

RivFISH Maps – Presence of freshwater fish species in European river basins

(version 1.1)

The logo for RivFish, featuring the word 'RivFish' in a stylized, blue, sans-serif font. The 'R' and 'v' are connected, and the 'F' is a simple vertical bar.The logo for Dammed Fish, featuring the words 'Dammed' and 'Fish' in a red, sans-serif font. A stylized orange fish icon is positioned between the two words, with its body forming the letter 'd' in 'Dammed'.

Project Dammed Fish: Impact of Structural and Functional River Network Connectivity Losses on Fish Biodiversity – Optimizing Management Solutions
(Grant number: PTDC/CTA-AMB/4086/2021, DOI: 10.54499/PTDC/CTA-AMB/4086/2021)

Description:

This project deliverable presents the updated presence maps (as of December 2024), in European river basins, of 673 native freshwater-dependent fish species (resident and obligatory migrants, represented by the classes Actinopterygii and Petromyzontidae). The Ural and Caucasus Mountains were defined as the geographical boundaries for Europe, including Turkey (delimited on the south by the Orontes river basin), to account for diadromous species (that migrate between fresh waters and sea) that also occur in European river basins draining to the Mediterranean, Black and Caspian seas.

Each map was produced based on the recently published RivFISH database (see “Database citation” below), which aggregates the available data on 673 freshwater-dependent fish species in Europe, validated at the river basin level and considering taxonomical synonyms for species names. The delimitation of the river basins is based on the Catchment Characterisation and Modelling (CCM2) – River and Catchment Database v2.1 (Jager & Vogt, 2007).

Jager, A. d., & Vogt, J. (2007). Rivers and Catchments of Europe - Catchment Characterisation Model (CCM). 121-144. European Commission, Joint Research Centre (JRC), [Dataset] PID: <http://data.europa.eu/89h/fe1878e8-7541-4c66-8453-afdae7469221>.

Usage notes:

The RivFISH database was built to deal with future alterations in species taxonomy, as well as new records of species occurrence in river basins. The database, published in Zenodo (<https://doi.org/10.5281/zenodo.13848976>), was recently updated (v.1.1), in December 2024. New species occurrence records in river basins, as well as necessary corrections to existing records, will be updated in Zenodo as required. The species maps included in this report were produced based on the RivFISH database v1.1, which should be cited as indicated below (“Database citation”). The consulted data sources for validating species presence in river basins can be found in the tables “Species basins” and “References” of the RivFISH database.

Funding:

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Mameri, D., Duarte, G., Cabo, J., Figueira, R., Segurado, P., Santos, J. M., Ferreira, M. T., & Branco, P. (2024). RivFISH Maps – Presence of freshwater fish species in European river basins (1.1). [*Abramis brama*]. Zenodo. <https://doi.org/10.5281/zenodo.13891163>

Database citation:

Mameri, D., Duarte, G., Cabo, J., Figueira, R., Segurado, P., Santos, J. M., Ferreira, M. T., & Branco, P. (2024). RivFISH - An European database on fish species presence across river basins (1.1) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.13848976>

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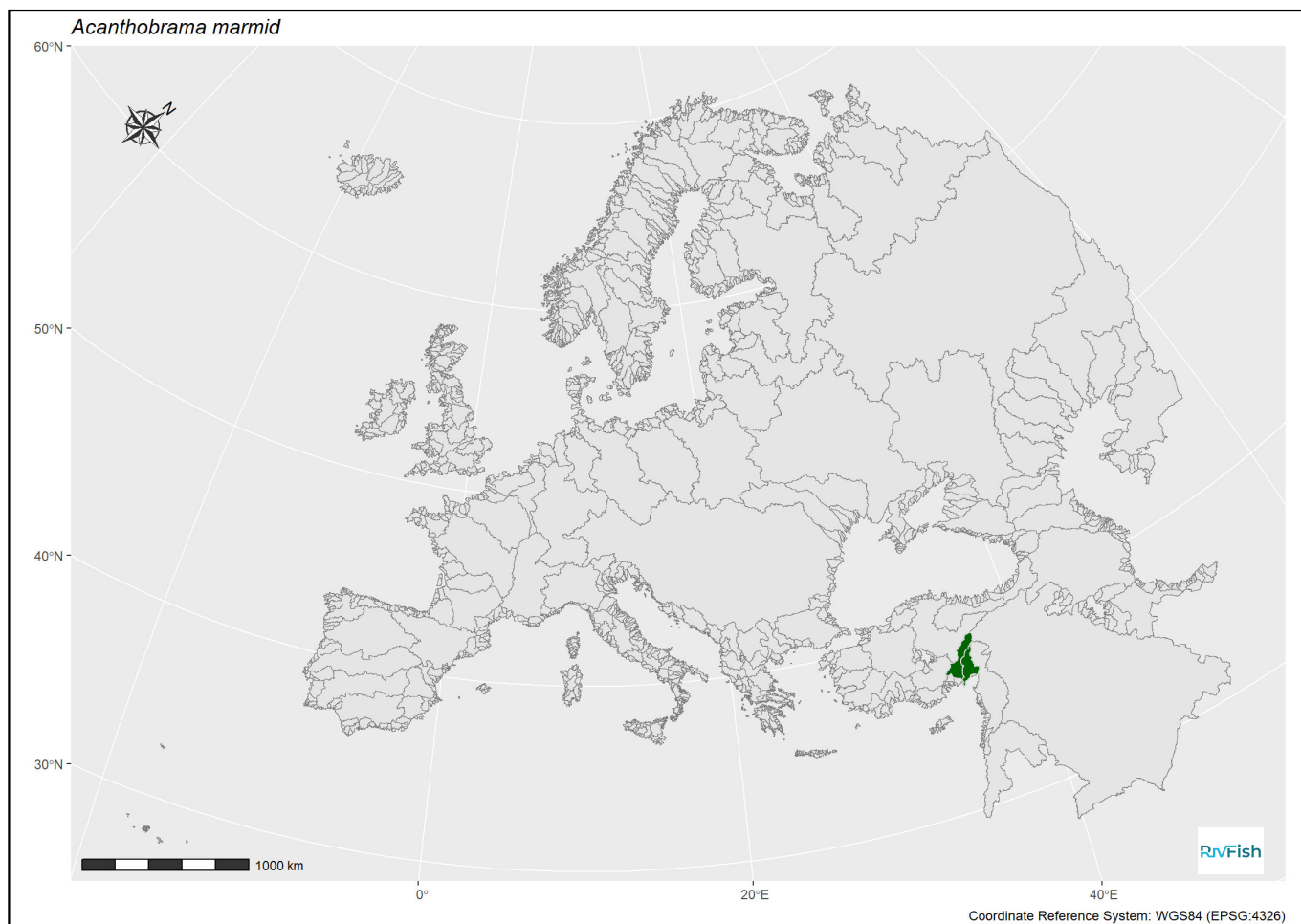
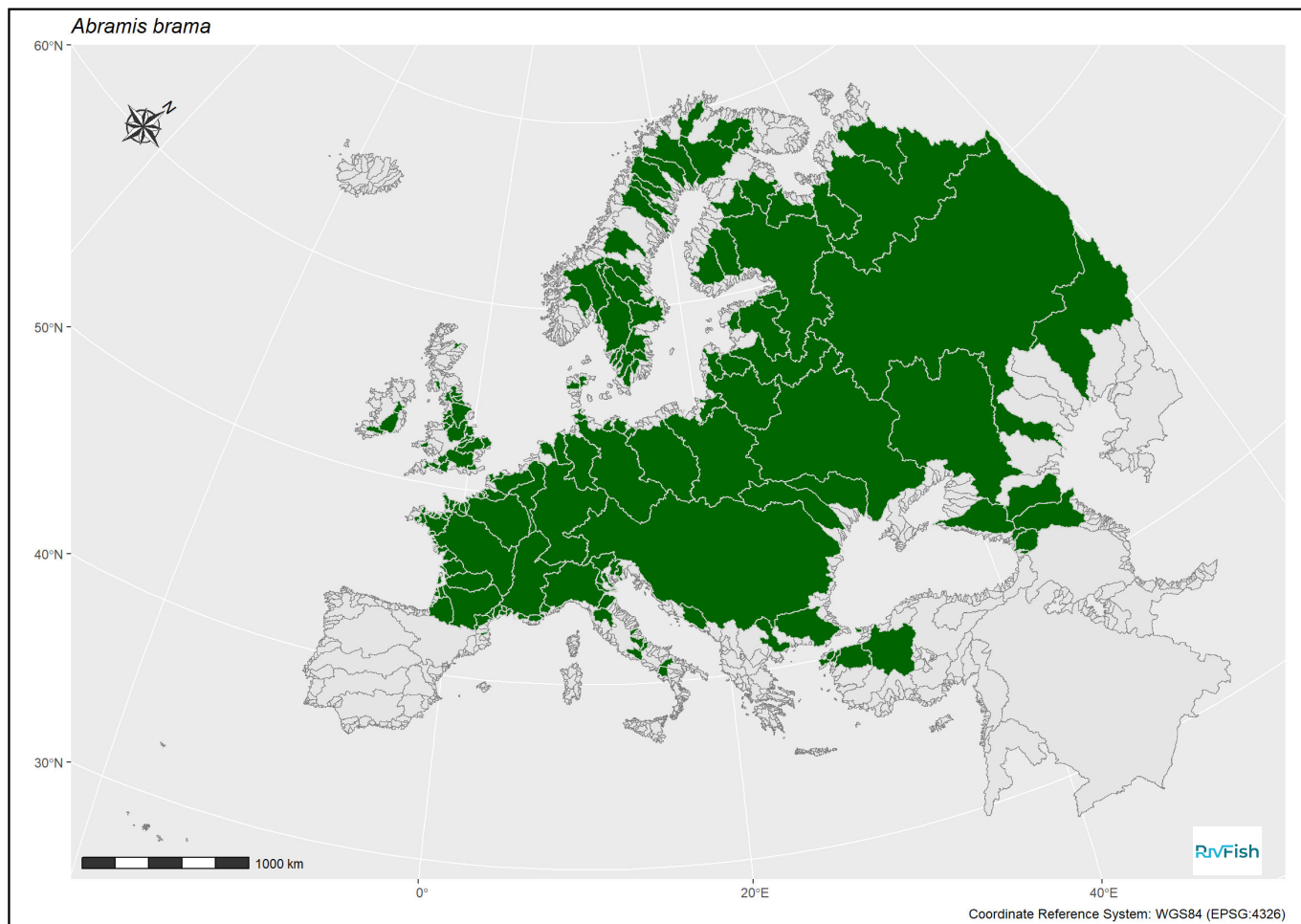
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RivFISH Maps – Presence of freshwater fish species in European river basins

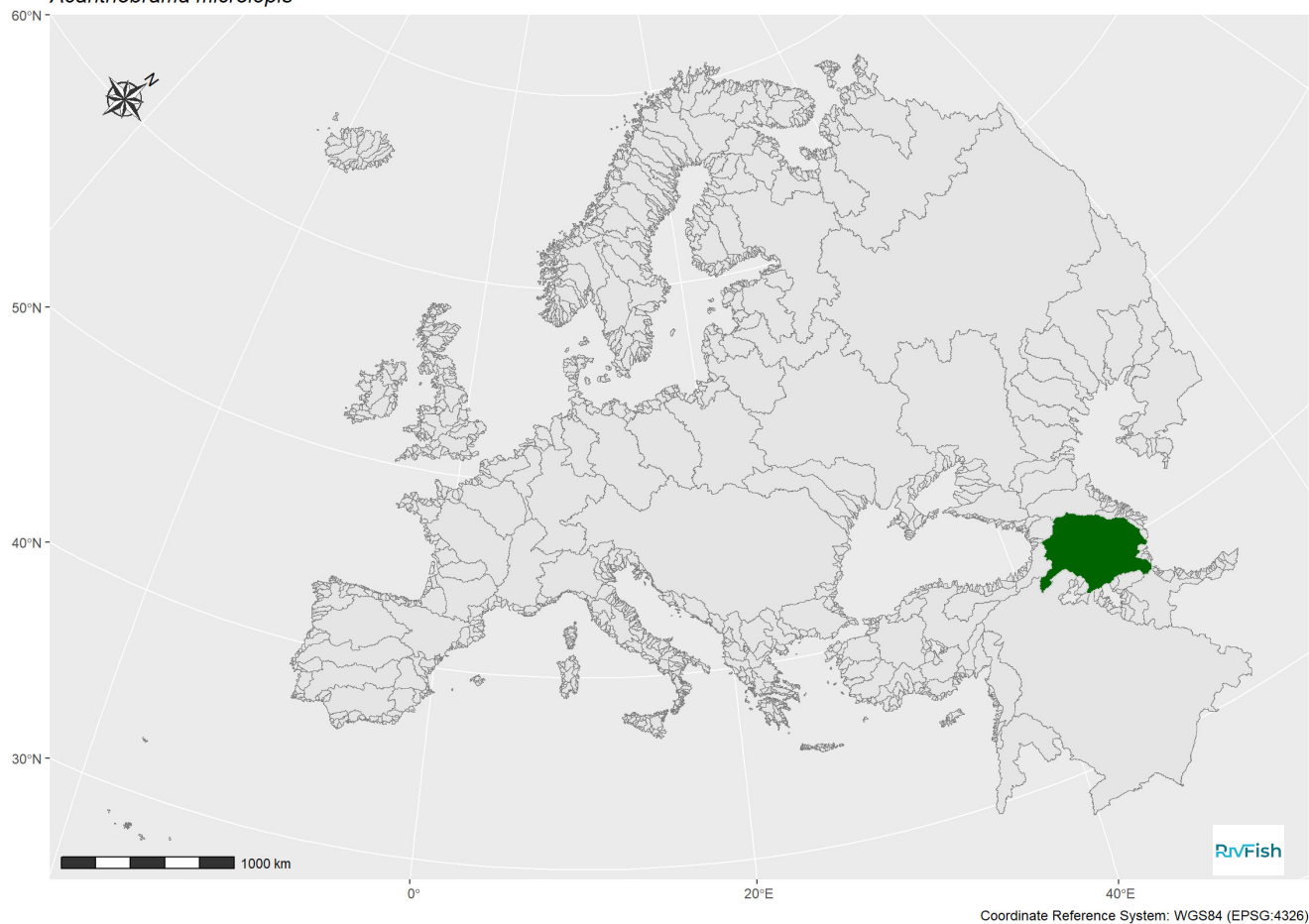
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<i>Pachychilon pictum</i>	216	<i>Ponticola platystris</i>	239	<i>Romanogobio parvus</i>	262
<i>Padogobius bonelli</i>	216	<i>Ponticola ratan</i>	239	<i>Romanogobio pentatrichus</i>	262
<i>Padogobius nigricans</i>	217	<i>Ponticola rhodioni</i>	240	<i>Romanogobio persus</i>	263
<i>Paracapoeta barroisi</i>	217	<i>Ponticola syrman</i>	240	<i>Romanogobio tanaiticus</i>	263
<i>Paracapoeta erhani</i>	218	<i>Proterorhinus marmoratus</i>	241	<i>Romanogobio uranoscopus</i>	264
<i>Parachondrostoma arrigonis</i>	218	<i>Proterorhinus nasalis</i>	241	<i>Romanogobio vladkovii</i>	264
<i>Parachondrostoma miegii</i>	219	<i>Proterorhinus semilunaris</i>	242	<i>Rutilus caspicus</i>	265
<i>Parachondrostoma toxostoma</i>	219	<i>Proterorhinus tataricus</i>	242	<i>Rutilus frisii</i>	265
<i>Parachondrostoma turiense</i>	220	<i>Protochondrostoma genei</i>	243	<i>Rutilus heckelii</i>	266
<i>Paraphanius mento</i>	220	<i>Pseudochondrostoma duriense</i>	243	<i>Rutilus kutum</i>	266
<i>Pelagus epiroticus</i>	221	<i>Pseudochondrostoma polylepis</i>	244	<i>Rutilus meidingeri</i>	267
<i>Pelagus laconicus</i>	221	<i>Pseudochondrostoma willkommii</i>	244	<i>Rutilus pigus</i>	267
<i>Pelagus marathonicus</i>	222	<i>Pseudophoxinus alii</i>	245	<i>Rutilus rutilus</i>	268
<i>Pelagus minutus</i>	222	<i>Pseudophoxinus anatolicus</i>	245	<i>Rutilus stoumboudae</i>	268
<i>Pelagus prespensis</i>	223	<i>Pseudophoxinus antalyae</i>	246	<i>Rutilus virgo</i>	269
<i>Pelagus stymphalicus</i>	223	<i>Pseudophoxinus battalgilae</i>	246	<i>Sabanejewia aurata</i>	269
<i>Pelagus thesproticus</i>	224	<i>Pseudophoxinus burduricus</i>	247	<i>Sabanejewia balcanica</i>	270
<i>Pelecus cultratus</i>	224	<i>Pseudophoxinus egridiri</i>	247	<i>Sabanejewia baltica</i>	270
<i>Perca fluviatilis</i>	225	<i>Pseudophoxinus evliyae</i>	248	<i>Sabanejewia bulgarica</i>	271
<i>Percarina demidoffii</i>	225	<i>Pseudophoxinus fahrettini</i>	248	<i>Sabanejewia caspia</i>	271
<i>Percarina maeotica</i>	226	<i>Pseudophoxinus hittitorum</i>	249	<i>Sabanejewia caucasica</i>	272
<i>Petroleuciscus borysthenticus</i>	226	<i>Pseudophoxinus kervillei</i>	249	<i>Sabanejewia kubanica</i>	272
<i>Petroleuciscus smyrnaeus</i>	227	<i>Pseudophoxinus maeandri</i>	250	<i>Sabanejewia larvata</i>	273
<i>Petromyzon marinus</i>	227	<i>Pseudophoxinus maeandricus</i>	250	<i>Sabanejewia romanica</i>	273
<i>Phoxinellus alepidotus</i>	228	<i>Pseudophoxinus ninae</i>	251	<i>Sabanejewia vallachica</i>	274
<i>Phoxinellus dalmaticus</i>	228	<i>Pseudophoxinus zekayi</i>	251	<i>Salariopsis economidisi</i>	274
<i>Phoxinellus pseudalepidotus</i>	229	<i>Pseudophoxinus zeregi</i>	252	<i>Salariopsis fluviatilis</i>	275
<i>Phoxinus apollonicus</i>	229	<i>Pungitius hellenicus</i>	252	<i>Salmo abanticus</i>	275
<i>Phoxinus bigerri</i>	230	<i>Pungitius laevis</i>	253	<i>Salmo aphelios</i>	276
<i>Phoxinus colchicus</i>	230	<i>Pungitius platygaster</i>	253	<i>Salmo balcanicus</i>	276
<i>Phoxinus karsticus</i>	231	<i>Pungitius pungitius</i>	254	<i>Salmo carpio</i>	277
<i>Phoxinus ketmaieri</i>	231	<i>Pungitius vulgaris</i>	254	<i>Salmo caspius</i>	277
<i>Phoxinus phoxinus</i>	232	<i>Rhodeus amarus</i>	255	<i>Salmo cenerinus</i>	278
<i>Phoxinus septimaniae</i>	232	<i>Rhodeus colchicus</i>	255	<i>Salmo cettii</i>	278
<i>Phoxinus strandjae</i>	233	<i>Rhodeus meridionalis</i>	256	<i>Salmo chilo</i>	279
<i>Phoxinus strymonicus</i>	233	<i>Rhodeus sericeus</i>	256	<i>Salmo dentex</i>	279
<i>Planiliza haematocheilus</i>	234	<i>Rhynchocypris percunura</i>	257	<i>Salmo ezenami</i>	280
<i>Platichthys flesus</i>	234	<i>Romanichthys valsanicola</i>	257	<i>Salmo farioides</i>	280
<i>Pomatoschistus marmoratus</i>	235	<i>Romanogobio albipinnatus</i>	258	<i>Salmo ferox</i>	281
<i>Pomatoschistus microps</i>	235	<i>Romanogobio antipai</i>	258	<i>Salmo fibreni</i>	281
<i>Pomatoschistus montenegrensis</i>	236	<i>Romanogobio banaticus</i>	259	<i>Salmo ischchan</i>	282
<i>Ponticola constructor</i>	236	<i>Romanogobio belingi</i>	259	<i>Salmo labecula</i>	282
<i>Ponticola cyrius</i>	237	<i>Romanogobio benacensis</i>	260	<i>Salmo labrax</i>	283
<i>Ponticola eurycephalus</i>	237	<i>Romanogobio ciscaucasicus</i>	260	<i>Salmo letnica</i>	283
<i>Ponticola gorlap</i>	238	<i>Romanogobio elimeius</i>	261	<i>Salmo lourosensis</i>	284
<i>Ponticola kessleri</i>	238	<i>Romanogobio kesslerii</i>	261	<i>Salmo lumi</i>	284

