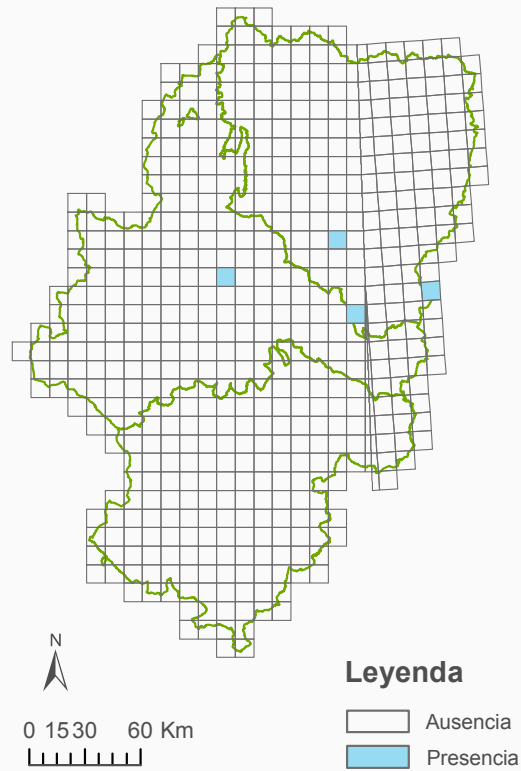


Anexo 1

Lagartija colirroja (*Acanthodactylus erythrurus*)



Distribución histórica hasta 1984



Observaciones desde 1984 hasta 2013

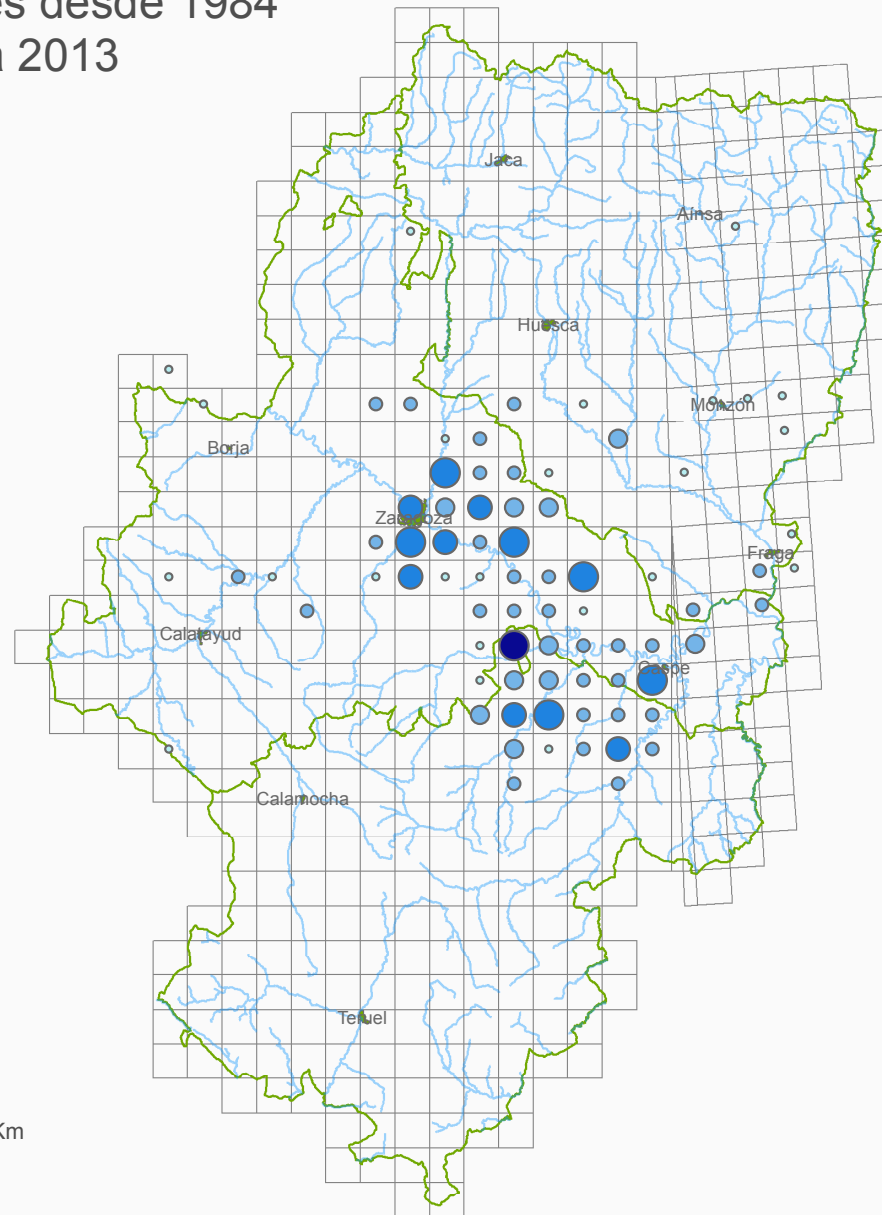
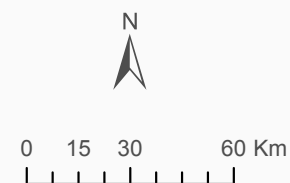
Leyenda

Red hidrográfica

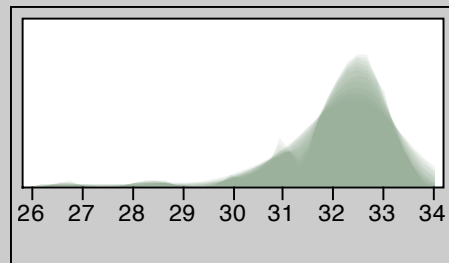
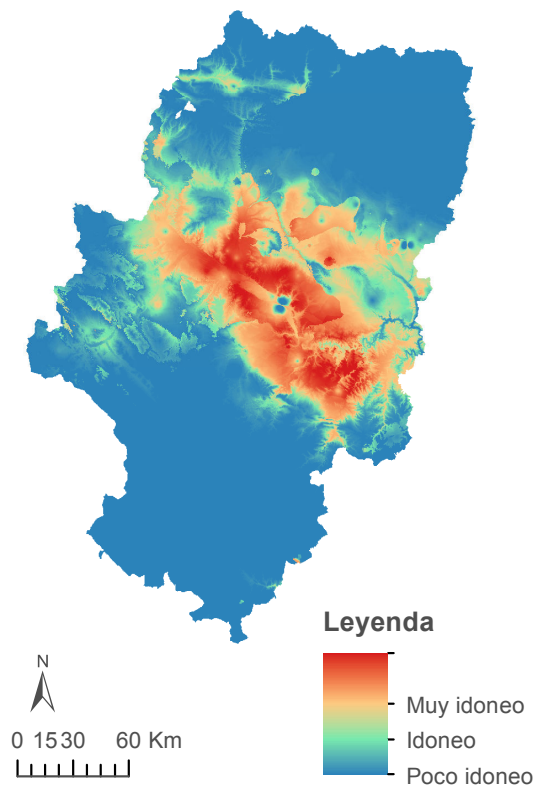
Nº individuos observados



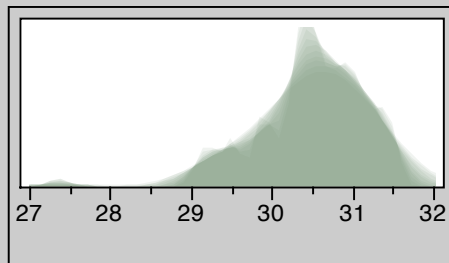
Abundancia relativa (% respecto al total de reptiles)



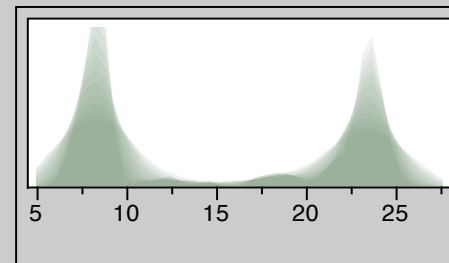
Modelo de idoneidad de hábitat



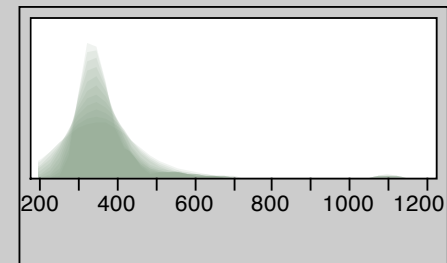
BIO5
Tª max. mes más cálido (°C)



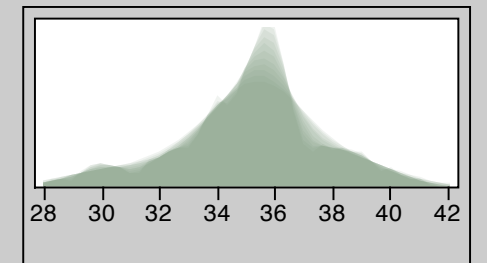
BIO7
Rango de Tª anual (°C)



BIO9
Tª media trimestre más seco (°C)



BIO12
Precipitación anual (mm)

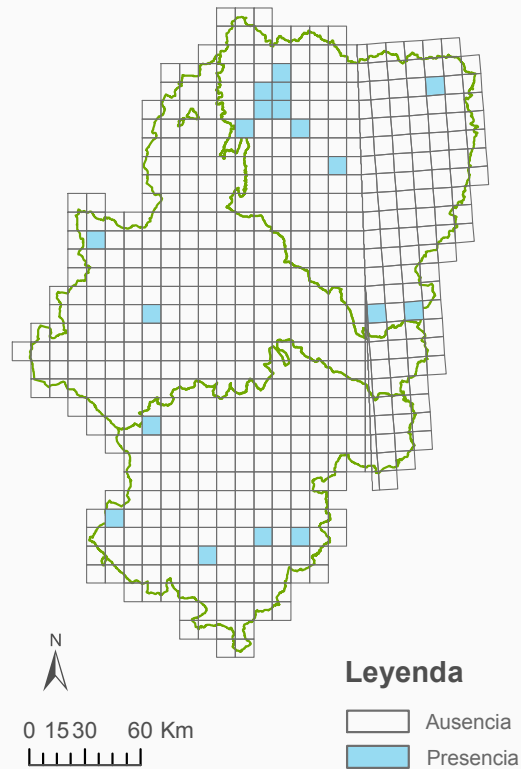


BIO15
Estacionalidad de precipitación (mm)

Sapo corredor (*Bufo calamita*)



Distribución histórica hasta 1984

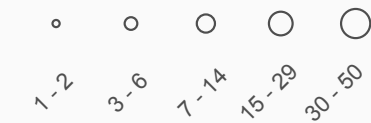


Observaciones desde 1984 hasta 2013

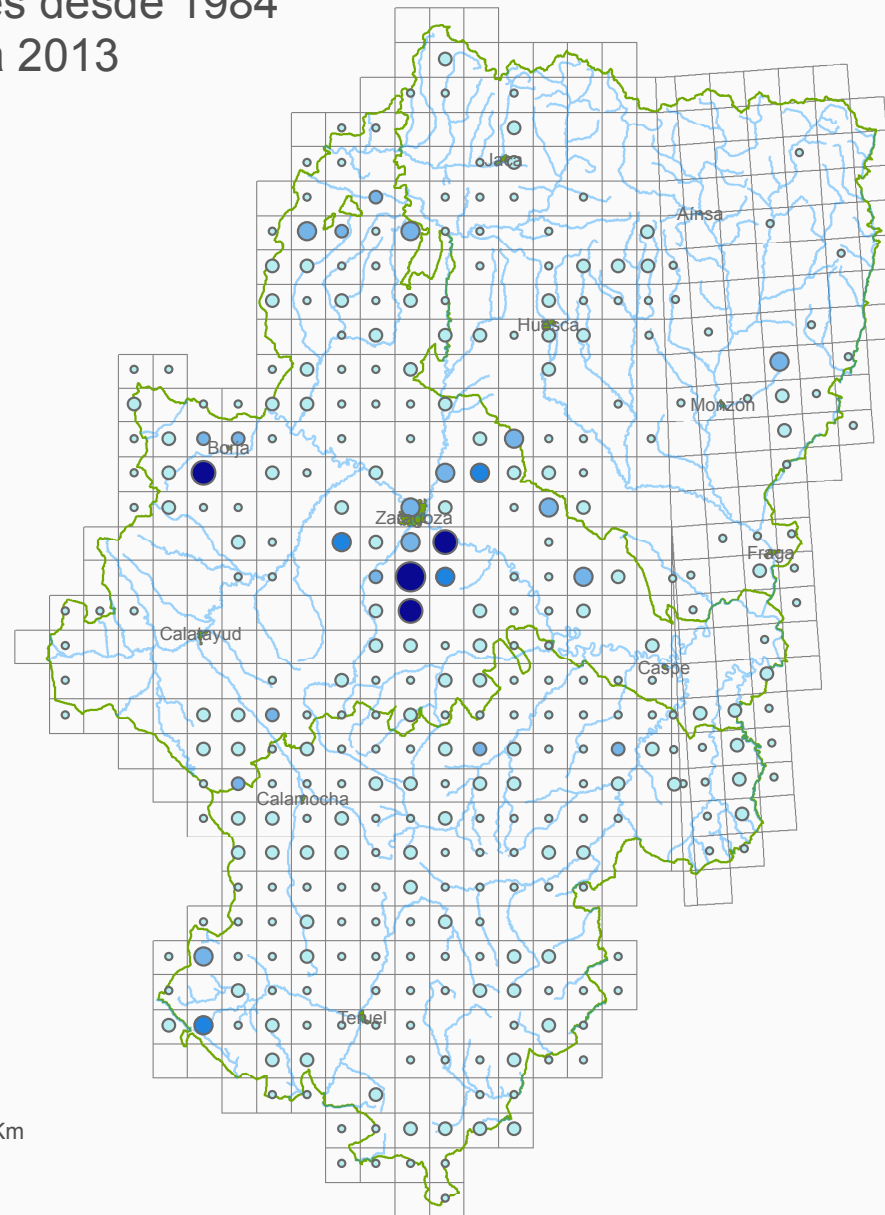
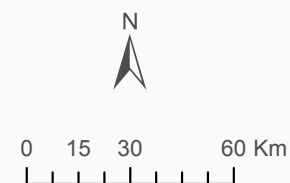
Leyenda

Red hidrográfica

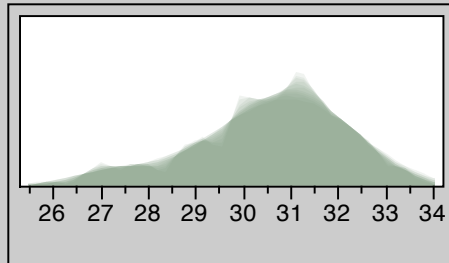
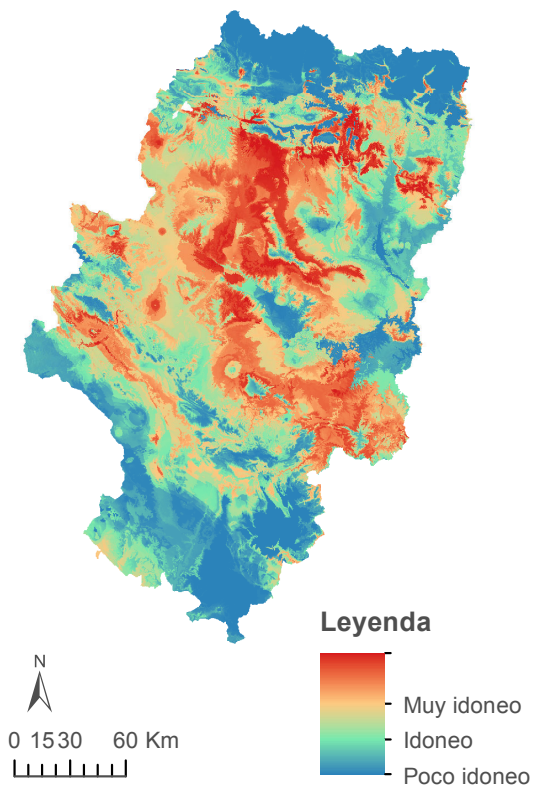
Nº individuos observados



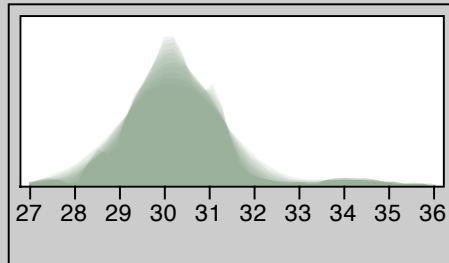
Abundancia relativa (% respecto al total de anfibios)



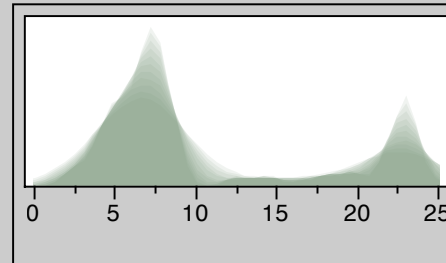
Modelo de idoneidad de hábitat



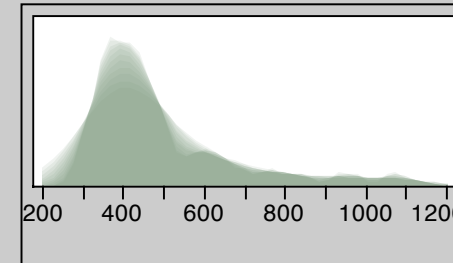
BIO5
Tª max. mes más cálido (°C)



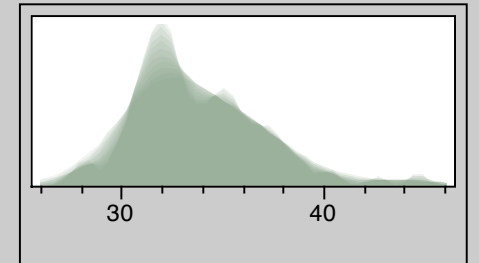
BIO7
Rango de Tª anual (°C)



BIO9
Tª media trimestre más seco (°C)



BIO12
Precipitación anual (mm)

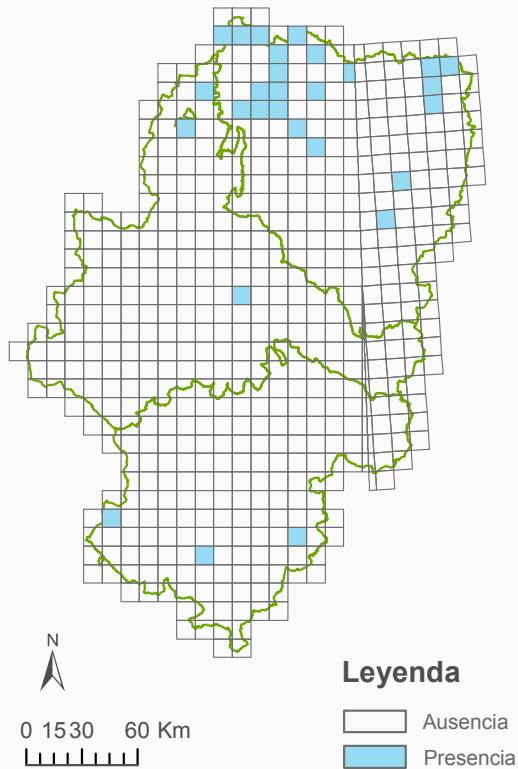


BIO15
Estacionalidad de precipitación (mm)

Sapo común (*Bufo spinosus*)



Distribución histórica hasta 1984



Observaciones desde 1984 hasta 2013

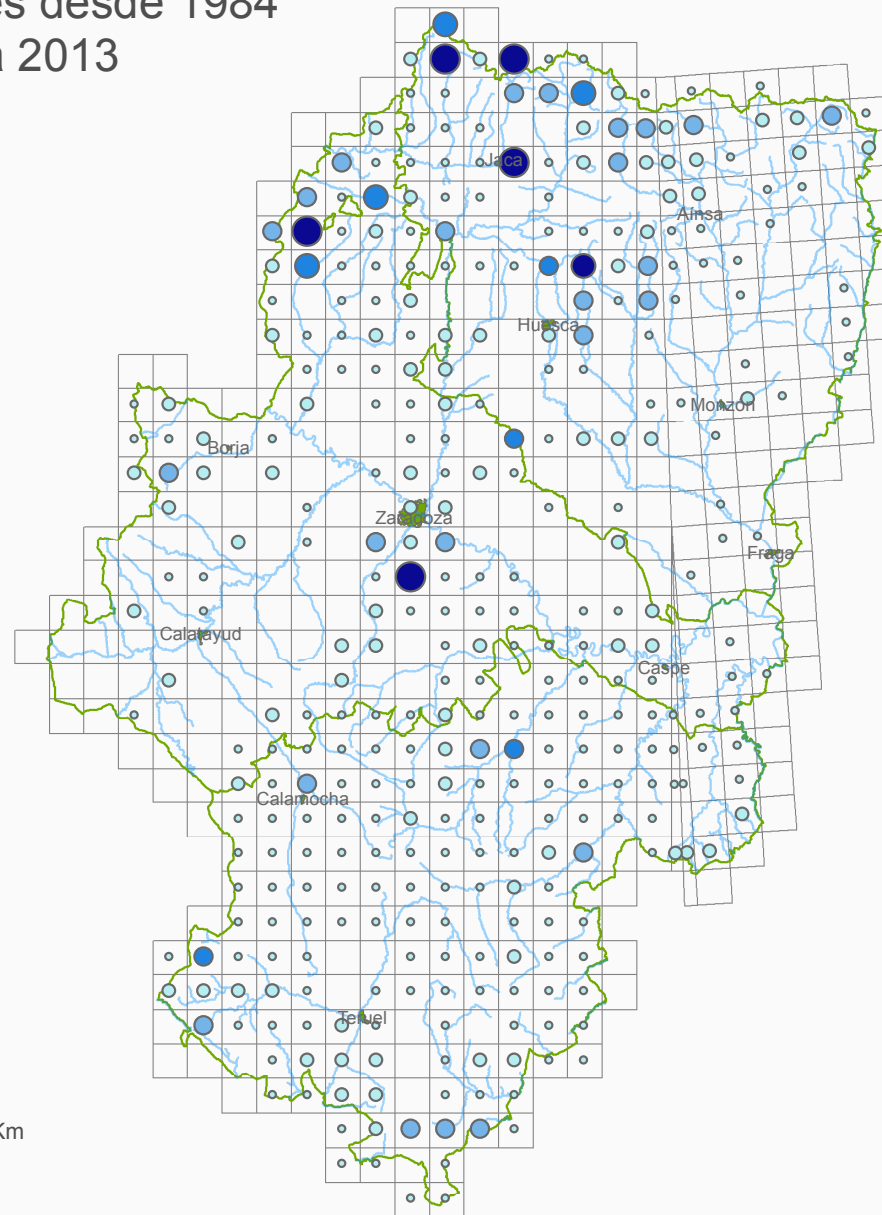
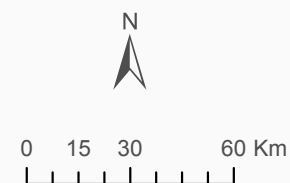
Leyenda

Red hidrográfica

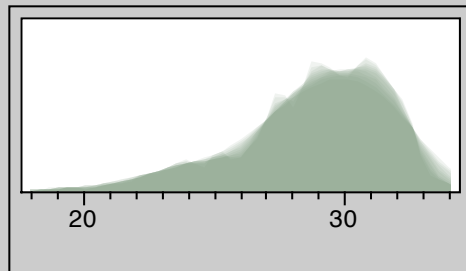
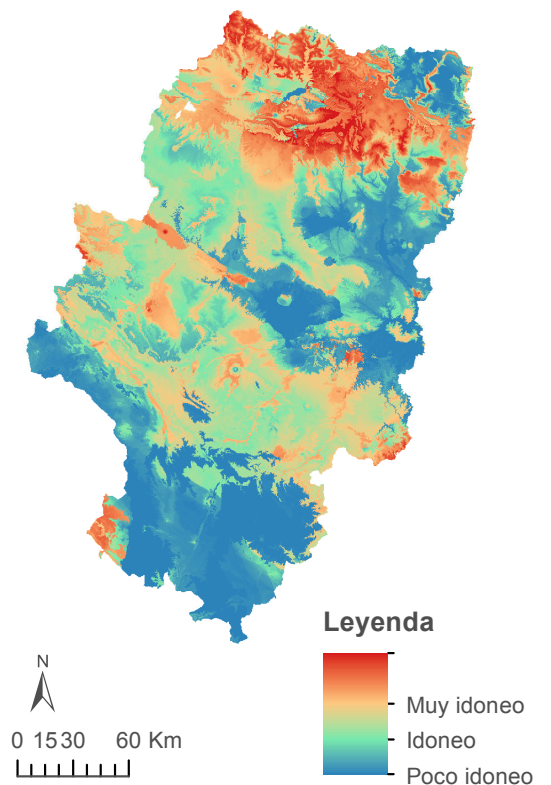
Nº individuos observados



