

Environment and organisms - Task #360

Producing, formatting and extracting variables for the GAM regression (OREGON)

02/23/2012 12:06 PM - Benoit Parmentier

Status:	In Progress	Start date:	02/23/2012
Priority:	Normal	Due date:	
Assignee:	Benoit Parmentier	% Done:	30%
Category:	Climate	Estimated time:	0.00 hour
Target version:			
Activity type:			

Description

GIS data layers developed in the past few months and meteorological station data are used to create a first "pilot" dataset to test the GAM regression in Oregon.

Input variables are: lat, lon, ELEV_SRTM, DISTOC, ASPECT.

Locations of stations data for Oregon were reprojected in NAD83 Oregon Lambert Conic Conformal (EPSG2991). All original raster input layers were reprojected from sinusoidal to EPSG2991 and windowed (i.e. spatially subset) to match the extent of the Oregon case study. Note that a distance to ocean (DISTOC) variable was created from the input land cover data available on E&O server.

The work was done through ArcGIS and IDRISI softwares but a r script is currently under development to translate the necessary steps to automate the proces.

History

#1 - 02/23/2012 01:18 PM - Benoit Parmentier

- Category set to Climate

- Assignee set to Benoit Parmentier

- % Done changed from 0 to 30

#2 - 02/23/2012 02:41 PM - Benoit Parmentier

- Subject changed from *Producing, formatting and extracting variables for the GAM regression (OREGON)* to *Producing, formatting and extracting variables for the GAM regression (OREGON)*

#3 - 07/03/2012 09:40 AM - Benoit Parmentier

There is now a code available to extract from the raster covariate layers produced:
commit: e0d23f1c

Given a shape file of station locations, values are extracted using R raster package. This is an initial commit.

Note that the production of the covariate raster layers still needs to be automated in R or Python.

#4 - 07/03/2012 09:40 AM - Benoit Parmentier

- Status changed from *New* to *In Progress*