RivFISH Maps – Presence of freshwater fish species in European river basins

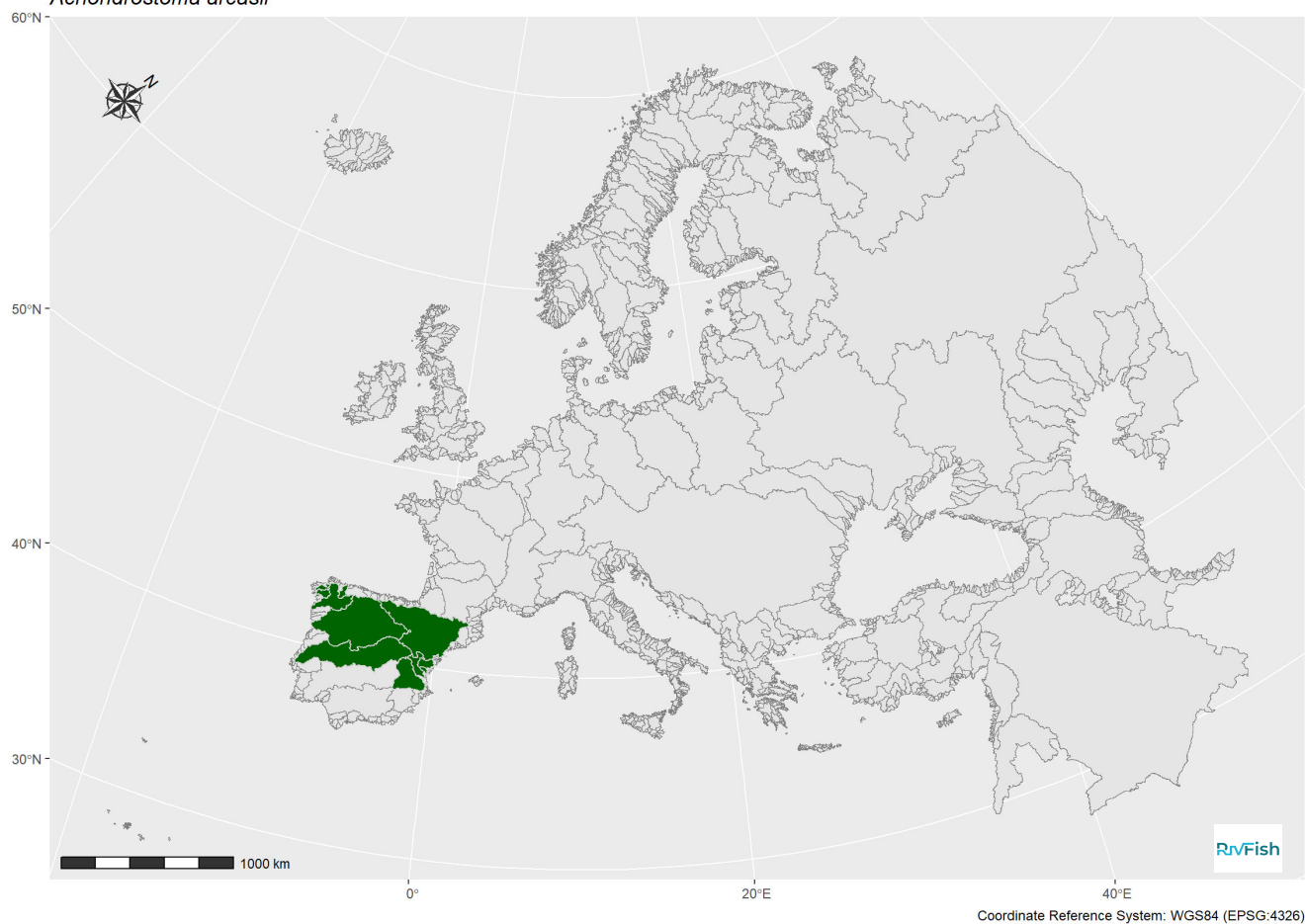
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<i>Salmo marmoratus</i>	285	<i>Scardinius plotizza</i>	308	<i>Telestes dabar</i>	331
<i>Salmo montenigrinus</i>	286	<i>Scardinius scardafa</i>	309	<i>Telestes fontinalis</i>	332
<i>Salmo nigripinnis</i>	286	<i>Seminemacheilus ispartensis</i>	309	<i>Telestes karsticus</i>	332
<i>Salmo obtusirostris</i>	287	<i>Seminemacheilus lendlii</i>	310	<i>Telestes metohiensis</i>	333
<i>Salmo ohridanus</i>	287	<i>Silurus aristotelis</i>	310	<i>Telestes miloradi</i>	333
<i>Salmo opimus</i>	288	<i>Silurus glanis</i>	311	<i>Telestes montenigrinus</i>	334
<i>Salmo pelagonicus</i>	288	<i>Squalius alburnoides</i>	311	<i>Telestes muticellus</i>	334
<i>Salmo peristericus</i>	289	<i>Squalius aphipsi</i>	312	<i>Telestes pleurobipunctatus</i>	335
<i>Salmo platycephalus</i>	289	<i>Squalius aradensis</i>	312	<i>Telestes polylepis</i>	335
<i>Salmo rhodanensis</i>	290	<i>Squalius carinus</i>	313	<i>Telestes souffia</i>	336
<i>Salmo salar</i>	290	<i>Squalius carolitertii</i>	313	<i>Telestes turskyi</i>	336
<i>Salmo stomachicus</i>	291	<i>Squalius castellanus</i>	314	<i>Telestes ukliva</i>	337
<i>Salmo taleri</i>	291	<i>Squalius cephalus</i>	314	<i>Thymallus thymallus</i>	337
<i>Salmo trutta</i>	292	<i>Squalius cii</i>	315	<i>Tinca tinca</i>	338
<i>Salmo visovacensis</i>	292	<i>Squalius fellowesii</i>	315	<i>Tropidophoxinellus hellenicus</i>	338
<i>Salvelinus alpinus</i>	293	<i>Squalius ghigii</i>	316	<i>Tropidophoxinellus spartiaticus</i>	339
<i>Salvelinus colii</i>	293	<i>Squalius illyricus</i>	316	<i>Umbra krameri</i>	339
<i>Salvelinus evasus</i>	294	<i>Squalius janae</i>	317	<i>Valencia hispanica</i>	340
<i>Salvelinus fimbriatus</i>	294	<i>Squalius keadicus</i>	317	<i>Valencia letourneuxi</i>	340
<i>Salvelinus gracillimus</i>	295	<i>Squalius kosswigi</i>	318	<i>Valencia robertae</i>	341
<i>Salvelinus grayi</i>	295	<i>Squalius laietanus</i>	318	<i>Vimba elongata</i>	341
<i>Salvelinus killinensis</i>	296	<i>Squalius lepidus</i>	319	<i>Vimba melanops</i>	342
<i>Salvelinus lepechini</i>	296	<i>Squalius lucumonis</i>	319	<i>Vimba mirabilis</i>	342
<i>Salvelinus lonsdalii</i>	297	<i>Squalius malacitanus</i>	320	<i>Vimba vimba</i>	343
<i>Salvelinus mallochi</i>	297	<i>Squalius microlepis</i>	320	<i>Zingel asper</i>	343
<i>Salvelinus maxillaris</i>	298	<i>Squalius moreoticus</i>	321	<i>Zingel balcanicus</i>	344
<i>Salvelinus murta</i>	298	<i>Squalius orpheus</i>	321	<i>Zingel streber</i>	344
<i>Salvelinus obtusus</i>	299	<i>Squalius pamvoticus</i>	322	<i>Zingel zingel</i>	345
<i>Salvelinus perisii</i>	299	<i>Squalius peloponensis</i>	322		
<i>Salvelinus profundus</i>	300	<i>Squalius platycephus</i>	323		
<i>Salvelinus struanensis</i>	300	<i>Squalius prespensis</i>	323		
<i>Salvelinus thingvallensis</i>	301	<i>Squalius pyrenaicus</i>	324		
<i>Salvelinus umbla</i>	301	<i>Squalius recurvirostris</i>	324		
<i>Salvelinus willoughbii</i>	302	<i>Squalius squalus</i>	325		
<i>Salvelinus youngei</i>	302	<i>Squalius svallize</i>	325		
<i>Sander lucioperca</i>	303	<i>Squalius tenellus</i>	326		
<i>Sander marinus</i>	303	<i>Squalius torgalensis</i>	326		
<i>Sander volgensis</i>	304	<i>Squalius valentinus</i>	327		
<i>Sarmarutilus rubilio</i>	304	<i>Squalius vardarensis</i>	327		
<i>Scardinius acarnanicus</i>	305	<i>Squalius zrmanjae</i>	328		
<i>Scardinius dergle</i>	305	<i>Stenodus leucichthys</i>	328		
<i>Scardinius elmaliensis</i>	306	<i>Stenodus nelma</i>	329		
<i>Scardinius erythrophthalmus</i>	306	<i>Syngnathus abaster</i>	329		
<i>Scardinius graecus</i>	307	<i>Telestes beoticus</i>	330		
<i>Scardinius hesperidicus</i>	307	<i>Telestes comes</i>	330		