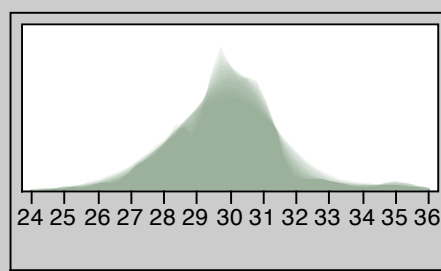
Abundancia relativa (% respecto al total de anfibios)



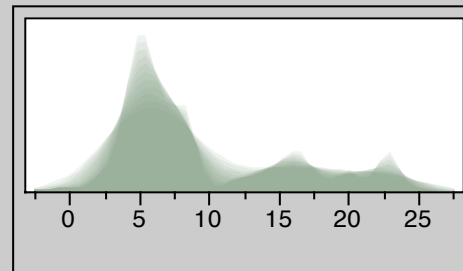
Modelo de idoneidad de hábitat



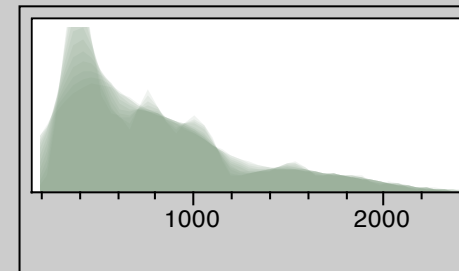
BIO5
Tª max. mes más cálido (°C)



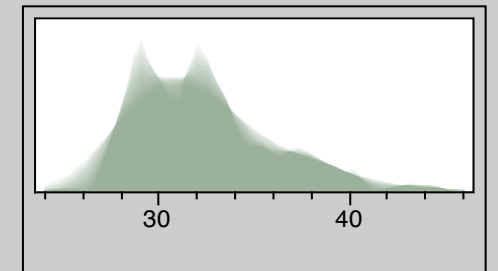
BIO7
Rango de Tª anual (°C)



BIO9
Tª media trimestre más seco (°C)



BIO12
Precipitación anual (mm)

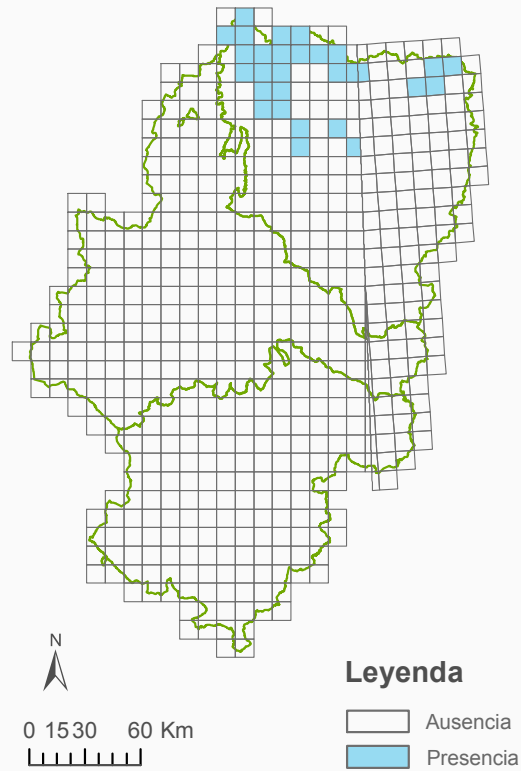


BIO15
Estacionalidad de precipitación (mm)

Tritón pirenaico (*Calotriton asper*)



Distribución histórica hasta 1984



Observaciones desde 1984 hasta 2013

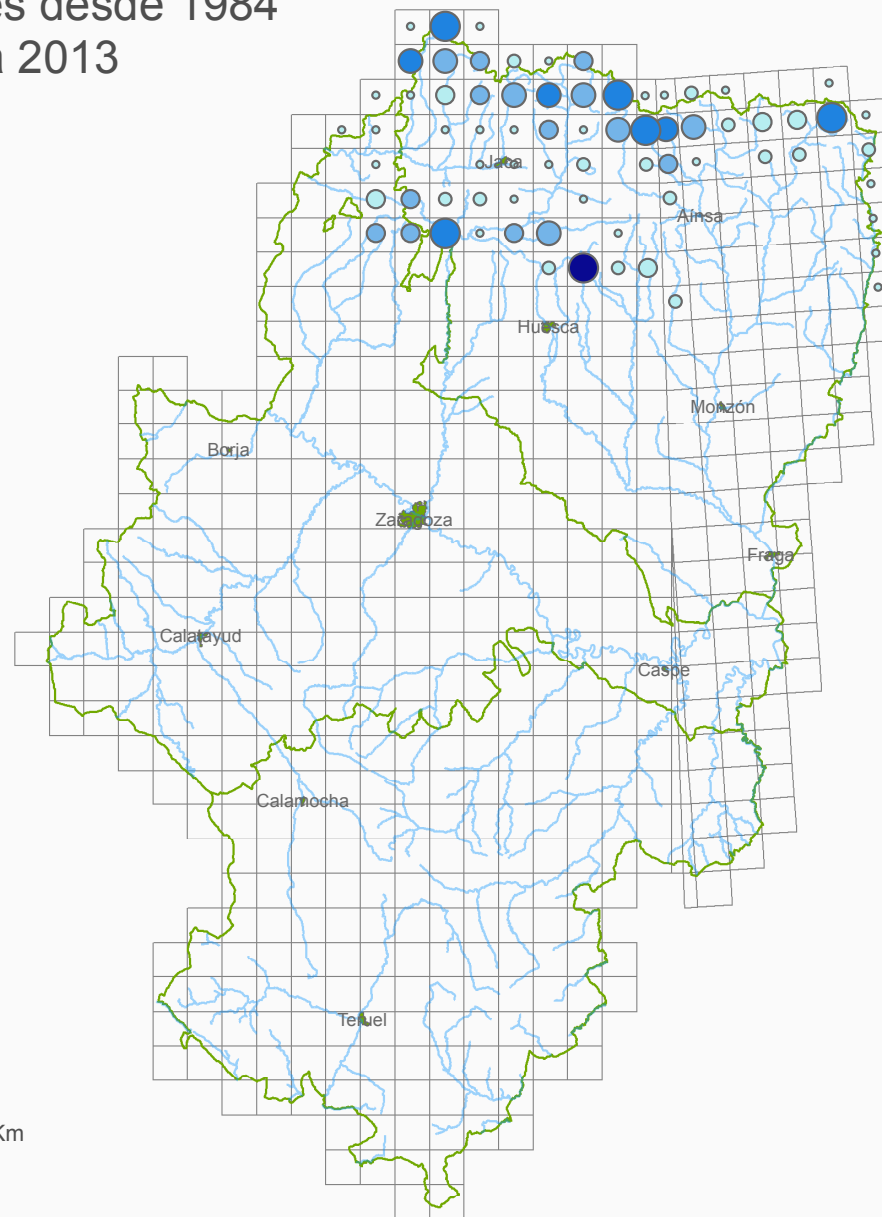
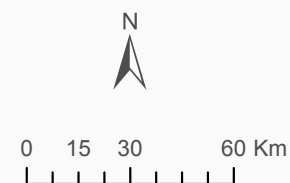
Leyenda

Red hidrográfica

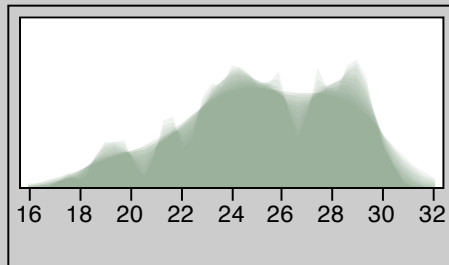
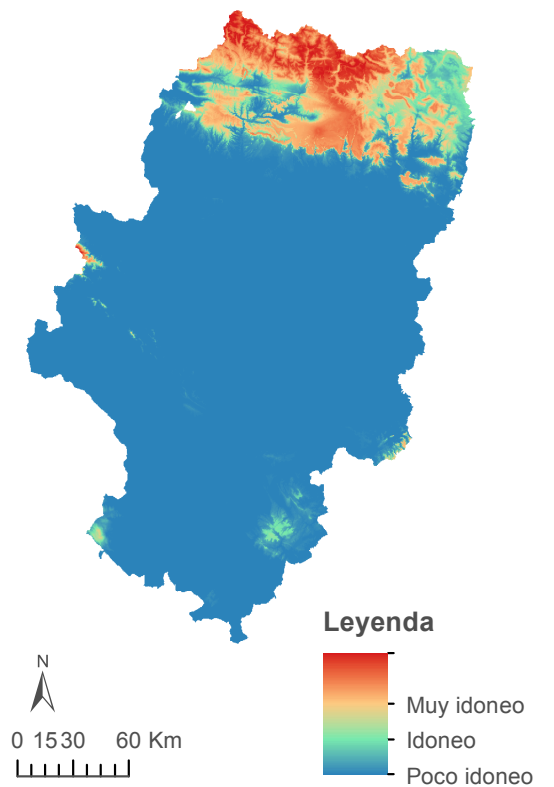
Nº individuos observados



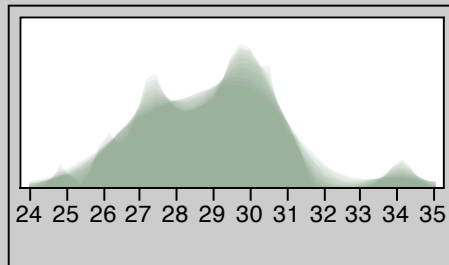
Abundancia relativa (% respecto al total de anfibios)



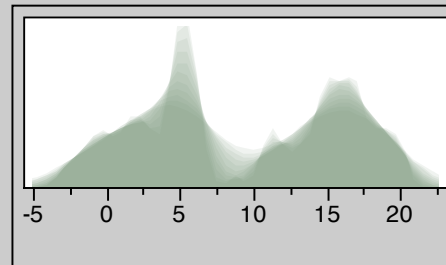
Modelo de idoneidad de hábitat



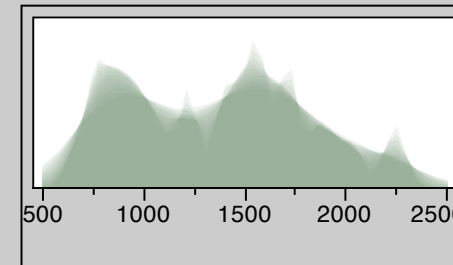
BIO5
Tª max. mes más cálido (°C)



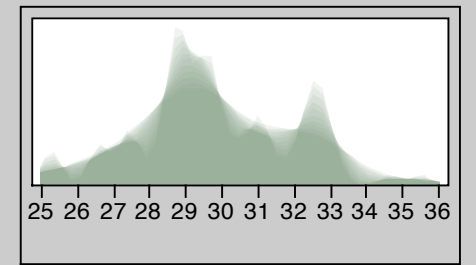
BIO7
Rango de Tª anual (°C)



BIO9
Tª media trimestre más seco (°C)



BIO12
Precipitación anual (mm)

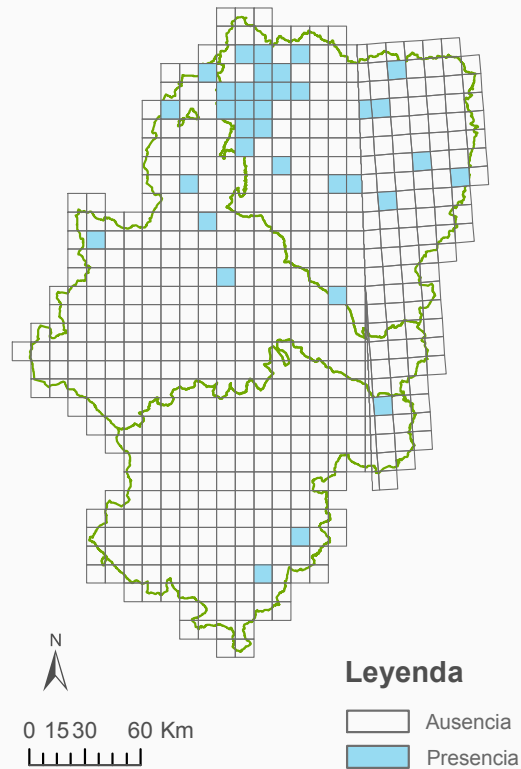


BIO15
Estacionalidad de precipitación (mm)

Culebra bastarda (*Malmolon monspessulanus*)



Distribución histórica hasta 1984



Observaciones desde 1984 hasta 2013

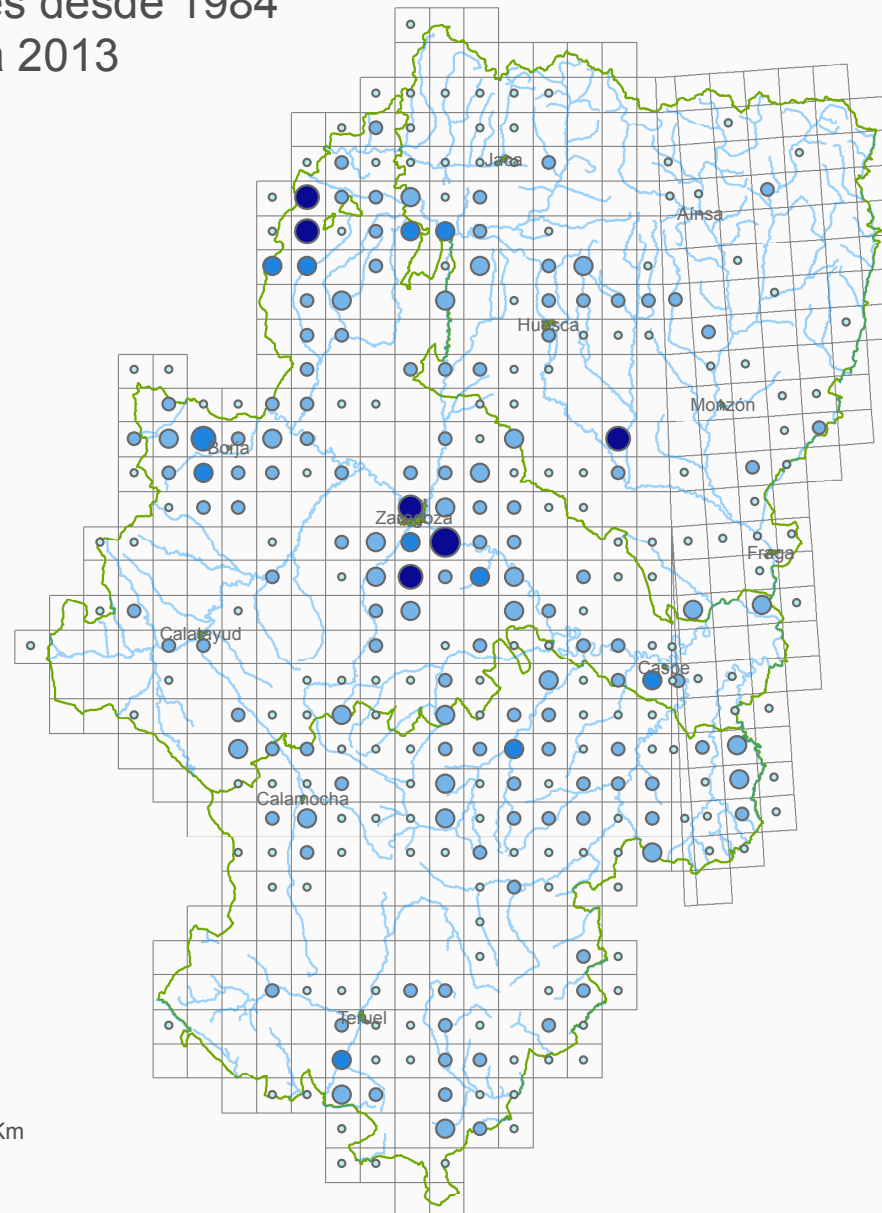
Leyenda

Red hidrográfica

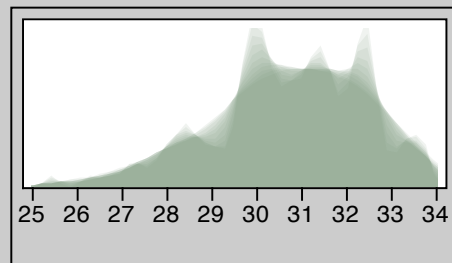
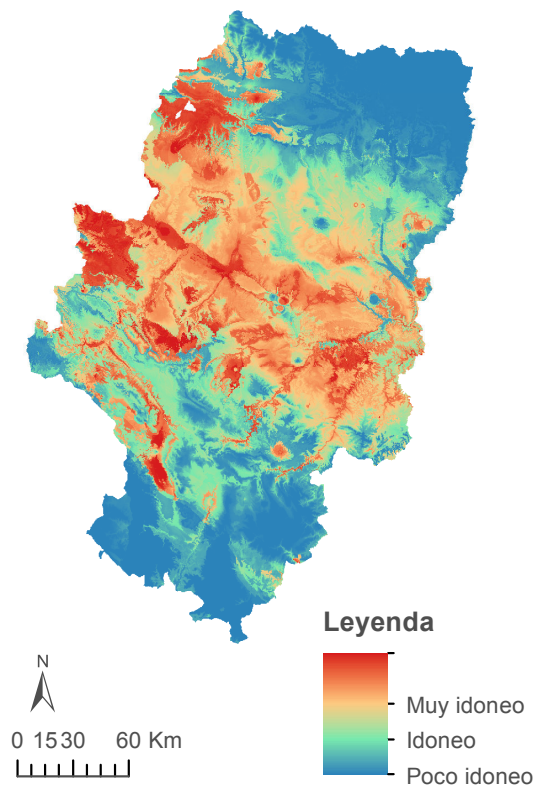
Nº individuos observados



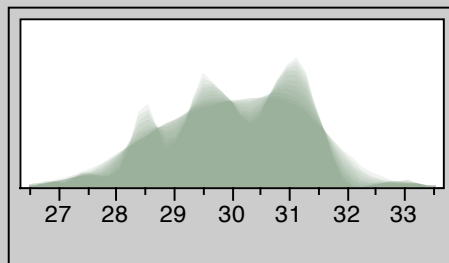
Abundancia relativa (% respecto al total de reptiles)



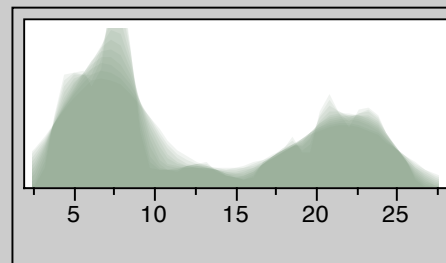
Modelo de idoneidad de hábitat



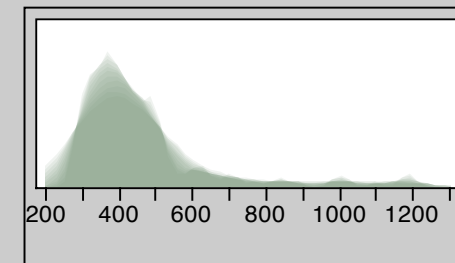
BIO5
Tª max. mes más cálido (°C)



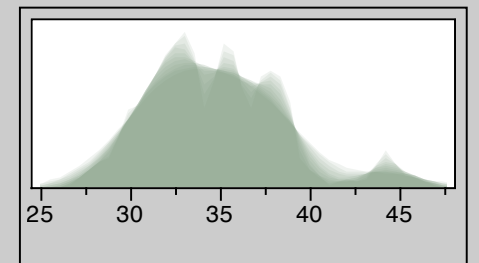
BIO7
Rango de Tª anual (°C)



BIO9
Tª media trimestre más seco (°C)



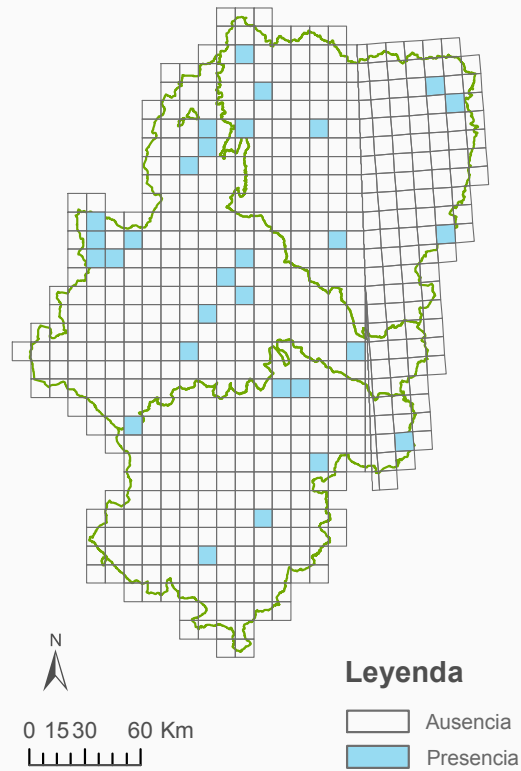
BIO12
Precipitación anual (mm)



BIO15
Estacionalidad de precipitación (mm)

Culebra viperina (*Natrix maura*)

Distribución histórica hasta 1984



Observaciones desde 1984 hasta 2013

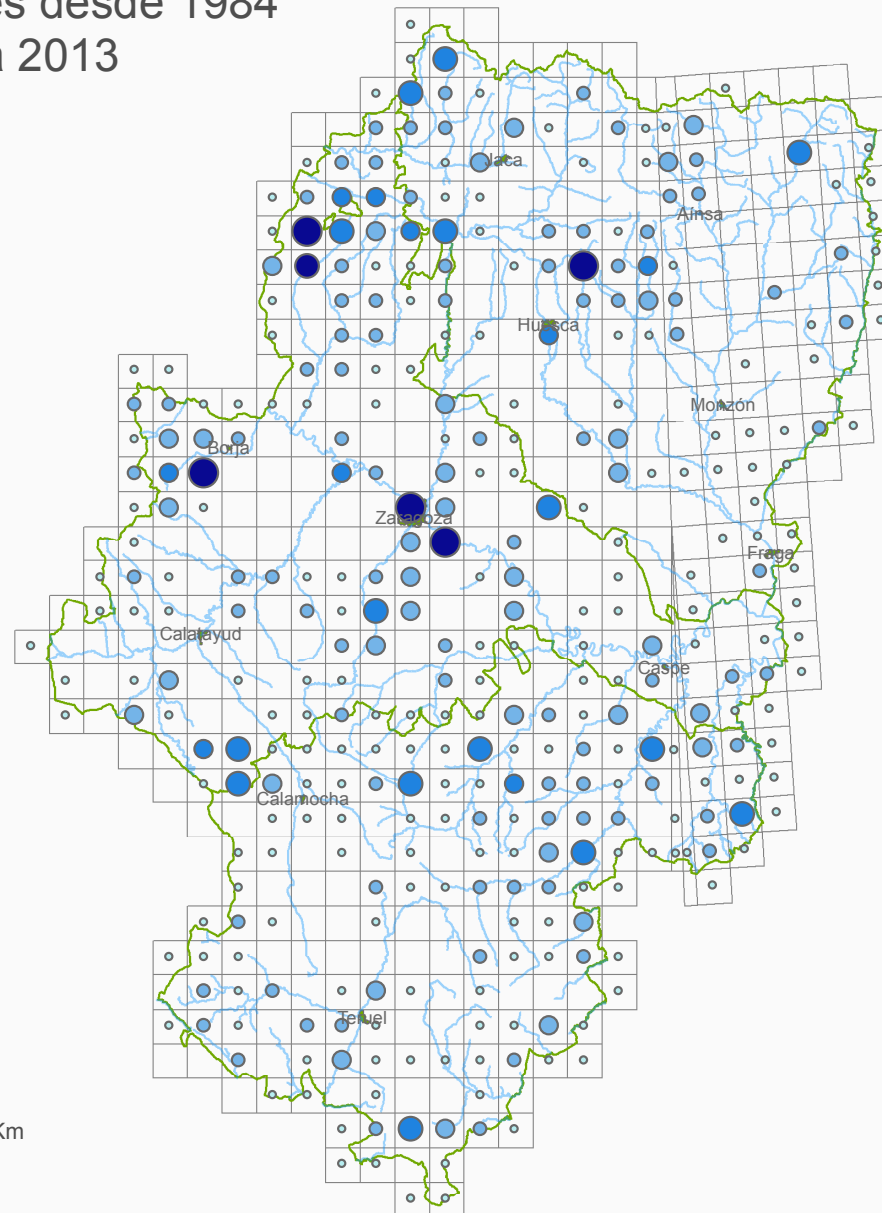
Leyenda

Red hidrográfica

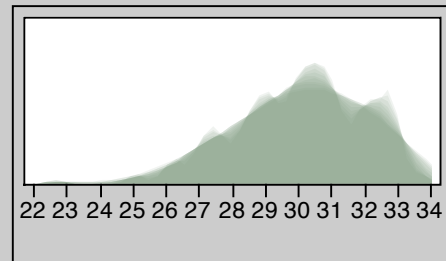
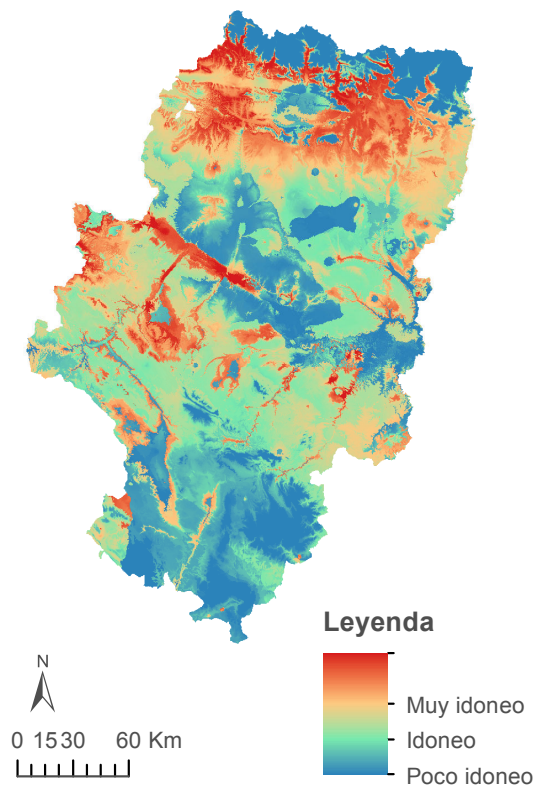
Nº individuos observados



