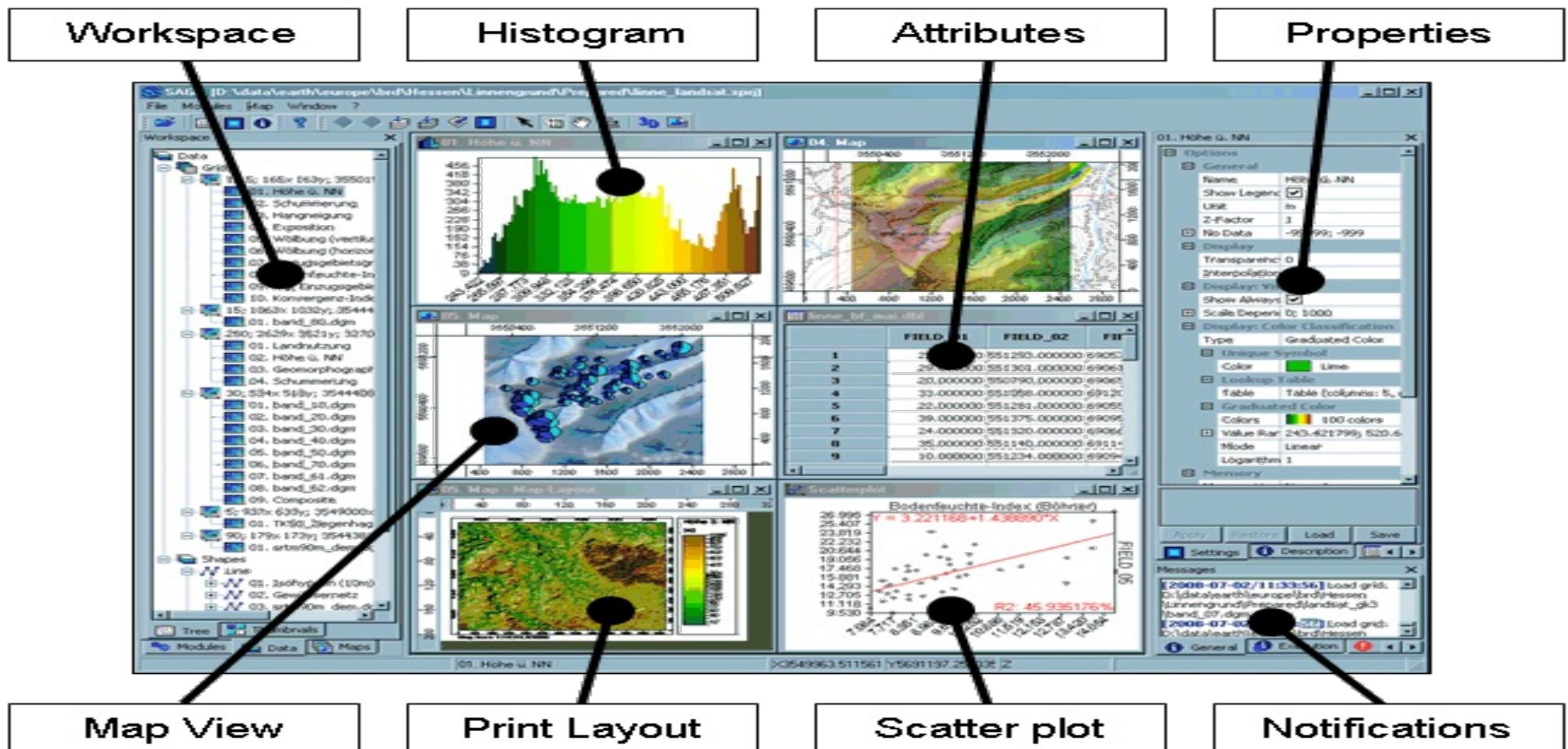
Abstract. The System for Automated Geoscientific Analyses (SAGA) is an open source geographic information system (GIS), mainly licensed under the GNU General Public License. Since its first release in 2004, SAGA has rapidly developed from a specialized tool for digital terrain analysis to a comprehensive and globally established GIS platform for scientific analysis and modeling. SAGA is coded in C++ in an object oriented design and runs under several operating systems including Windows and Linux. Key functional features of the modular software architecture comprise an application programming interface for the development and implementation of new geoscientific methods, a user friendly graphical user interface with many visualiza-