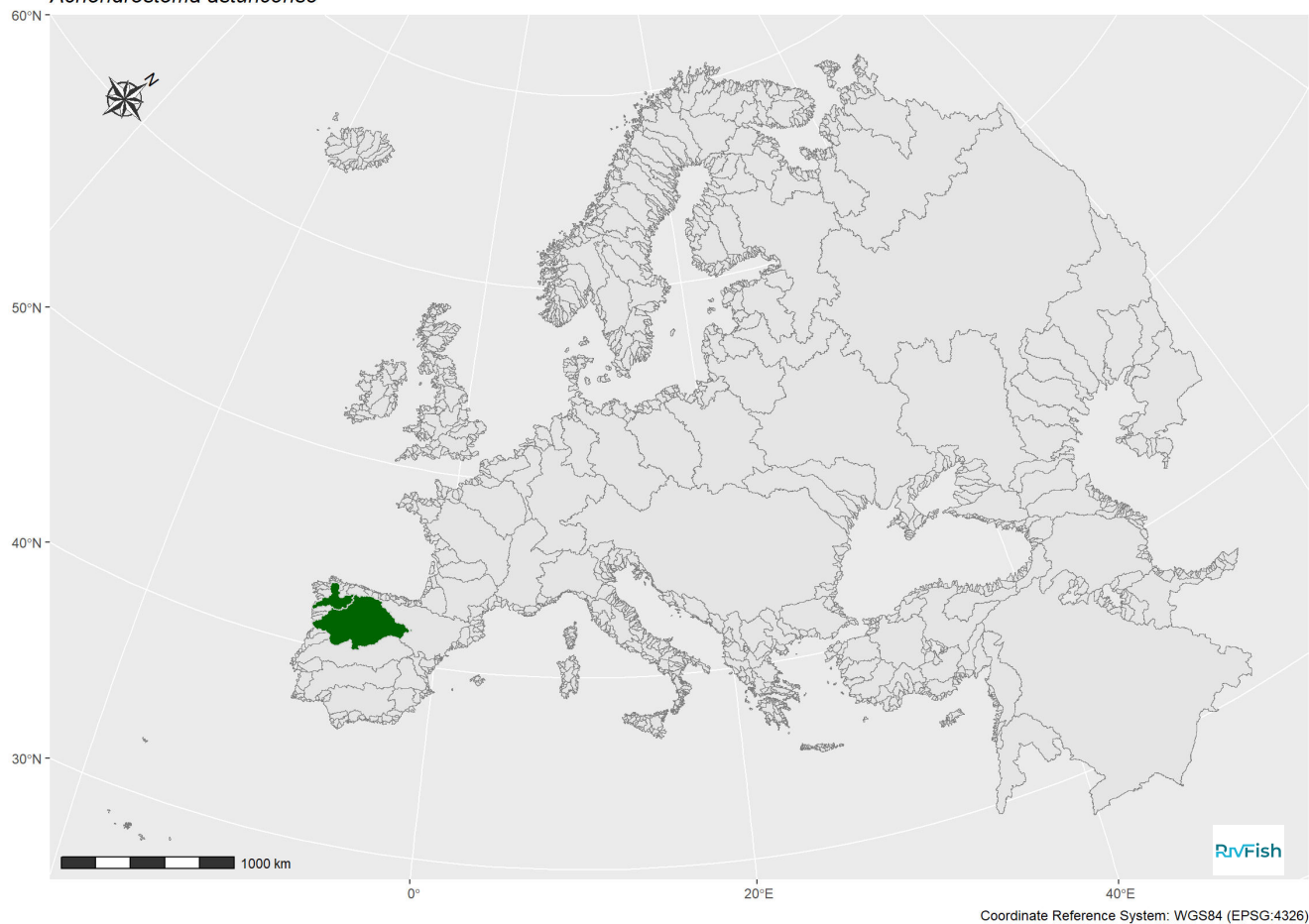
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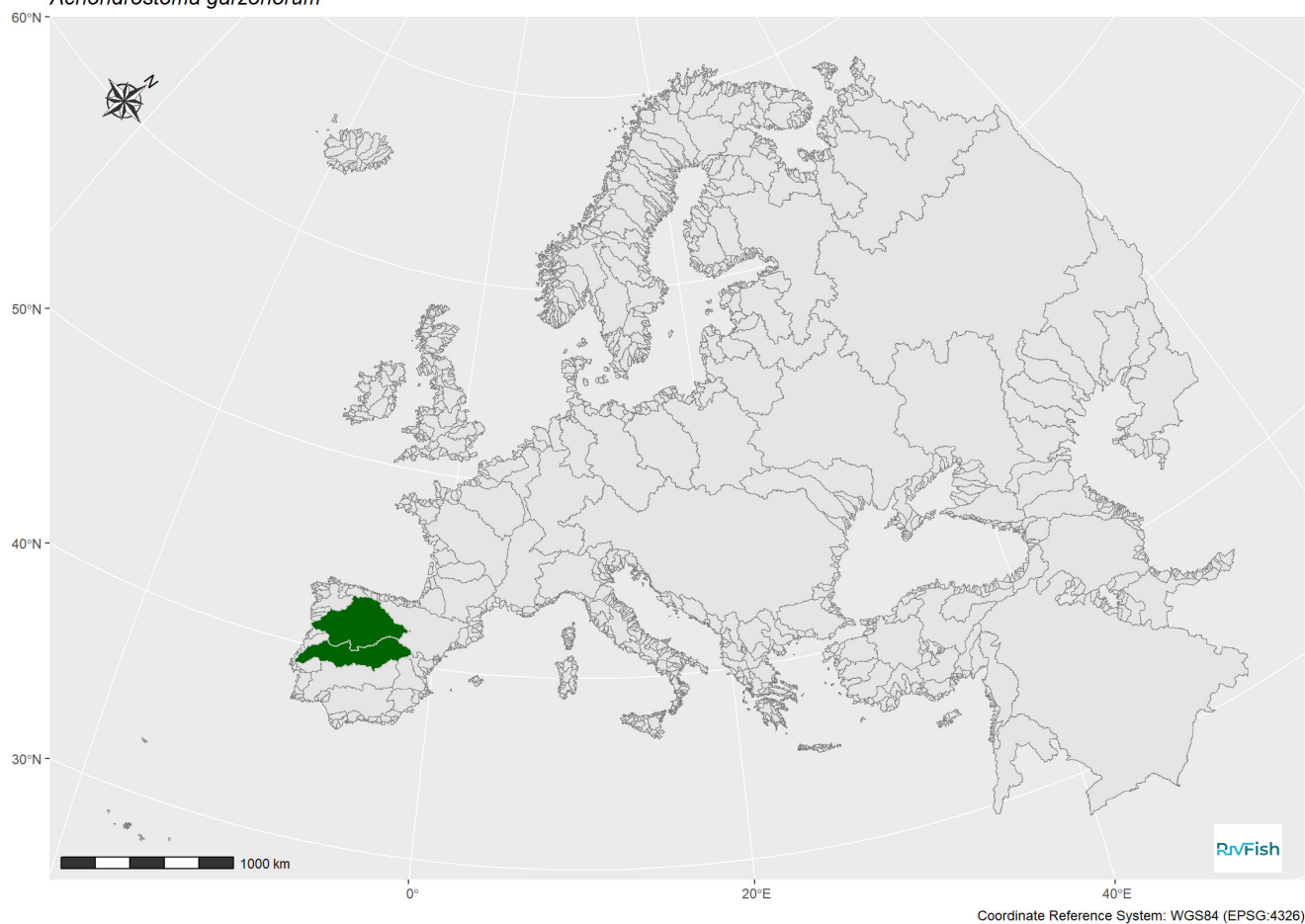
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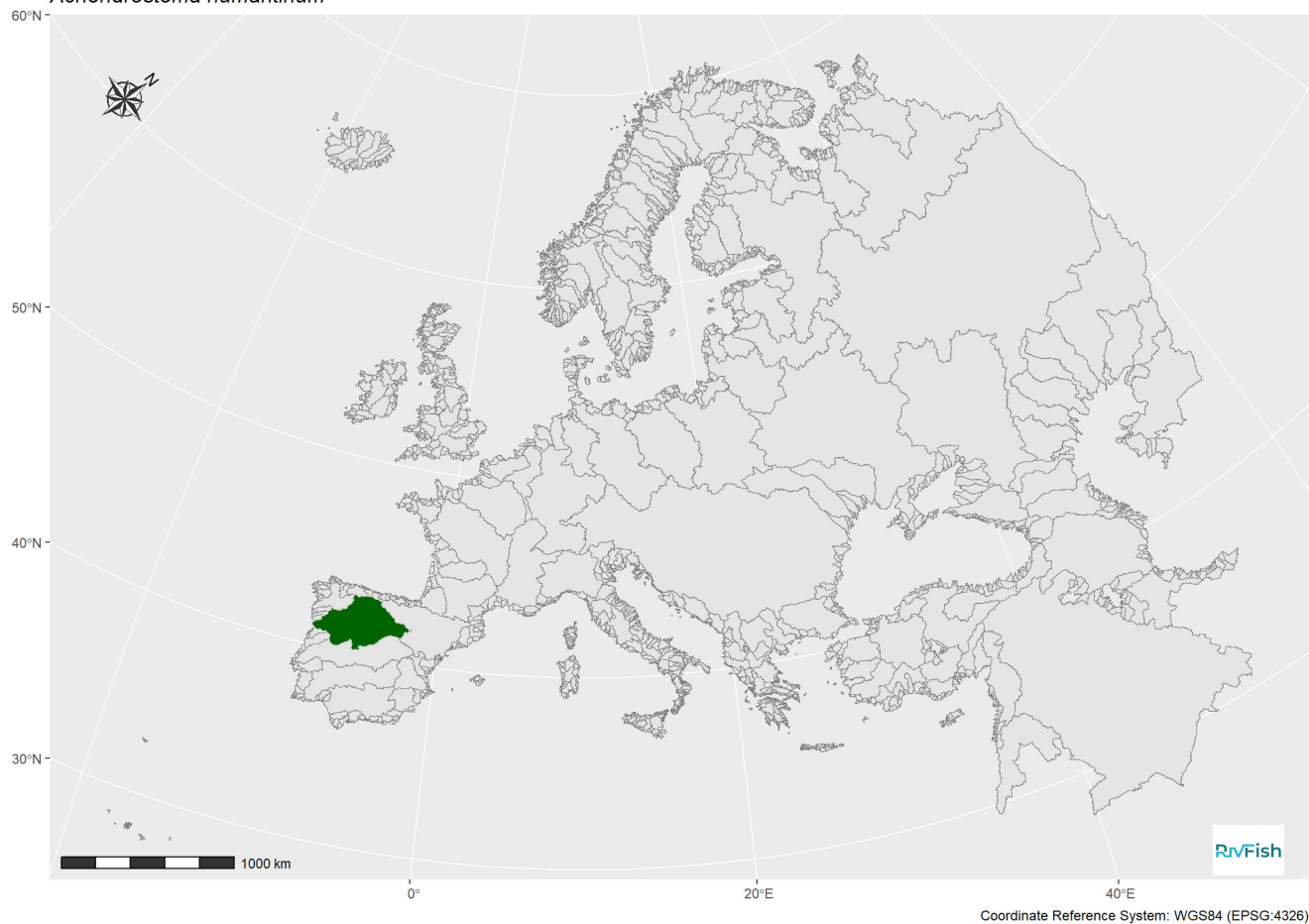
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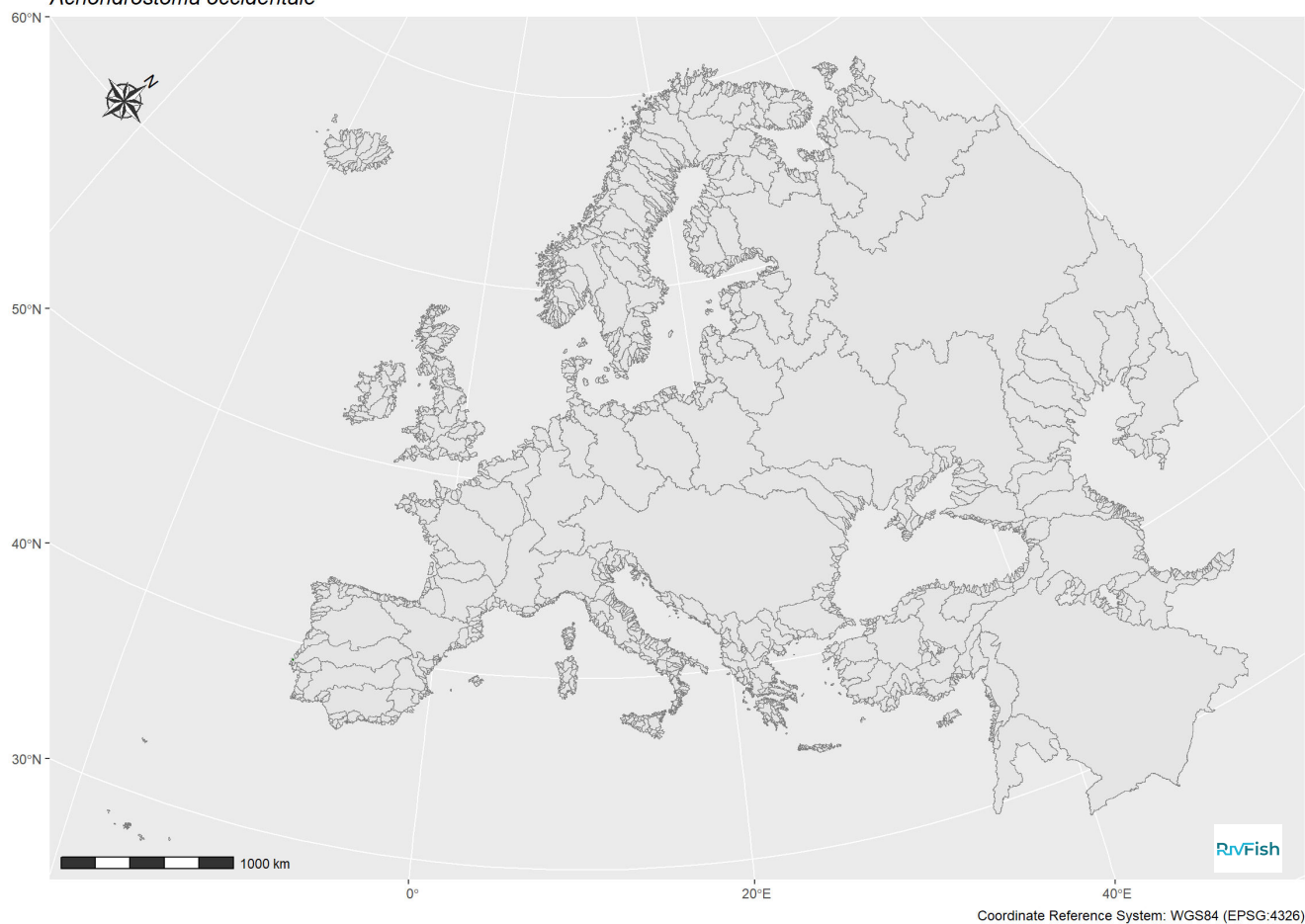
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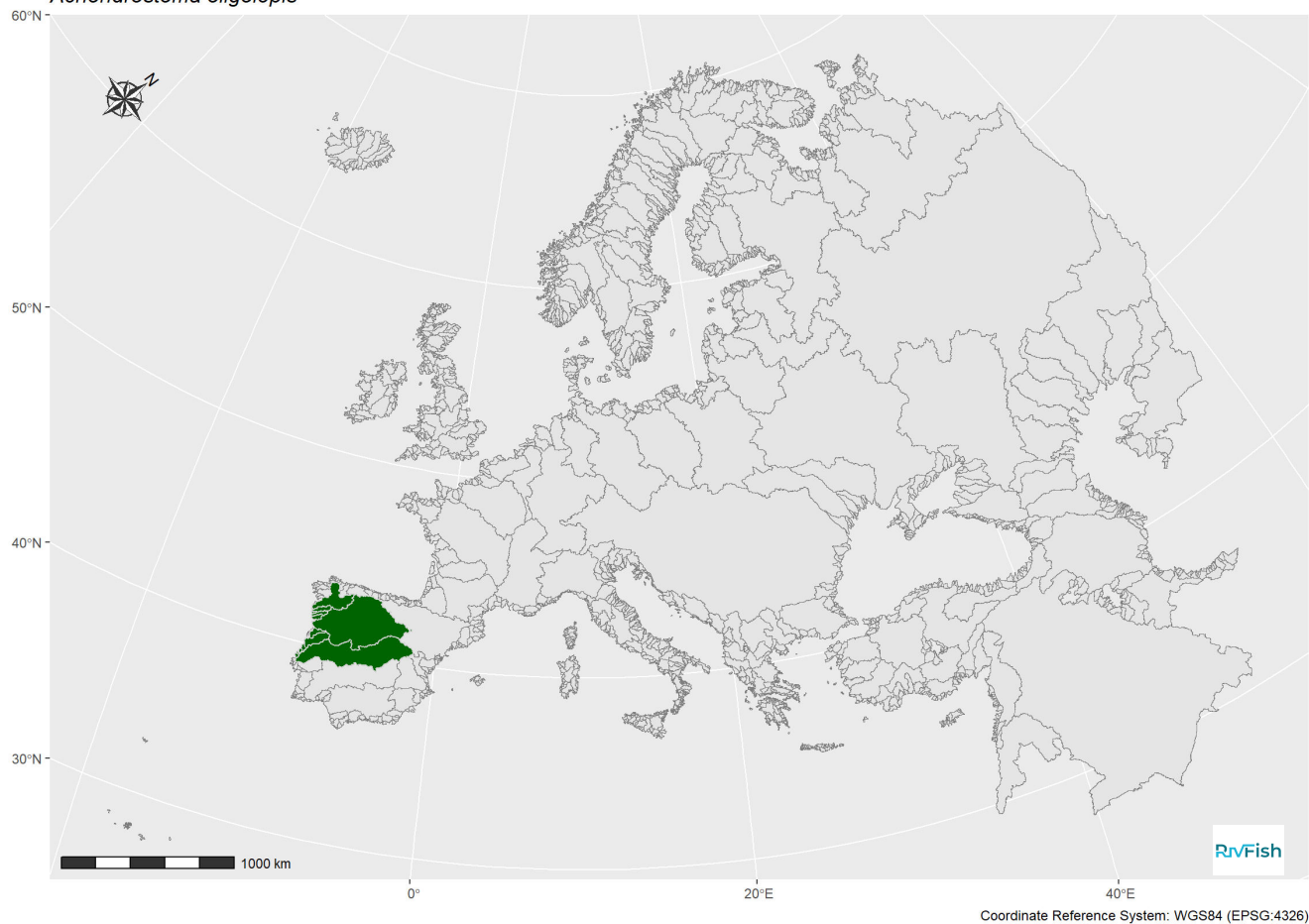
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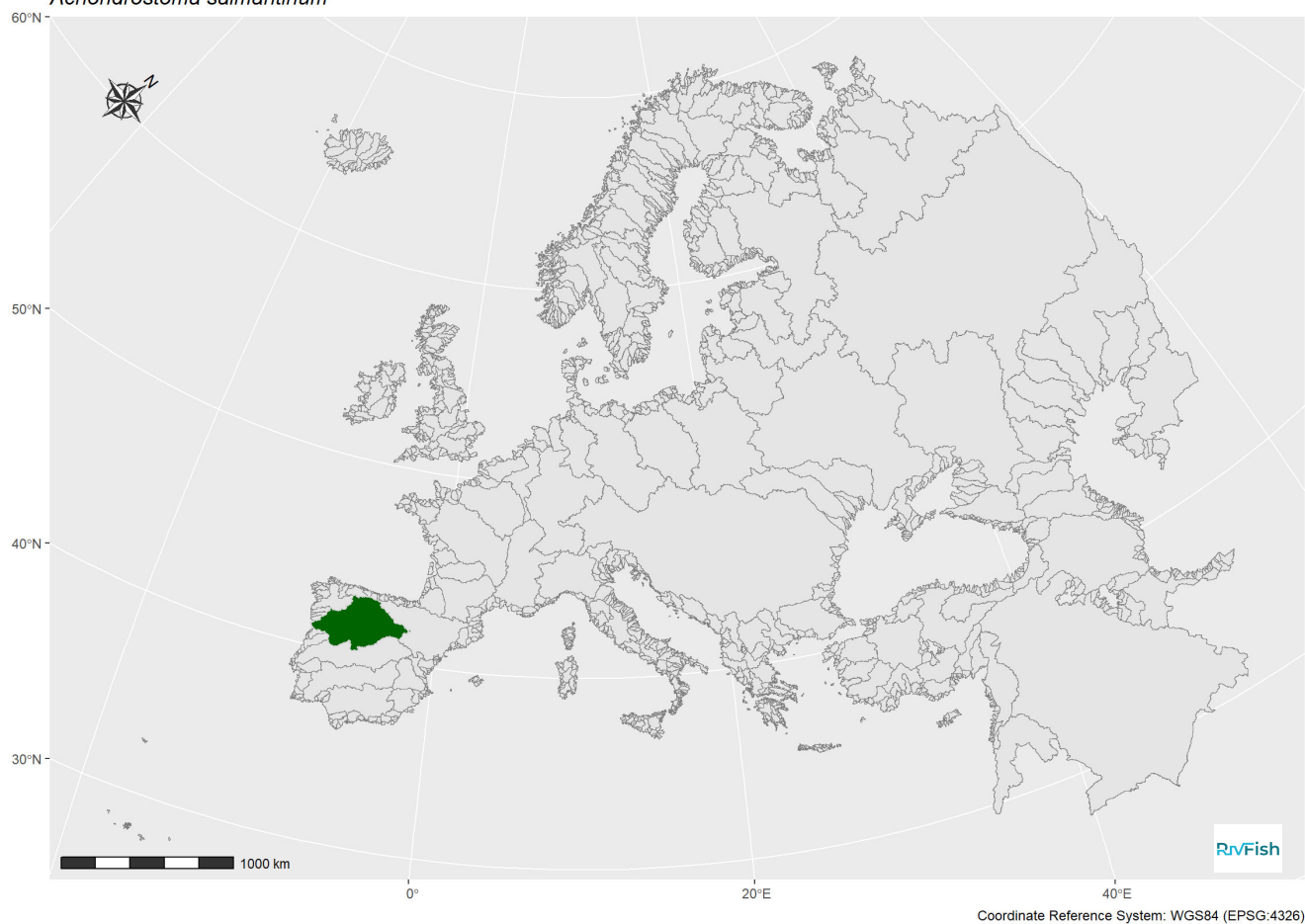
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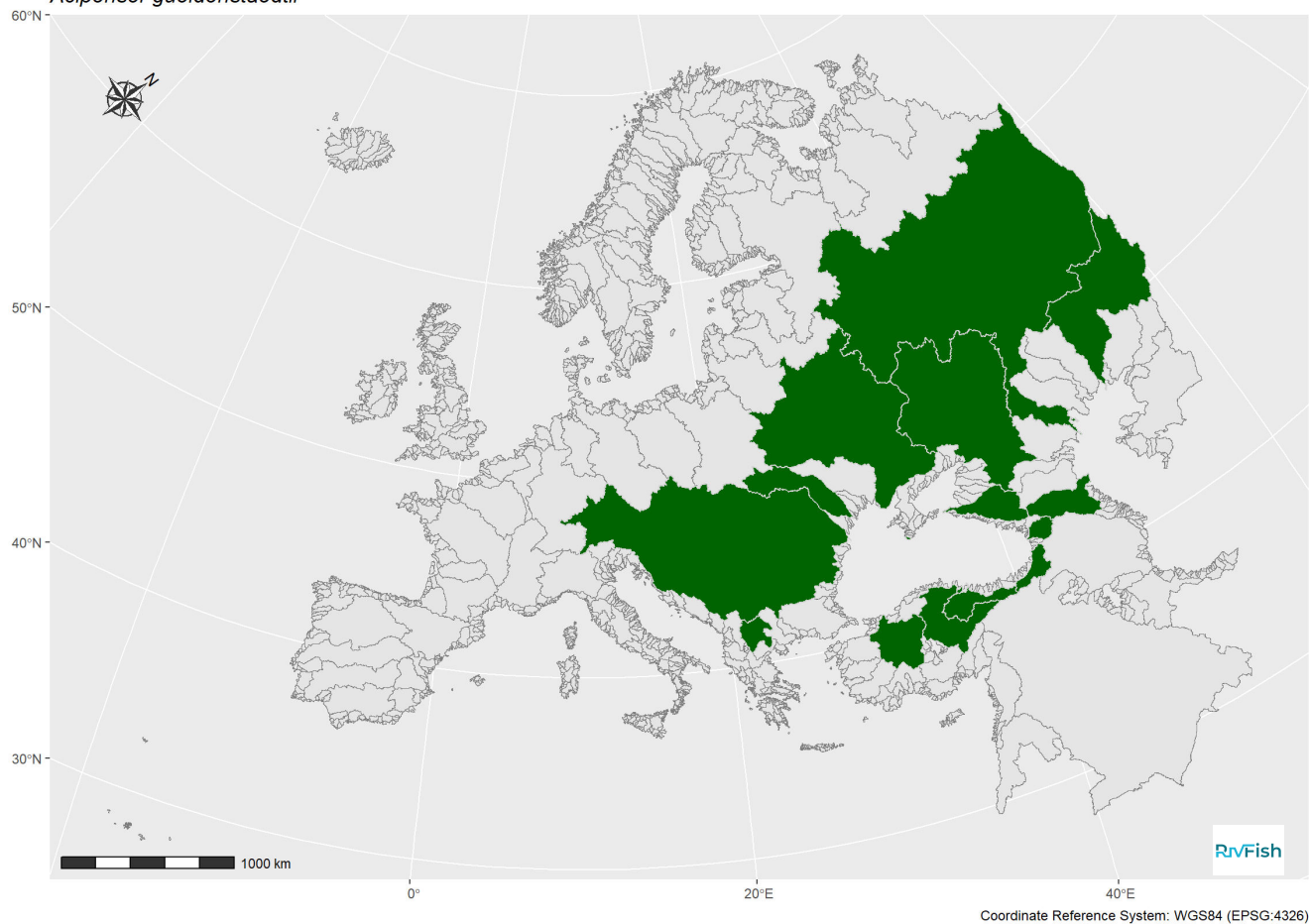
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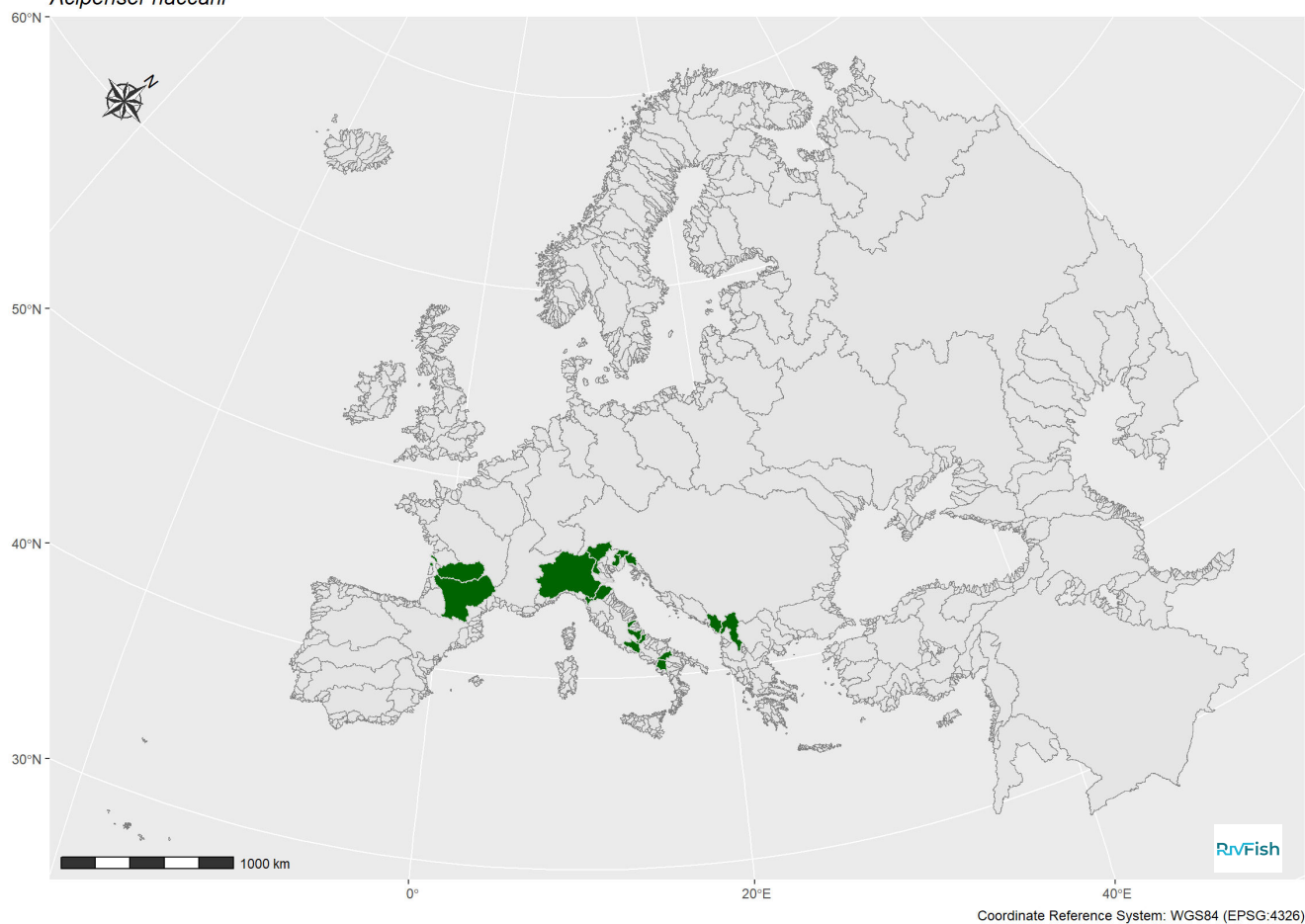
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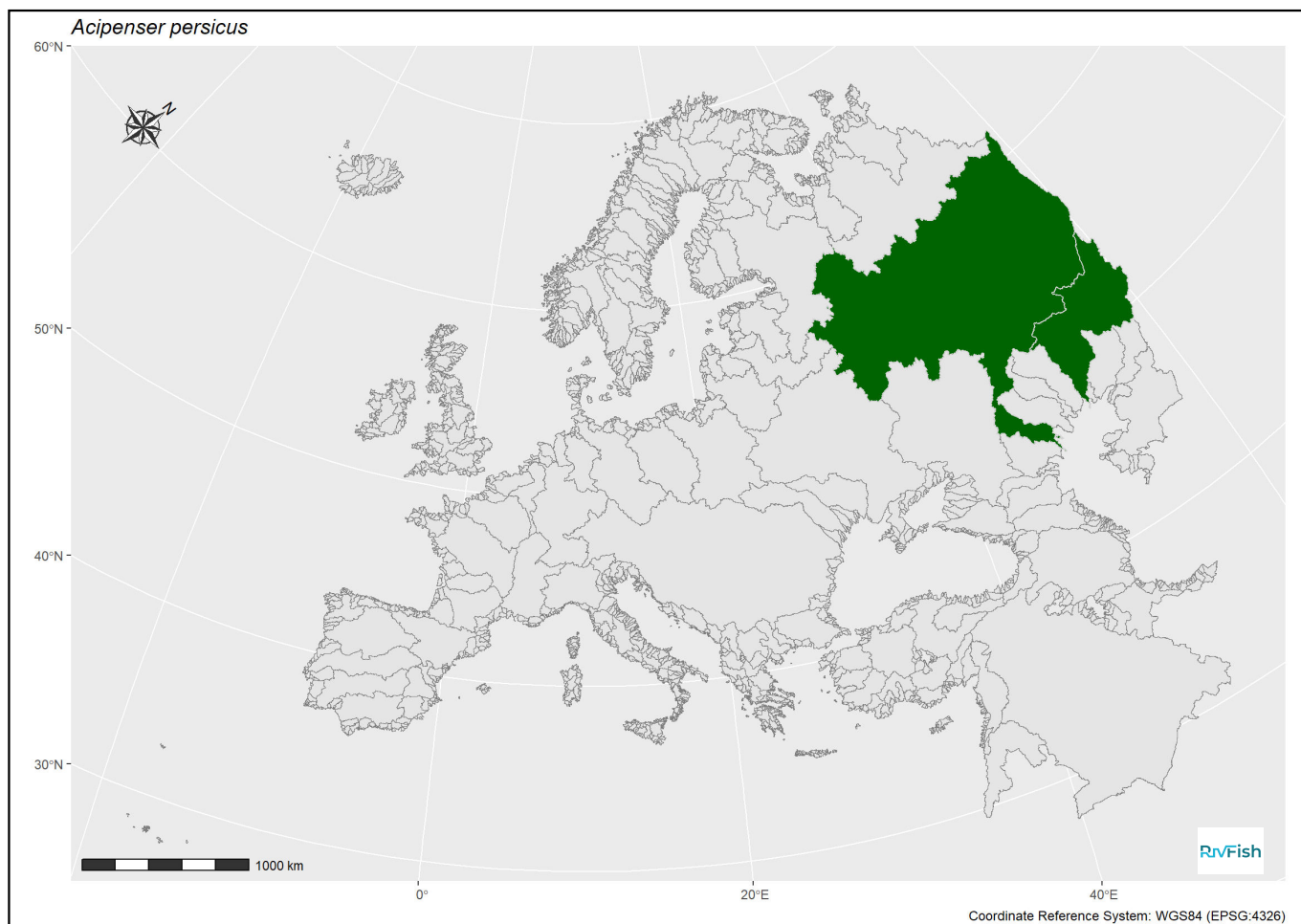
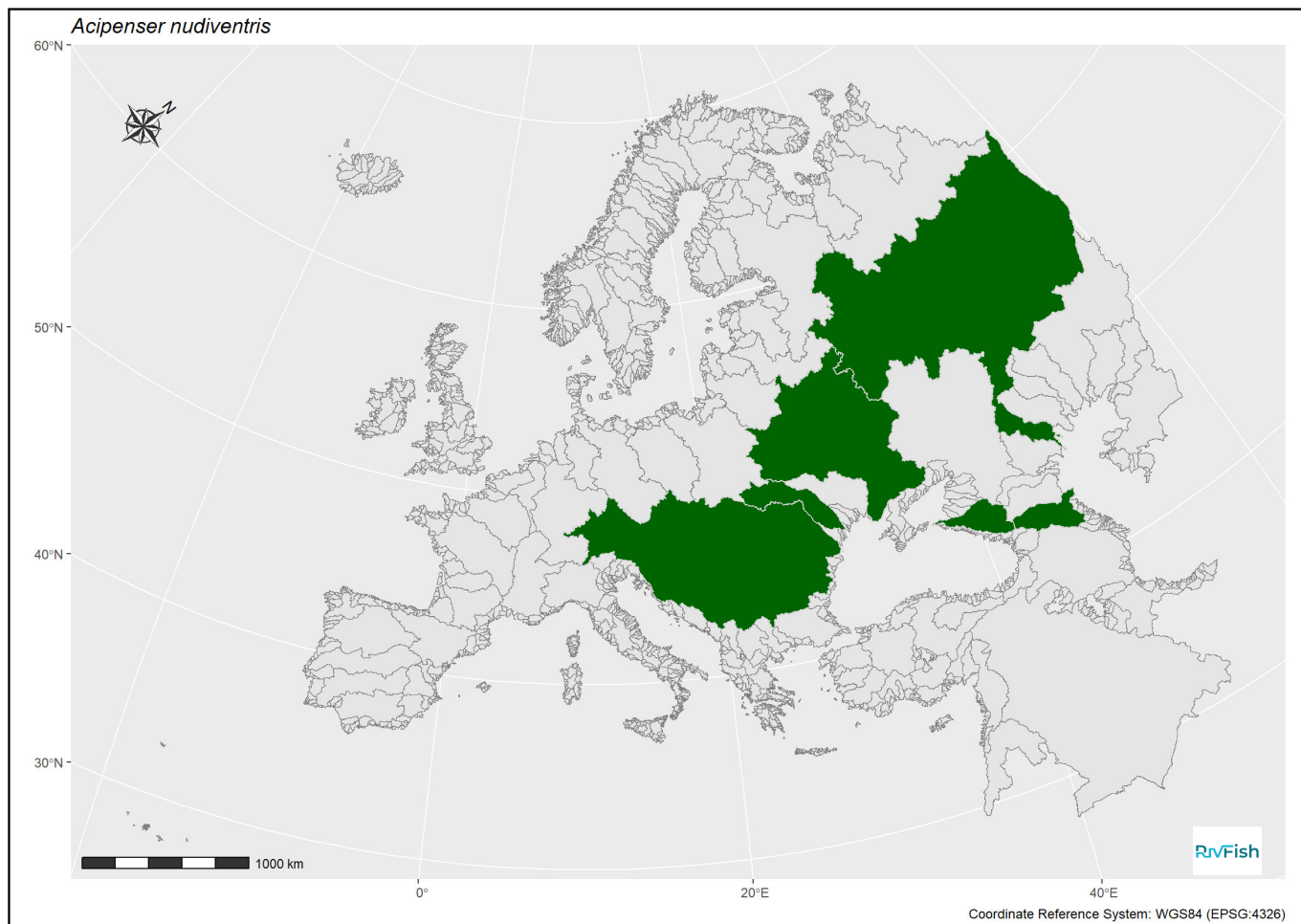