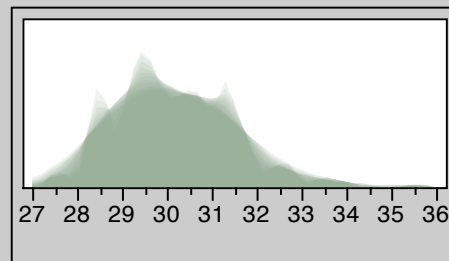
Abundancia relativa (% respecto al total de reptiles)



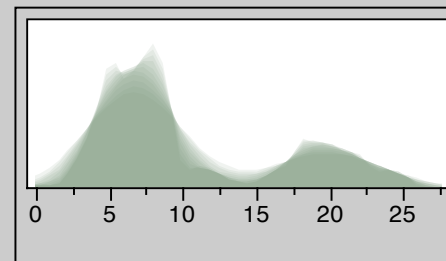
Modelo de idoneidad de hábitat



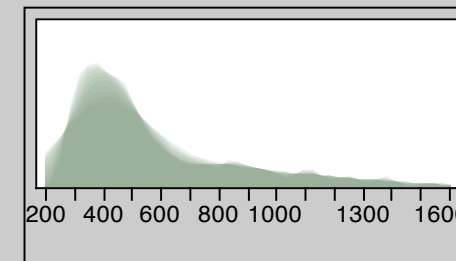
BIO5
Tª max. mes más cálido (°C)



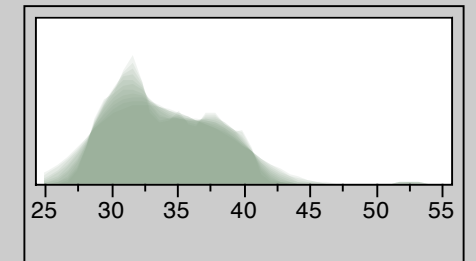
BIO7
Rango de Tª anual (°C)



BIO9
Tª media trimestre más seco (°C)



BIO12
Precipitación anual (mm)

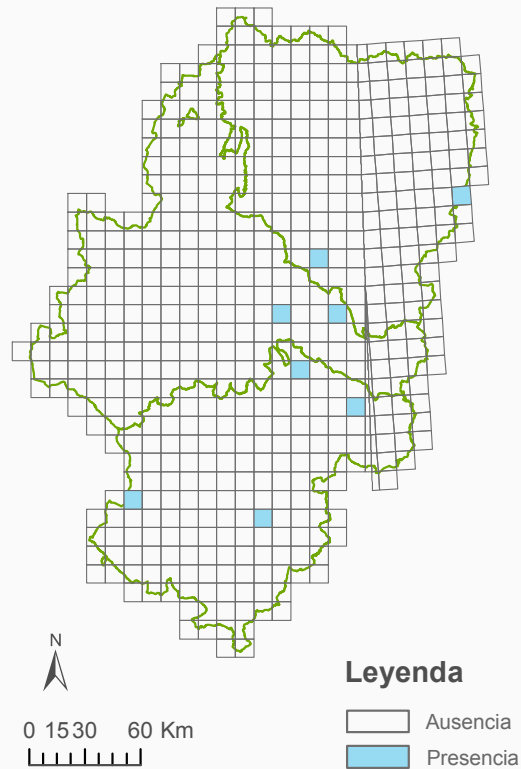


BIO15
Estacionalidad de precipitación (mm)

Sapo de espuelas (*Pelobates cultripes*)



Distribución histórica hasta 1984



Observaciones desde 1984 hasta 2013

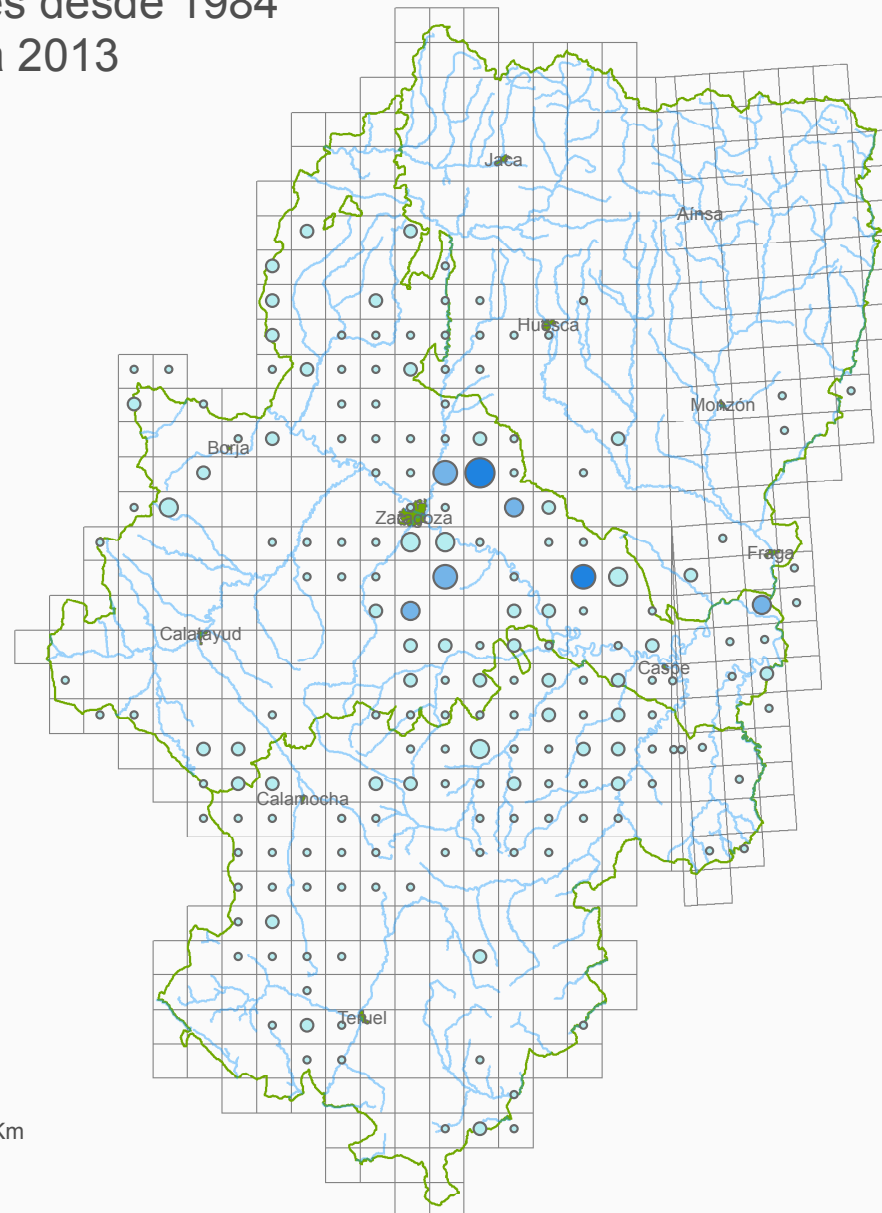
Leyenda

Red hidrográfica

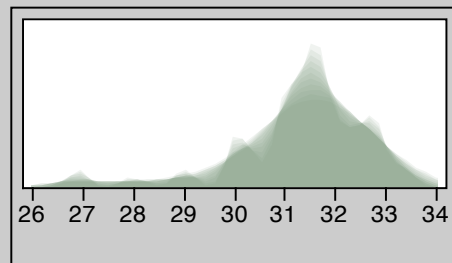
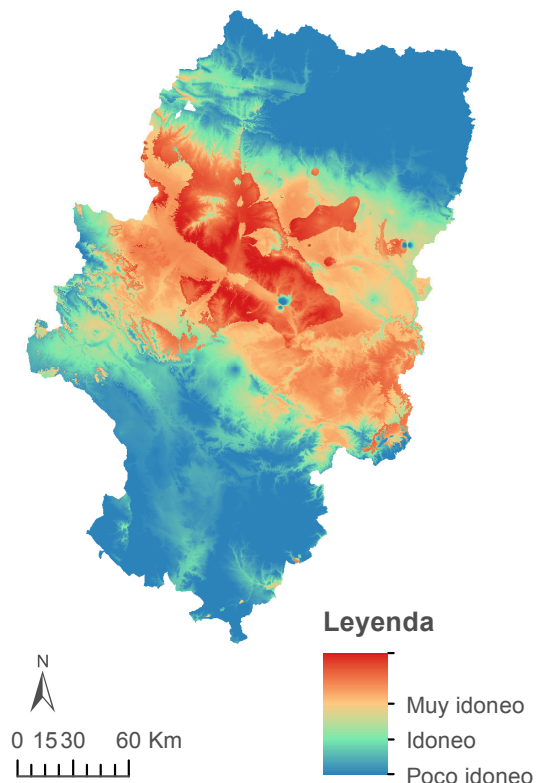
Nº individuos observados



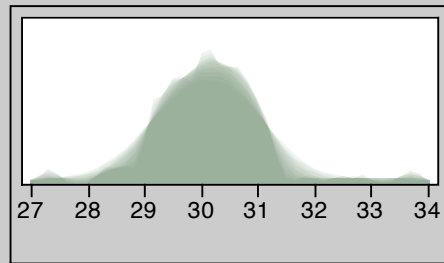
Abundancia relativa (% respecto al total de anfibios)



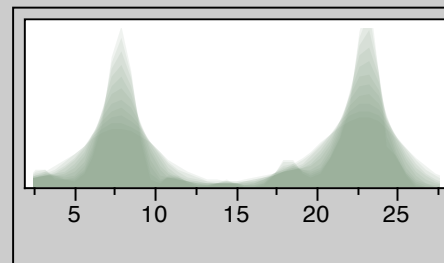
Modelo de idoneidad de hábitat



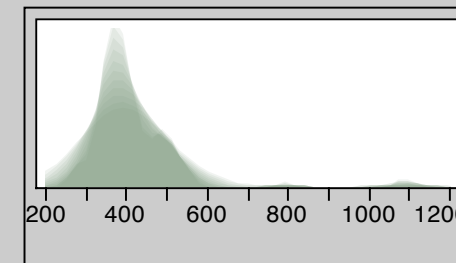
BIO5
Tª max. mes más cálido (°C)



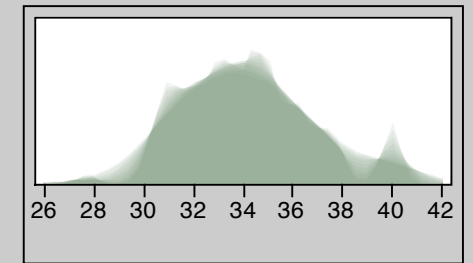
BIO7
Rango de Tª anual (°C)



BIO9
Tª media trimestre más seco (°C)



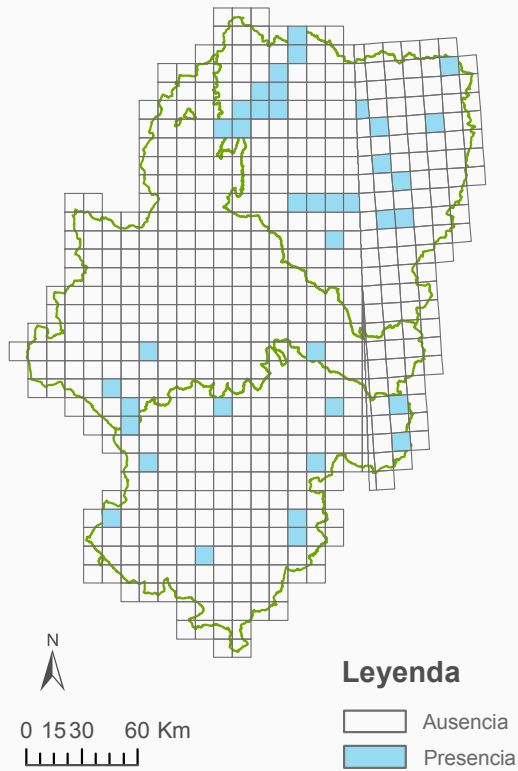
BIO12
Precipitación anual (mm)



BIO15
Estacionalidad de precipitación (mm)

Rana común (*Pelophylax perezi*)

Distribución histórica hasta 1984

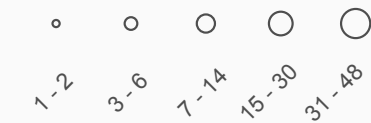


Observaciones desde 1984 hasta 2013

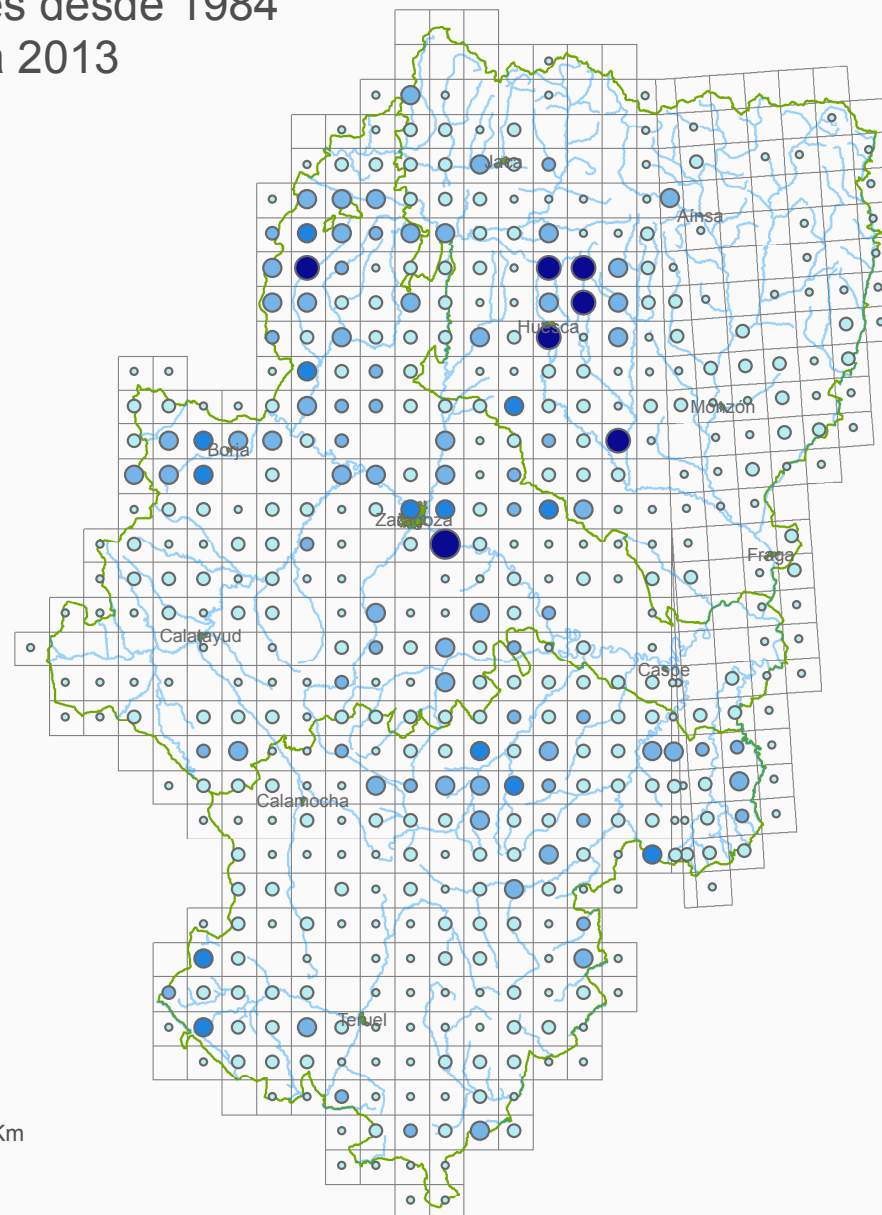
Leyenda

Red hidrográfica

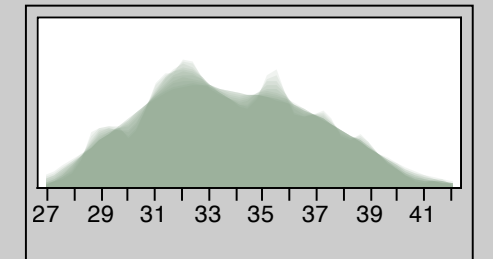
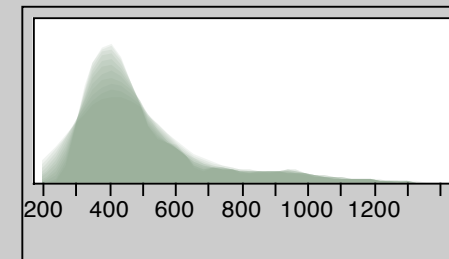
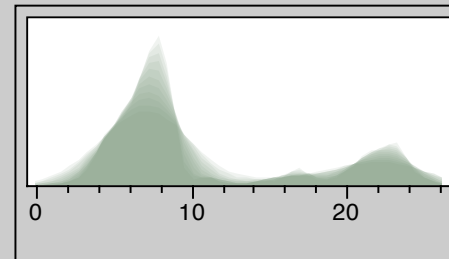
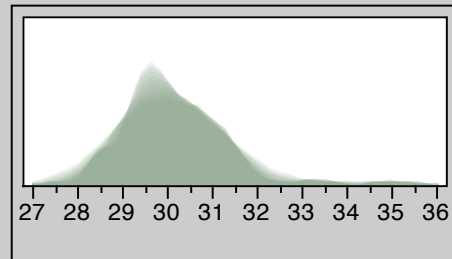
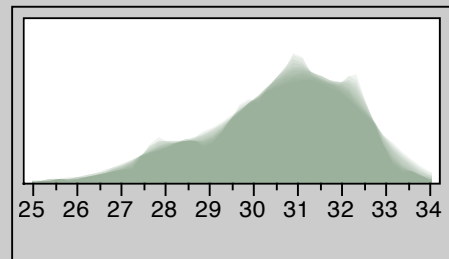
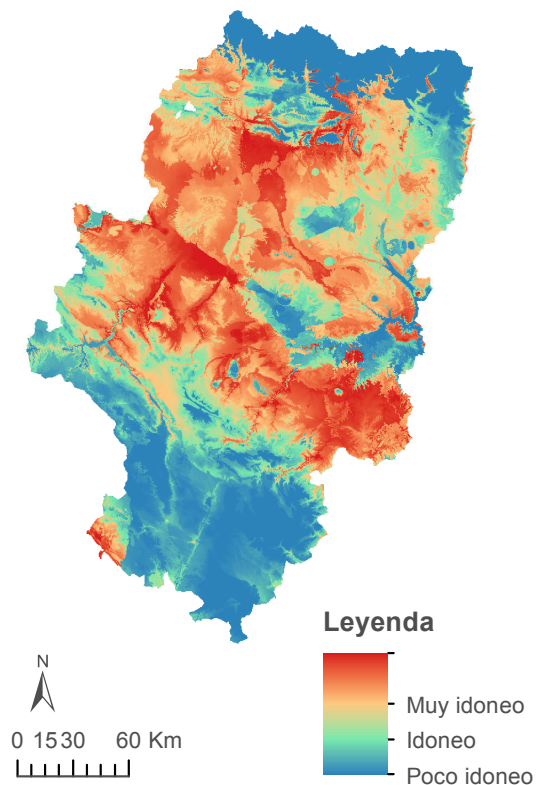
Nº individuos observados



Abundancia relativa (% respecto al total de anfibios)



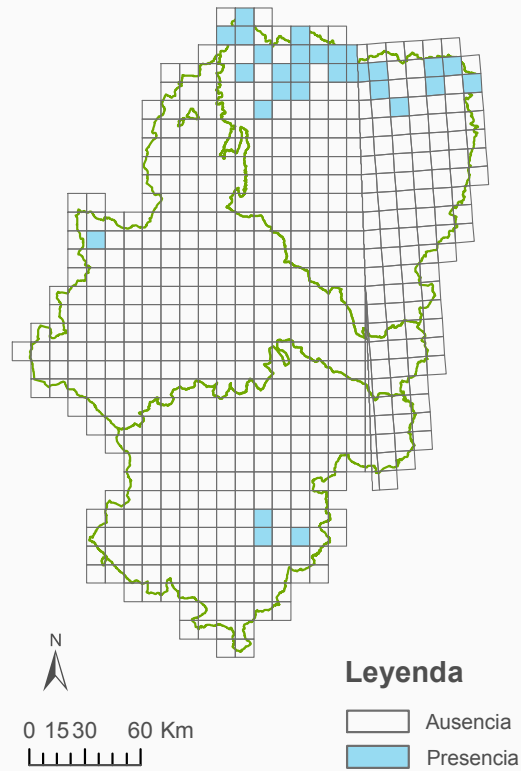
Modelo de idoneidad de hábitat



Lagartija roquera (*Podarcis muralis*)



Distribución histórica hasta 1984



Observaciones desde 1984 hasta 2013

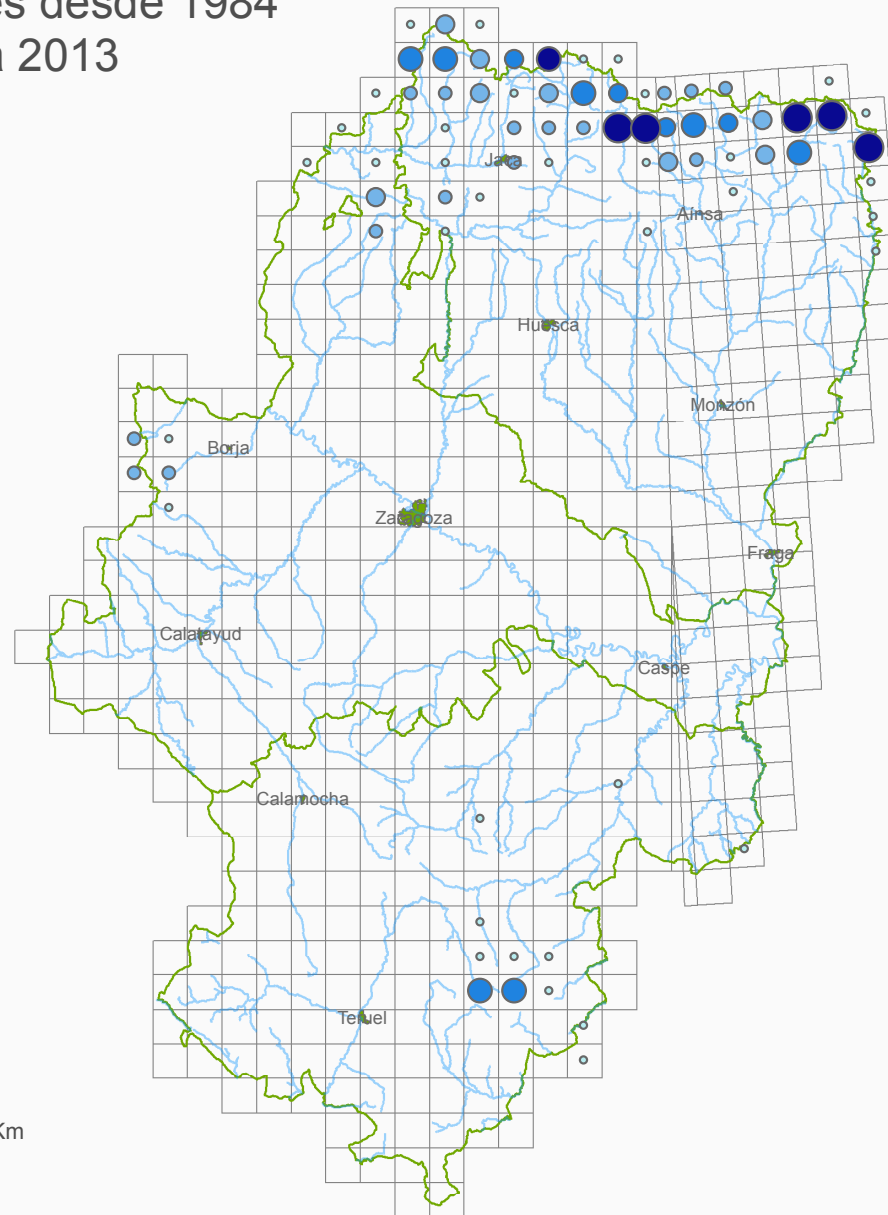
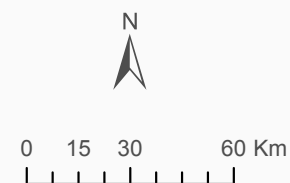
Leyenda