1 Introduction

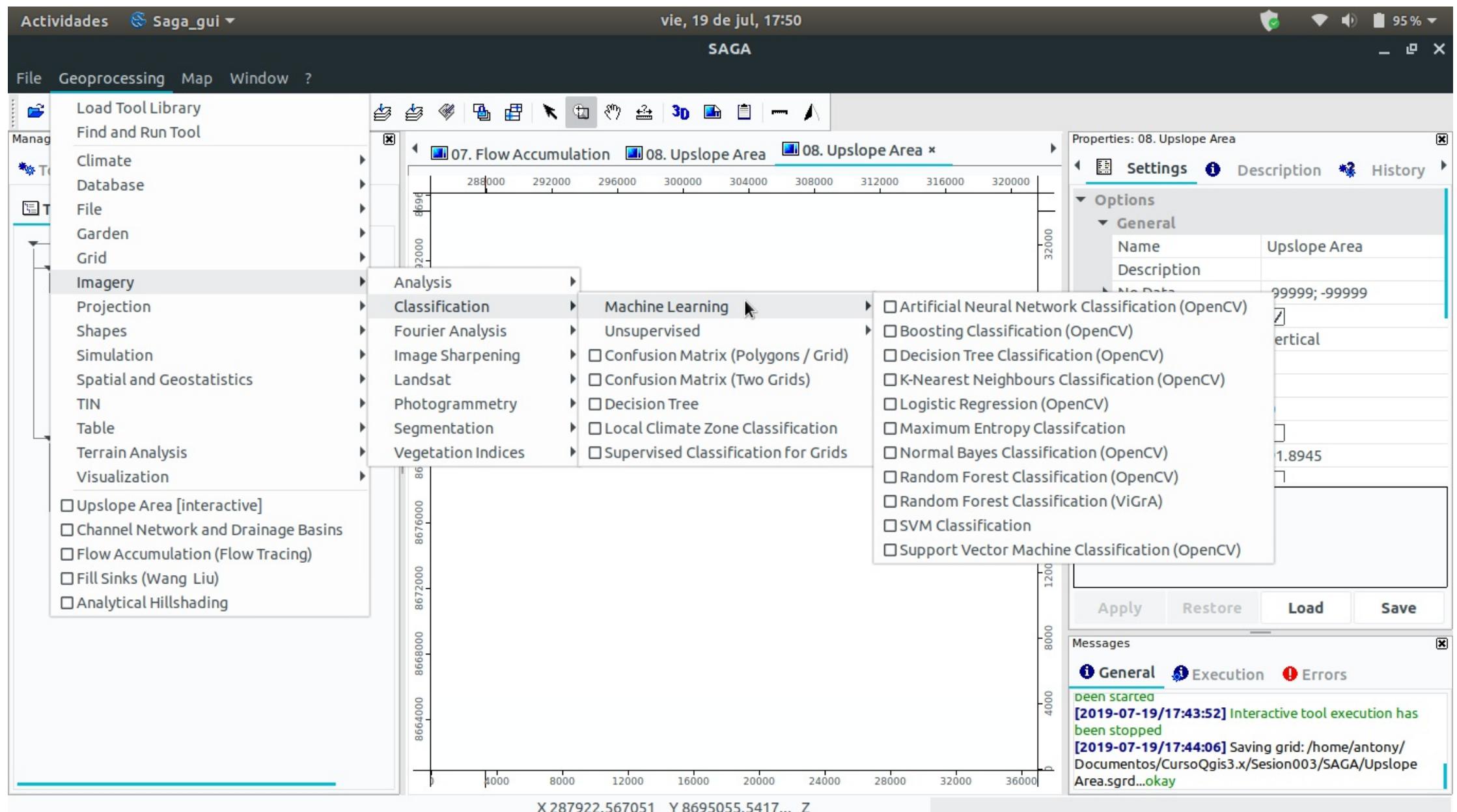
During the last 10 to 15 years, free and open source software (FOSS) became a recognized counterpart to commercial solutions in the field of geographic information systems and science. Steiniger and Bocher (2009) give an overview of free and open source geographic information system (GIS) software with a focus on desktop solutions. More recently, Bivand (2014) discussed FOSS for geocomputation. The System for Automated Geoscientific Analyses (SAGA) (<http://saga-gis.org>), the subject of this paper, is one of the recognized developments in this field.