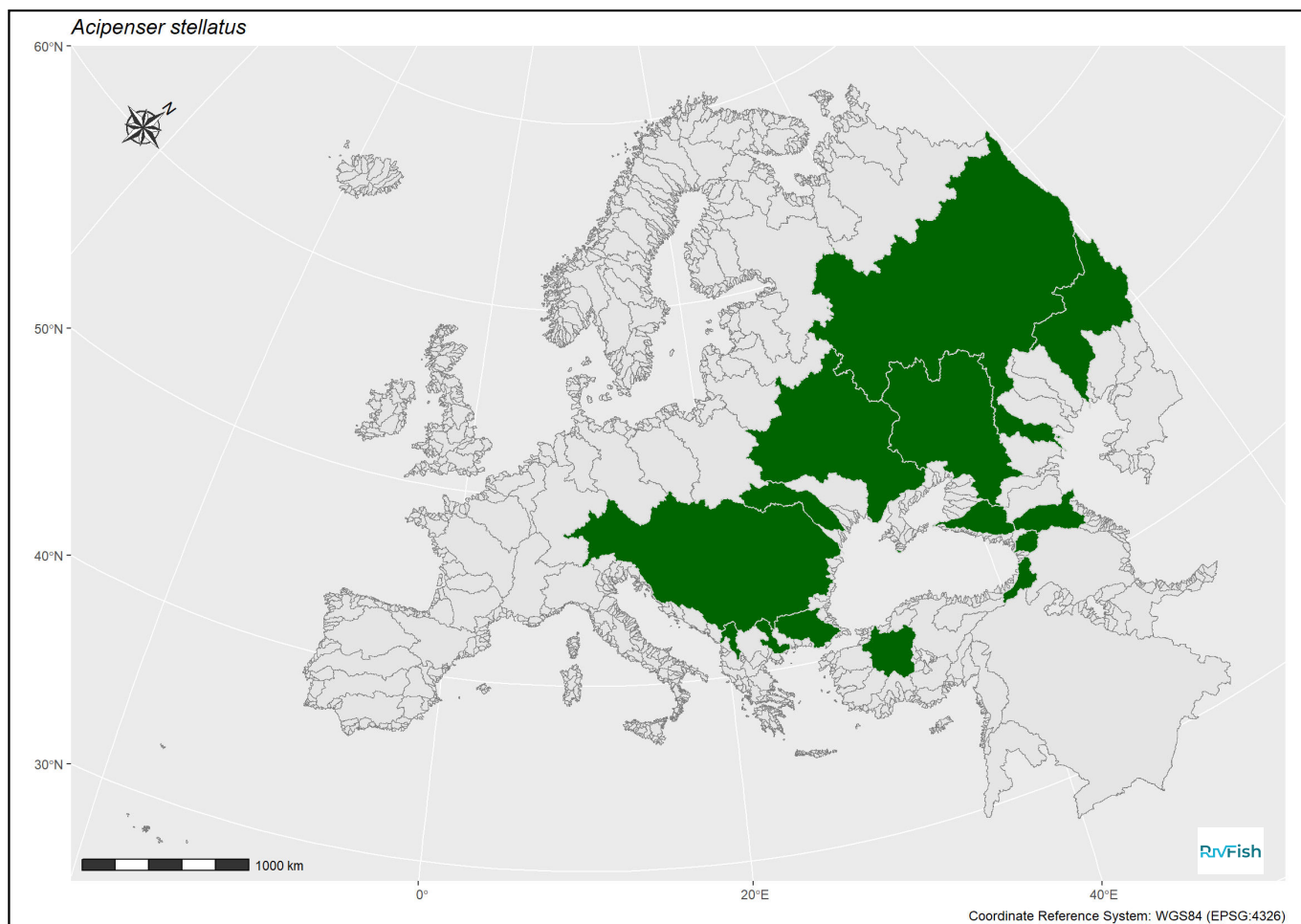
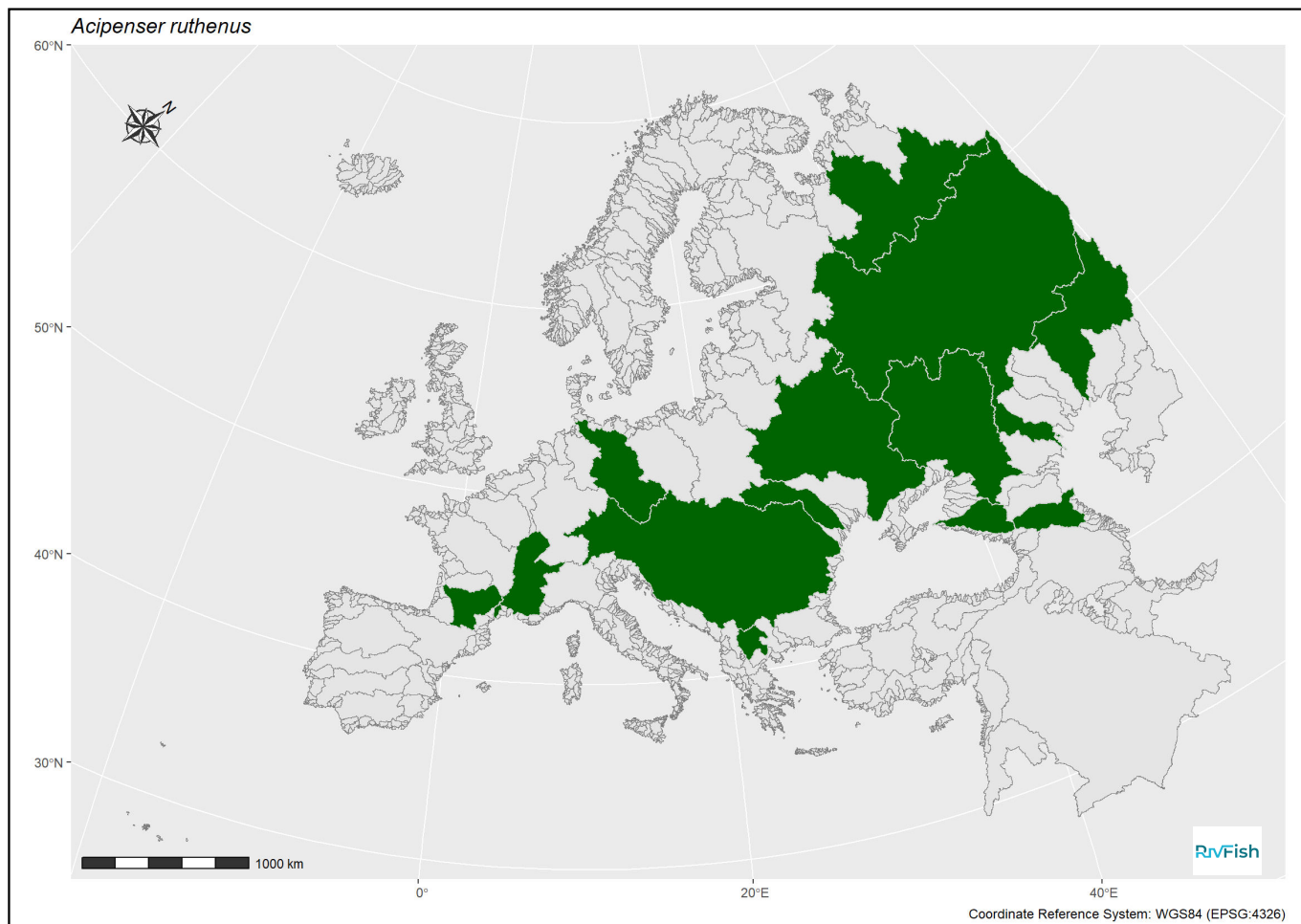
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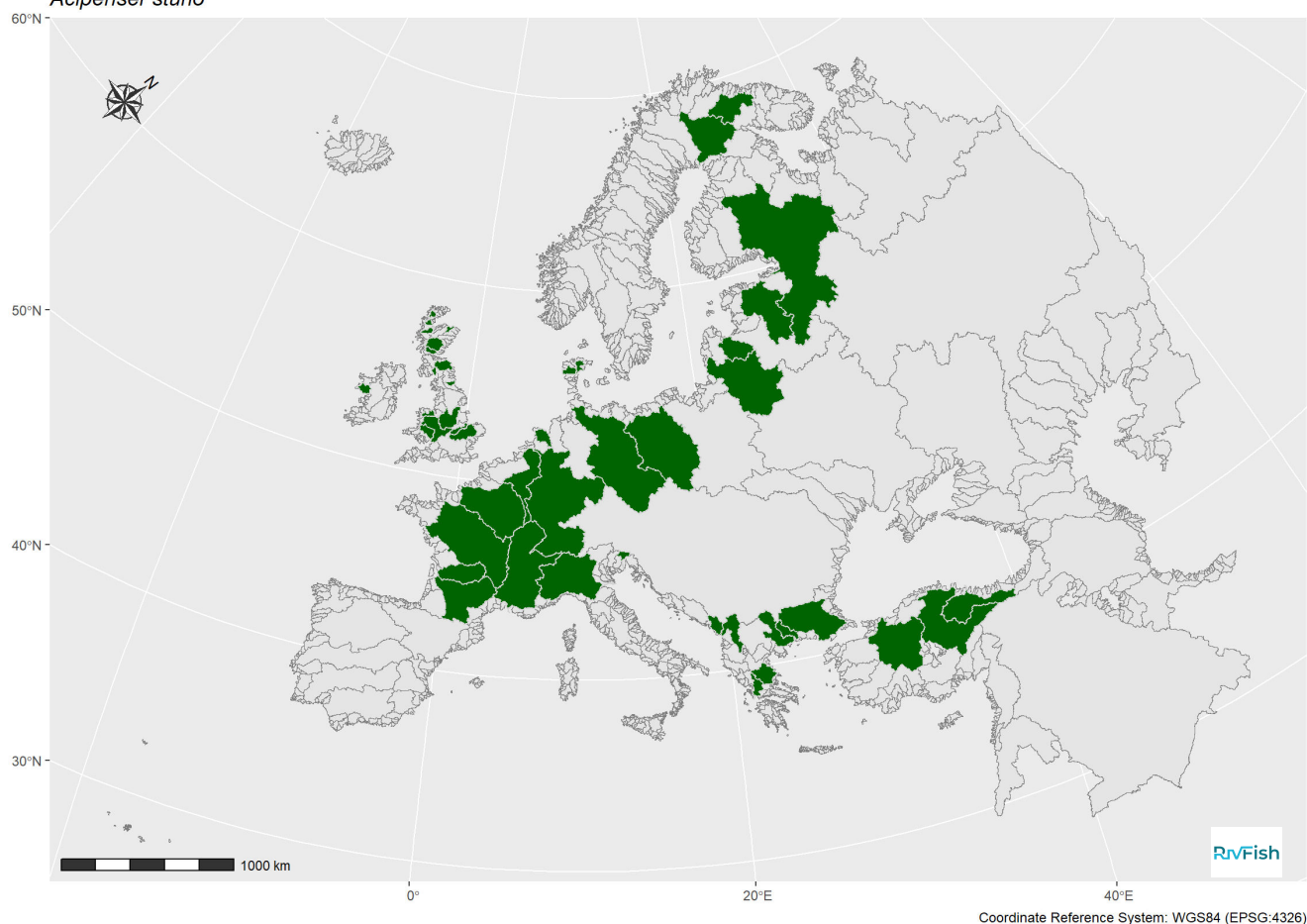
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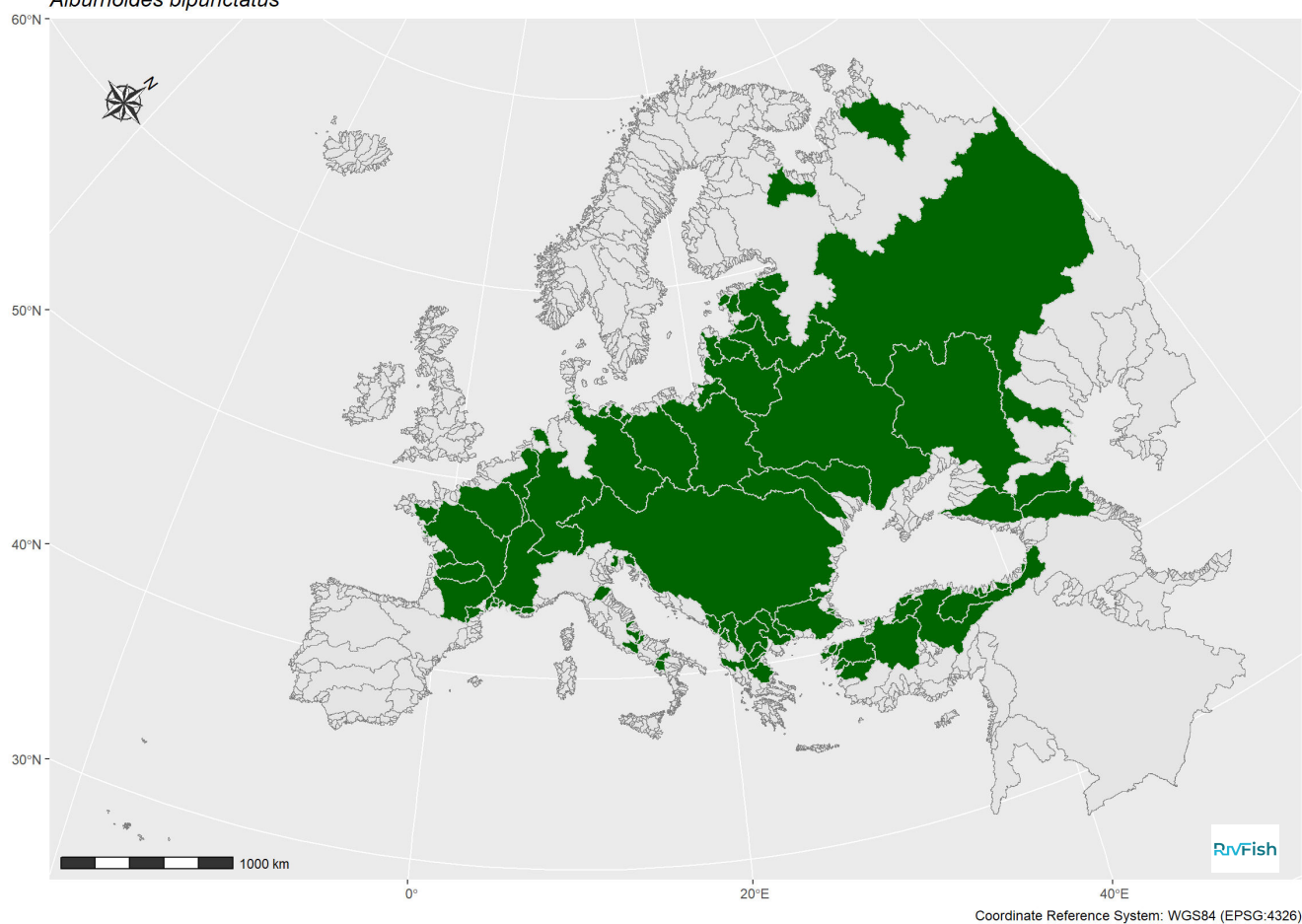




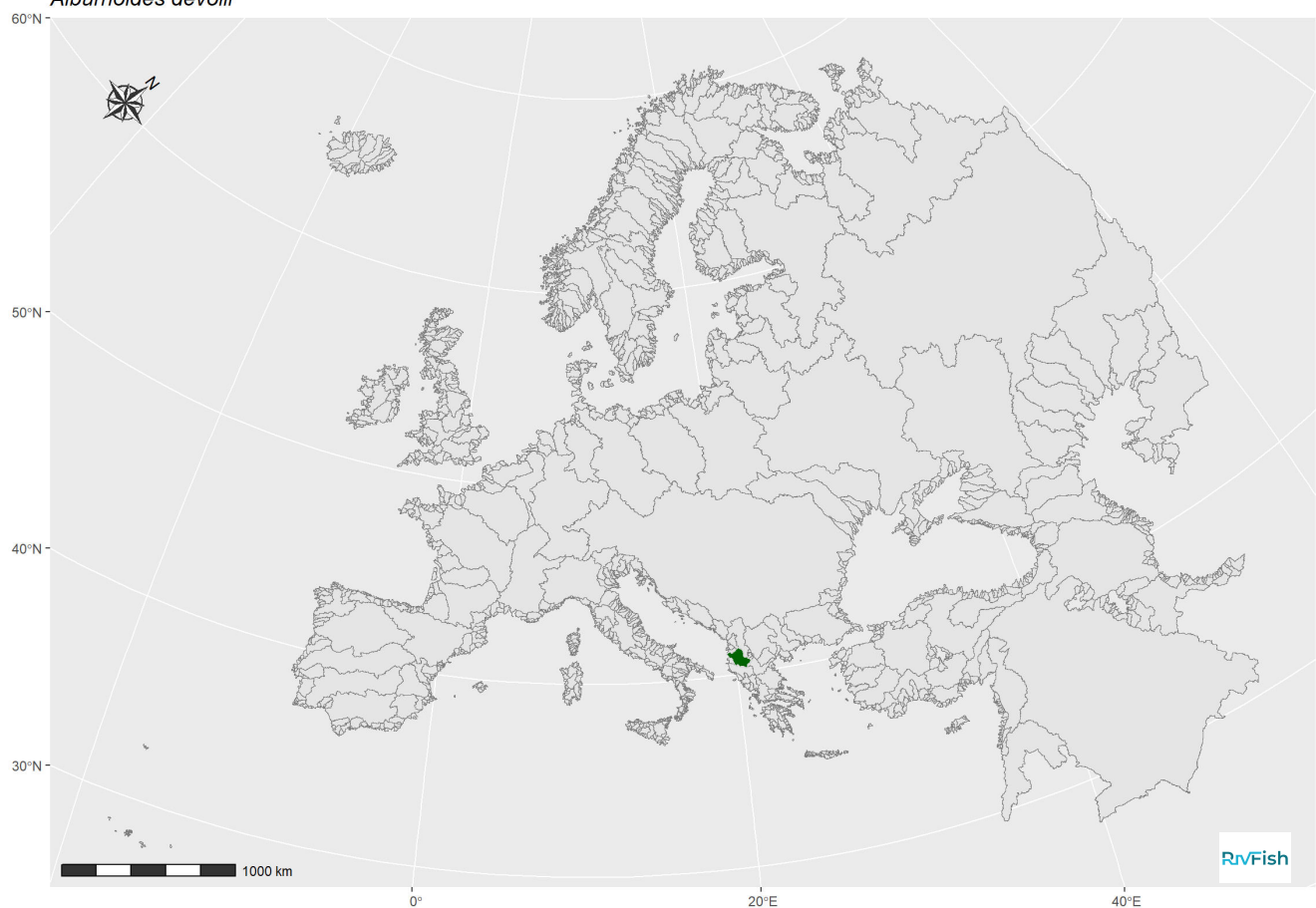
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Alburnoides bipunctatus



Alburnoides devolli



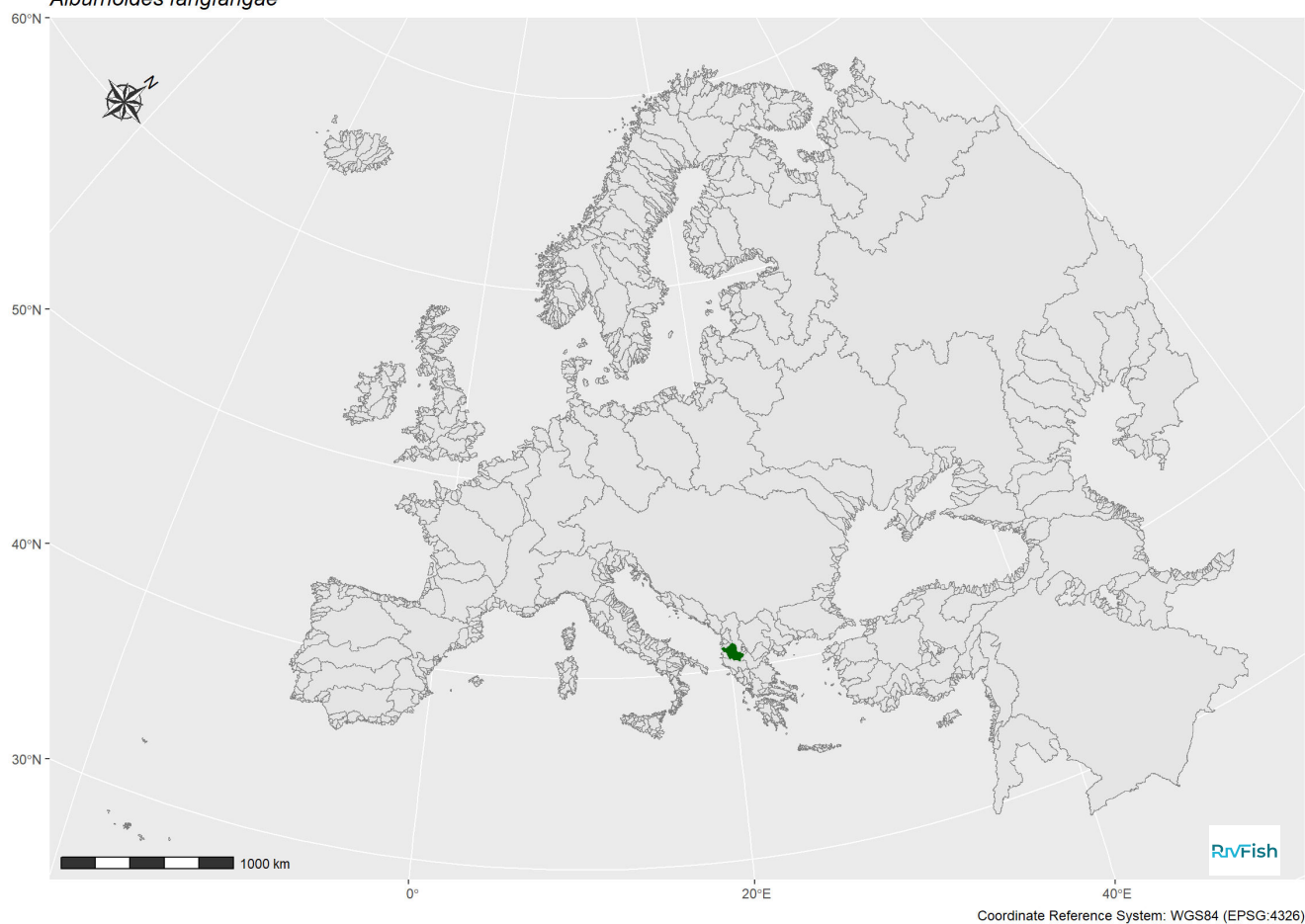
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Alburnoides economoui