Red hidrográfica

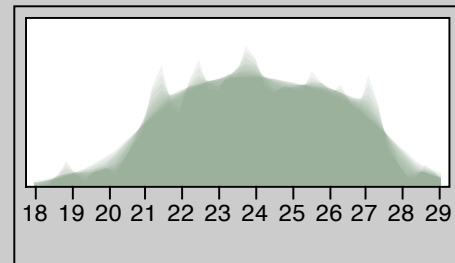
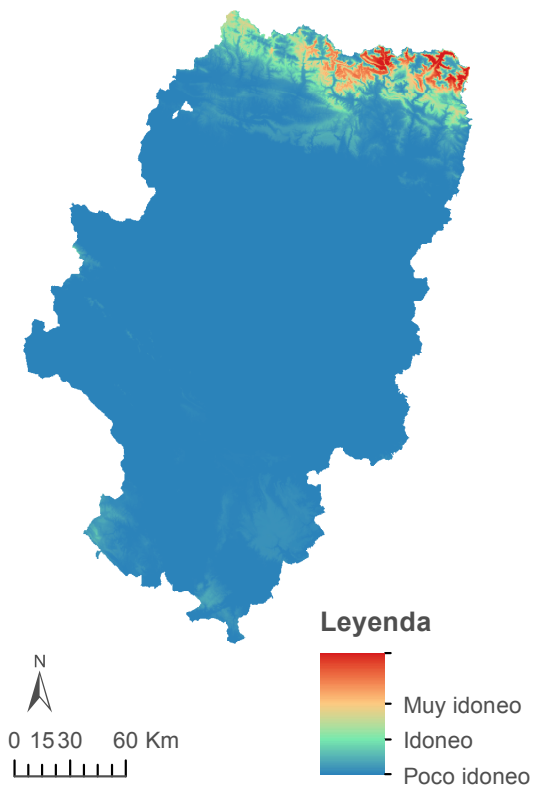
Nº individuos observados



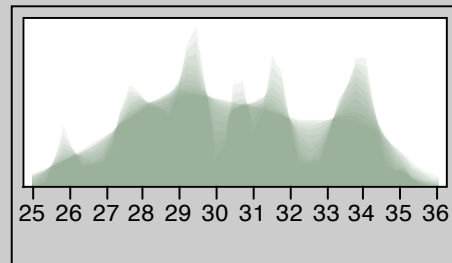
Abundancia relativa (% respecto al total de reptiles)



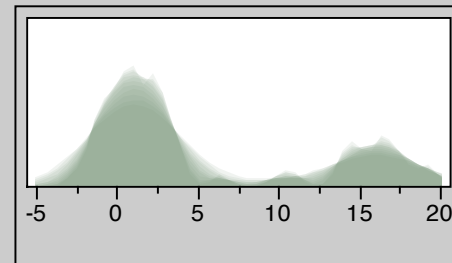
Modelo de idoneidad de hábitat



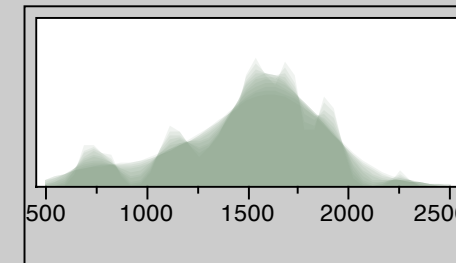
BIO5
Tª max. mes más cálido (°C)



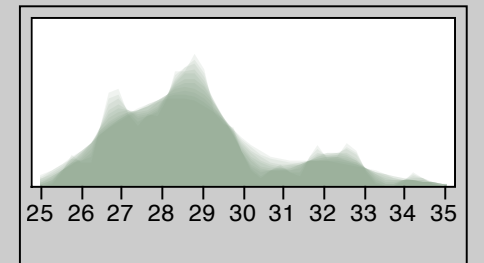
BIO7
Rango de Tª anual (°C)



BIO9
Tª media trimestre más seco (°C)



BIO12
Precipitación anual (mm)

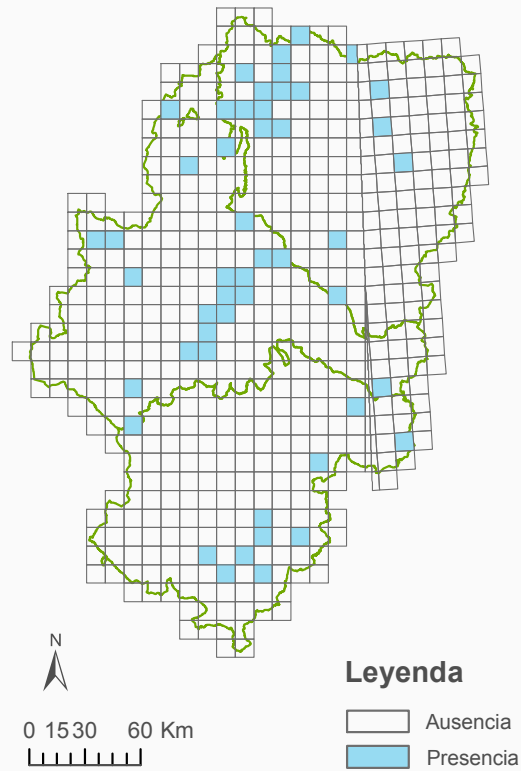


BIO15
Estacionalidad de precipitación (mm)

Lagarto ocelado (*Timon lepidus*)



Distribución histórica hasta 1984



Observaciones desde 1984 hasta 2013

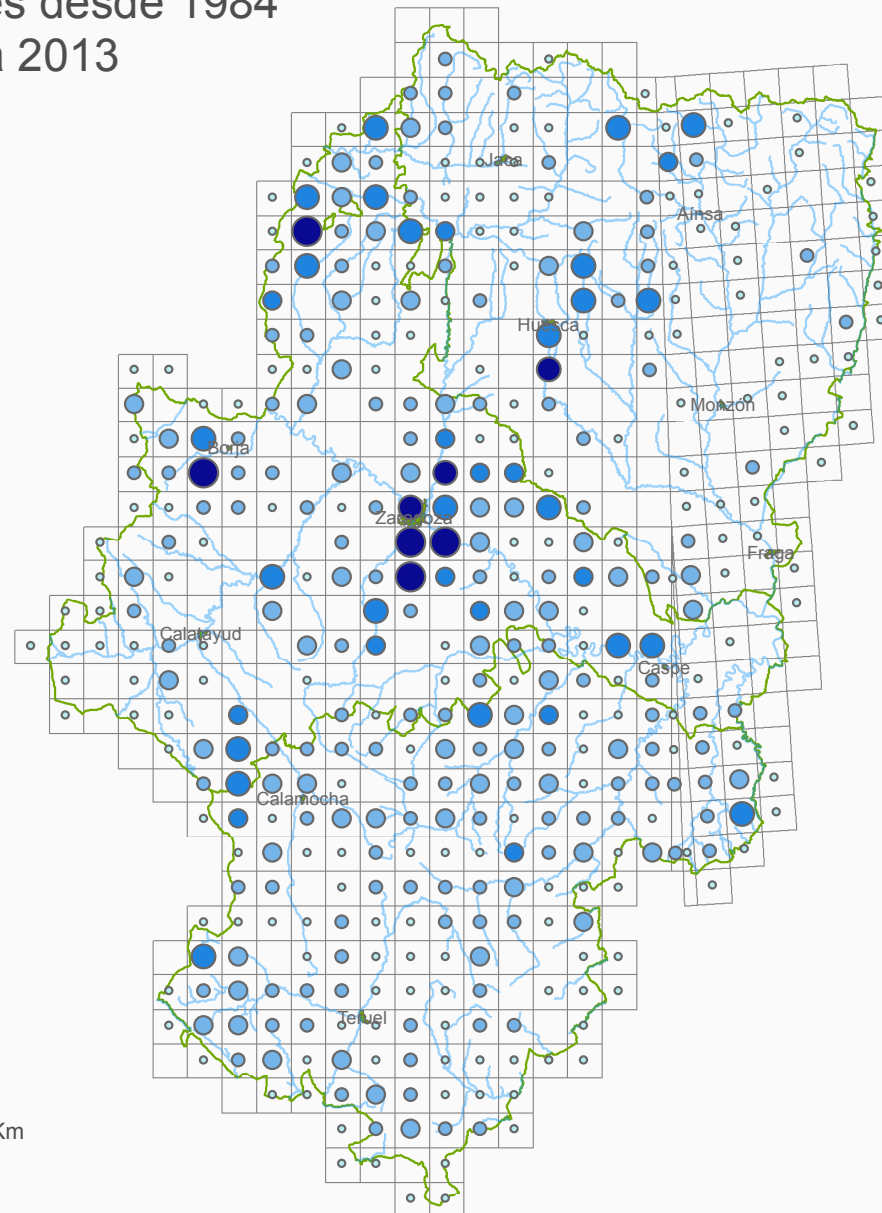
Leyenda

Red hidrográfica

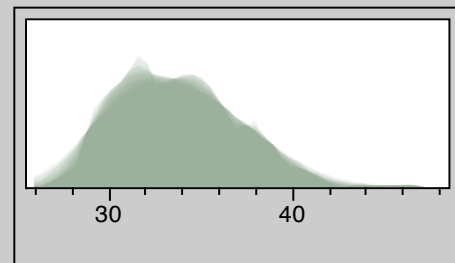
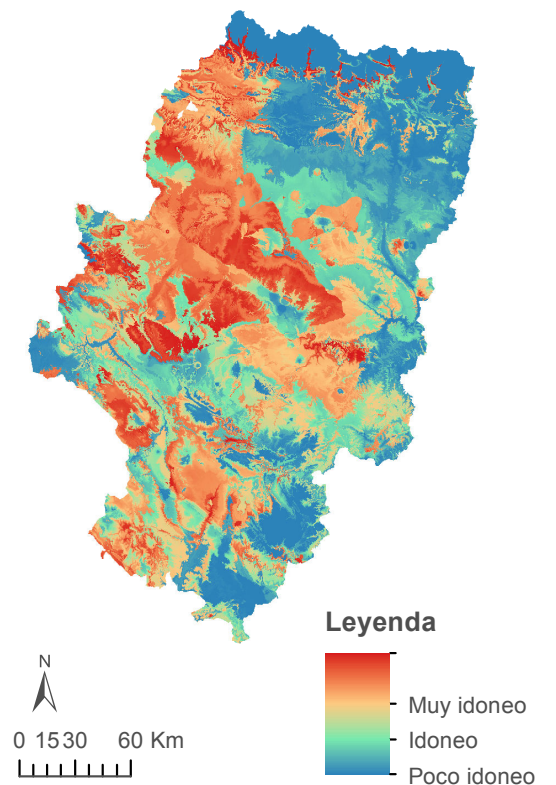
Nº individuos observados



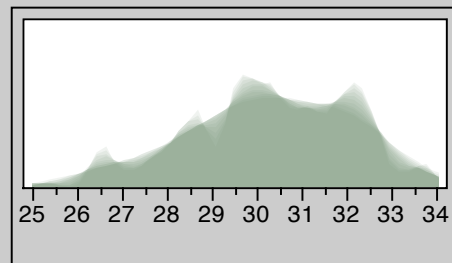
Abundancia relativa (% respecto al total de reptiles)



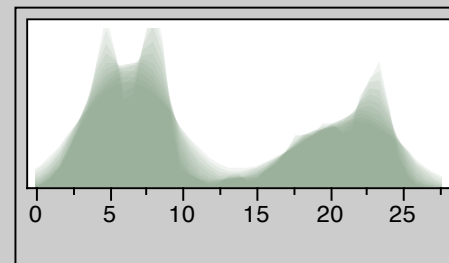
Modelo de idoneidad de hábitat



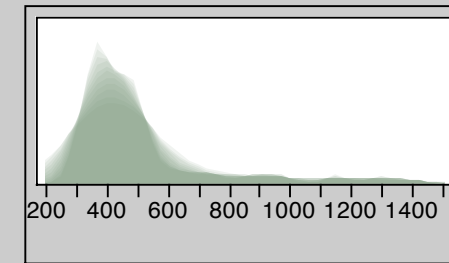
BIO5
Tª max. mes más cálido (°C)



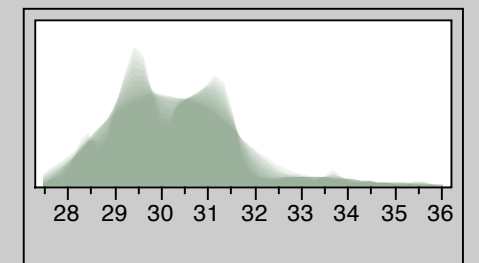
BIO7
Rango de Tª anual (°C)



BIO9
Tª media trimestre más seco (°C)

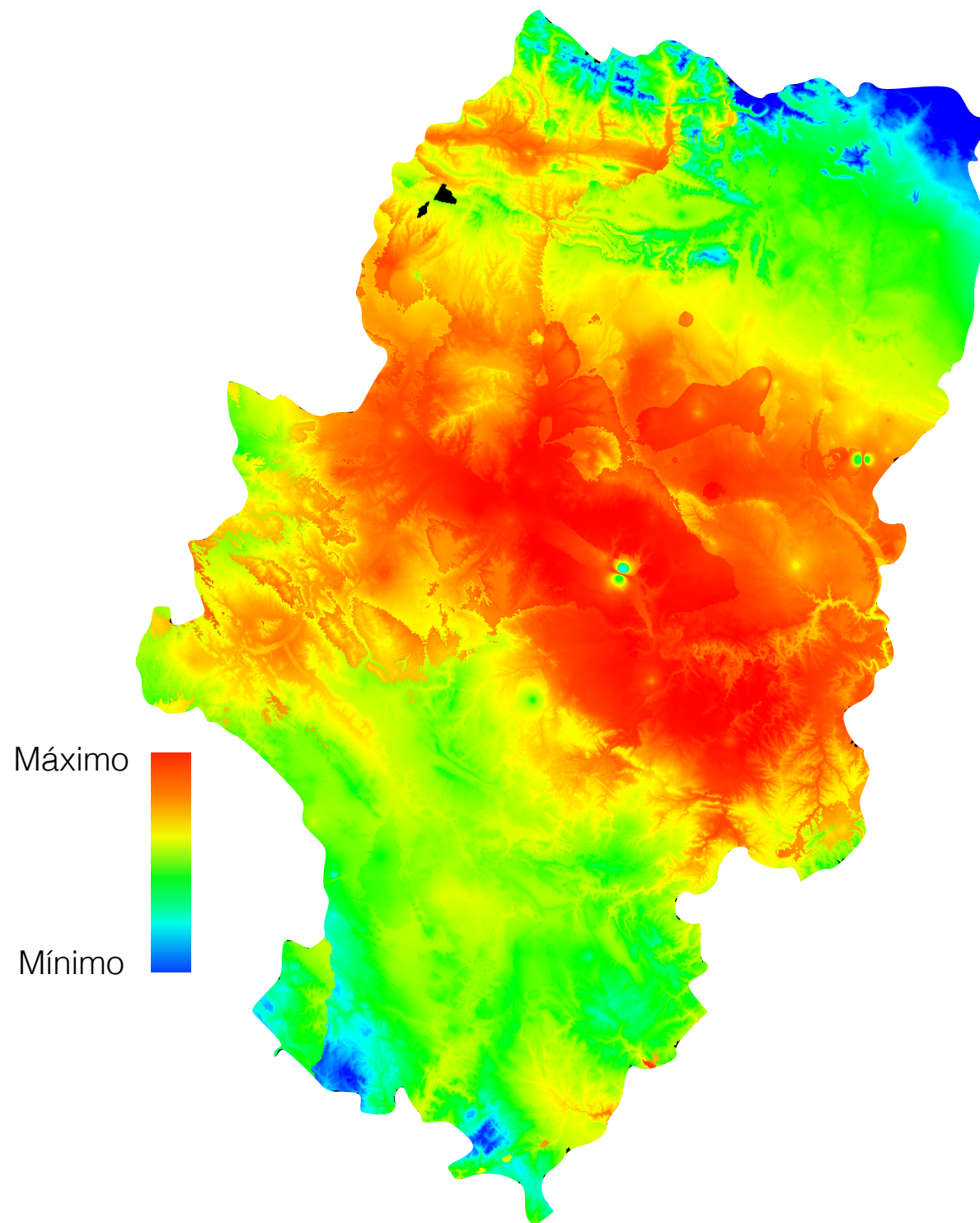


BIO12
Precipitación anual (mm)

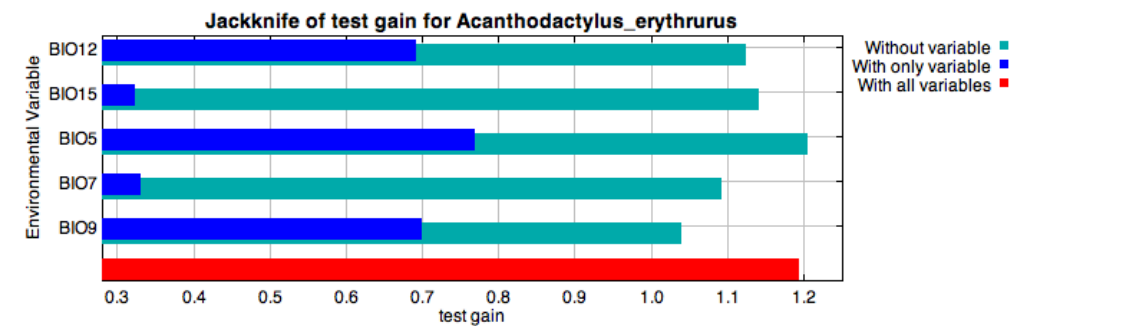
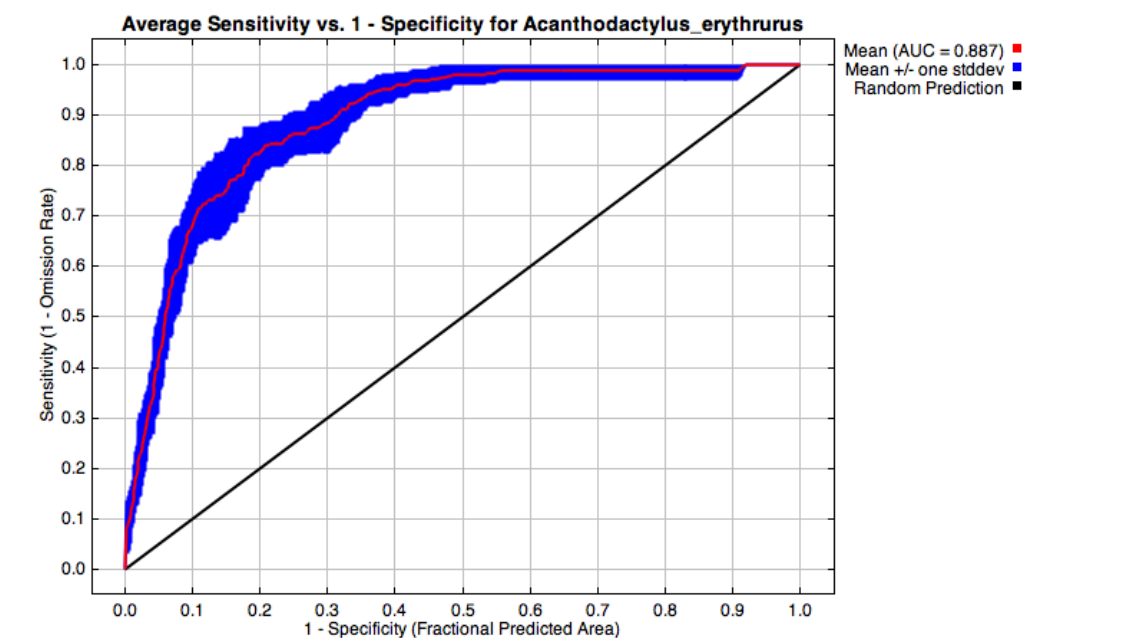
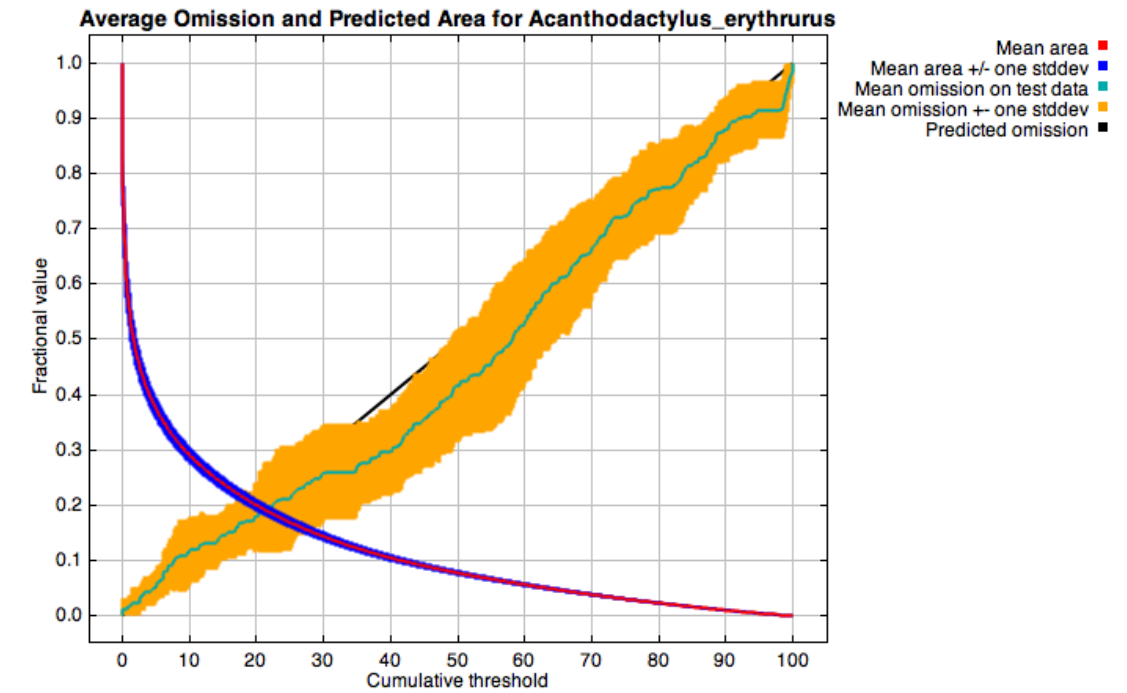