SAGA has been designed for an accurate and effective analysis of spatial data.

GUI SAGA

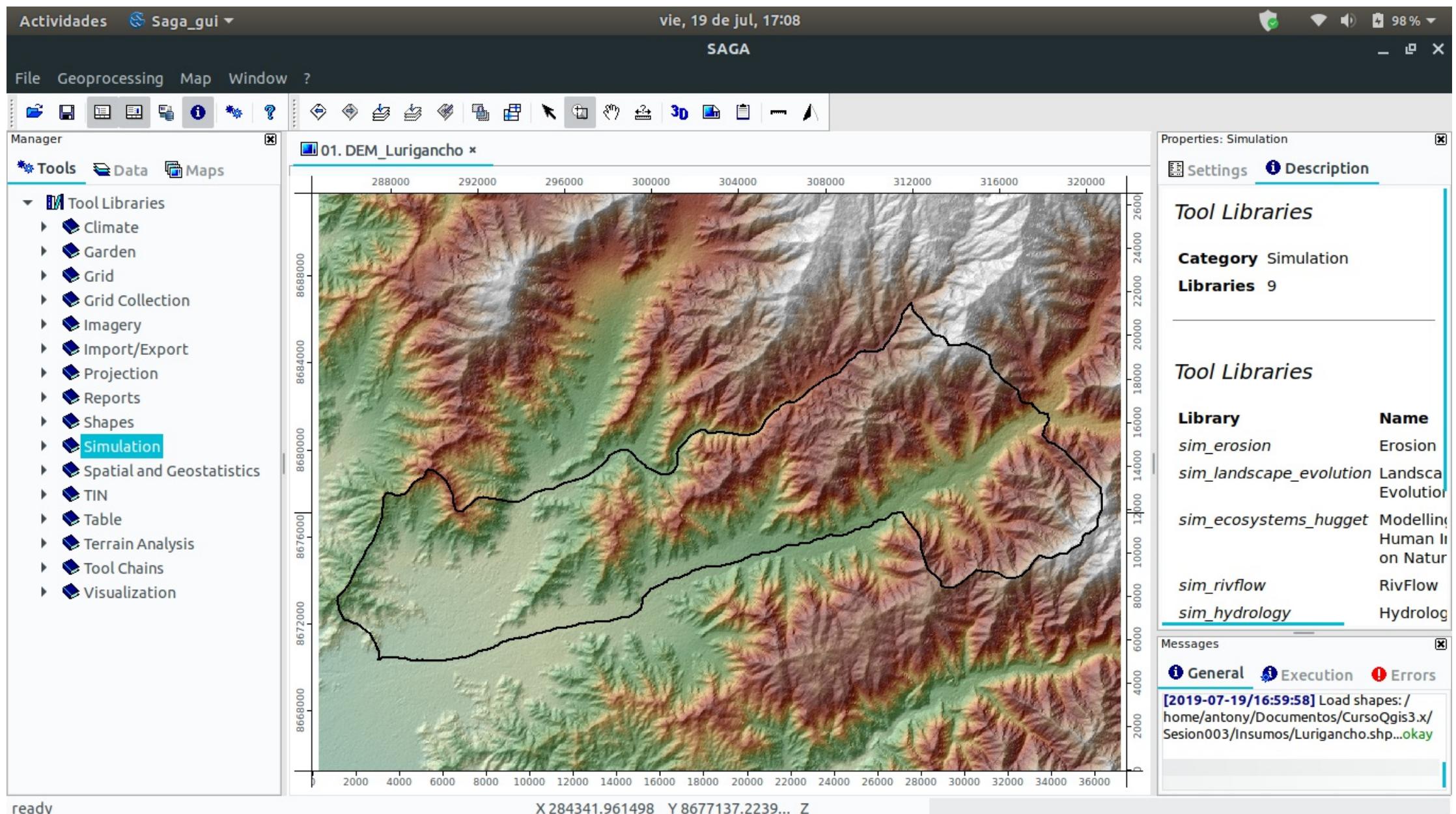