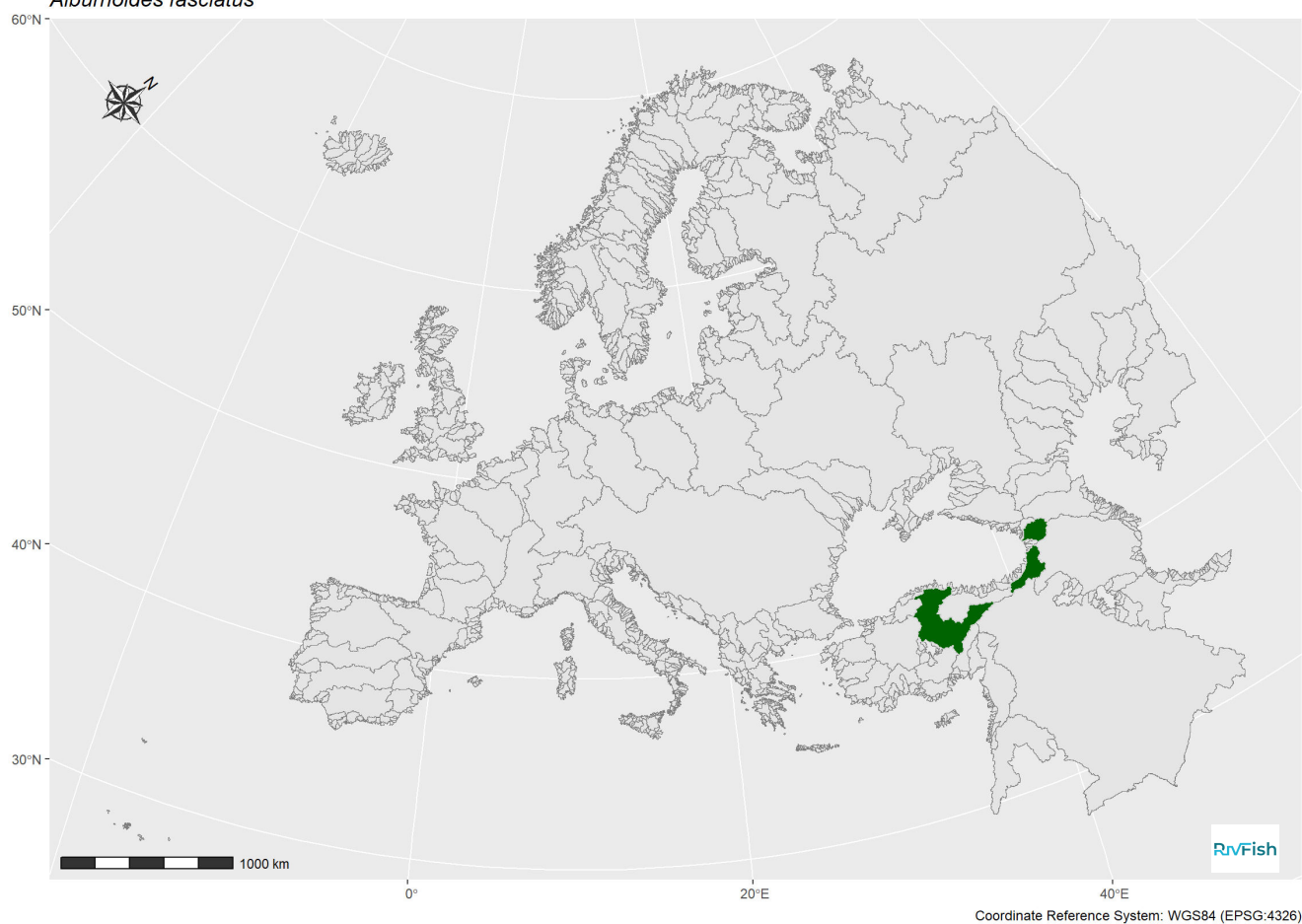


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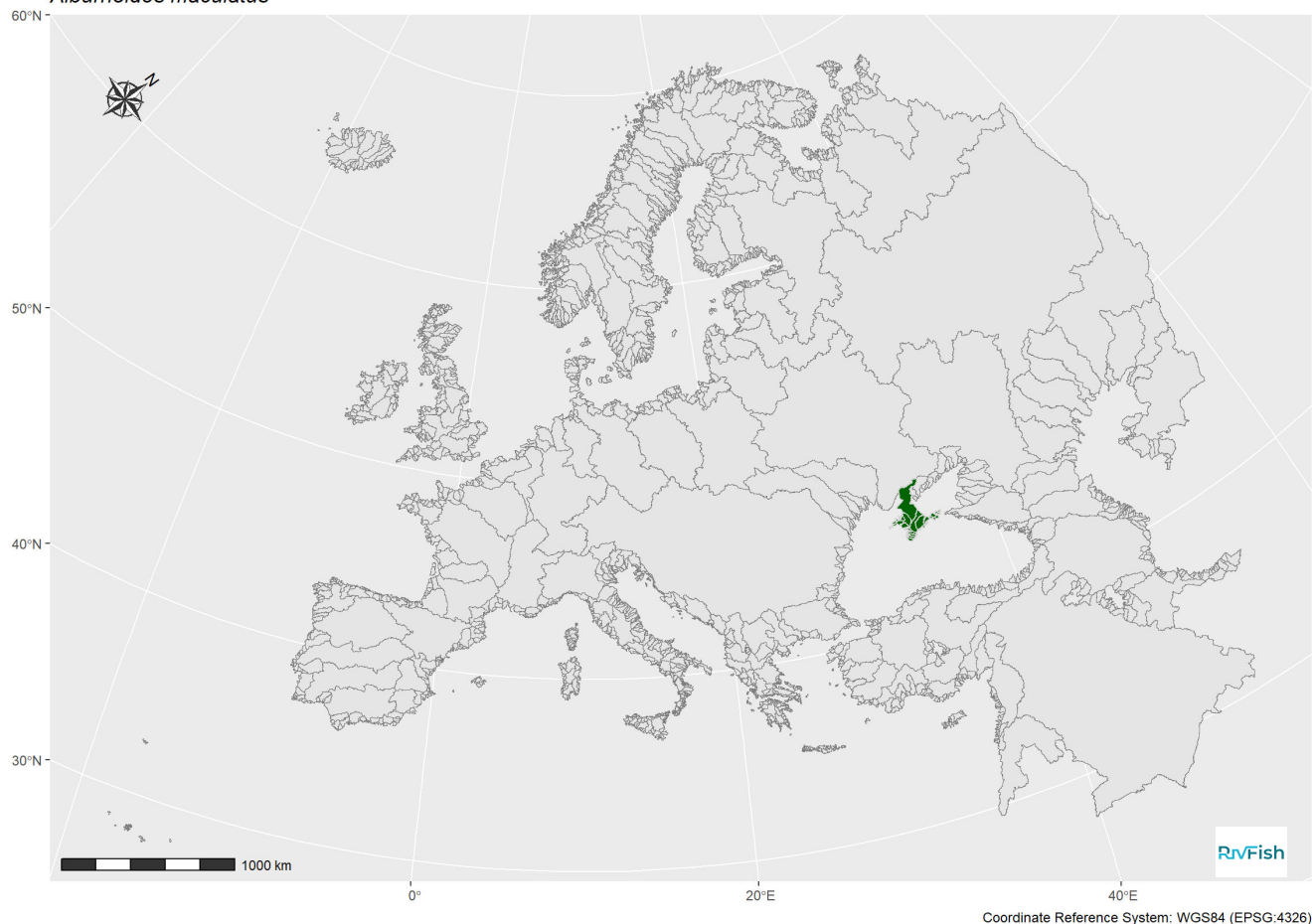
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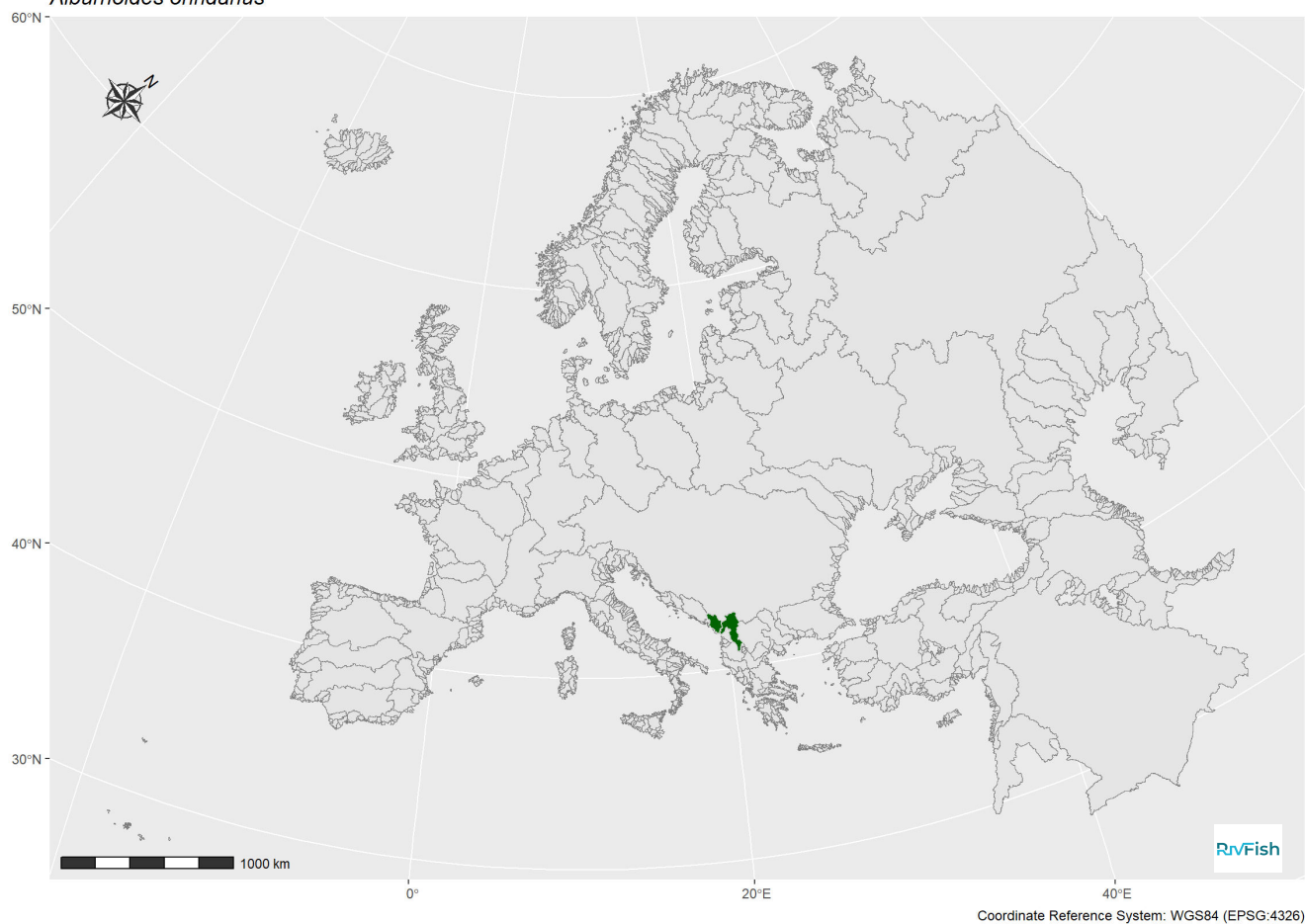
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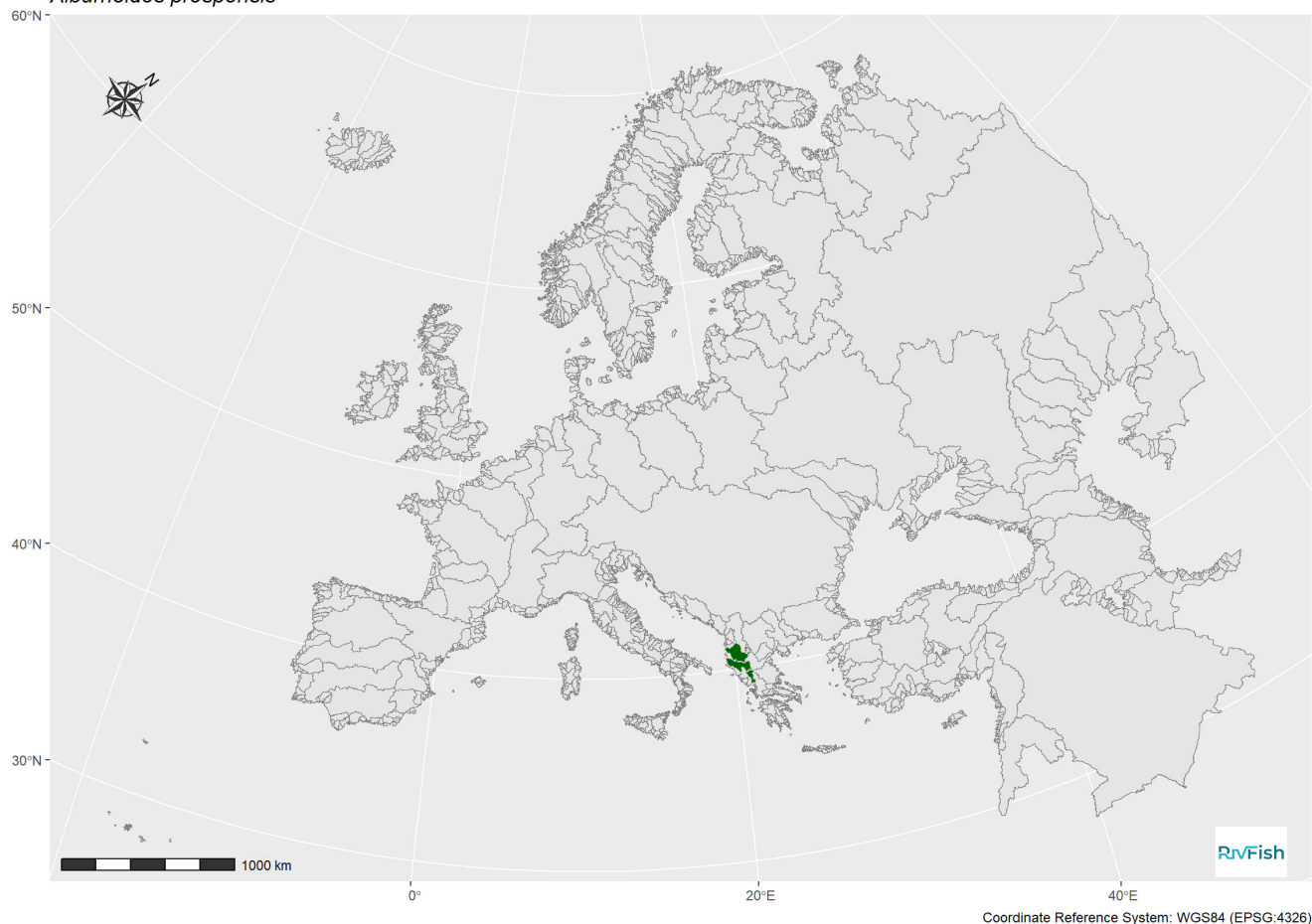
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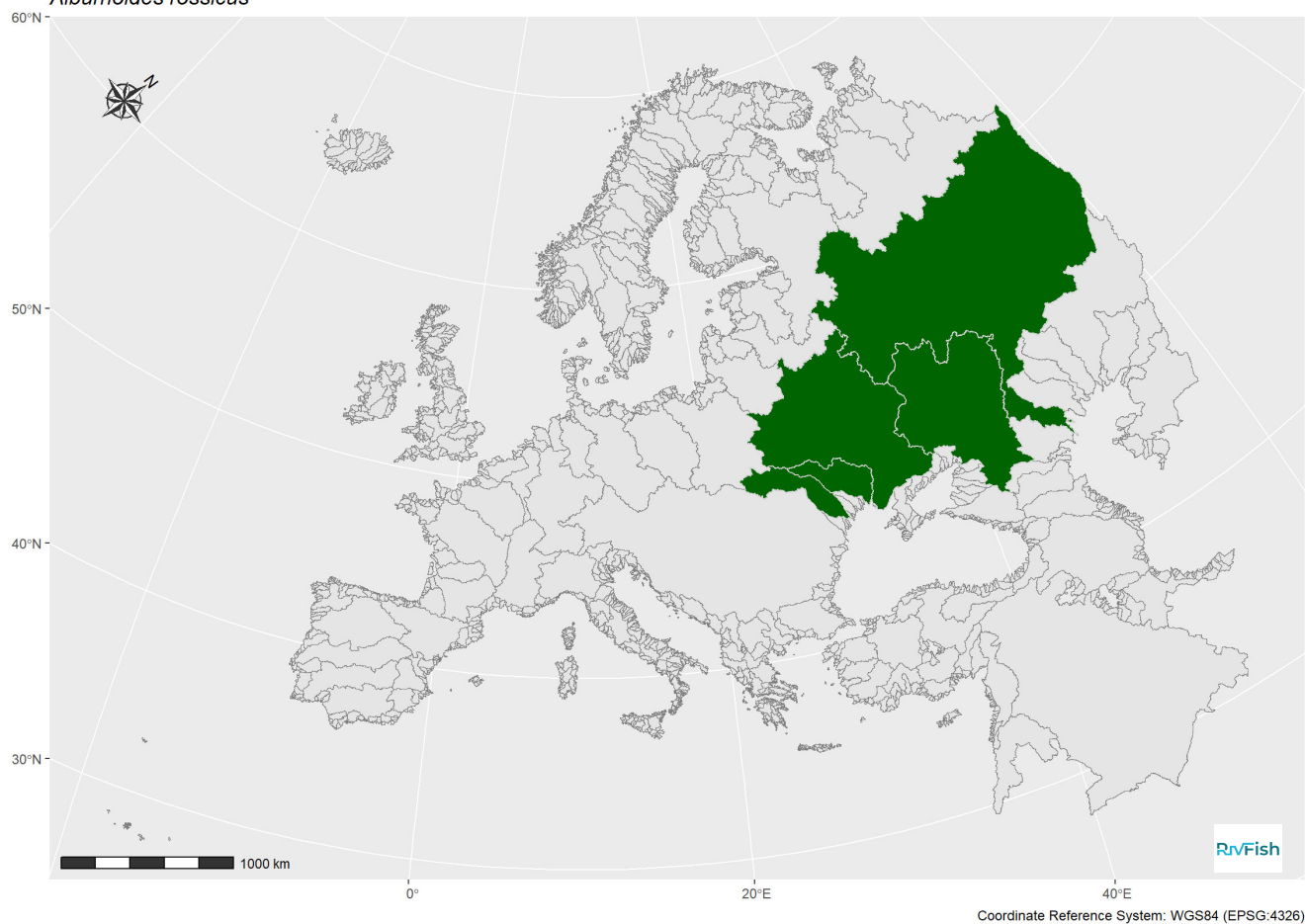
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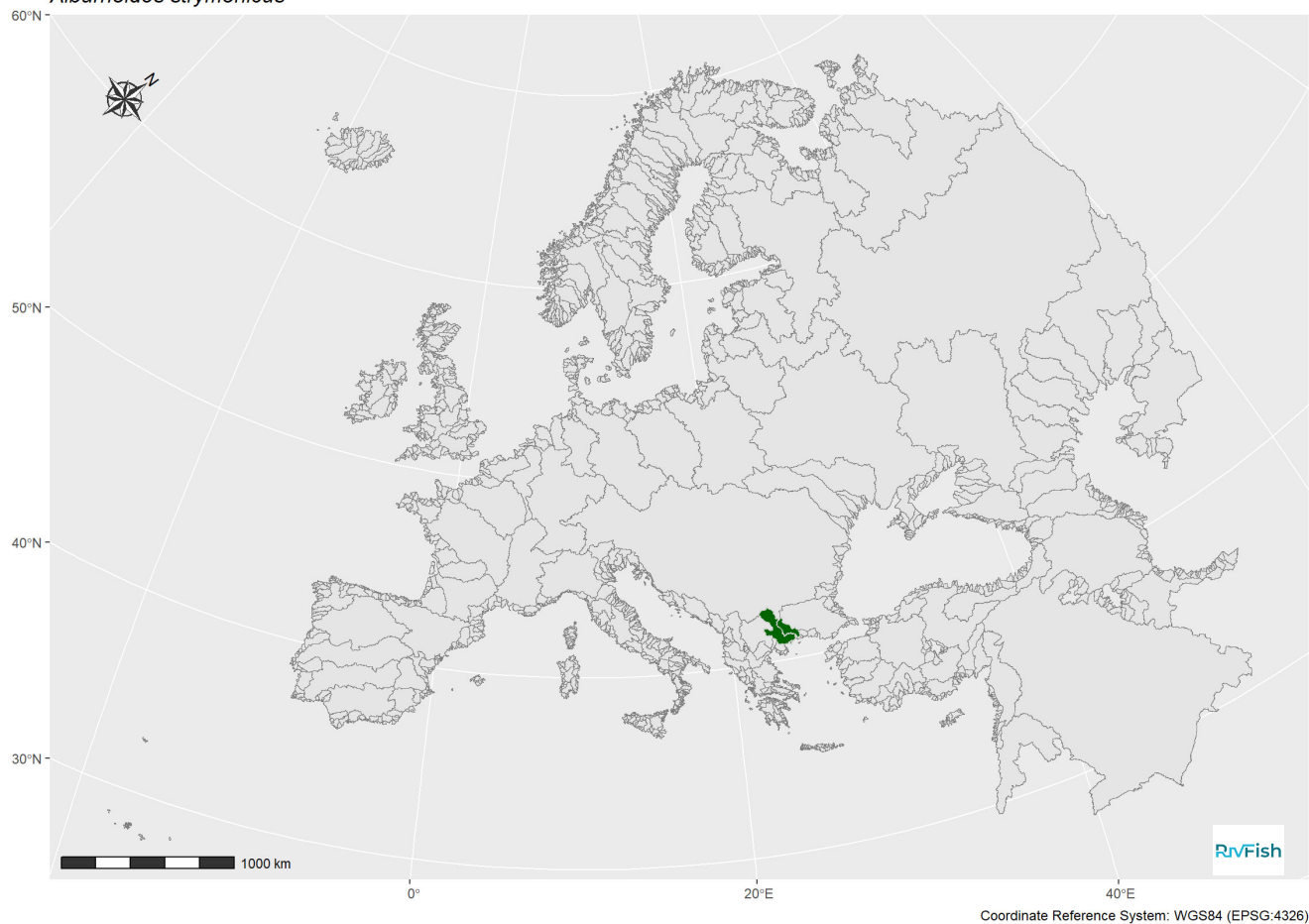
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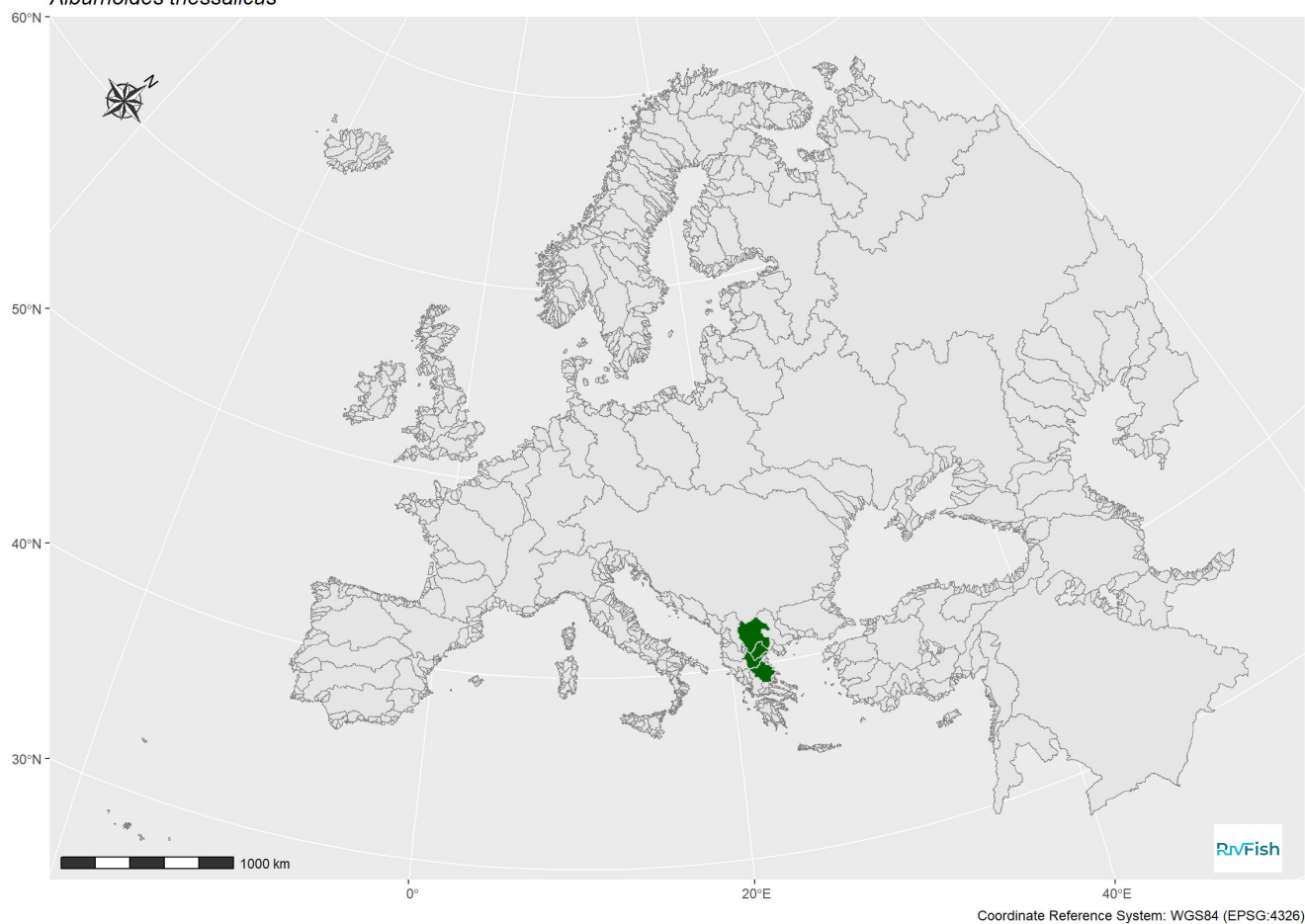
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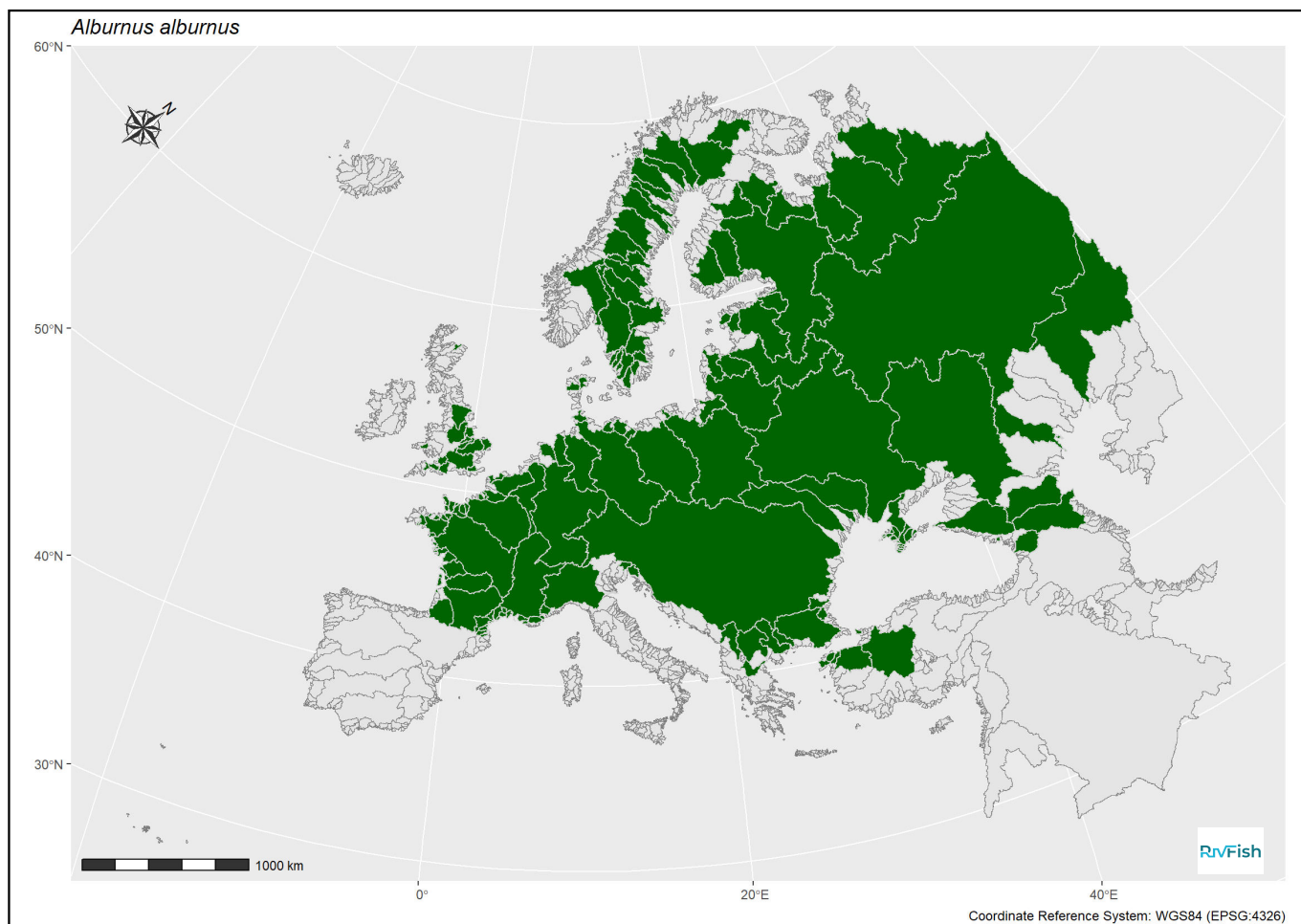
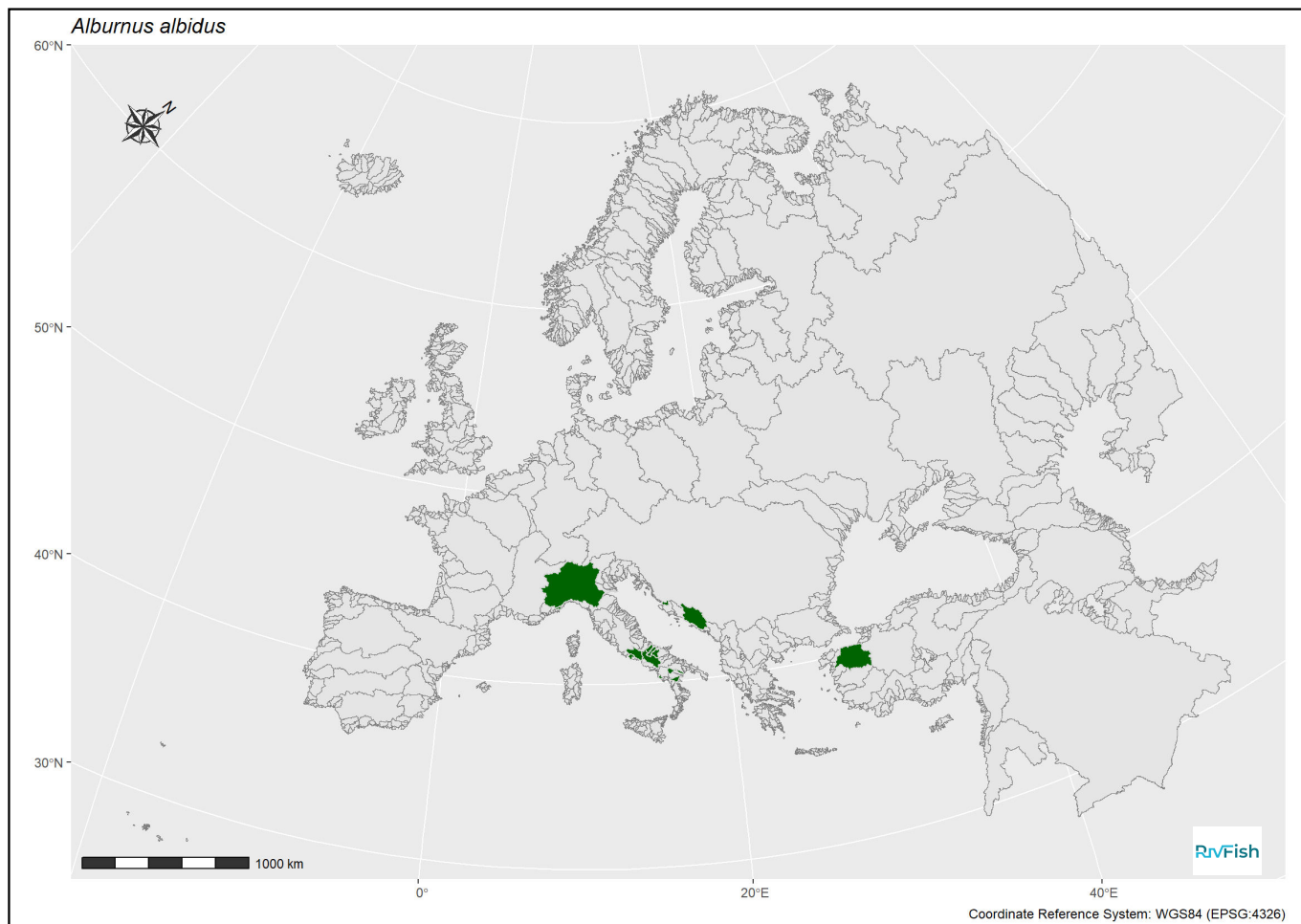