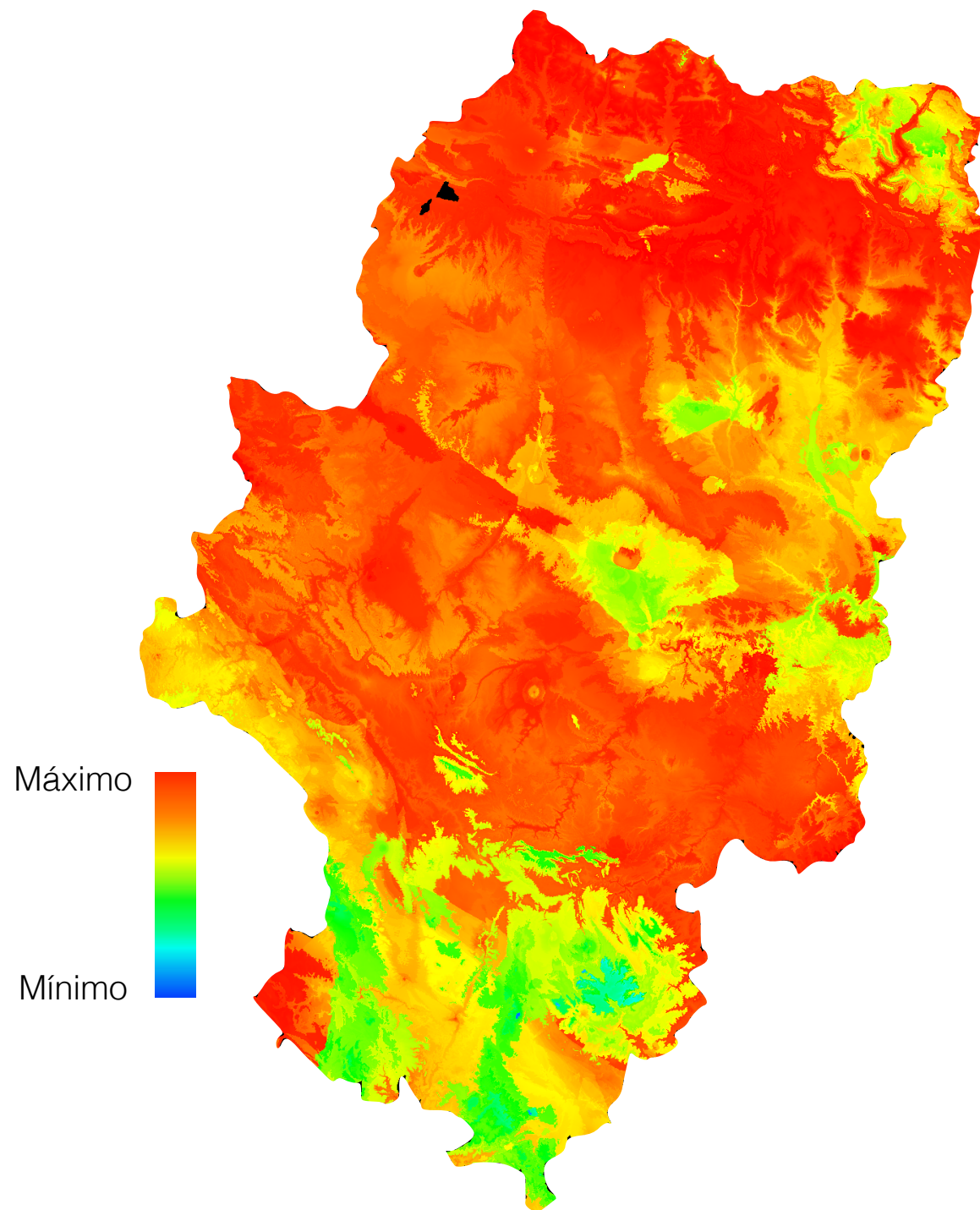
BIO15
Estacionalidad de precipitación (mm)

Anexo 2

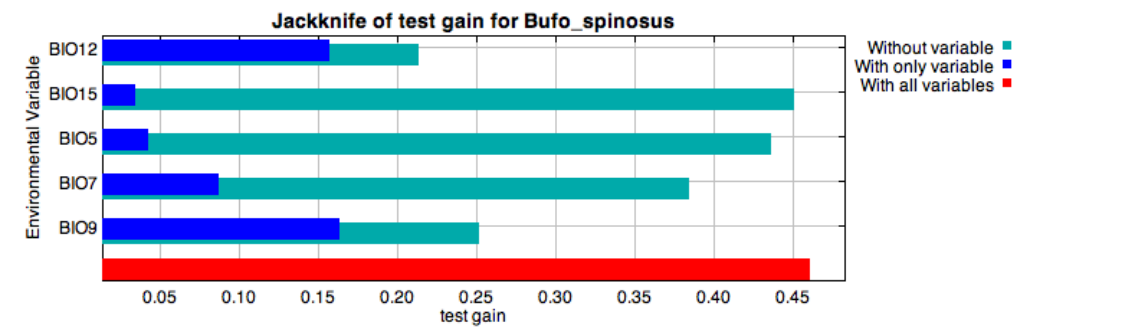
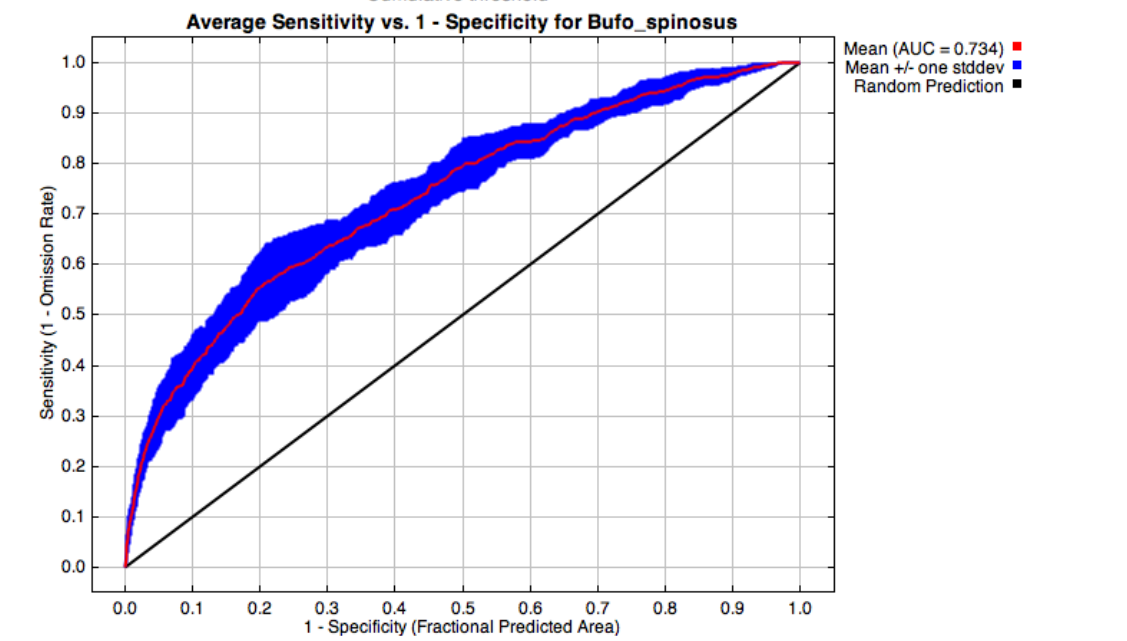
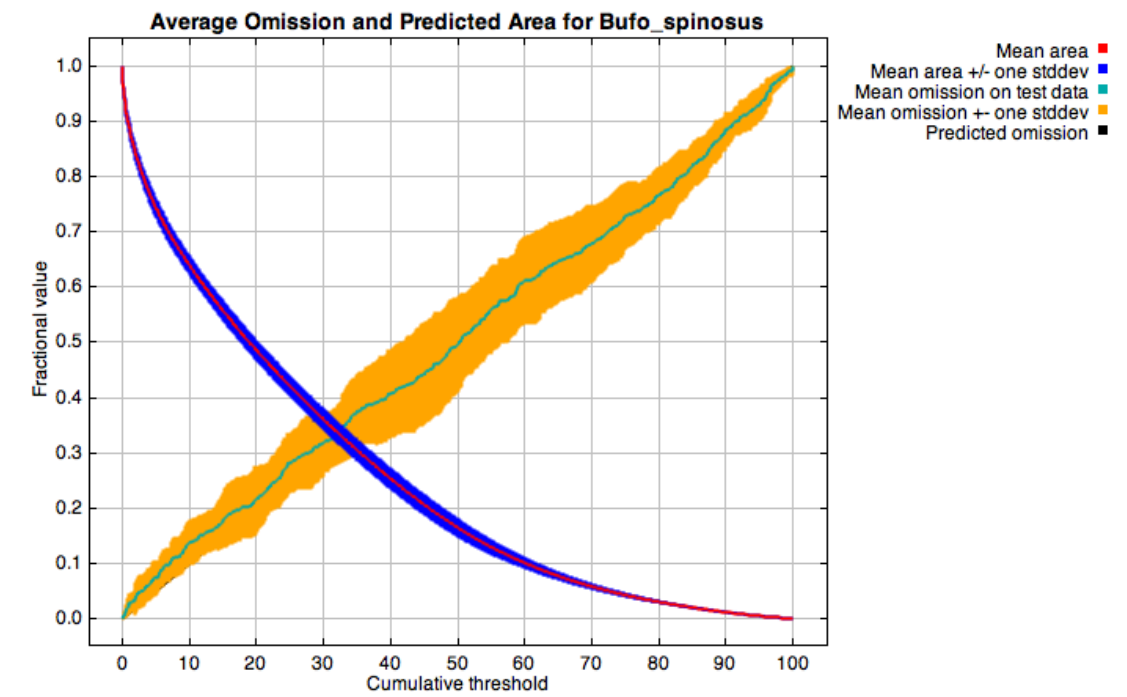


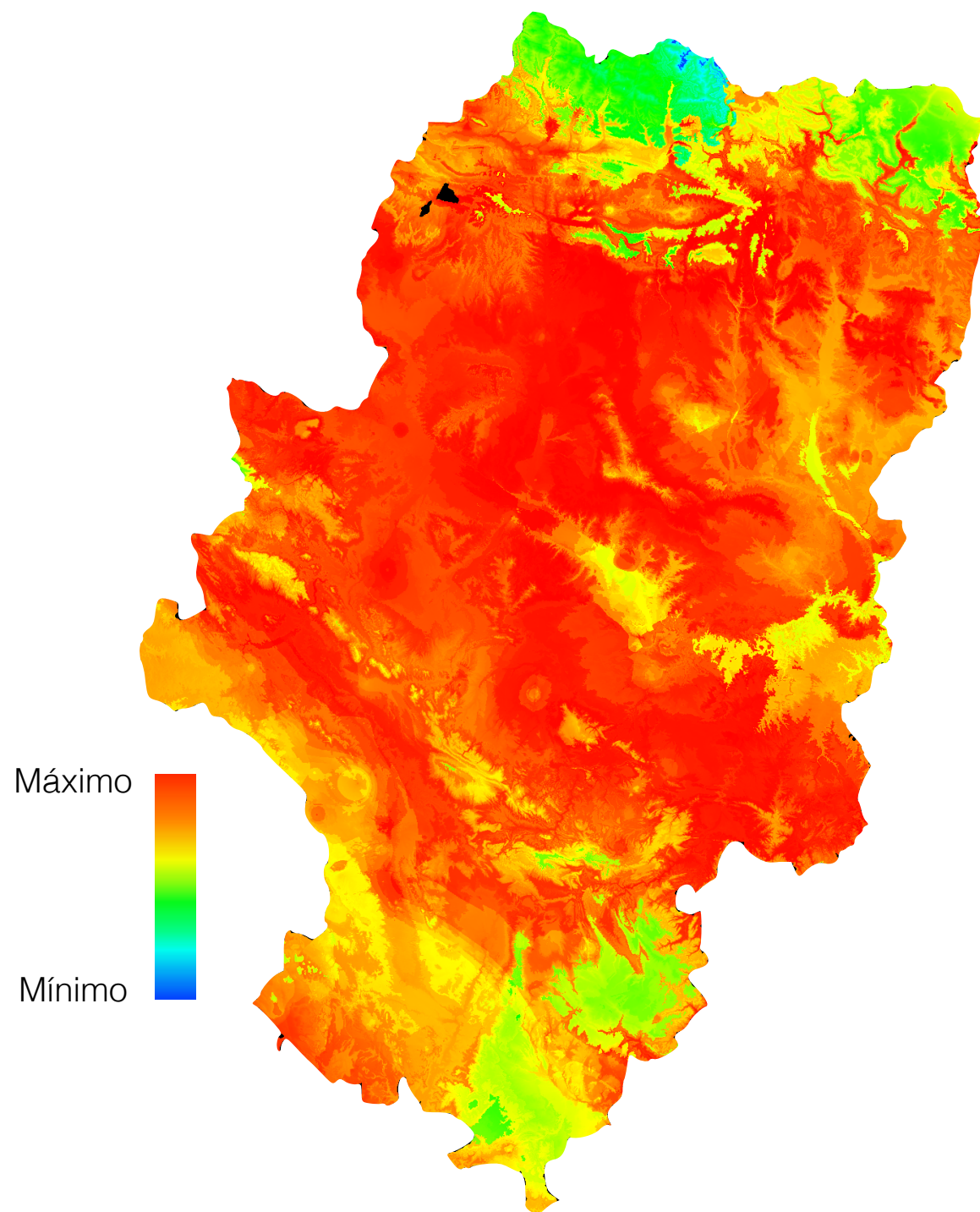
Acanthodactylus erythrurus



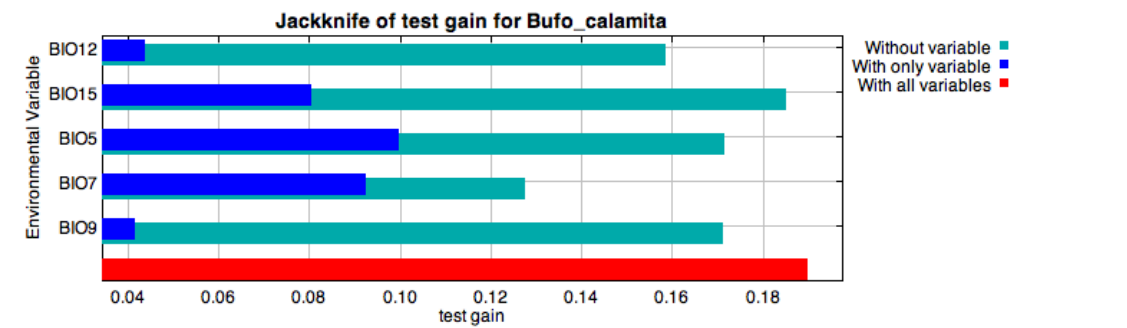
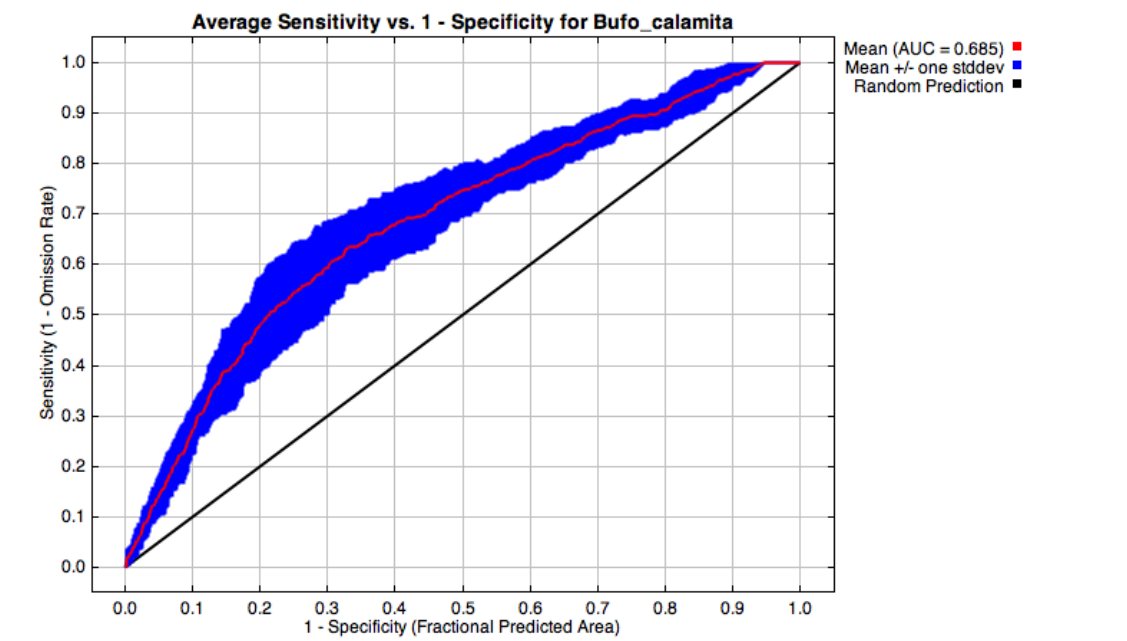
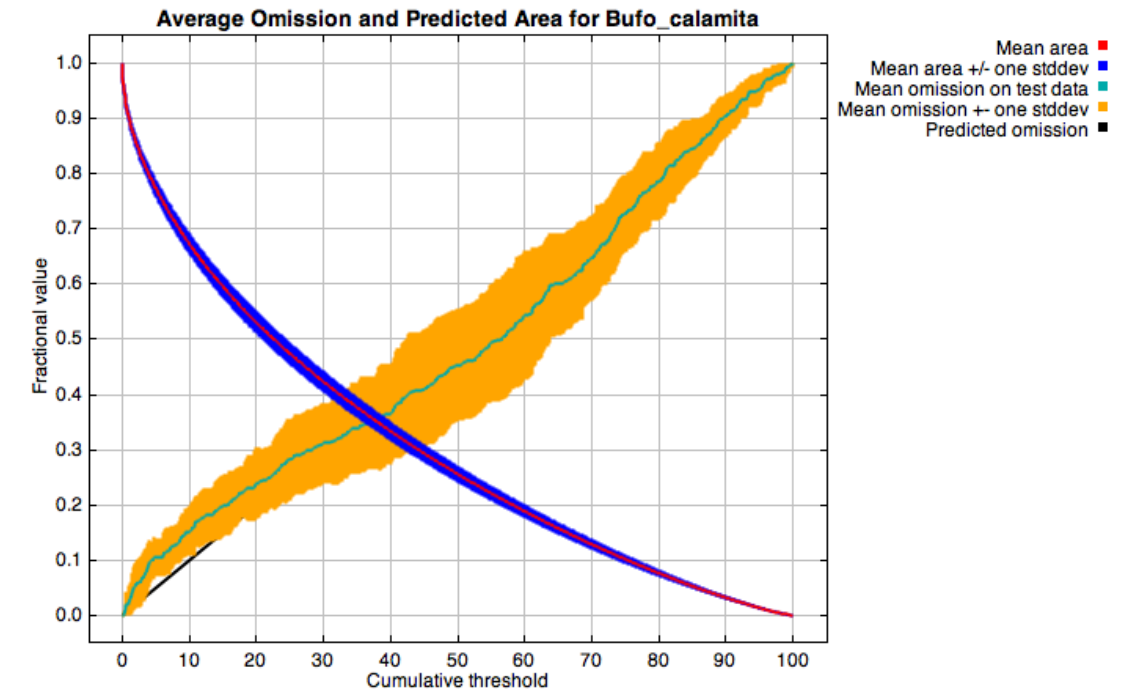


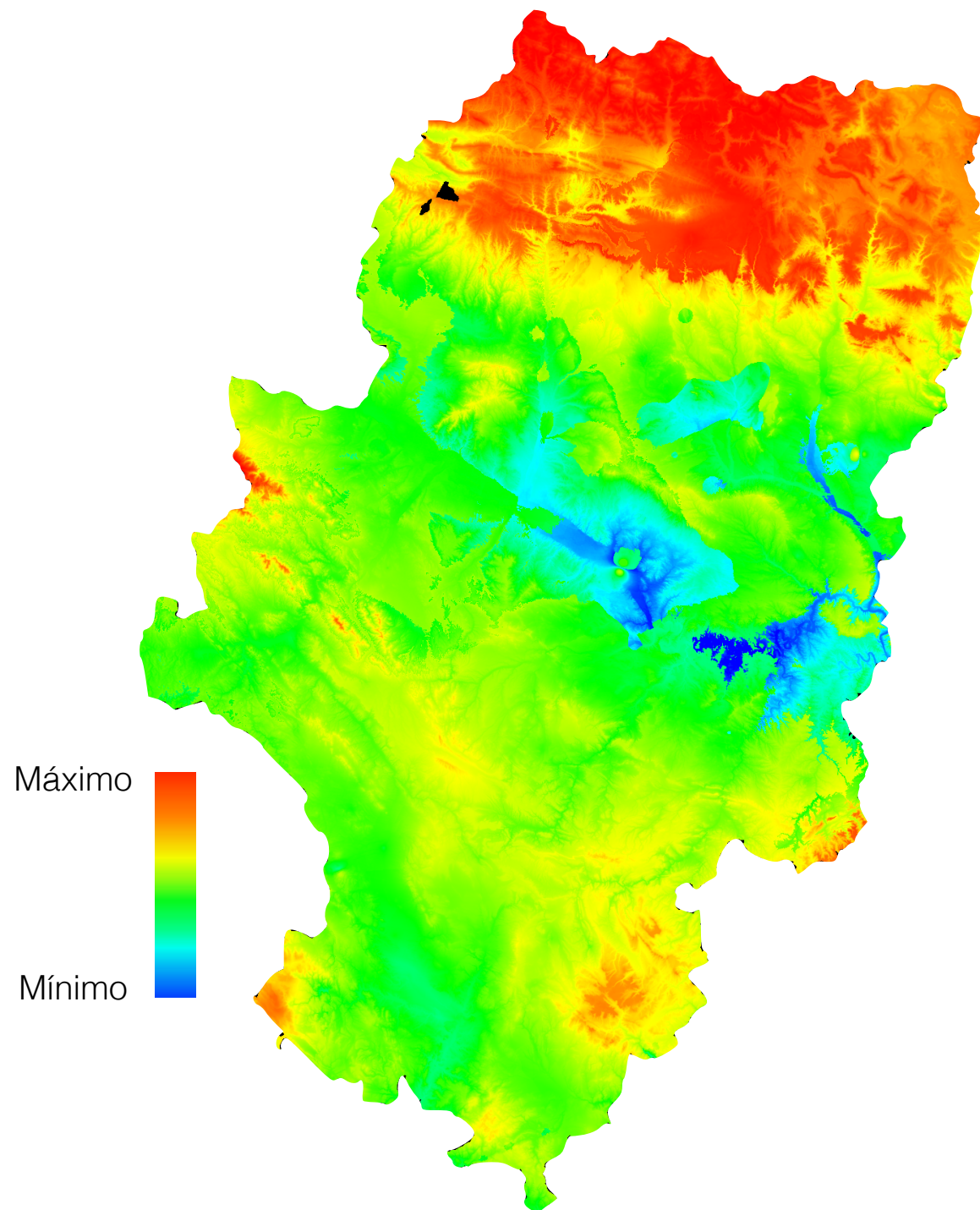
Bufo spinosus



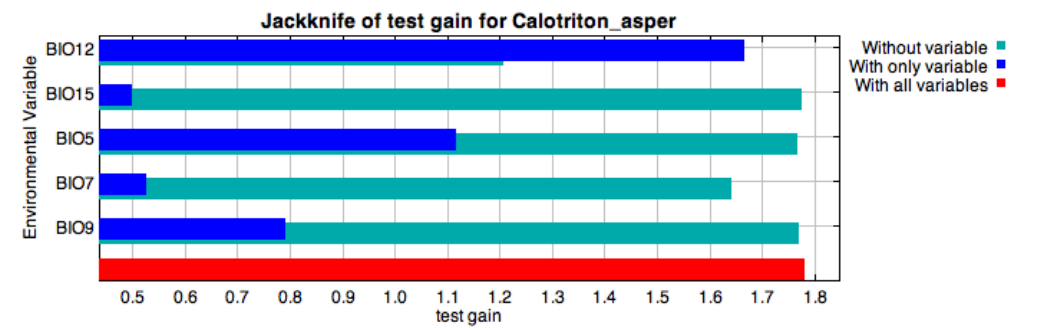
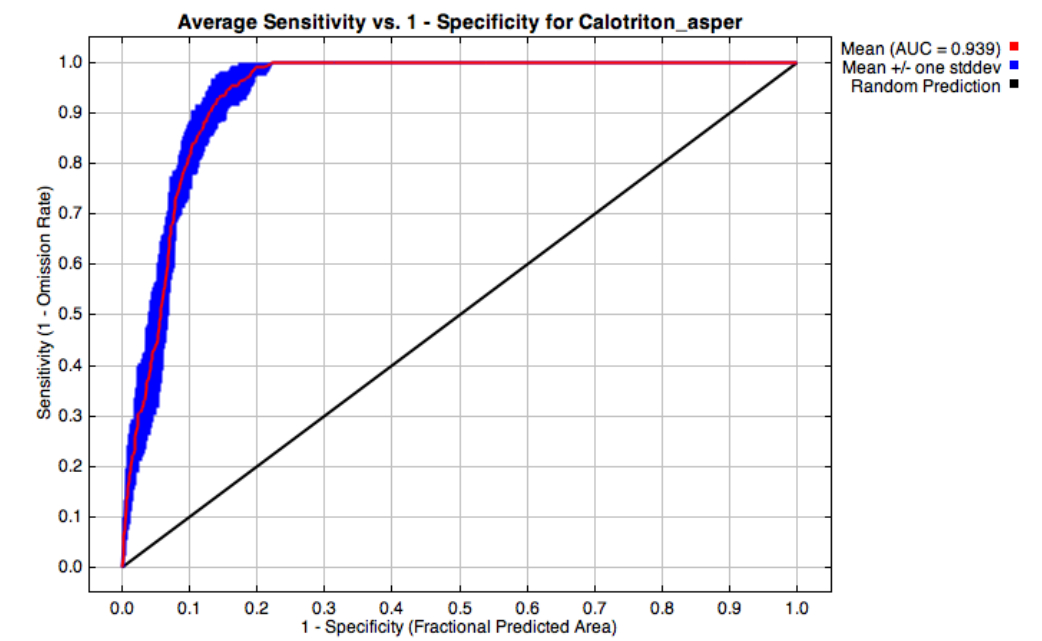
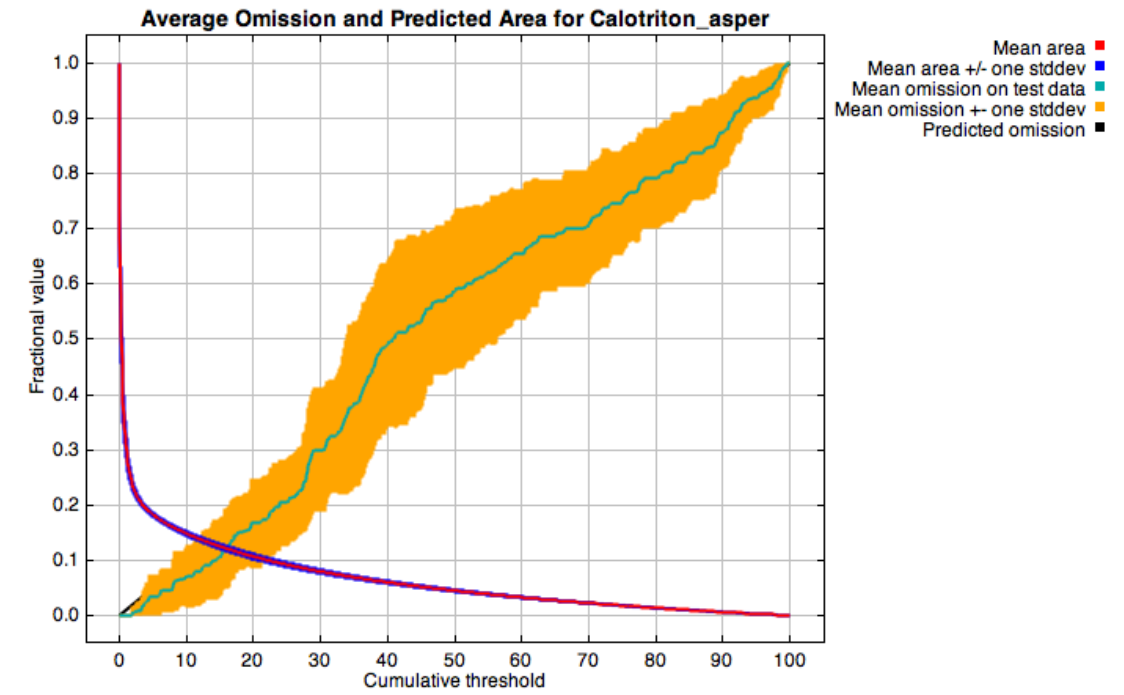