ALGORITMOS DE SAGA

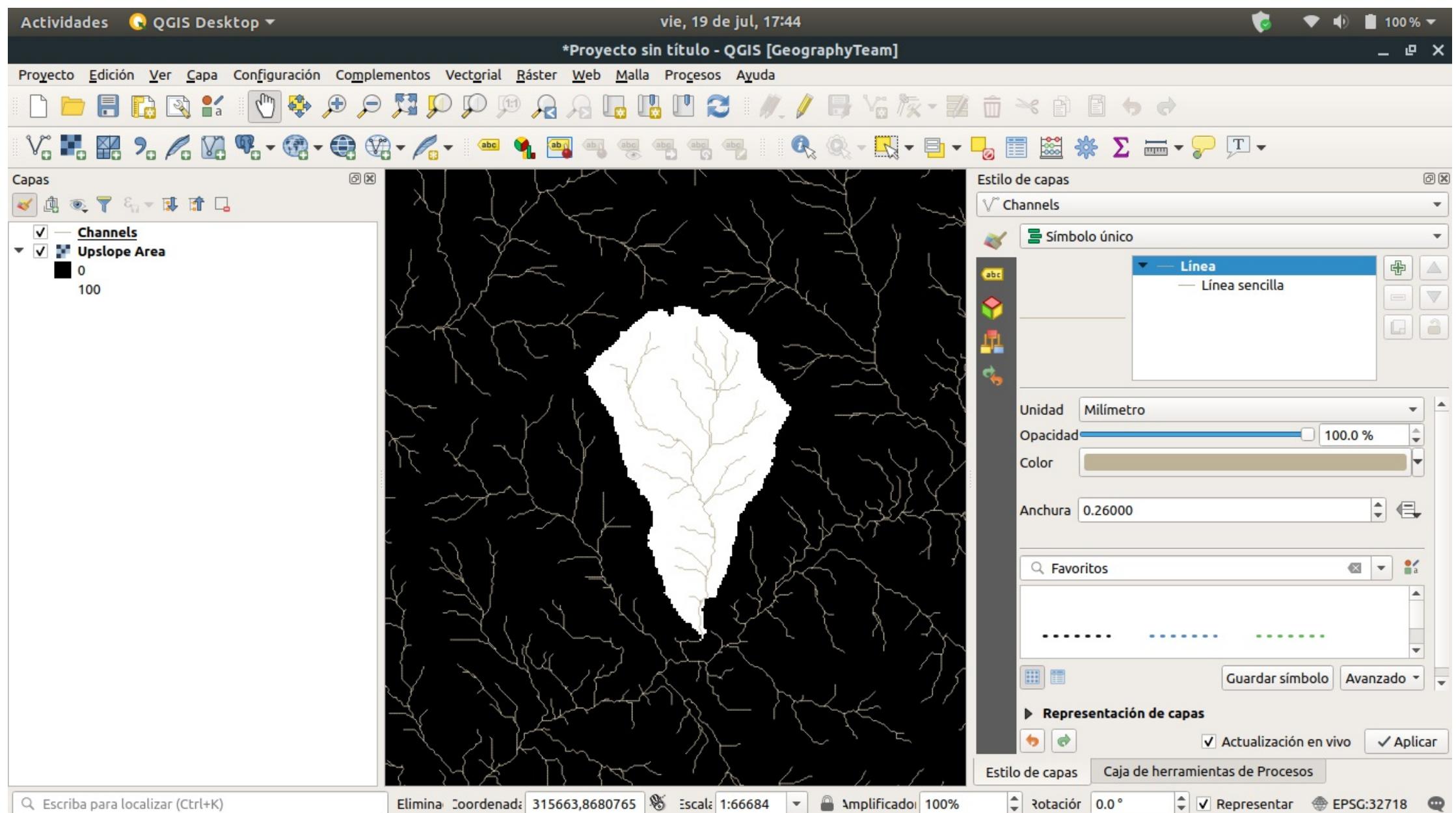


Parte práctica

Ejercicio parte III