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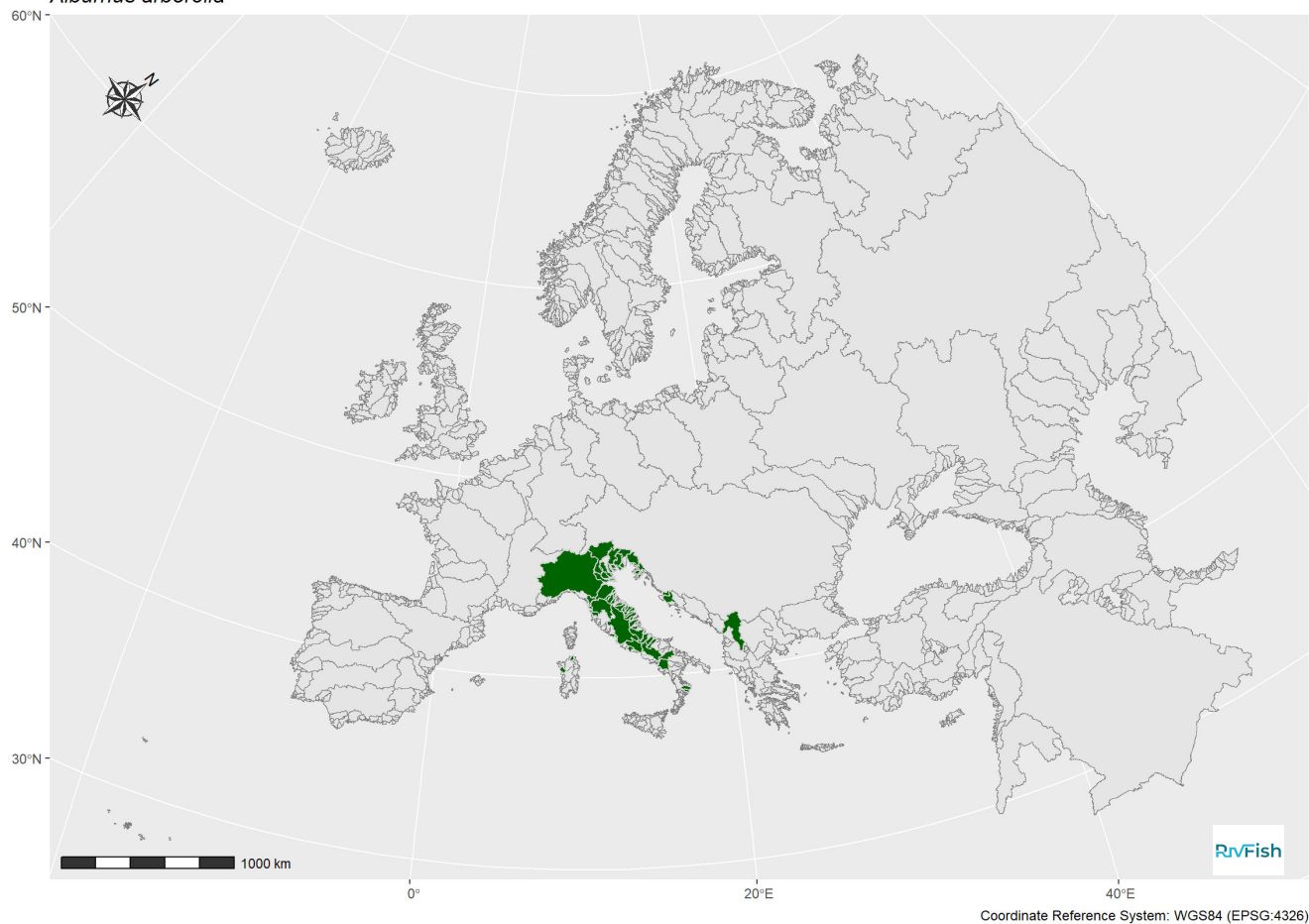


Alburnoides thessalicus





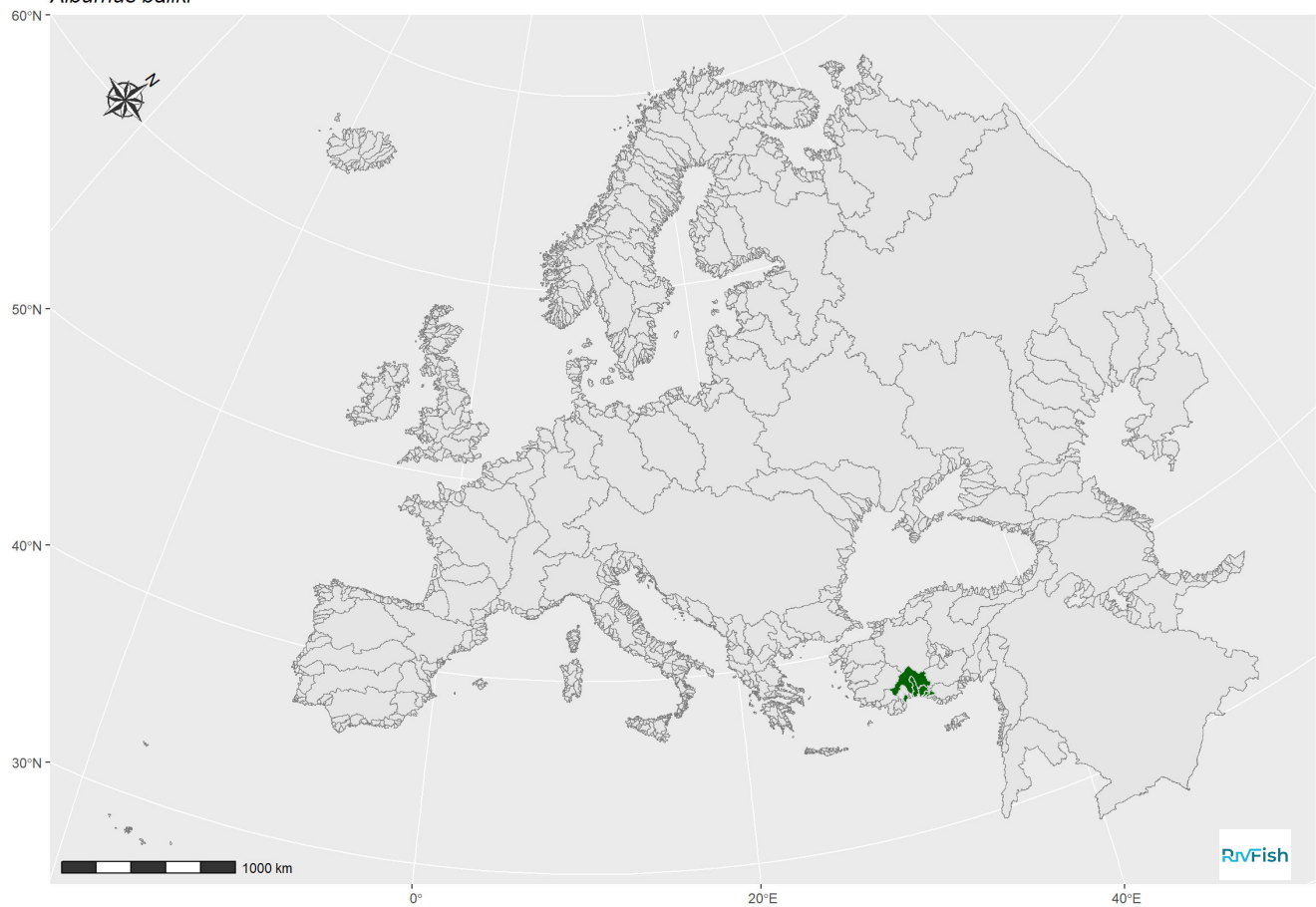
Alburnus arborella



Alburnus attalus

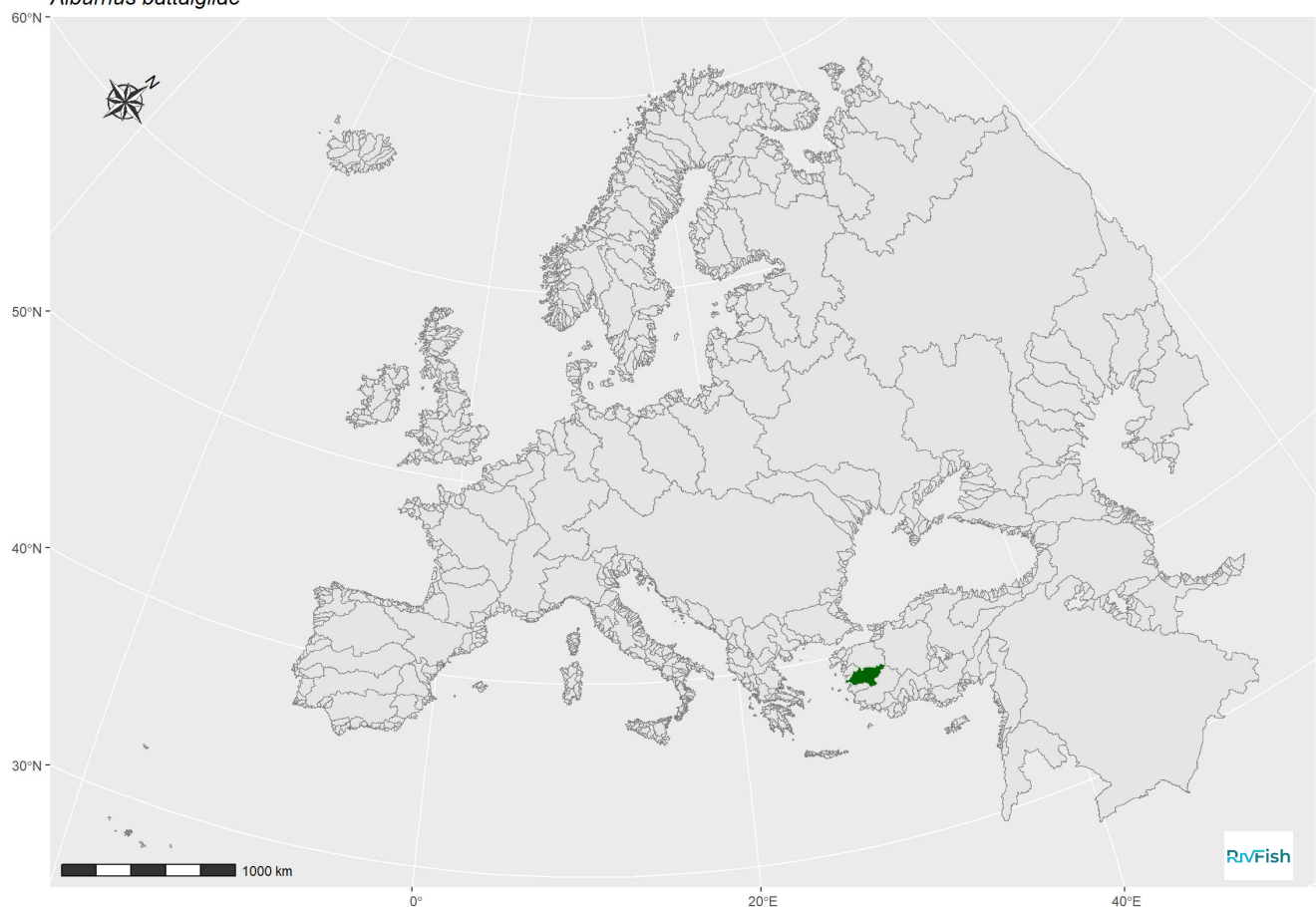


Alburnus baliki



Coordinate Reference System: WGS84 (EPSG:4326)

Alburnus battalgilae



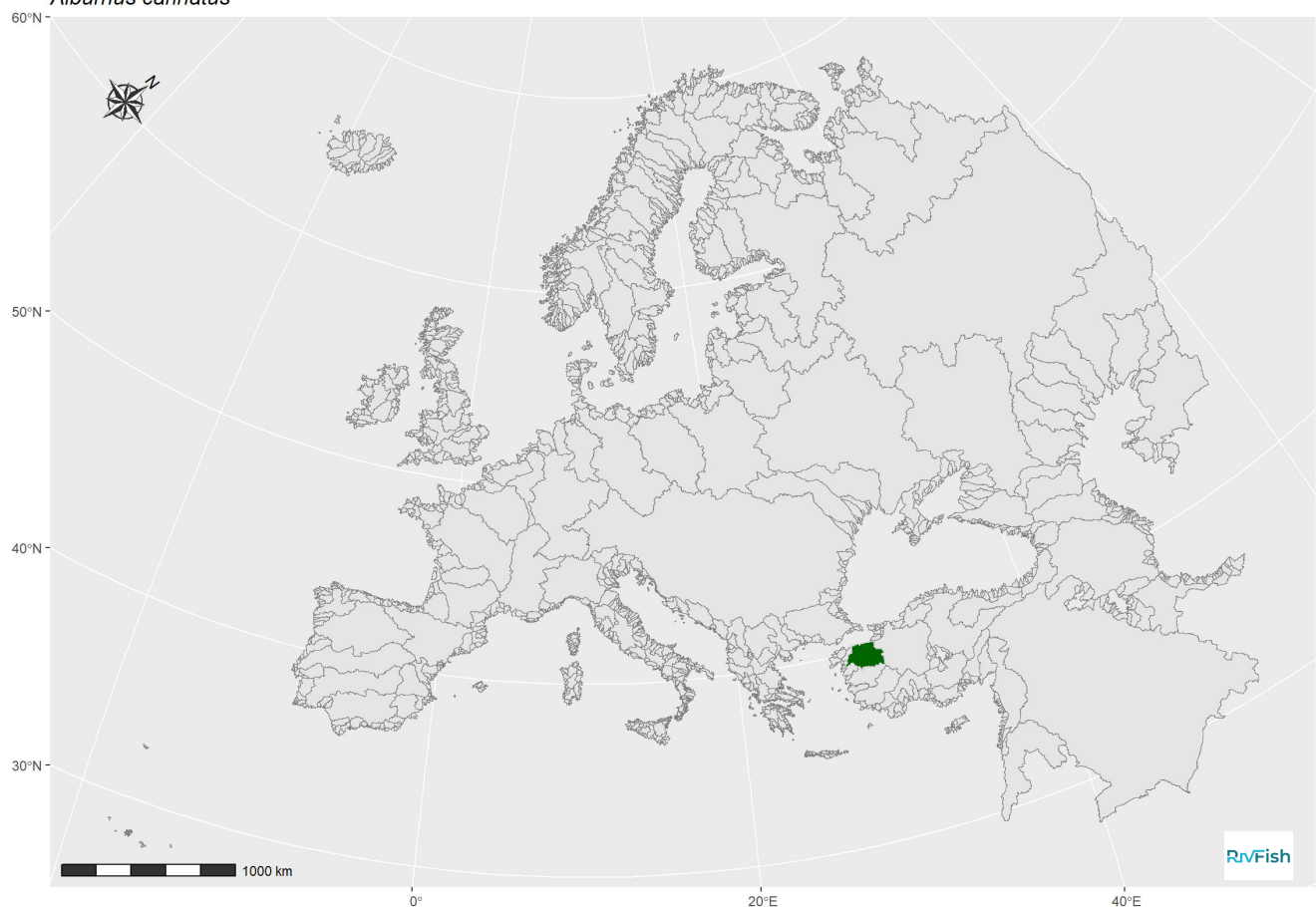
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Alburnus belvica



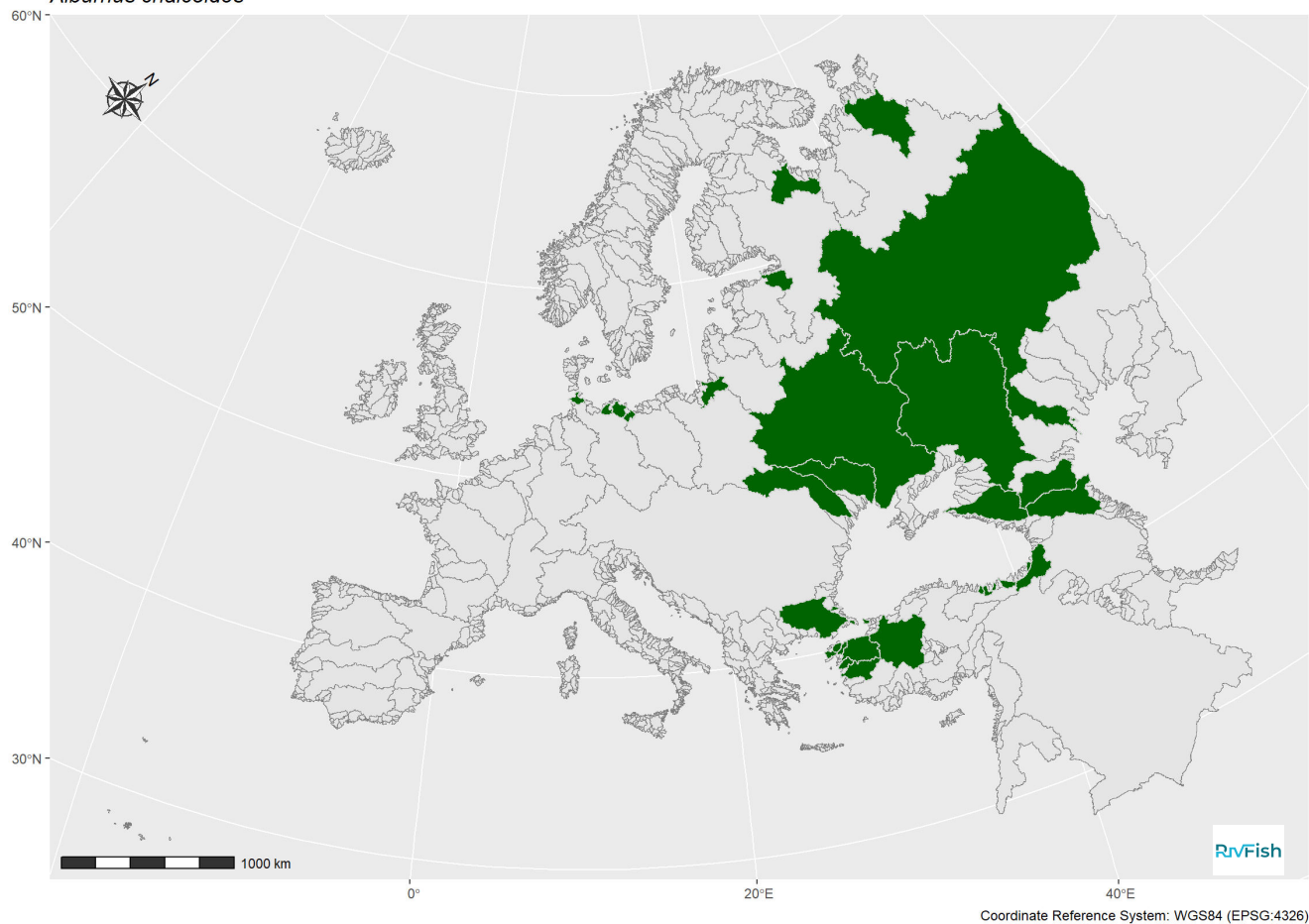
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Alburnus carinatus