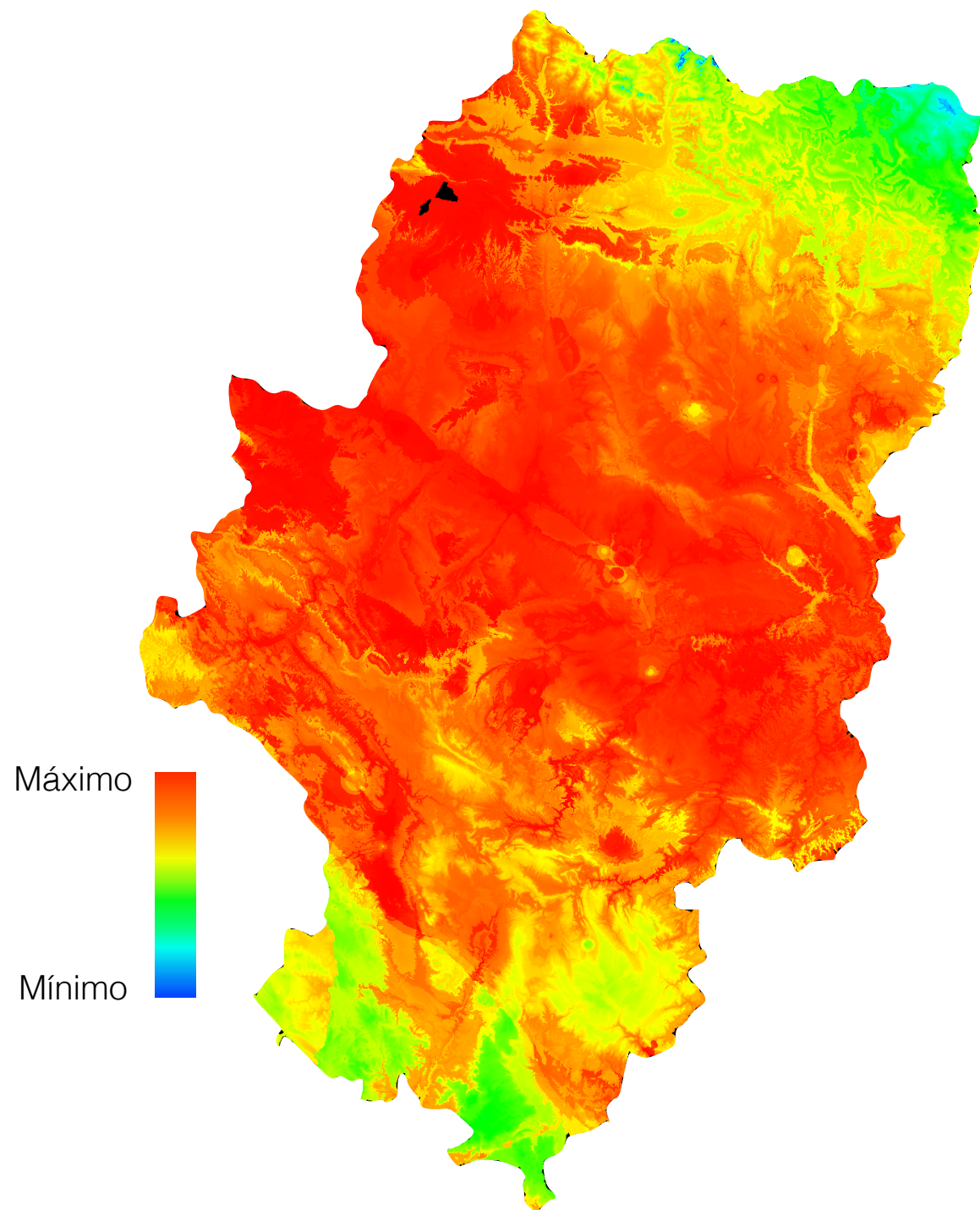
Bufo calamita



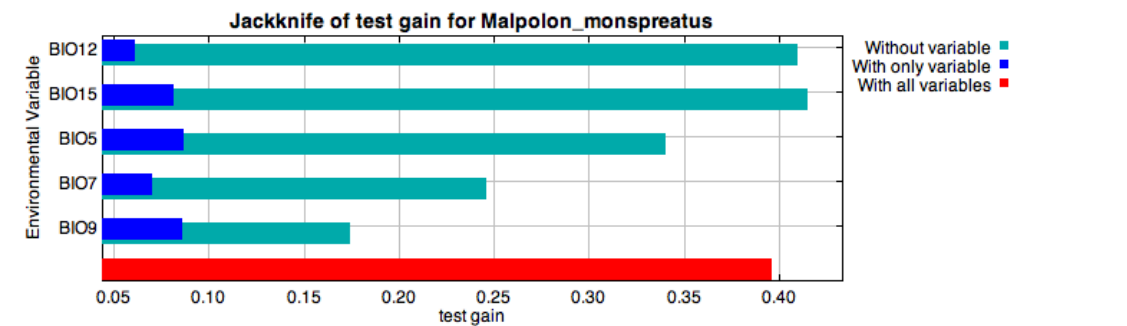
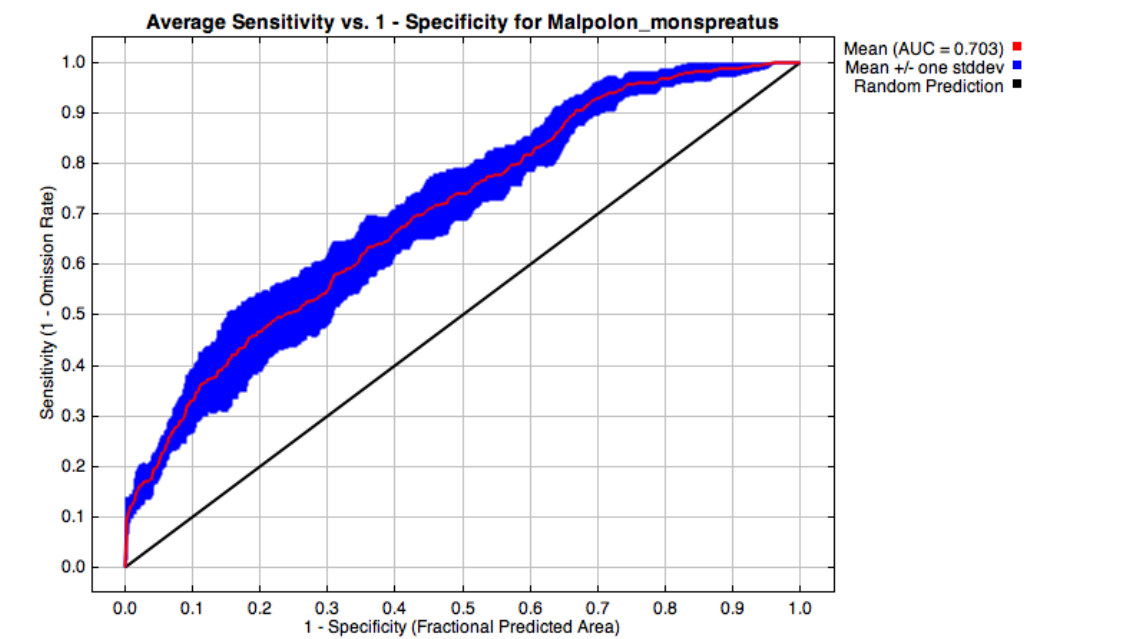
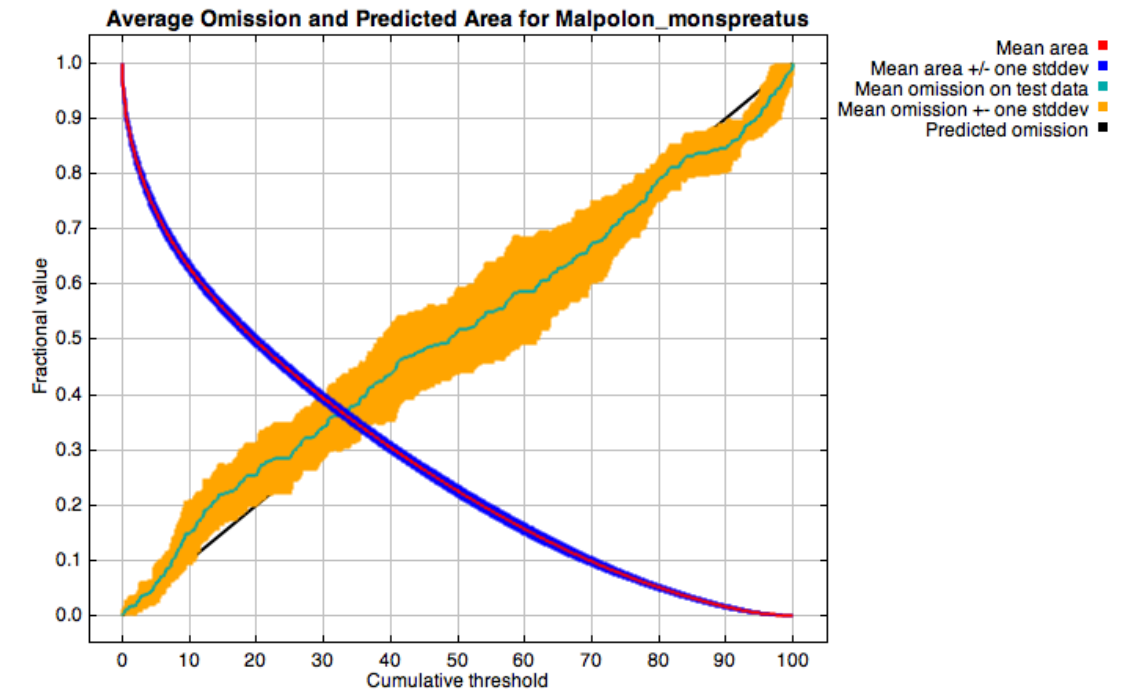


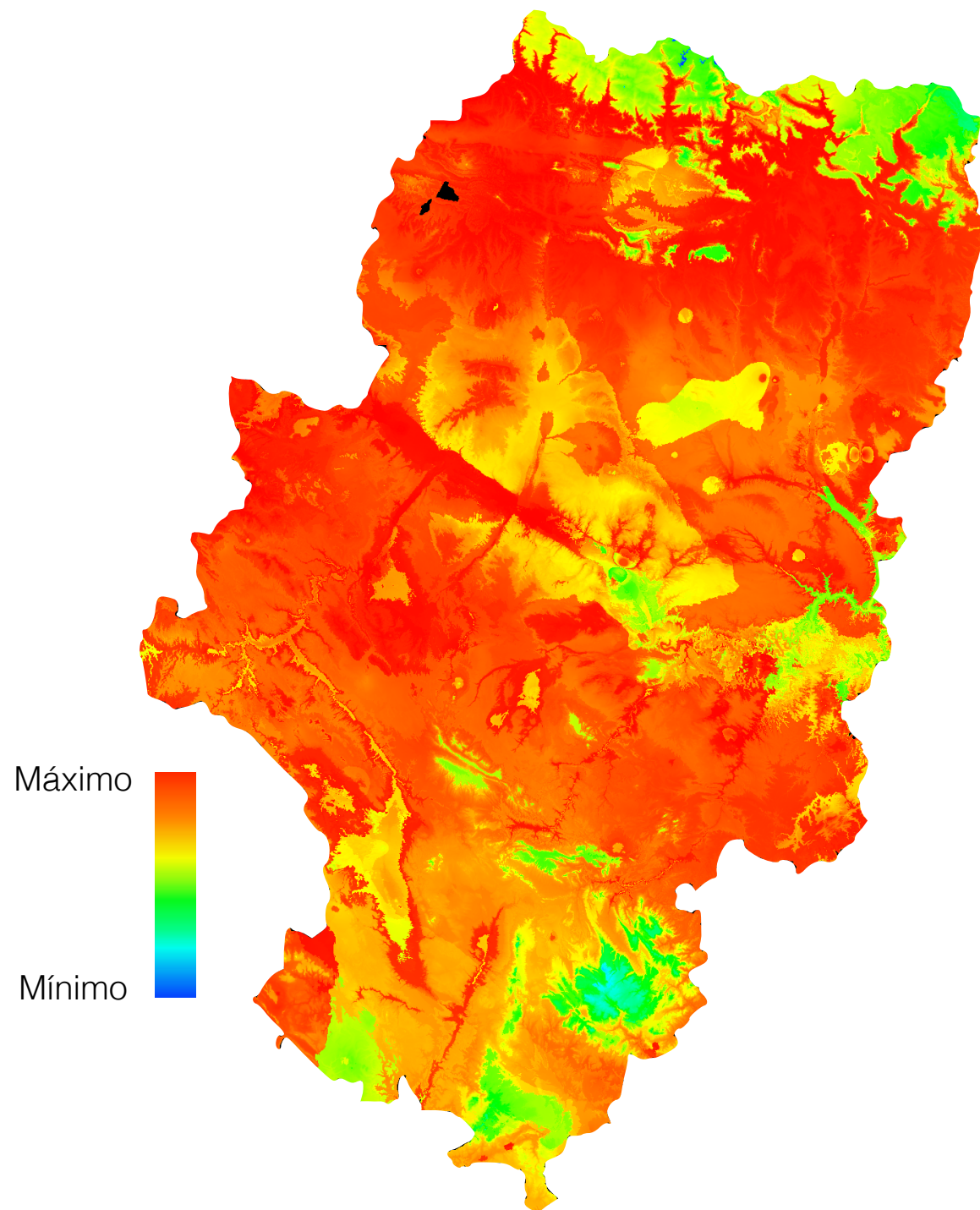
Calotriton asper



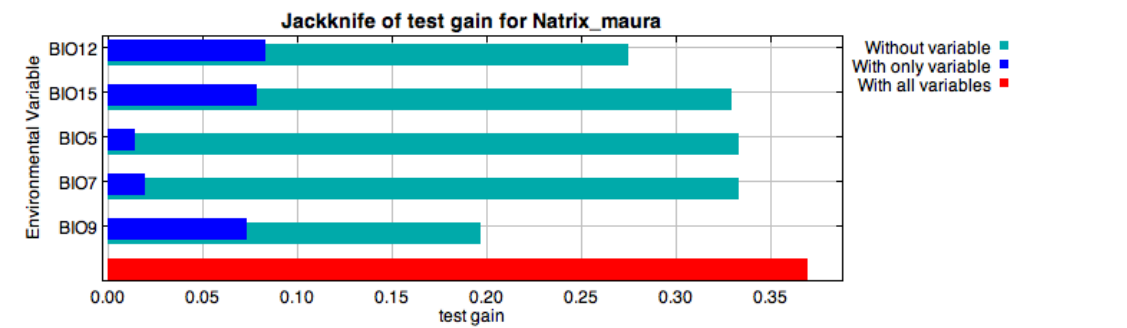
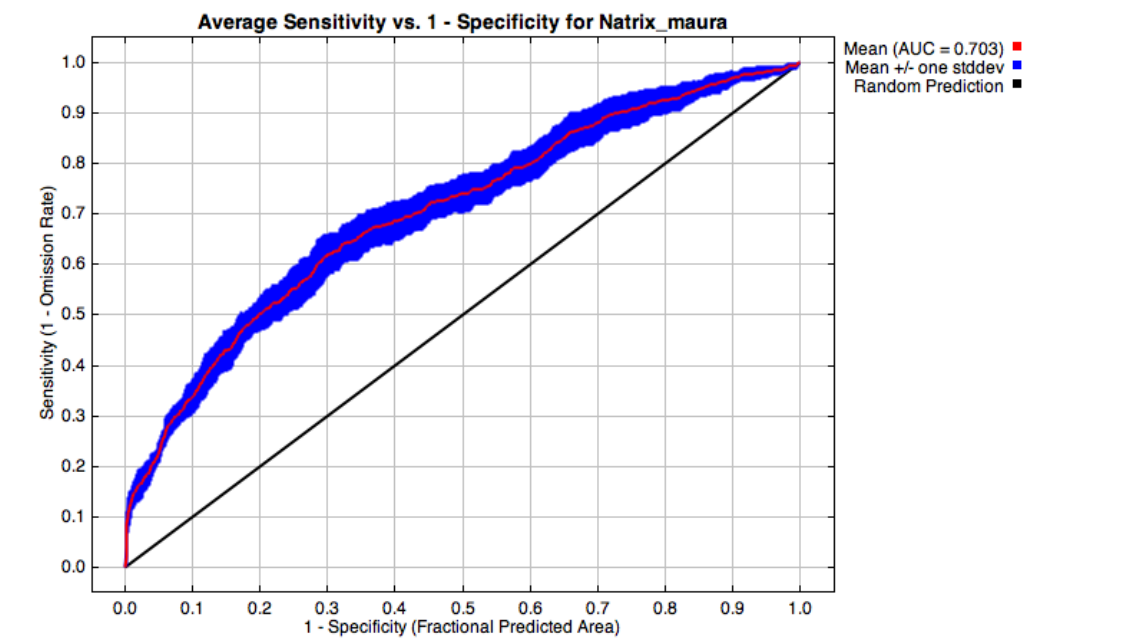
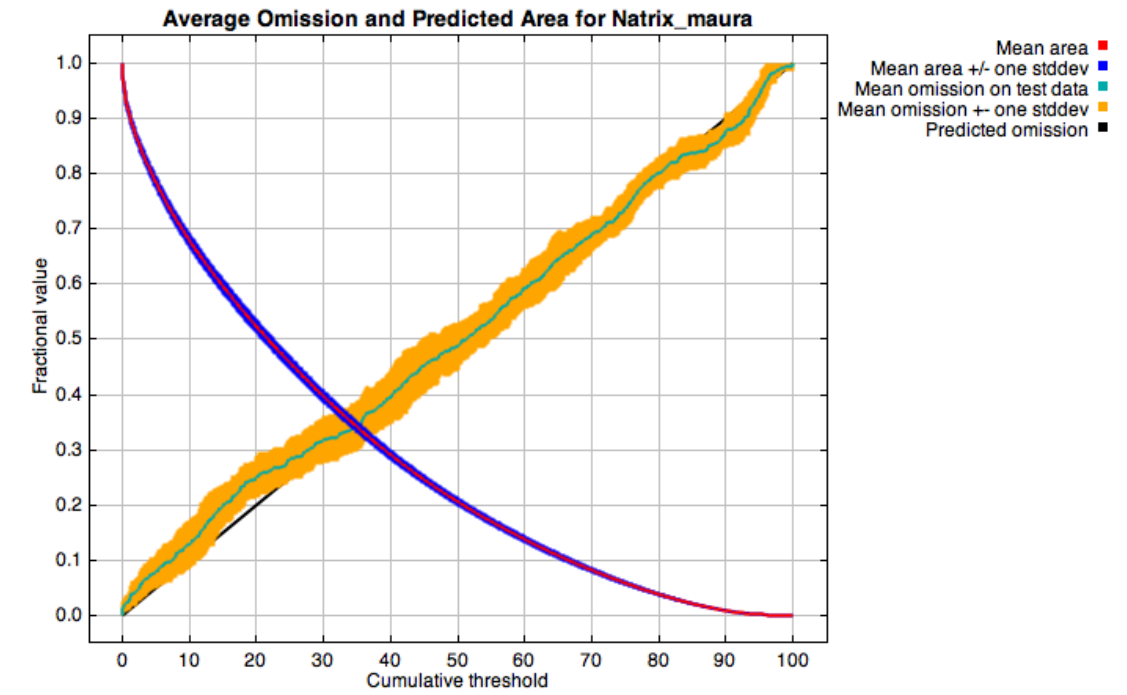