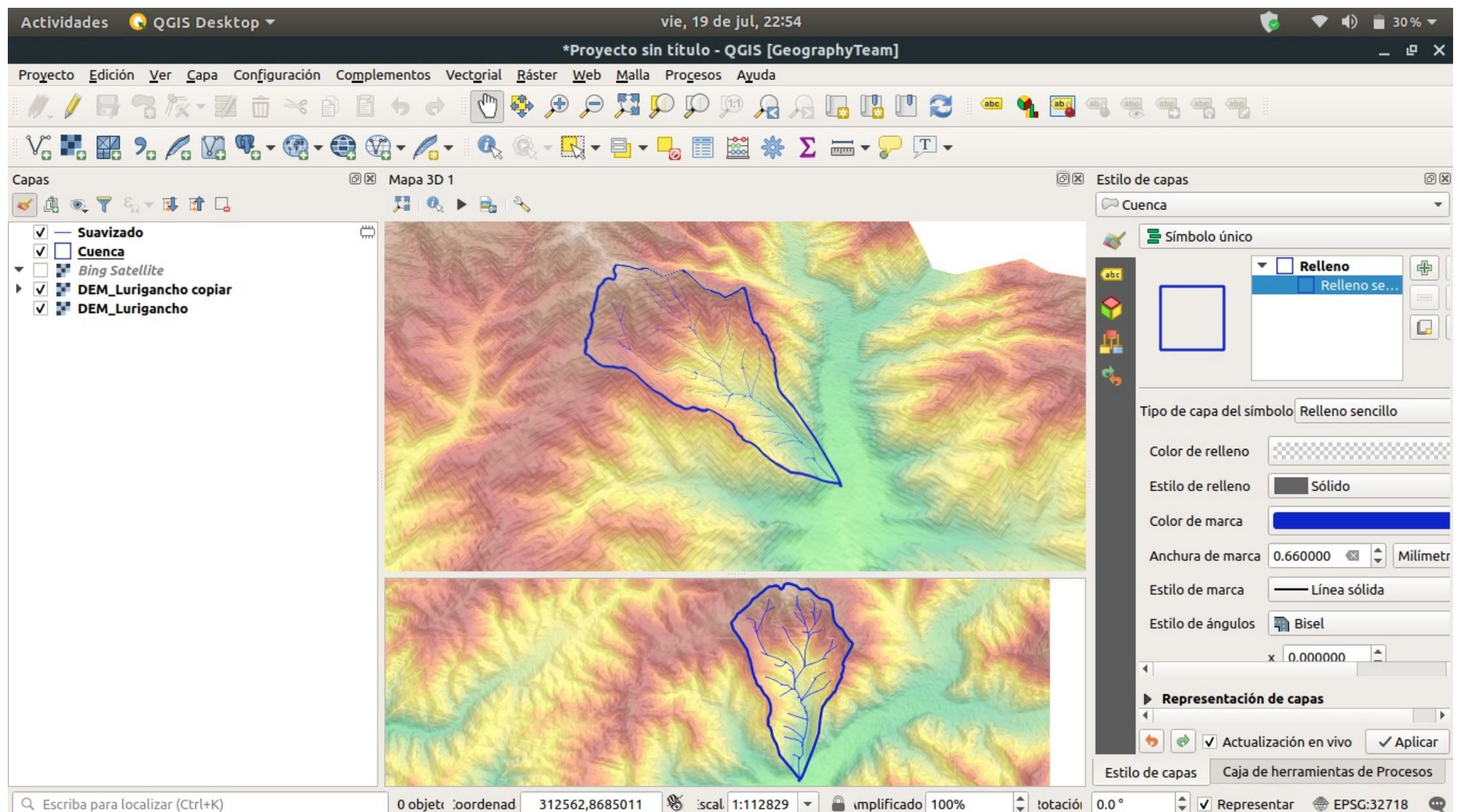


Ejercicio parte III

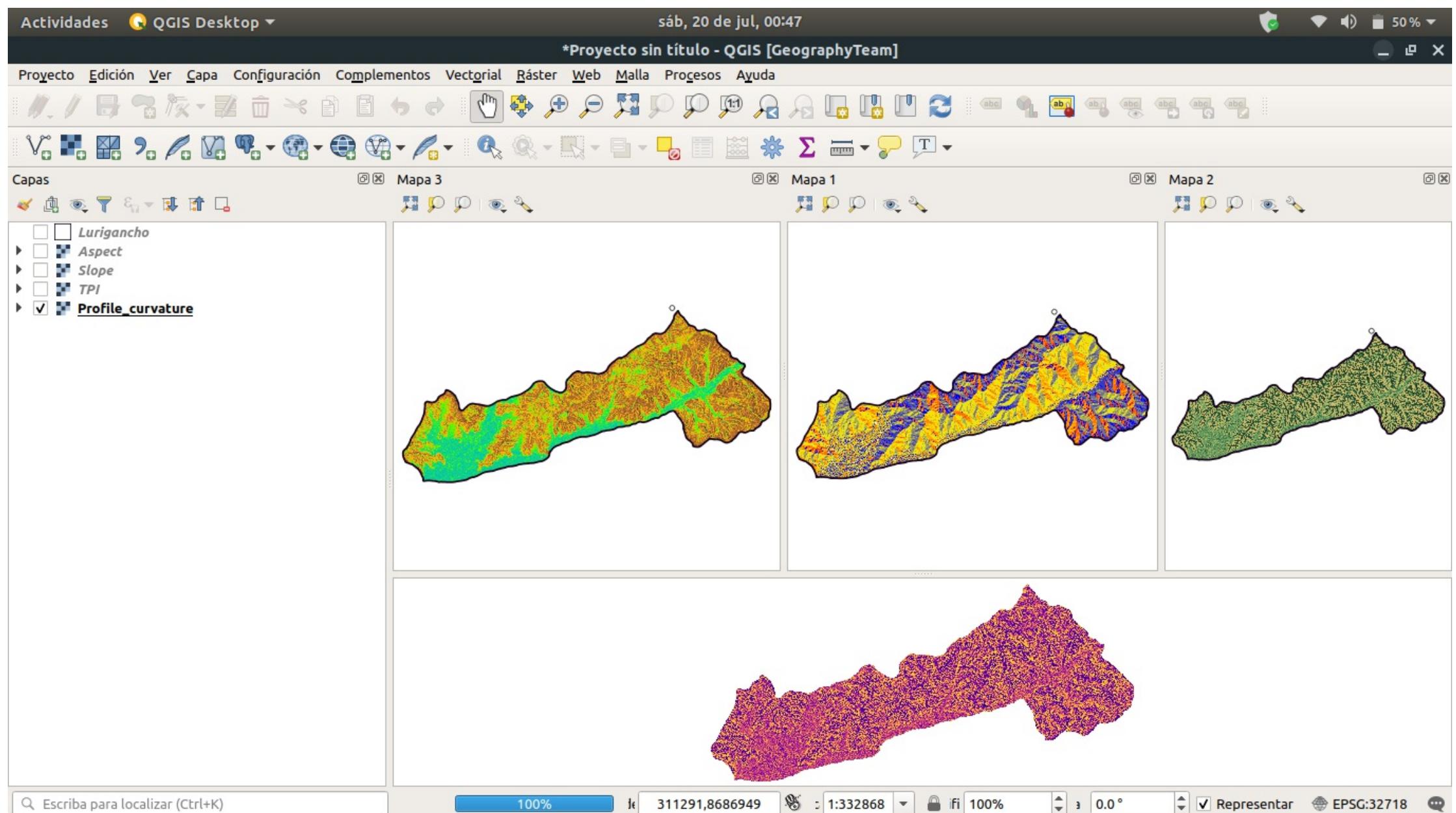


Insumos aquí aquí

Ejercicio parte III