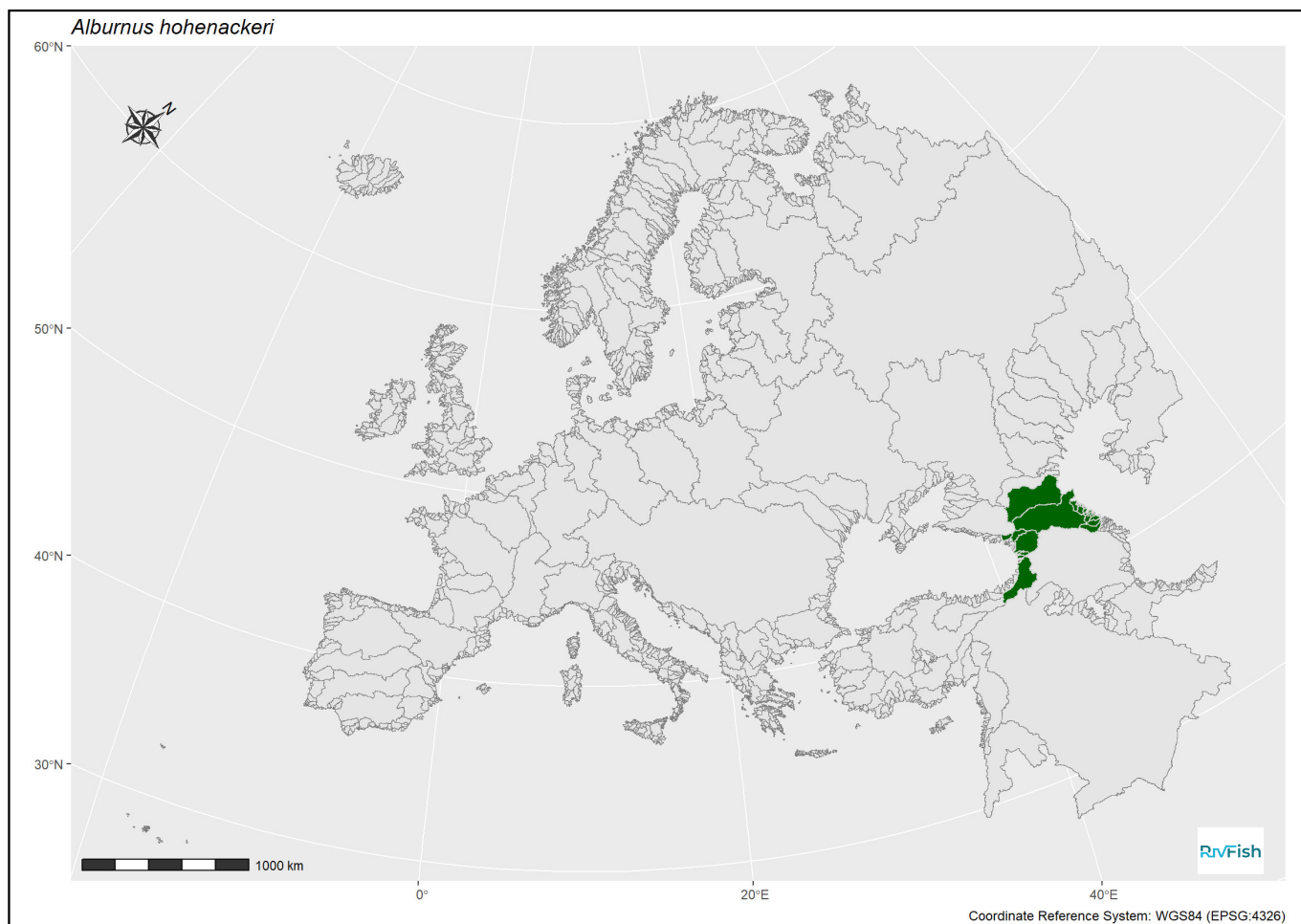
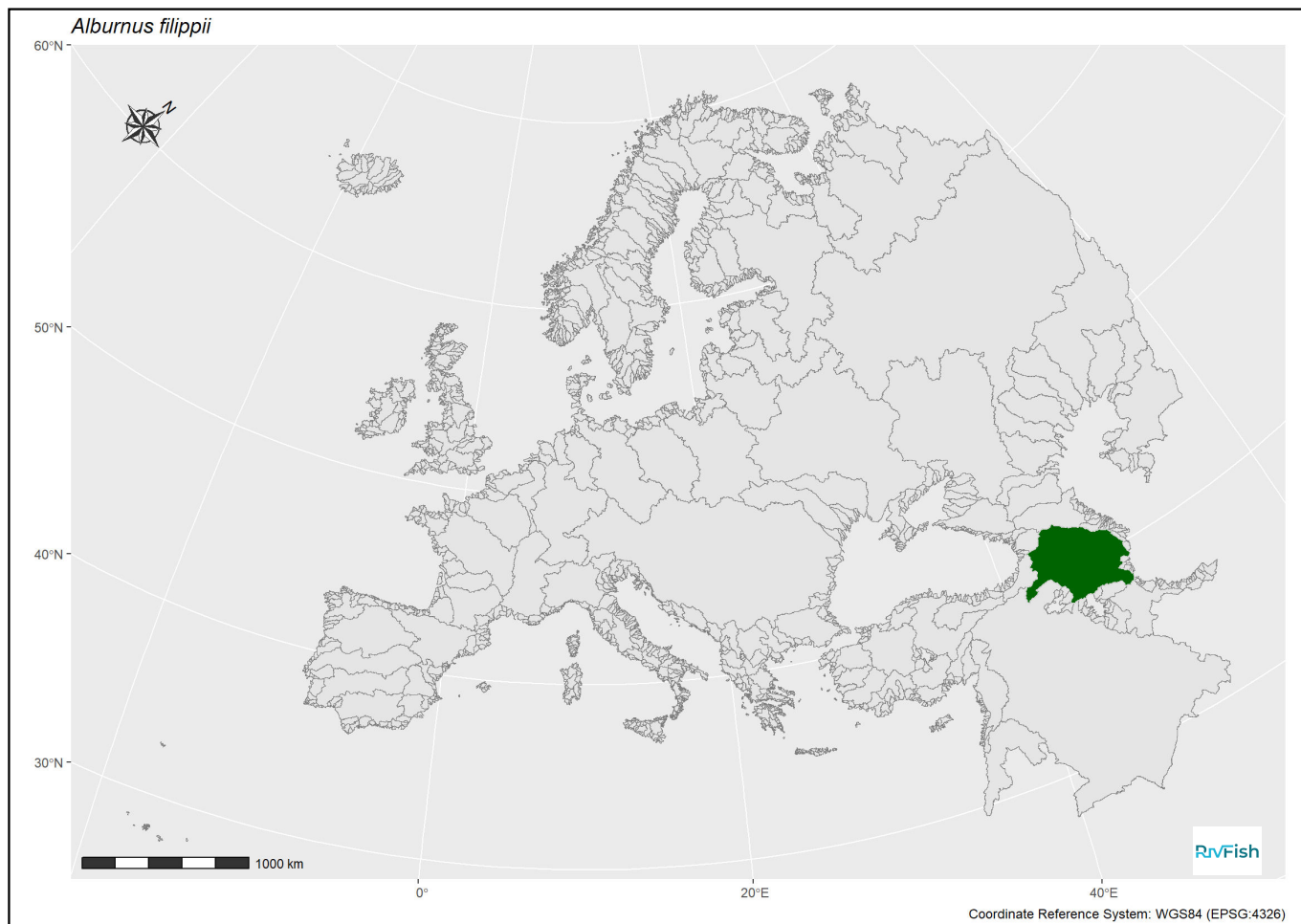
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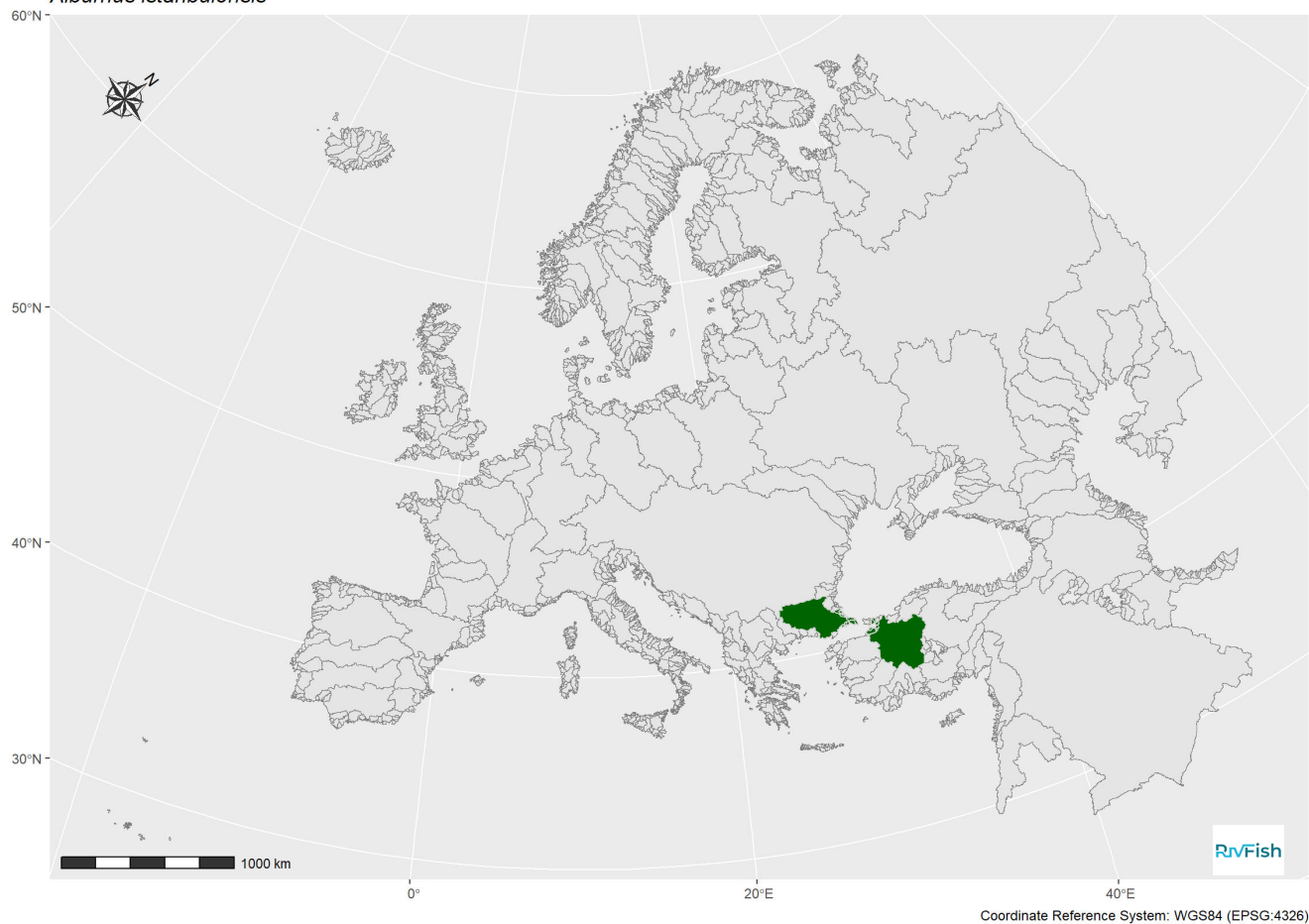


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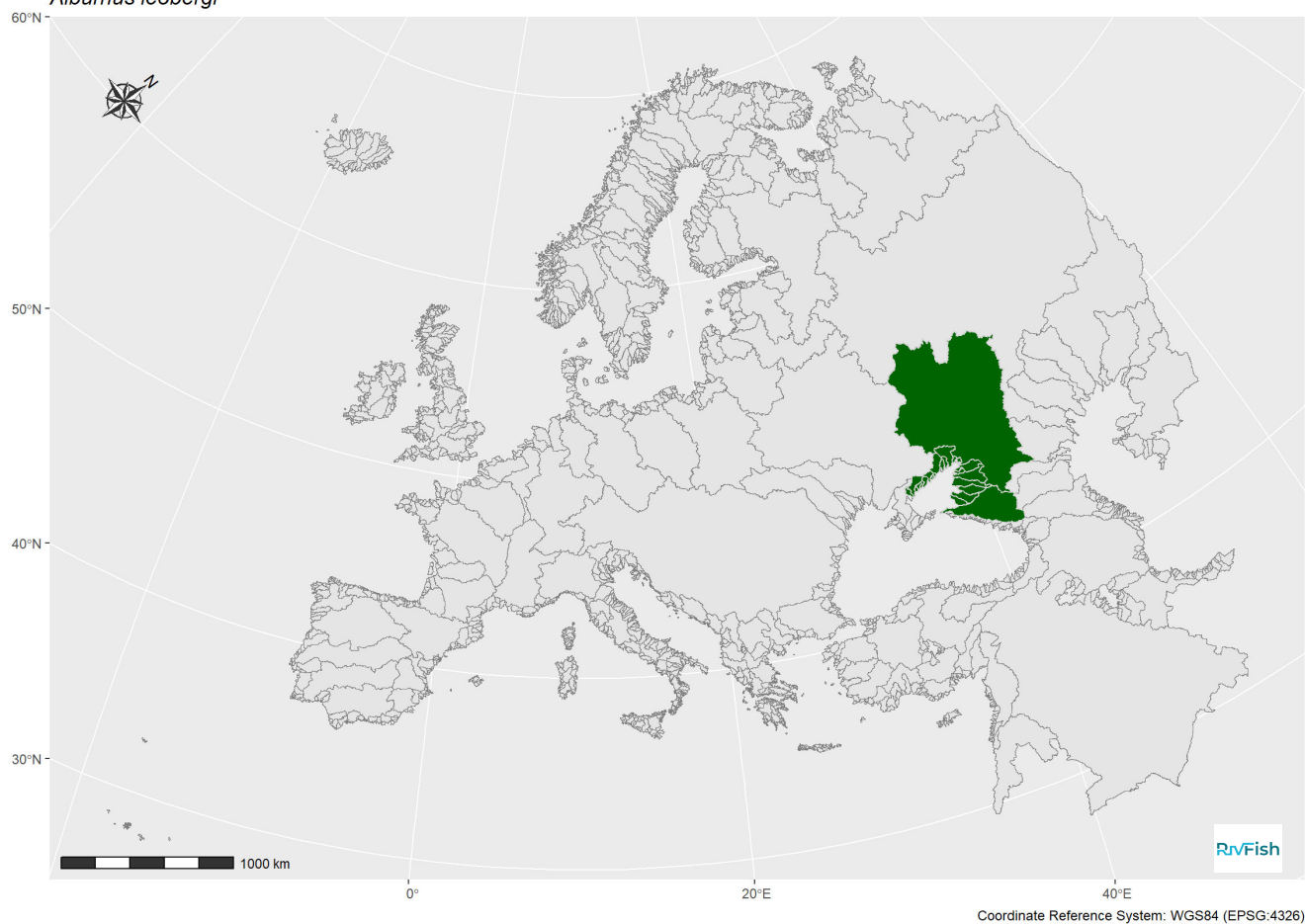




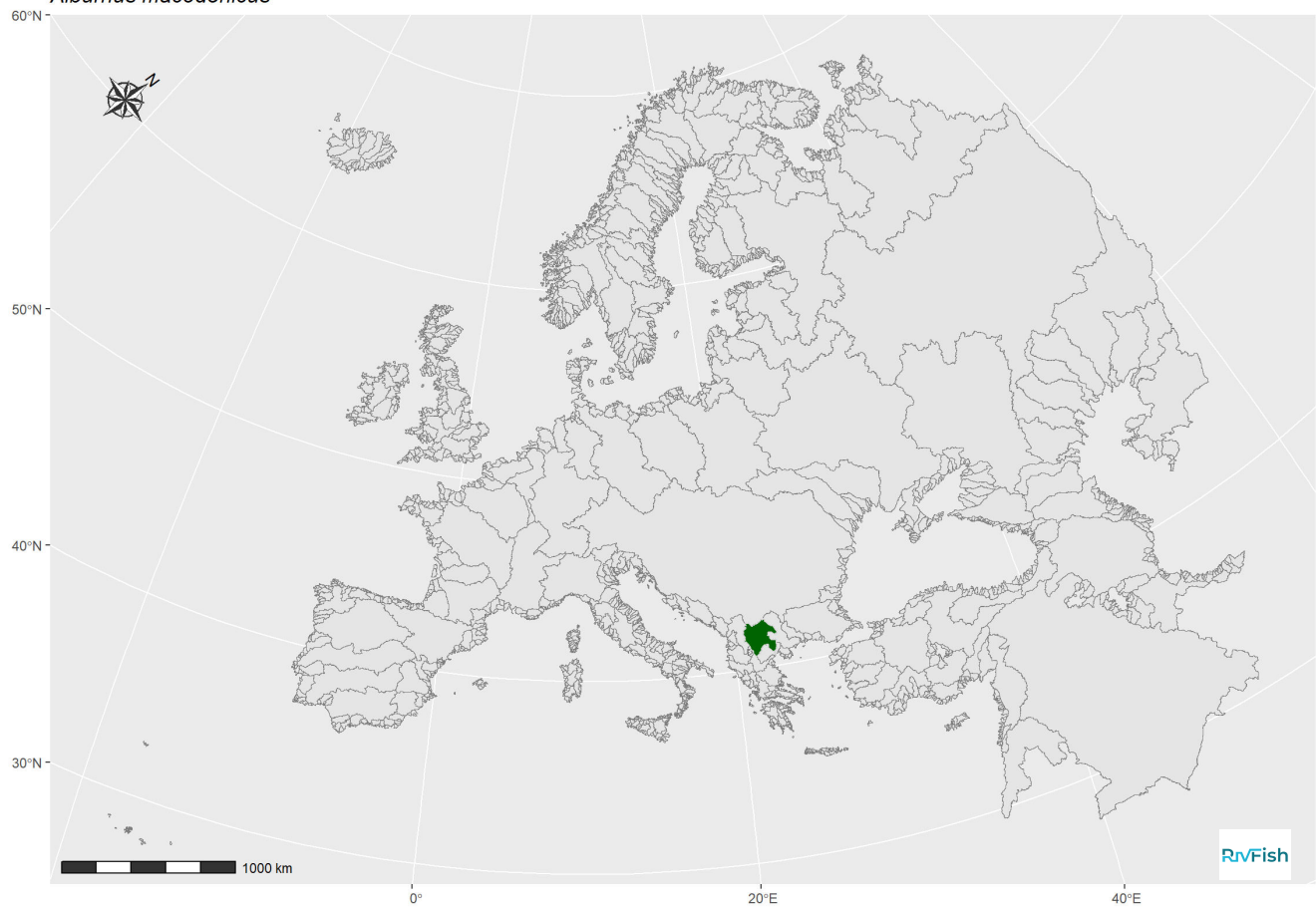
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Alburnus leobergi