Malpolon monspessulanus



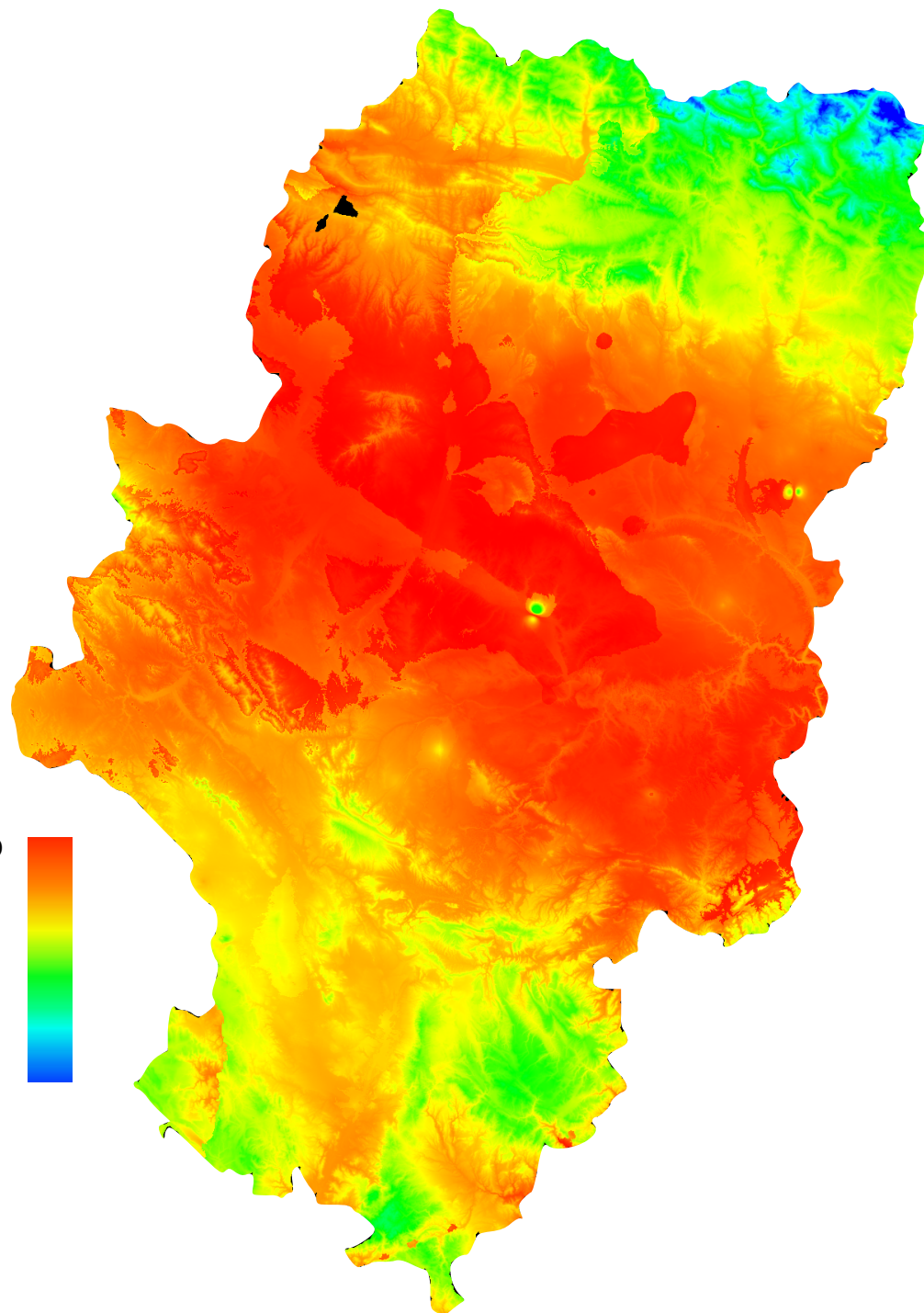


Natrix maura

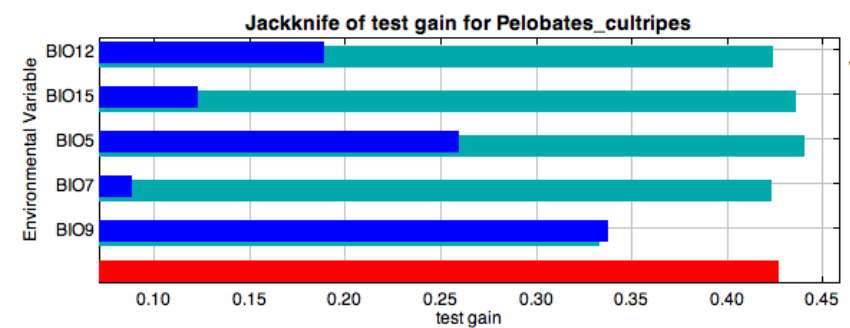
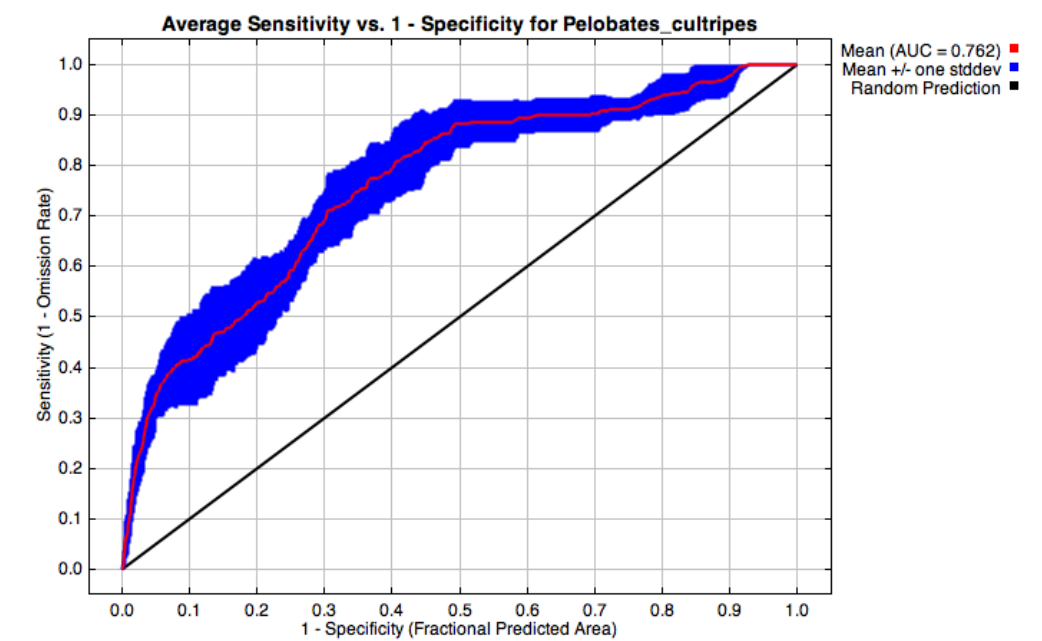
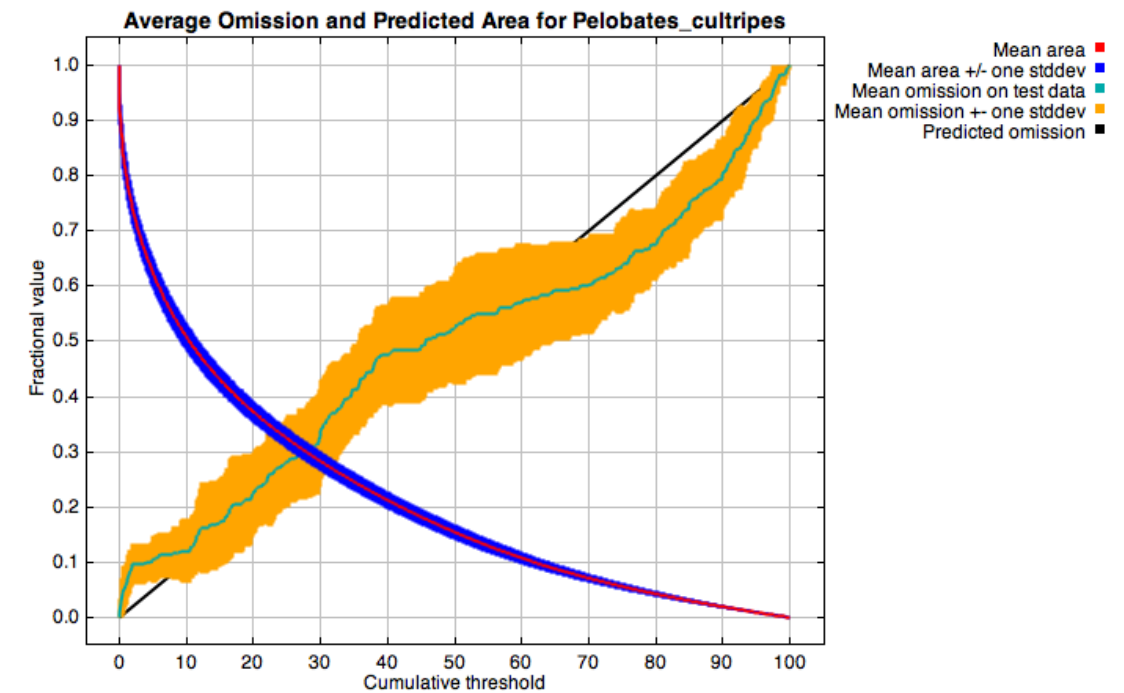


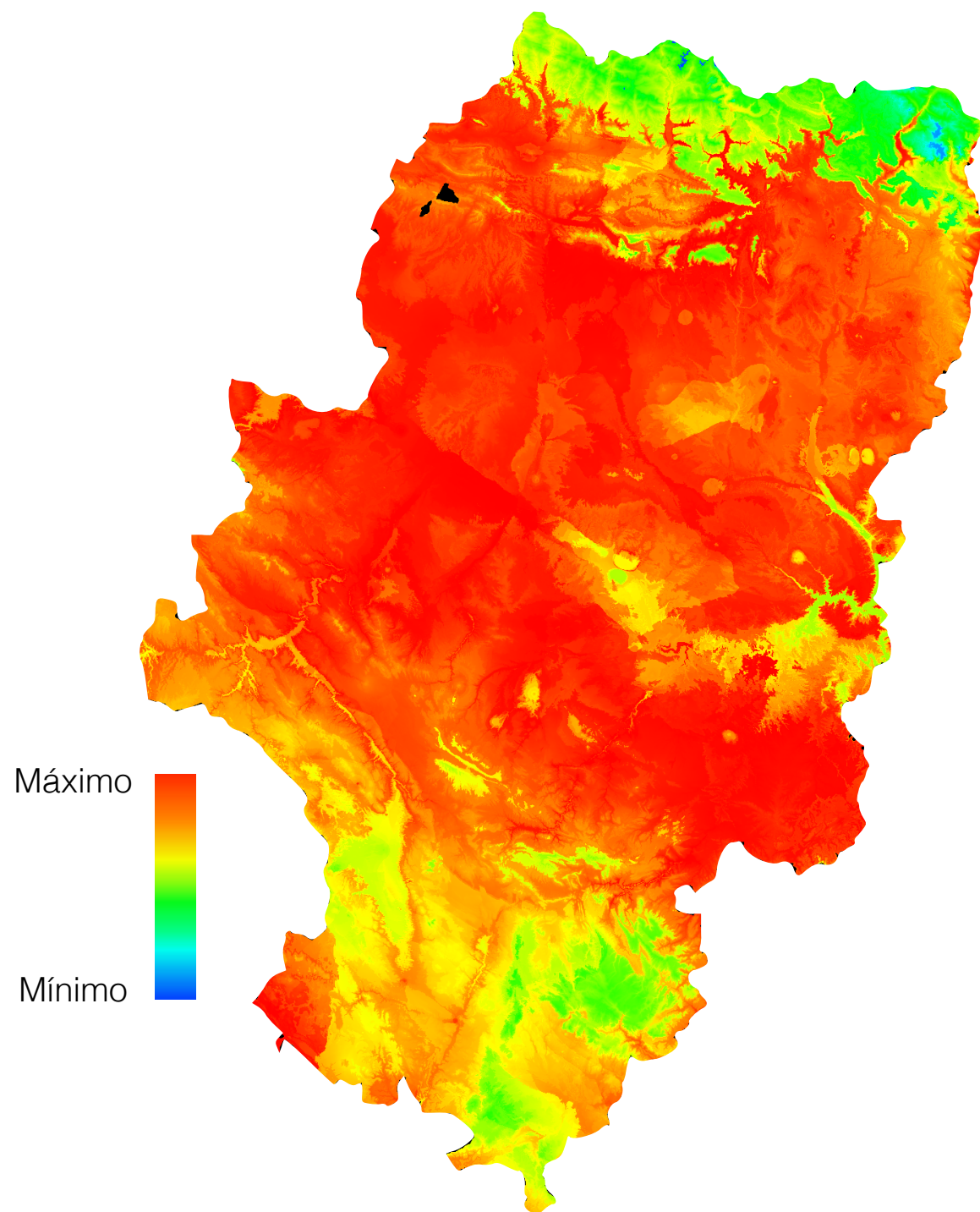
Máximo

Mínimo

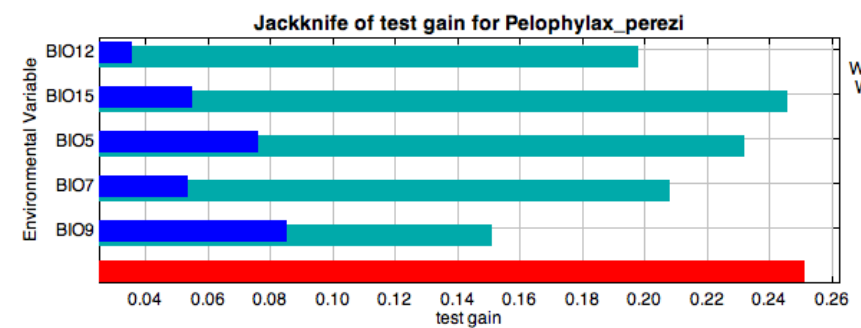
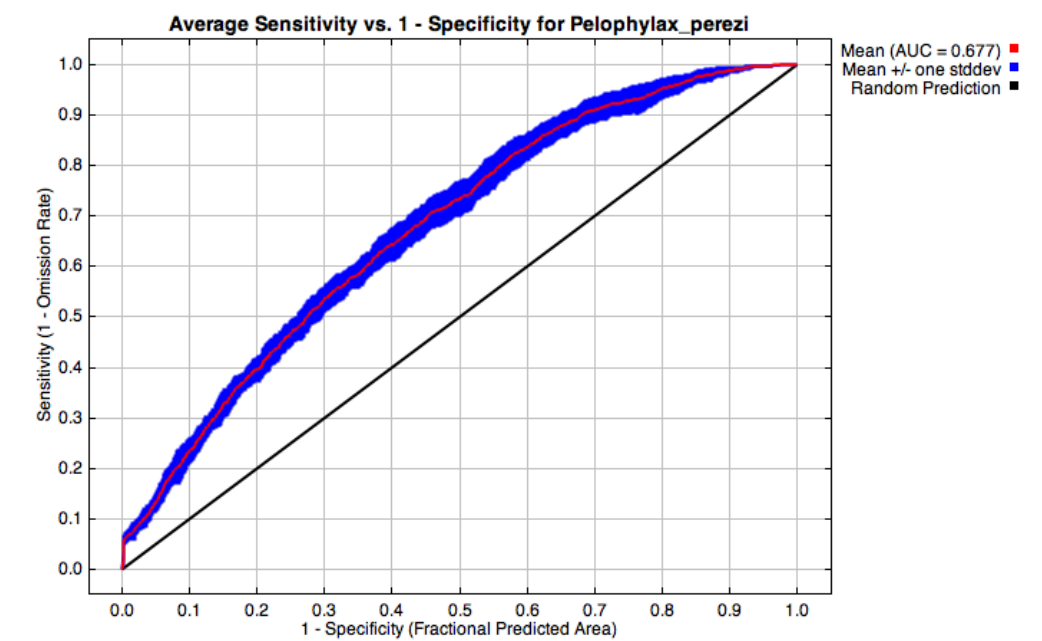
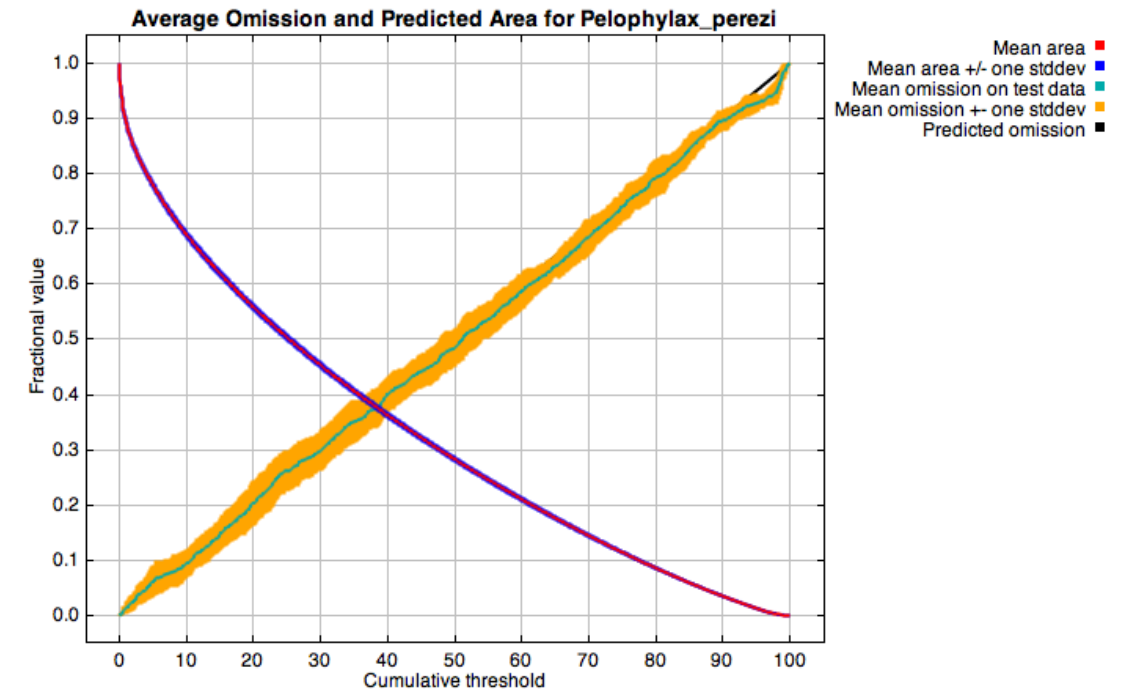


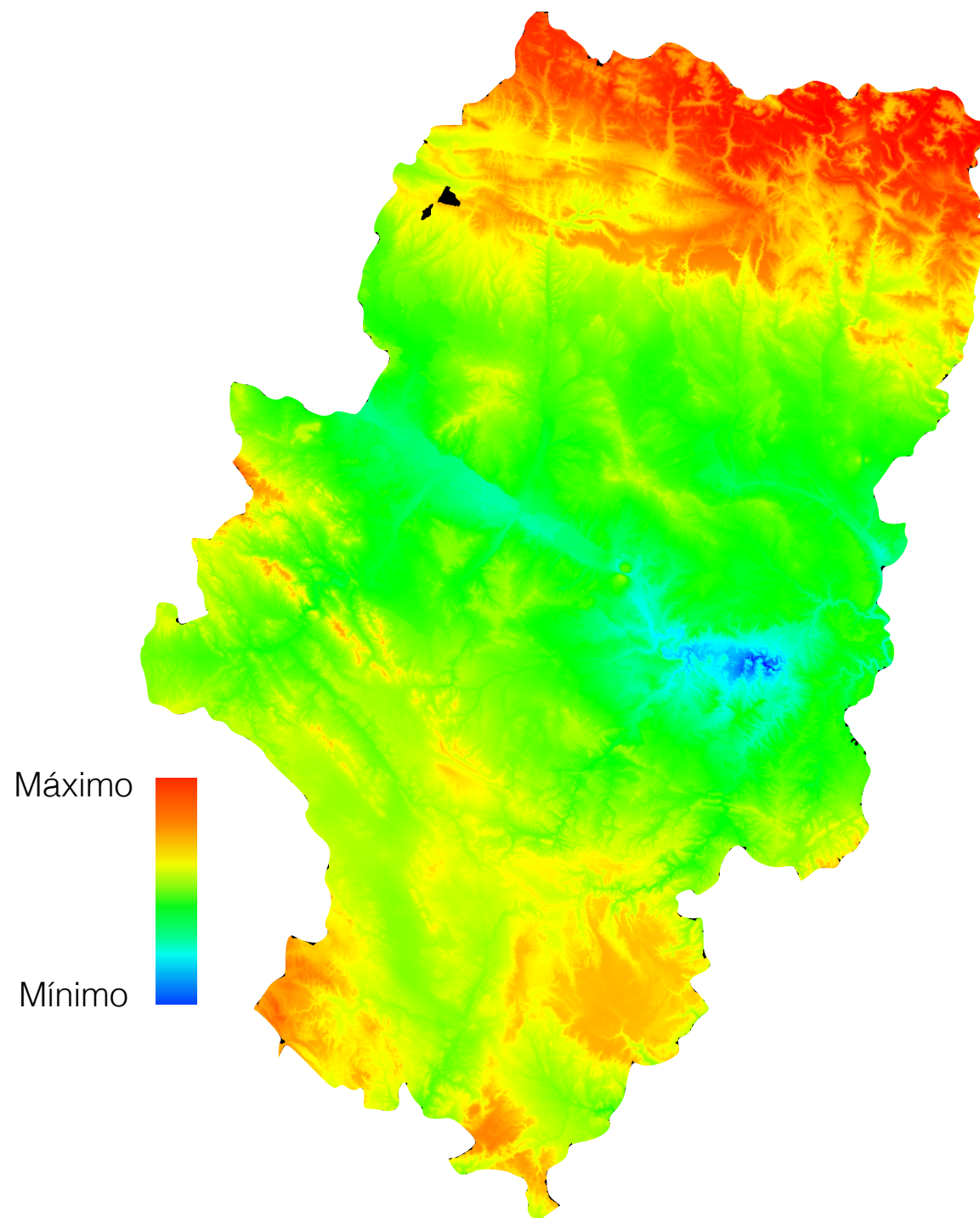
Pelobates cultripes



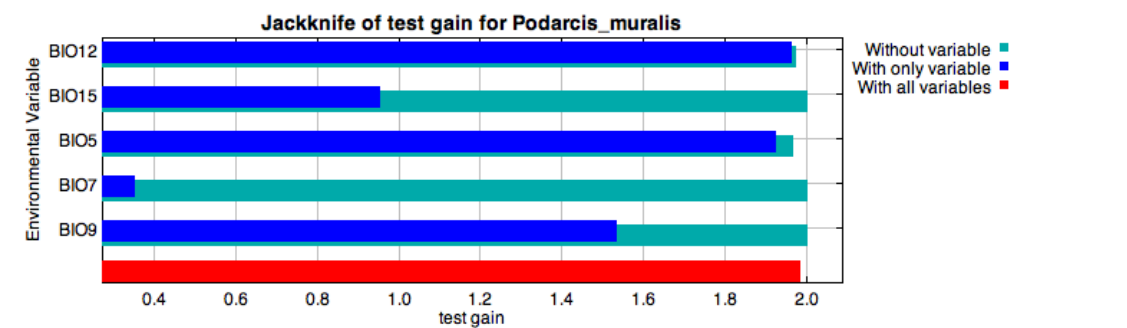
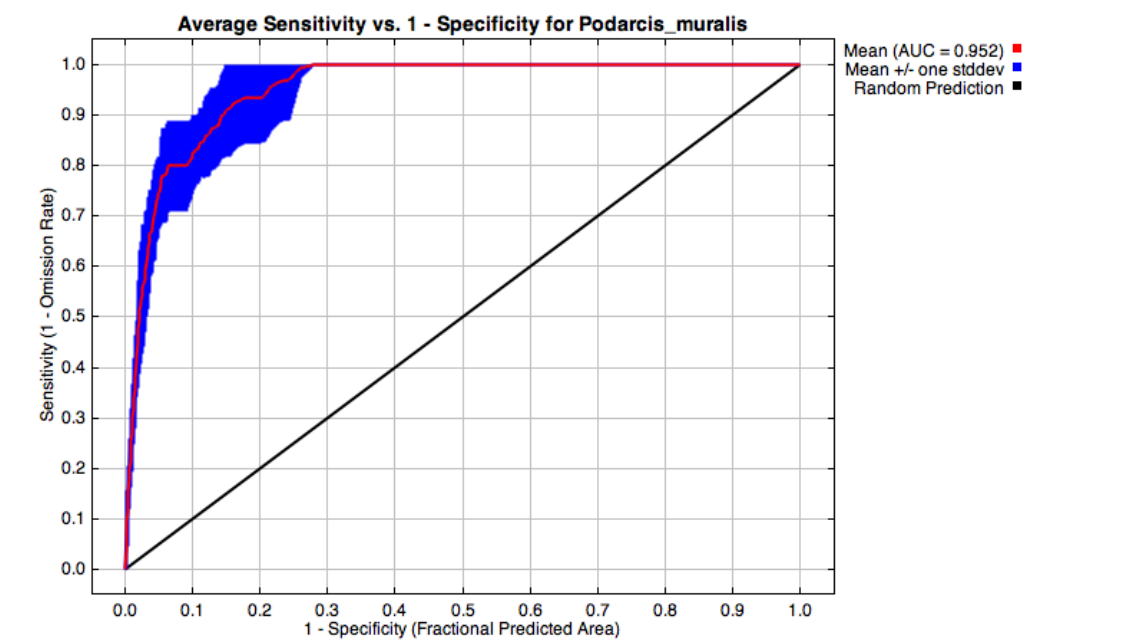
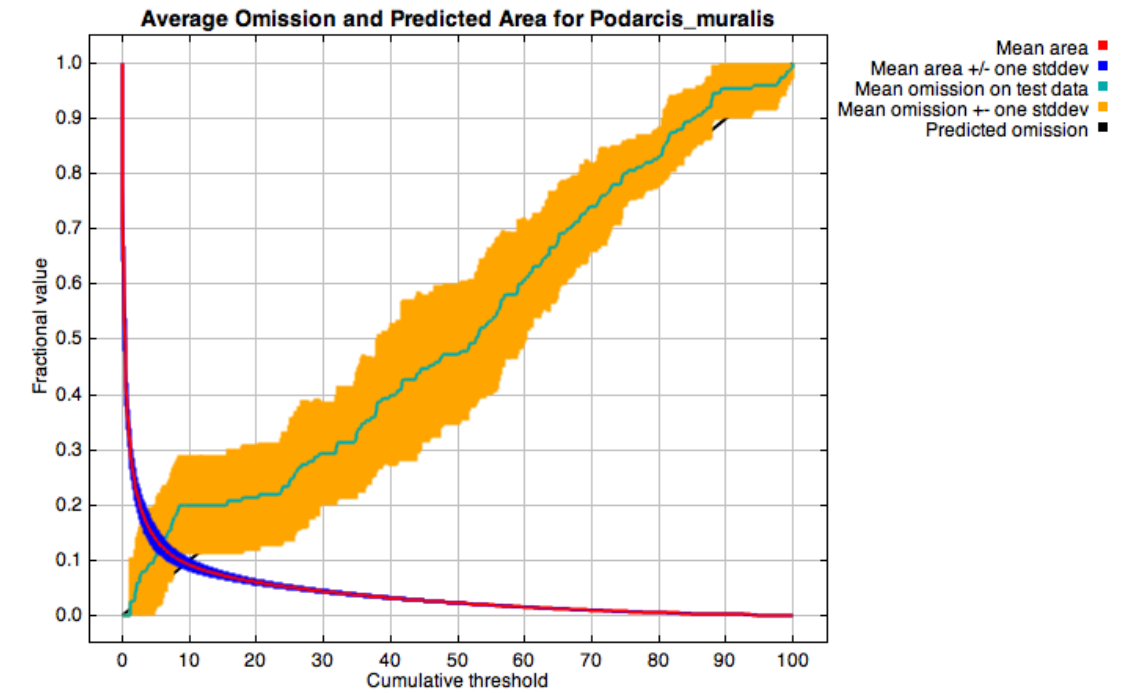