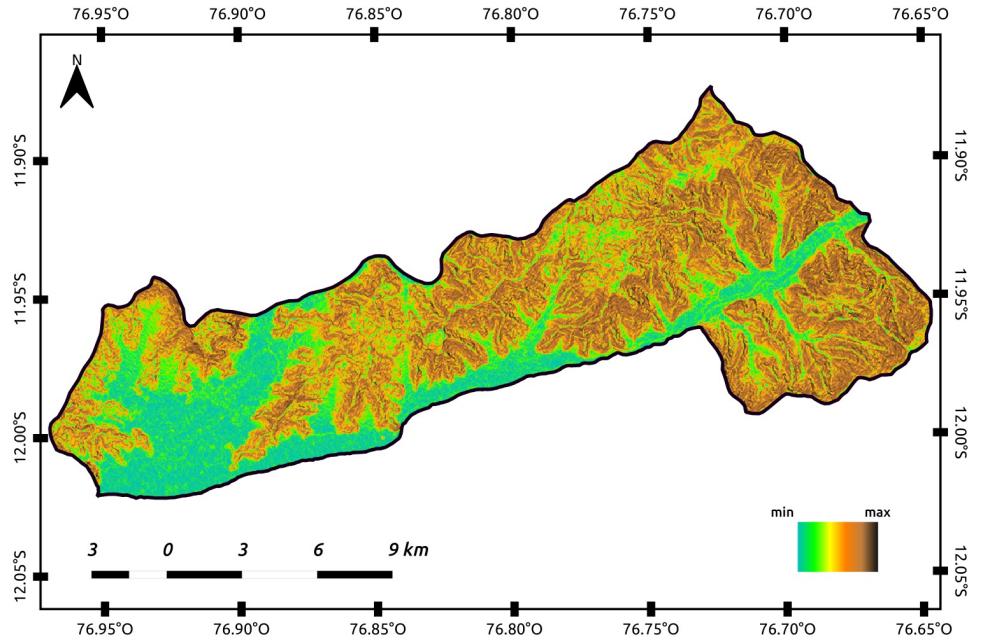


Ejercicio parte III

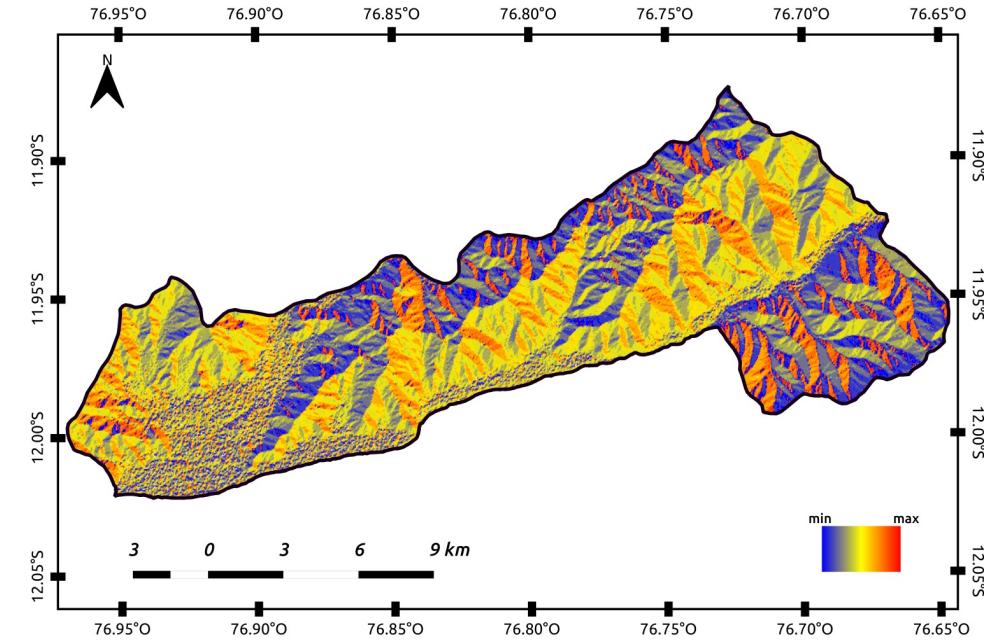


Ejercicio parte III

