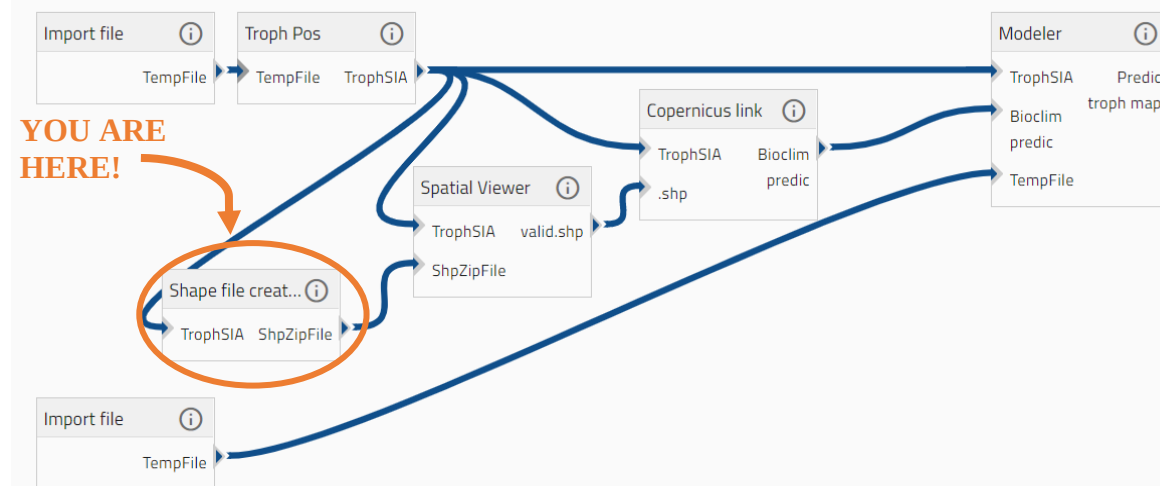


## Geographic checker: fact sheet



Workflow overview



|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aim</b>              | This service uses the geographical coordinates of the locations included in the input file to create coordinate vectors and generate a shapefile.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Input</b>            | Input file in csv format labelled as “Pop_troph_SIA”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Requirements</b>     | <ul style="list-style-type: none"> <li>Fields of the input file are: <ul style="list-style-type: none"> <li>- scientificName – scientific name of the species;</li> <li>- locality - Location of the study site;</li> <li>- country - Name of the Country of the study site;</li> <li>- decimalLatitude - Latitude of the study site expressed in decimal degrees.</li> <li>- decimalLongitude - Longitude of the study site expressed in decimal degrees.</li> <li>- carbon-13 - <math>\delta</math> values of Carbon-13 expressed in permil (‰);</li> <li>- nitrogen-15 - <math>\delta</math> values of Nitrogen-15 expressed in permil (‰);</li> <li>- trophicLevel – numeric value indicating the trophic position of prey and predator;</li> <li>- trophicRole – binomial attribute (prey/predator).</li> </ul> </li> </ul> |
| <b>Analytical tools</b> | This service uses the R packages <i>maptools</i> v. xx, <i>sp</i> v. xx and <i>rgdal</i> v. xx to create the shapefile.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Output</b>           | A shape file labelled “SIAShapefile”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                         |                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Citations</b>        |                                                                                                                                                                                                                                 |
| <b>Metadata</b>         | <a href="https://metadatalogue.lifewatch.eu/srv/eng/catalog.search#/metadata/34400733-f748-4012-a5ca-f68556d52638">https://metadatalogue.lifewatch.eu/srv/eng/catalog.search#/metadata/34400733-f748-4012-a5ca-f68556d52638</a> |
| <b>Further readings</b> |                                                                                                                                                                                                                                 |