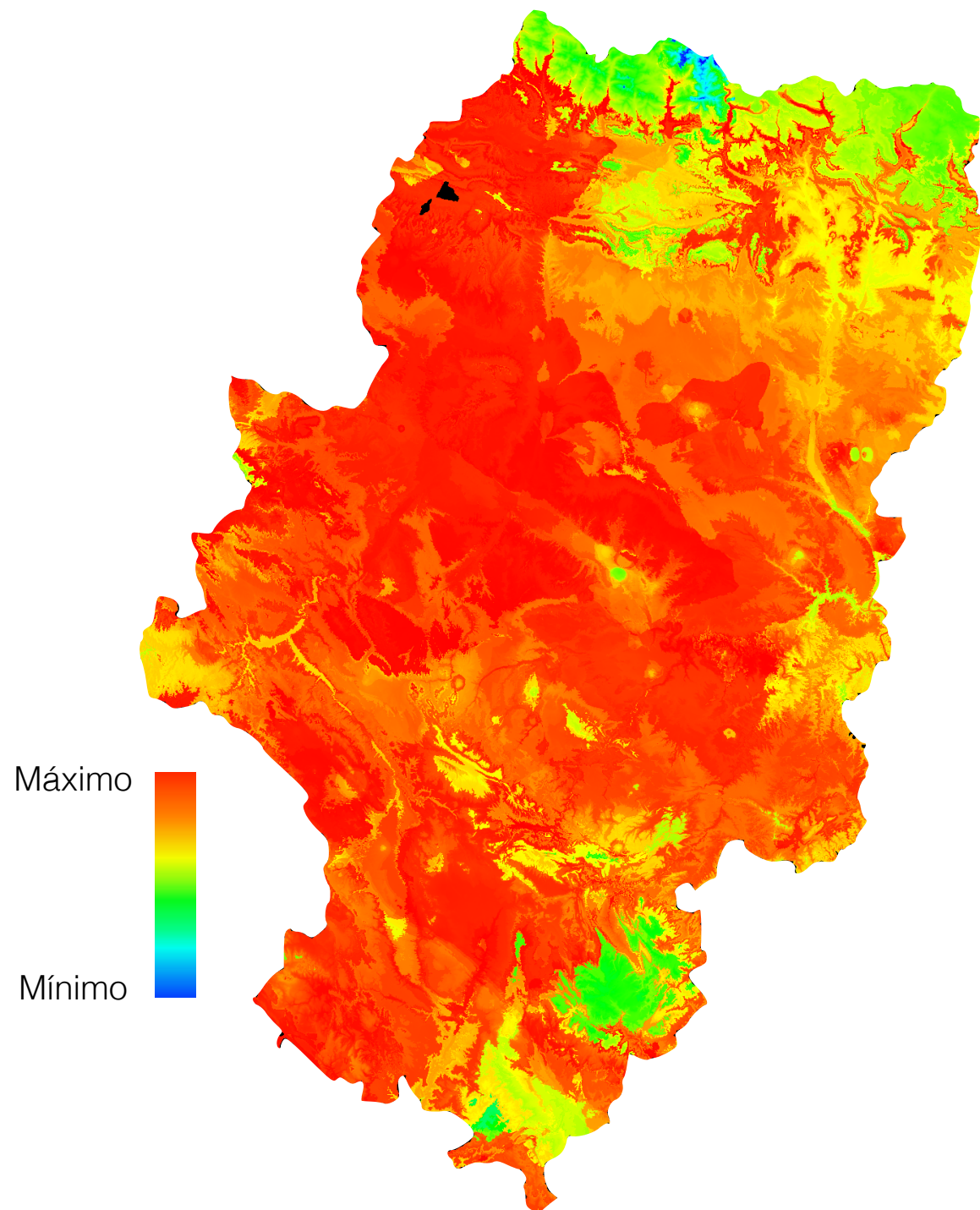
Pelophylax perezii



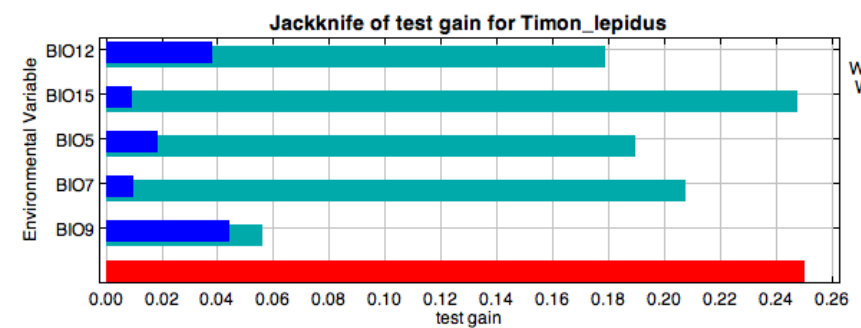
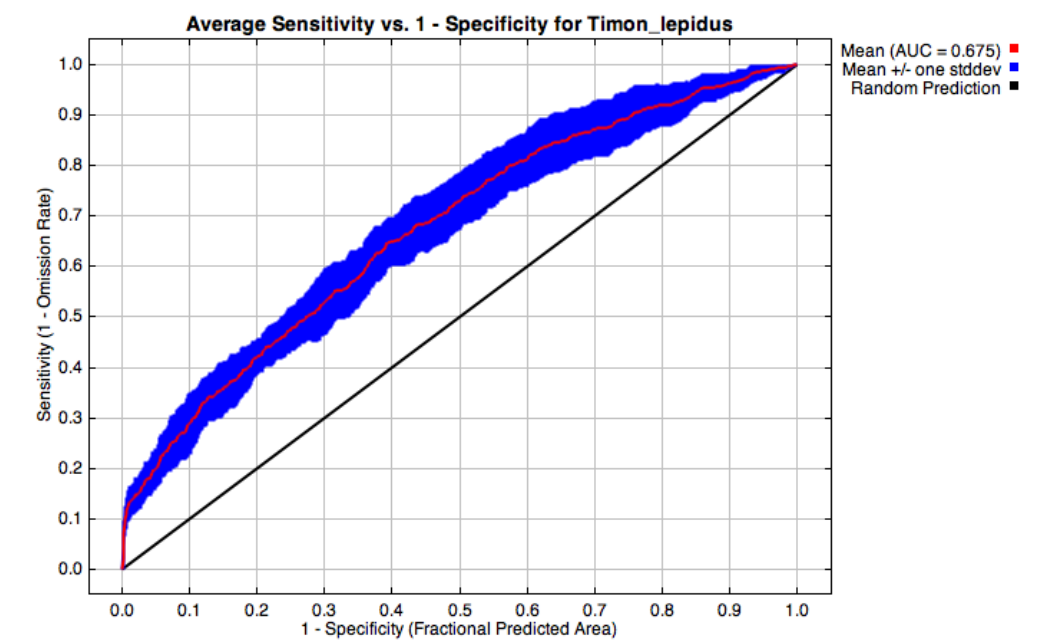
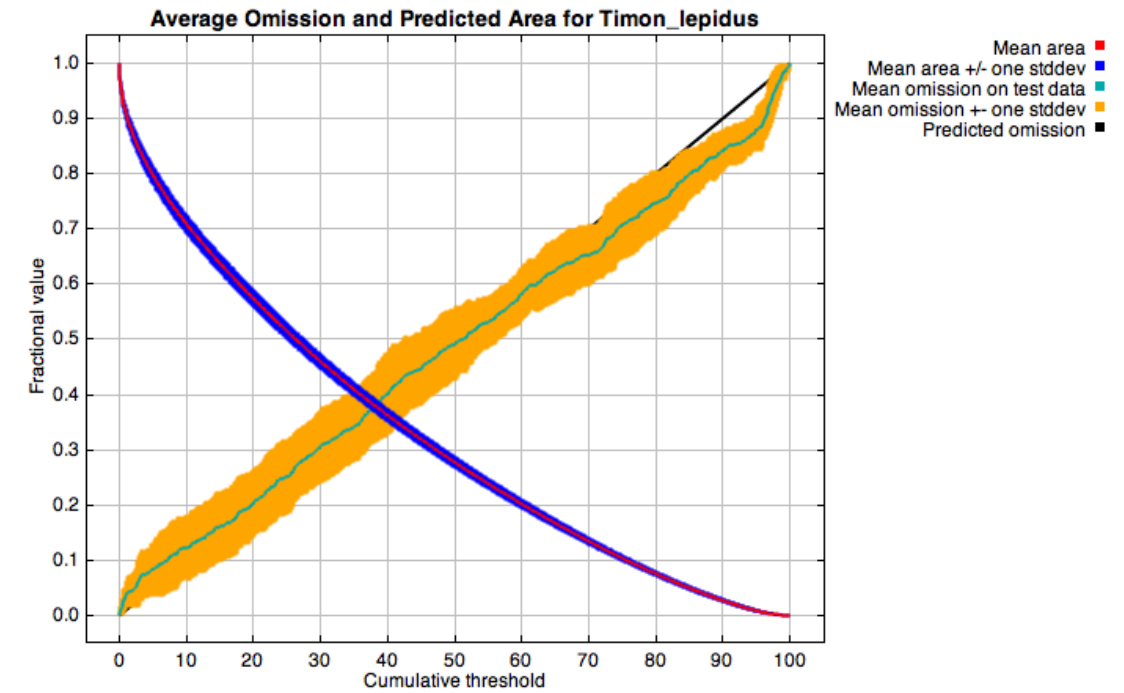


Podarcis muralis





Timon lepidus



Anexo 3


```
1 <!DOCTYPE html>
2 <html>
3 <head>
4     <meta charset="UTF-8">
5     <title>Atlas Herpetológico de Aragón</title>
6     <script
7         src="http://www.openlayers.org/api/0penLayers.js">
8     </script>
9     <style type="text/css">
10         #miMapa {
11             width: 100%;
12             height: 600px;
13             border: solid 2px #808080;
14         }
15
16         #legend
17         {
18             width: 100%;
19             float: right;
20         }
21
22         .legend_elem
23         {
24             position: relative;
25             float: left;
26             width: 40%;
27             display: inline-block;
28             margin: 1%;
29             padding: 1%;
30         }
31
32         h3
33         {
34             width: 100%;
35             text-align: center;
36         }
37
38     </style>
39     <script type="text/javascript">
40
41         // Definimos las variables
42
43         var mapa, base, a1, a2, a3, r1, r2, r3, info, leyenda ;
44         var lon = -0.60;
45         var lat = 41.40;
46         var zoom = 8;
47
48
49
50         // Definimos una función que arranque al cargar la página
51         window.onload= function() {
```

```
52 // Creamos el mapa
53 mapa = new OpenLayers.Map( 'miMapa' );
54
55 // Creamos un limite
56 //limite = new OpenLayers.Layer.WMS(
57 //    "Orto",
58 //    "http://idearagon.aragon.es/AragonFoto",
59 //    {layers: 'MODIS,spot,orto_reciente',
60 //    transparent: "false"
61 //    }
62 //);
63
64 //);
65 a1 = new OpenLayers.Layer.WMS(
66     "Rana Común",
67     "http://idearagon.aragon.es/DIT?",
68     {layers: '141',
69     transparent: "false",
70     isBaseLayer: "false"
71     }
72 );
73
74 a2 = new OpenLayers.Layer.WMS(
75     "Sapo de espuelas",
76     "http://idearagon.aragon.es/DIT?",
77     {layers: '142',
78     transparent: "false",
79     isBaseLayer: "false"
80     }
81 );
82
83 a3 = new OpenLayers.Layer.WMS(
84     "Sapo corredor",
85     "http://idearagon.aragon.es/DIT?",
86     {layers: '143',
87     transparent: "false",
88     isBaseLayer: "false"
89     }
90 );
91
92 r1 = new OpenLayers.Layer.WMS(
93     "Lagarto ocelado",
94     "http://idearagon.aragon.es/DIT?",
95     {layers: '145',
96     transparent: "false",
97     isBaseLayer: "false"
98     }
99 );
100
101 r2 = new OpenLayers.Layer.WMS(
102     "Culebra viperina",
```

```
103         "http://idearagon.aragon.es/DIT?",
104         {layers: '146',
105         transparent: "false",
106         isBaseLayer: "false"
107         }
108     );
109     r3 = new OpenLayers.Layer.WMS(
110         "Culebra bastarda",
111         "http://idearagon.aragon.es/DIT?",
112         {layers: '147',
113         transparent: "false",
114         isBaseLayer: "false"
115         }
116     );
117
118
119     base = new OpenLayers.Layer.WMS(
120         "Límites",
121         "http://idearagon.aragon.es/DIT?",
122         {layers: '139,66',
123         transparent: "true",
124         isBaseLayer: "true",
125         singleTile: "true", ratio: 1
126         }
127     );
128
129     //mapa.addLayer(limite);
130
131
132     mapa.addLayer(a3);
133     mapa.addLayer(r2);
134     mapa.addLayer(r3);
135     mapa.addLayer(a2);
136     mapa.addLayer(a1);
137     mapa.addLayer(r1);
138     mapa.addLayer(base);
139     info = new OpenLayers.Control.WMSGetFeatureInfo({
140         url: "http://sit1.aragon.local:8399/arcgis/services/AtlasHerpetologico/MapServer/WMServer?",
141         title: 'Identify features by clicking',
142         queryVisible: true,
143         eventListeners: {
144             getfeatureinfo: function(event) {
145                 map.addPopup(new OpenLayers.Popup.FramedCloud(
146                     "chicken",
147                     map.getLonLatFromPixel(event.xy),
148                     null,
149                     event.text,
150                     null,
151                     true
152                 ));
153             }
154         }
155     });
```



```
154         }
155     });
156     mapa.addControl(new OpenLayers.Control.MousePosition());
157     mapa.addControl(new OpenLayers.Control.ScaleLine());
158     mapa.addControl(info);
159     info.activate();
160
161     mapa.setCenter(new OpenLayers.LonLat(lon, lat), zoom);
162
163     mapa.addControl( new OpenLayers.Control.LayerSwitcher () );
164
165 }
166 </script>
167
168 </head>
169 <body>
170     <table width="90%" cellspacing="0" cellpadding="0" style="margin-left: 5%">
171         <tr>
172             <td align="left">
173                 <a id="logo" title="Departamento Geografia" target="_blank" href="http://geografia.unizar.es/html/paeu.php">
174                     
175                 </a>
176             </td>
177             <td align="right">
178                 <a id="logo" title="Gobierno de Arag&oslash;n" target="_blank" href="http://www.aragon.es/cinta">
179                     
180                 </a>
181             </td>
182         </tr>
183     </table>
184     <h1 id="title" align="center">Atlas Herpetol&oslash;gico de Arag&oslash;n</h1>
185     <p id="shortdesc">
186     </p>
187     <table width="94%" style="margin-left: 3%">
188         <tr>
189             <td width="50%" valign="top">
190                 <div id="miMapa"></div>
191             </td>
192             <td>
193                 <div id="legend" width="50%" valign="top" style="height: 600px; overflow-x: hidden">
194
195
196                 <div class="legend_elem">
197                     <h3>Sapo corredor</h3>
198                     <br>
199                     <b>Leyenda</b>
200                     <table width="100%">
201                         <tr><td colspan="2">Presencia<br>( % respecto al total de anfibios)</td></tr>
202                         <tr><td width="10%" style="background: rgb(182, 237, 240)"></td><td>Baja</td></tr>
203                         <tr><td width="10%" style="background: rgb(116, 180, 232)"><td>Media</td></tr>
204                         <tr><td width="10%" style="background: rgb(31, 131, 224)"><td>Alta</td></tr>
```

```
205 <tr><td width="10%" style="background: rgb(9, 9, 145)"><td>Muy alta</td></tr>
206 </table>
207 <table width="100%">
208 <tr><td colspan="5">N&uacute;mero de individuos observados</td></tr>
209 <tr>
210 <td width="20%" align="center"></td>
211 <td width="20%" align="center"></td>
212 <td width="20%" align="center"></td>
213 <td width="20%" align="center"></td>
214 <td width="20%" align="center"></td></tr>
215 <tr>
216 <td align="center">1-2</td>
217 <td align="center">3-6</td>
218 <td align="center">7-14</td>
219 <td align="center">15-29</td>
220 <td align="center">30-50</td></tr>
221 </table>
222
223 </div>
224
225 <div class="legend_elem">
226 <h3>Culebra viperina</h3>
227 <br>
228 <b>Leyenda</b>
229 <table width="100%">
230 <tr><td colspan="2">Presencia<br>(% respecto al total de reptiles)</td></tr>
231 <tr><td width="10%" style="background: rgb(182, 237, 240)"><td>Baja</td></tr>
232 <tr><td width="10%" style="background: rgb(116, 180, 232)"><td>Media</td></tr>
233 <tr><td width="10%" style="background: rgb(31, 131, 224)"><td>Alta</td></tr>
234 <tr><td width="10%" style="background: rgb(9, 9, 145)"><td>Muy alta</td></tr>
235 </table>
236 <table width="100%">
237 <tr><td colspan="5">N&uacute;mero de individuos observados</td></tr>
238 <tr>
239 <td width="20%" align="center"></td>
240 <td width="20%" align="center"></td>
241 <td width="20%" align="center"></td>
242 <td width="20%" align="center"></td>
243 <td width="20%" align="center"></td></tr>
244 <tr>
245 <td align="center">1-2</td>
246 <td align="center">3-4</td>
247 <td align="center">5-7</td>
248 <td align="center">8-13</td>
249 <td align="center">14-34</td></tr>
250 </table>
251 </div>
252 <div class="legend_elem">
253 <h3>Culebra bastarda</h3>
254 <br>
255 <b>Leyenda</b>
```

```
256 <table width="100%">
257 <tr><td colspan="2">Presencia<br>(% respecto al total de reptiles)</td></tr>
258 <tr><td width="10%" style="background: rgb(182, 237, 240)"></td><td>Baja</td></tr>
259 <tr><td width="10%" style="background: rgb(116, 180, 232)"><td>Media</td></tr>
260 <tr><td width="10%" style="background: rgb(31, 131, 224)"><td>Alta</td></tr>
261 <tr><td width="10%" style="background: rgb(9, 9, 145)"><td>Muy alta</td></tr>
262 </table>
263 <table width="100%">
264 <tr><td colspan="5">Nºmero de individuos observados</td></tr>
265 <tr>
266 <td width="20%" align="center"></td>
267 <td width="20%" align="center"></td>
268 <td width="20%" align="center"></td>
269 <td width="20%" align="center"></td>
270 <td width="20%" align="center"></td></tr>
271 <tr>
272 <td align="center">1-2</td>
273 <td align="center">3-4</td>
274 <td align="center">5-9</td>
275 <td align="center">10-17</td>
276 <td align="center">18-33</td></tr>
277 </table>
278
279 </div>
280
281 <div class="legend_elem">
282 <h3>Sapo de espuelas</h3>
283 <br>
284 <b>Leyenda</b>
285 <table width="100%">
286 <tr><td colspan="2">Presencia<br>(% respecto al total de anfibios)</td></tr>
287 <tr><td width="10%" style="background: rgb(182, 237, 240)"></td><td>Baja</td></tr>
288 <tr><td width="10%" style="background: rgb(116, 180, 232)"><td>Media</td></tr>
289 <tr><td width="10%" style="background: rgb(31, 131, 224)"><td>Alta</td></tr>
290 <tr><td width="10%" style="background: rgb(9, 9, 145)"><td>Muy alta</td></tr>
291 </table>
292 <table width="100%">
293 <tr><td colspan="5">Nºmero de individuos observados</td></tr>
294 <tr>
295 <td width="20%" align="center"></td>
296 <td width="20%" align="center"></td>
297 <td width="20%" align="center"></td>
298 <td width="20%" align="center"></td>
299 <td width="20%" align="center"></td></tr>
300 <tr>
301 <td align="center">1-2</td>
302 <td align="center">3-4</td>
303 <td align="center">5-8</td>
304 <td align="center">9-12</td>
305 <td align="center">13-21</td></tr>
306 </table>
```



```
307
308     </div>
309     <div class="legend_elem">
310     <h3>Rana común</h3>
311     <br>
312     <b>Leyenda</b>
313     <table width="100%">
314     <tr><td colspan="2">Presencia<br>( % respecto al total de anfibios)</td></tr>
315     <tr><td width="10%" style="background: rgb(182, 237, 240)"></td><td>Baja</td></tr>
316     <tr><td width="10%" style="background: rgb(116, 180, 232)"><td>Media</td></tr>
317     <tr><td width="10%" style="background: rgb(31, 131, 224)"><td>Alta</td></tr>
318     <tr><td width="10%" style="background: rgb(9, 9, 145)"><td>Muy alta</td></tr>
319     </table>
320     <table width="100%">
321     <tr><td colspan="5">Nºmero de individuos observados</td></tr>
322     <tr>
323     <td width="20%" align="center"></td>
324     <td width="20%" align="center"></td>
325     <td width="20%" align="center"></td>
326     <td width="20%" align="center"></td>
327     <td width="20%" align="center"></td></tr>
328     <tr>
329     <td align="center">1-2</td>
330     <td align="center">3-6</td>
331     <td align="center">7-14</td>
332     <td align="center">15-29</td>
333     <td align="center">30-48</td></tr>
334     </table>
335
336     </div>
337
338 <div class="legend_elem">
339     <h3>Lagarto ocelado</h3>
340     <br>
341     <b>Leyenda</b>
342     <table width="100%">
343     <tr><td colspan="2">Presencia<br>( % respecto al total de reptiles)</td></tr>
344     <tr><td width="10%" style="background: rgb(182, 237, 240)"></td><td>Baja</td></tr>
345     <tr><td width="10%" style="background: rgb(116, 180, 232)"><td>Media</td></tr>
346     <tr><td width="10%" style="background: rgb(31, 131, 224)"><td>Alta</td></tr>
347     <tr><td width="10%" style="background: rgb(9, 9, 145)"><td>Muy alta</td></tr>
348     </table>
349     <table width="100%">
350     <tr><td colspan="5">Nºmero de individuos observados</td></tr>
351     <tr>
352     <td width="20%" align="center"></td>
353     <td width="20%" align="center"></td>
354     <td width="20%" align="center"></td>
355     <td width="20%" align="center"></td>
356     <td width="20%" align="center"></td></tr>
357     <tr>
```

```
358     <td align="center">1-2</td>
359     <td align="center">3-4</td>
360     <td align="center">5-7</td>
361     <td align="center">8-13</td>
362     <td align="center">14-27</td></tr>
363 </table>
364
365 </div>
366 </div>
367 </td>
368     </tr>
369 </table>
370
371 </body>
372 <footer>
373     <p>Creado por Adrián Estrada</p>
374     <p>Información de contacto:
375     577096@unizar.es</a>
376     </p>
377 </footer>
378 </html>
379
380
381
```