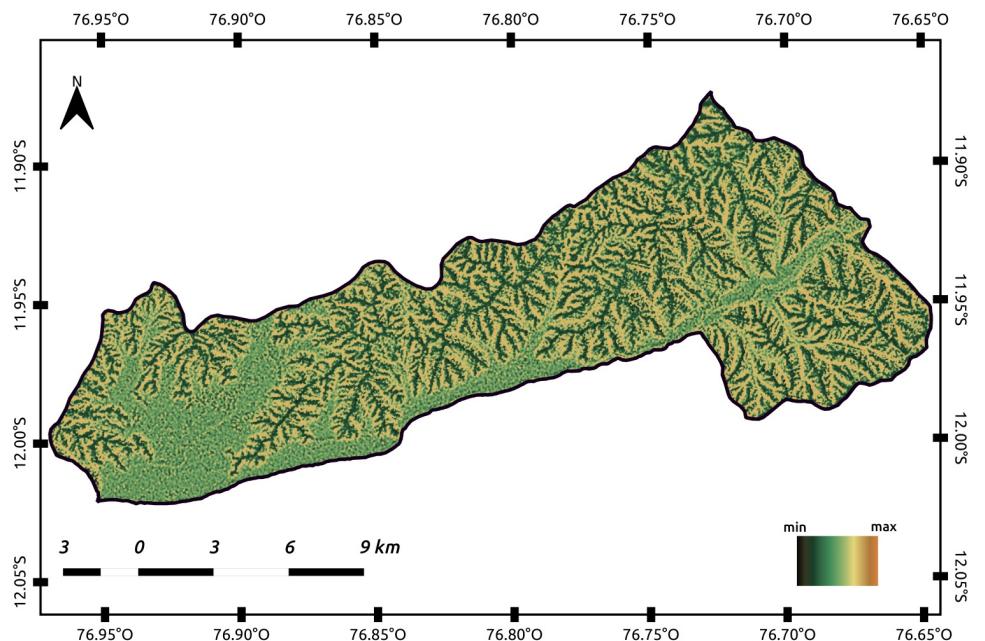
SLOPE



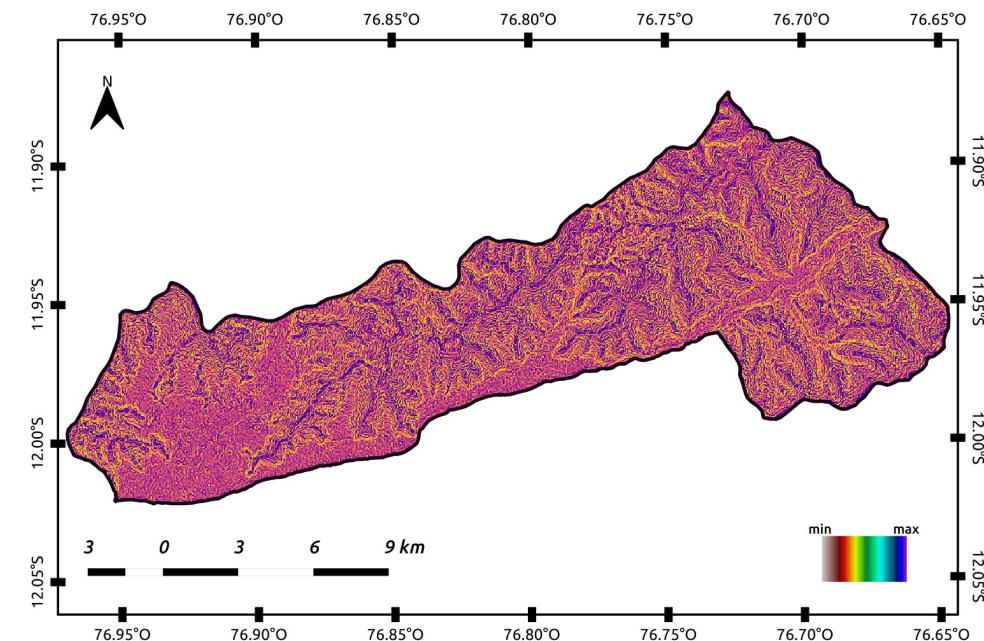
ASPECT



TWI



Profile Curvature



Gracias !



-  barja8.github
-  @Antony.Barja
-  antony.barja8

Slides created via the R package **xaringan**