Alburnus macedonicus



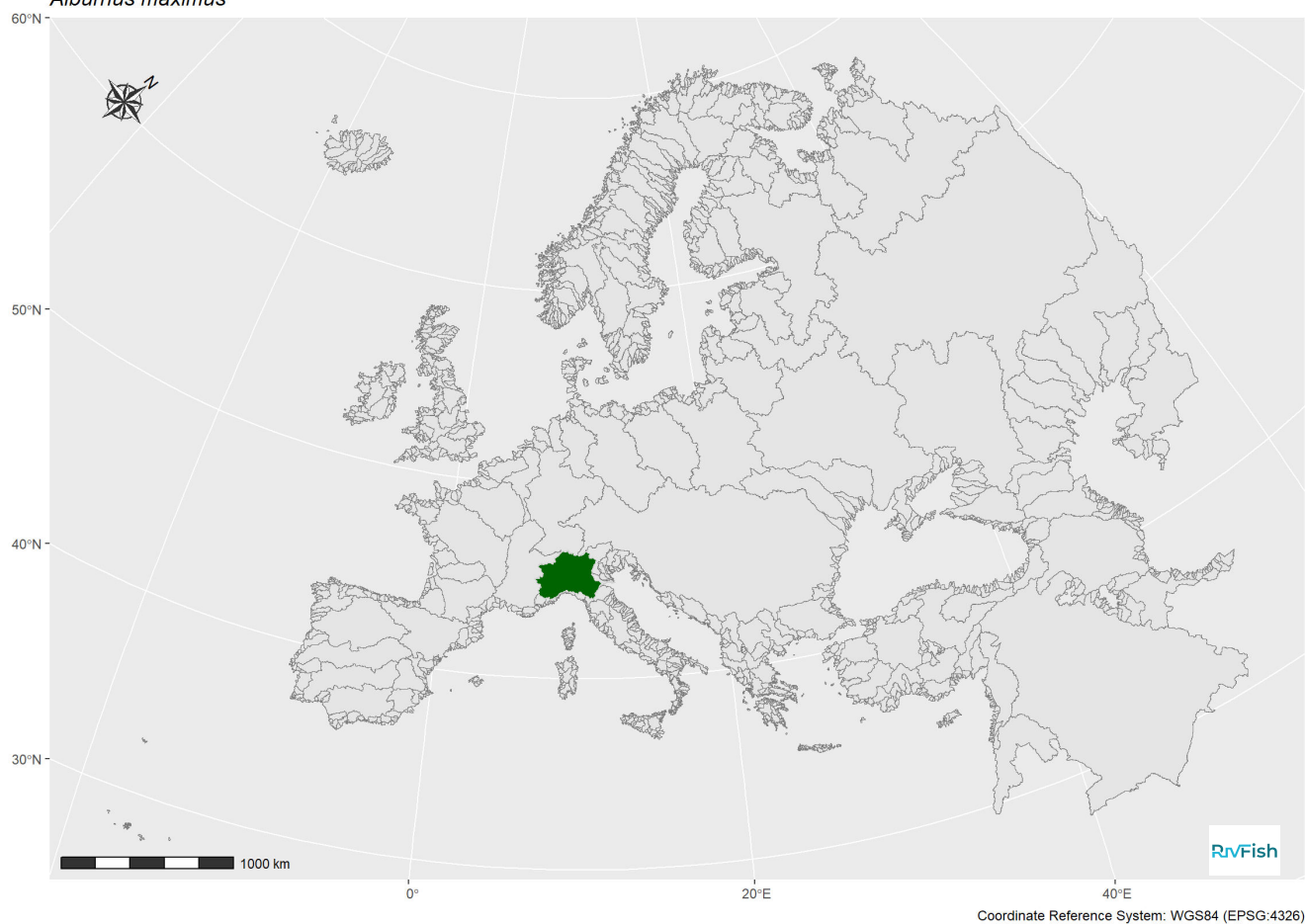
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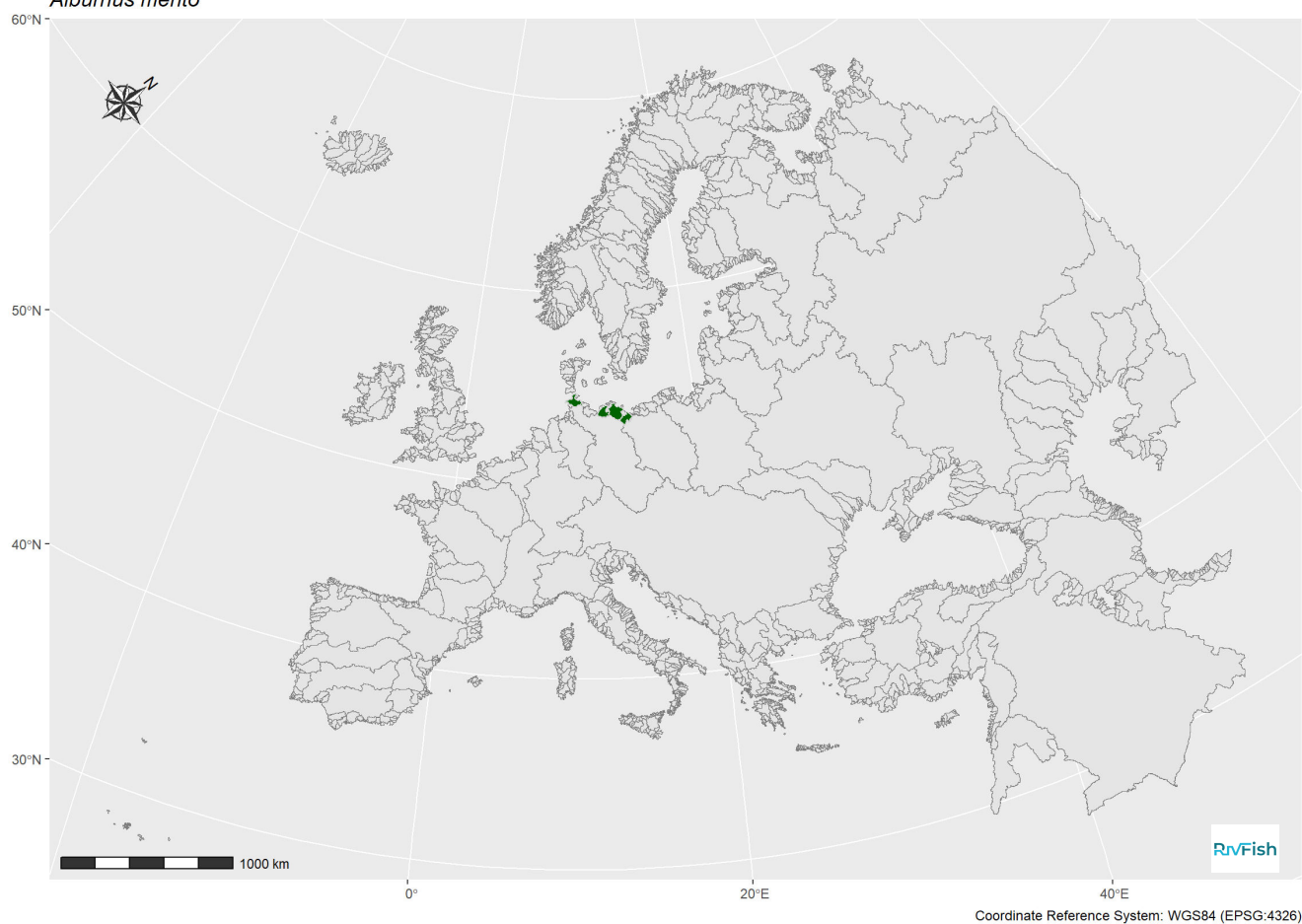


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Alburnus maximus



Alburnus mento

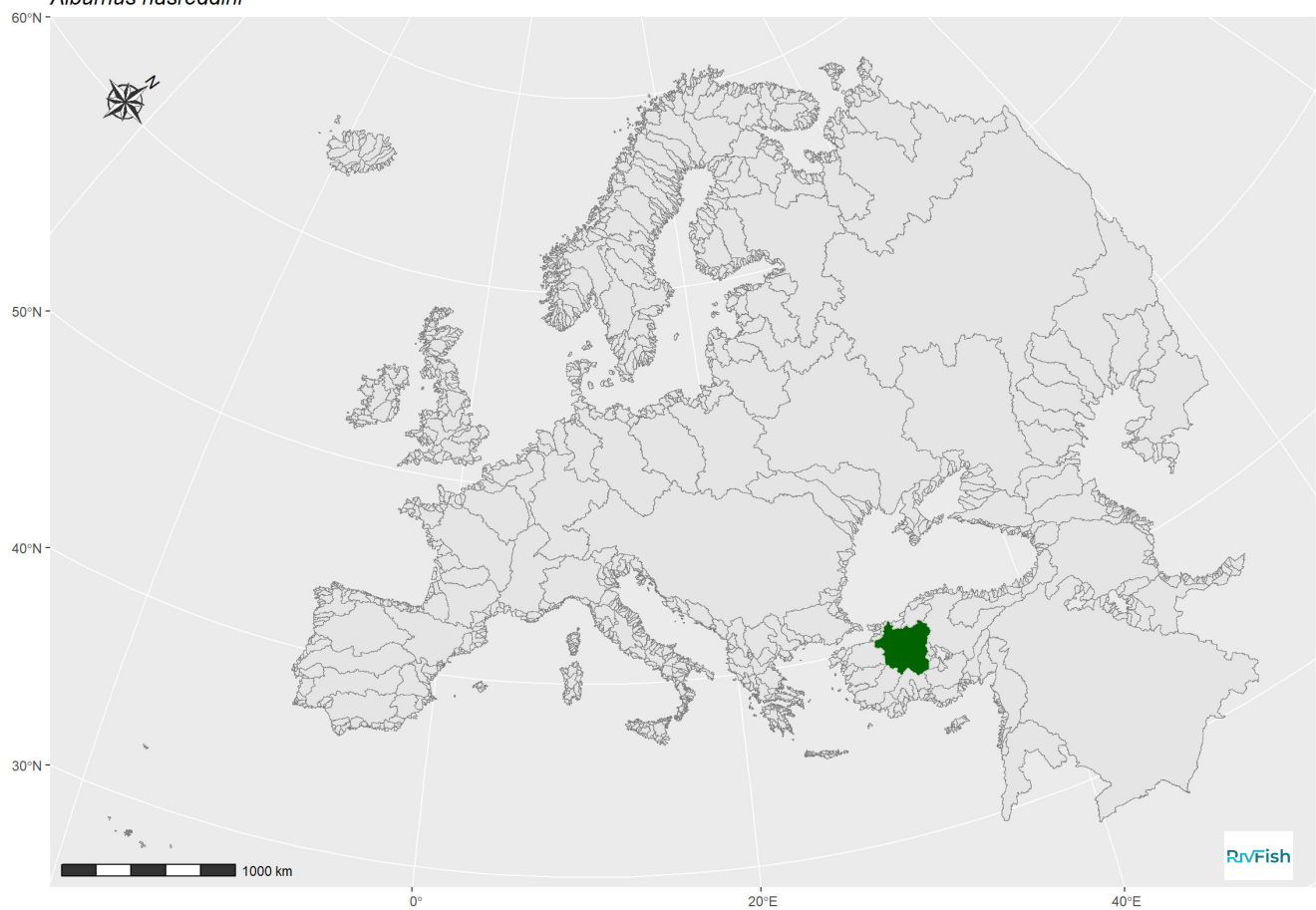


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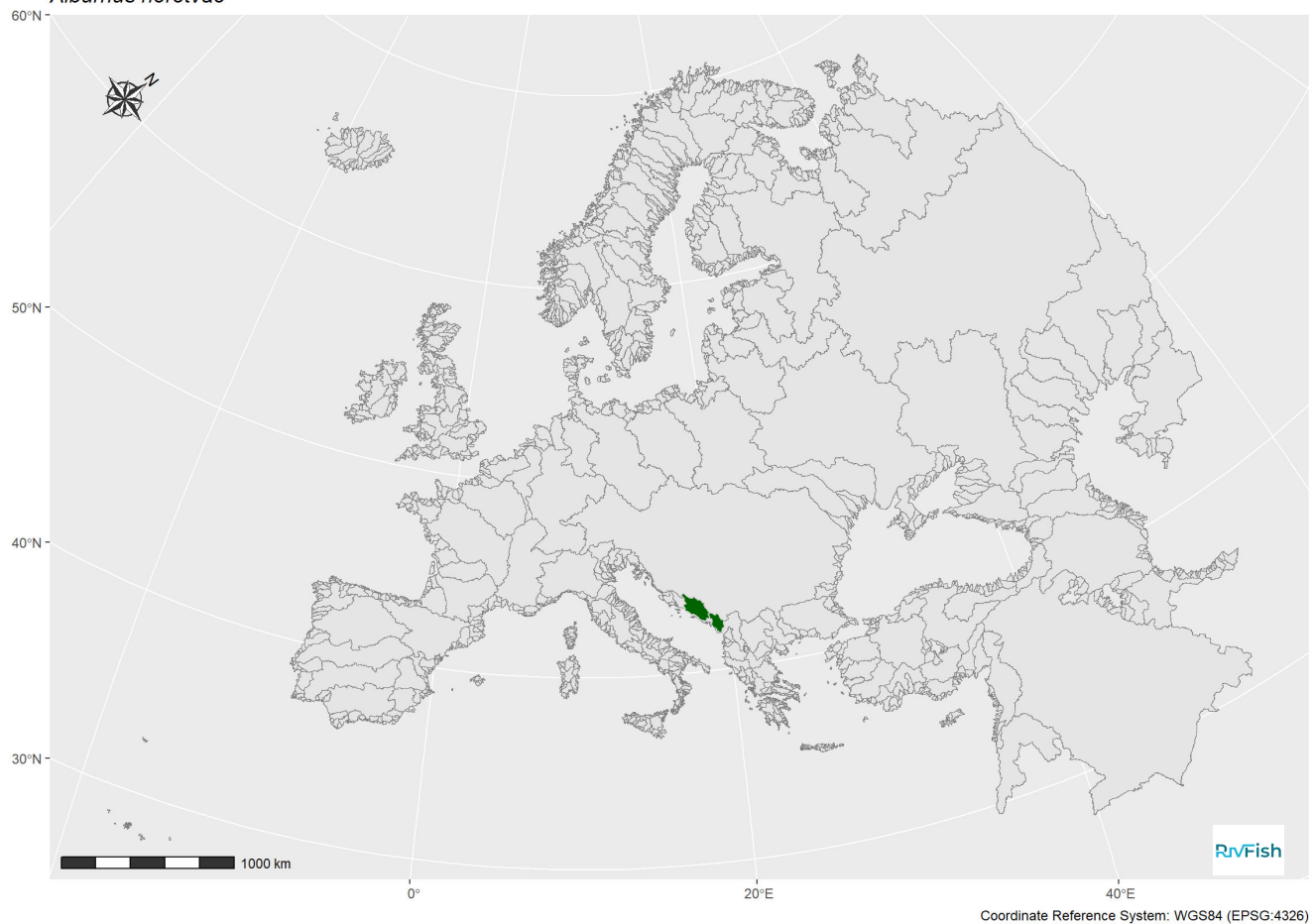
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Alburnus nasreddini

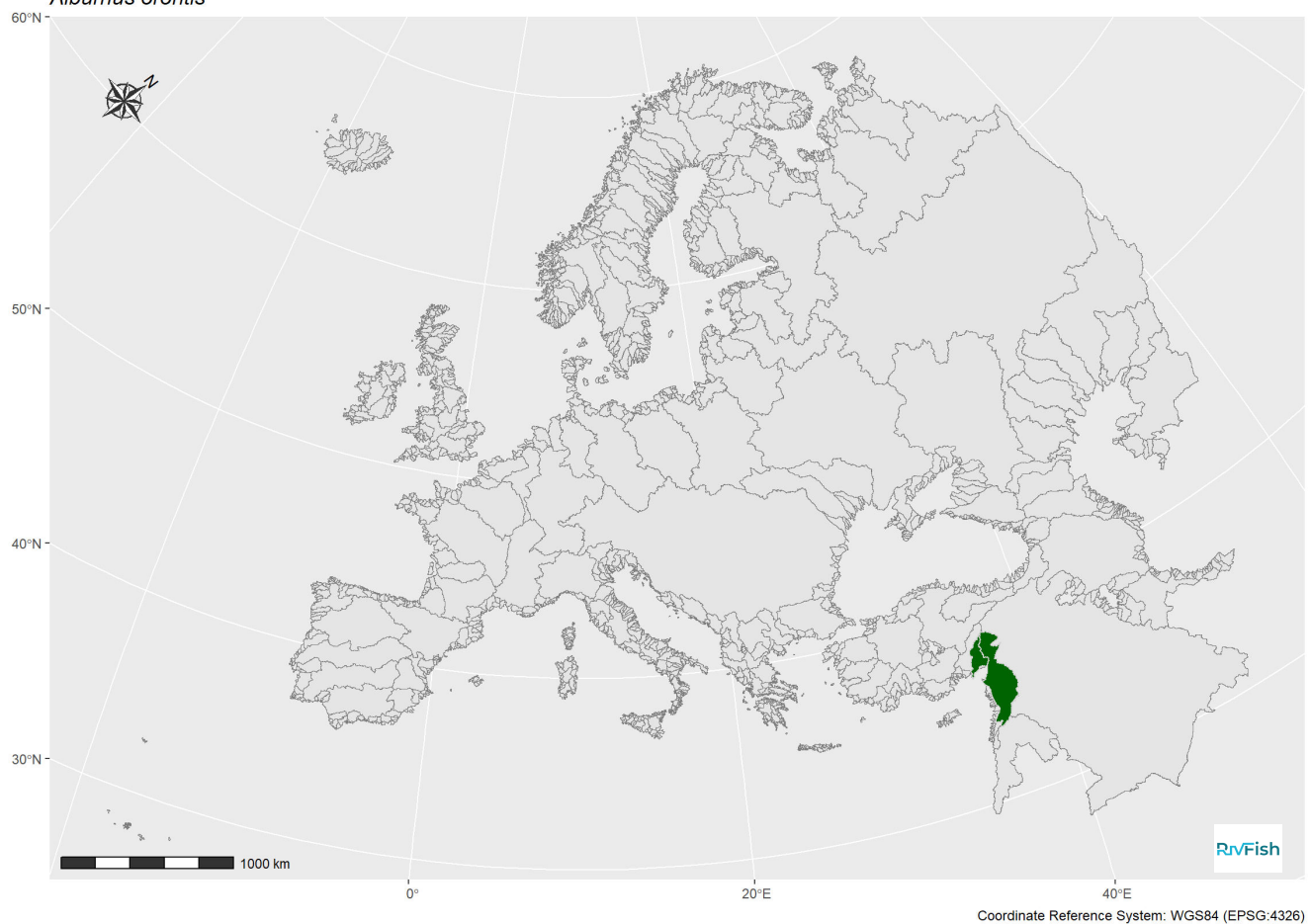


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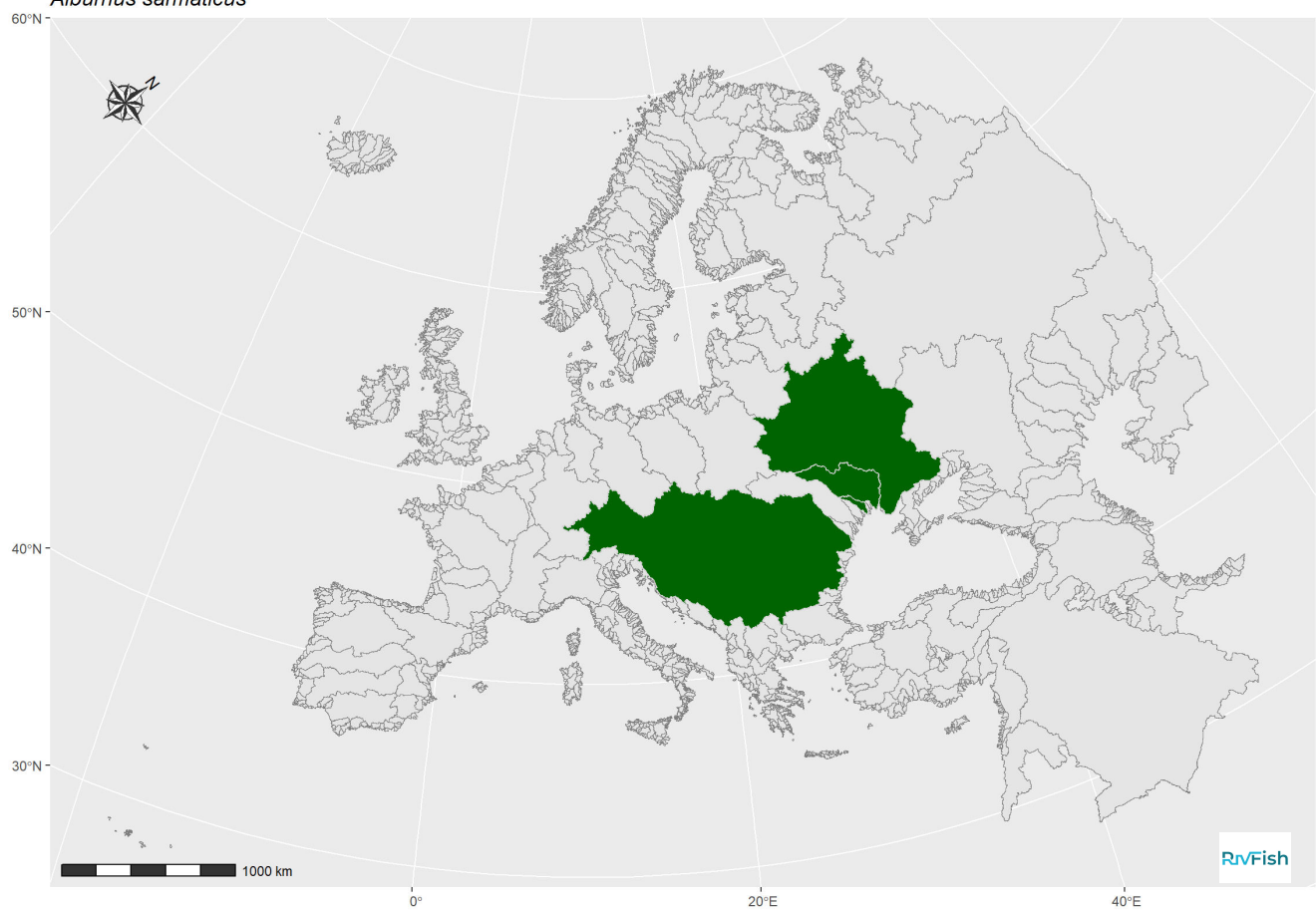
Alburnus neretvae



Alburnus orontis

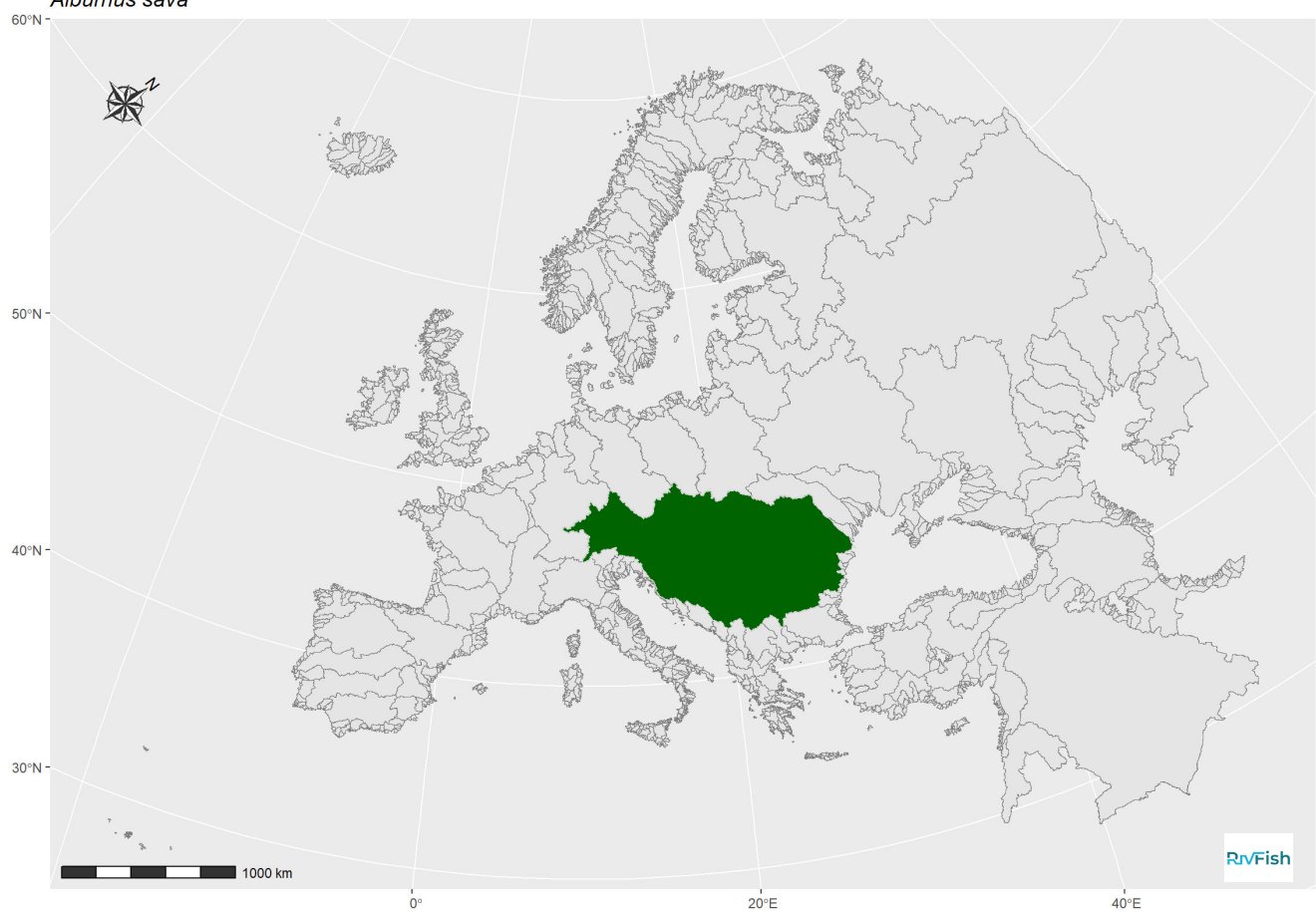


Alburnus sarmaticus



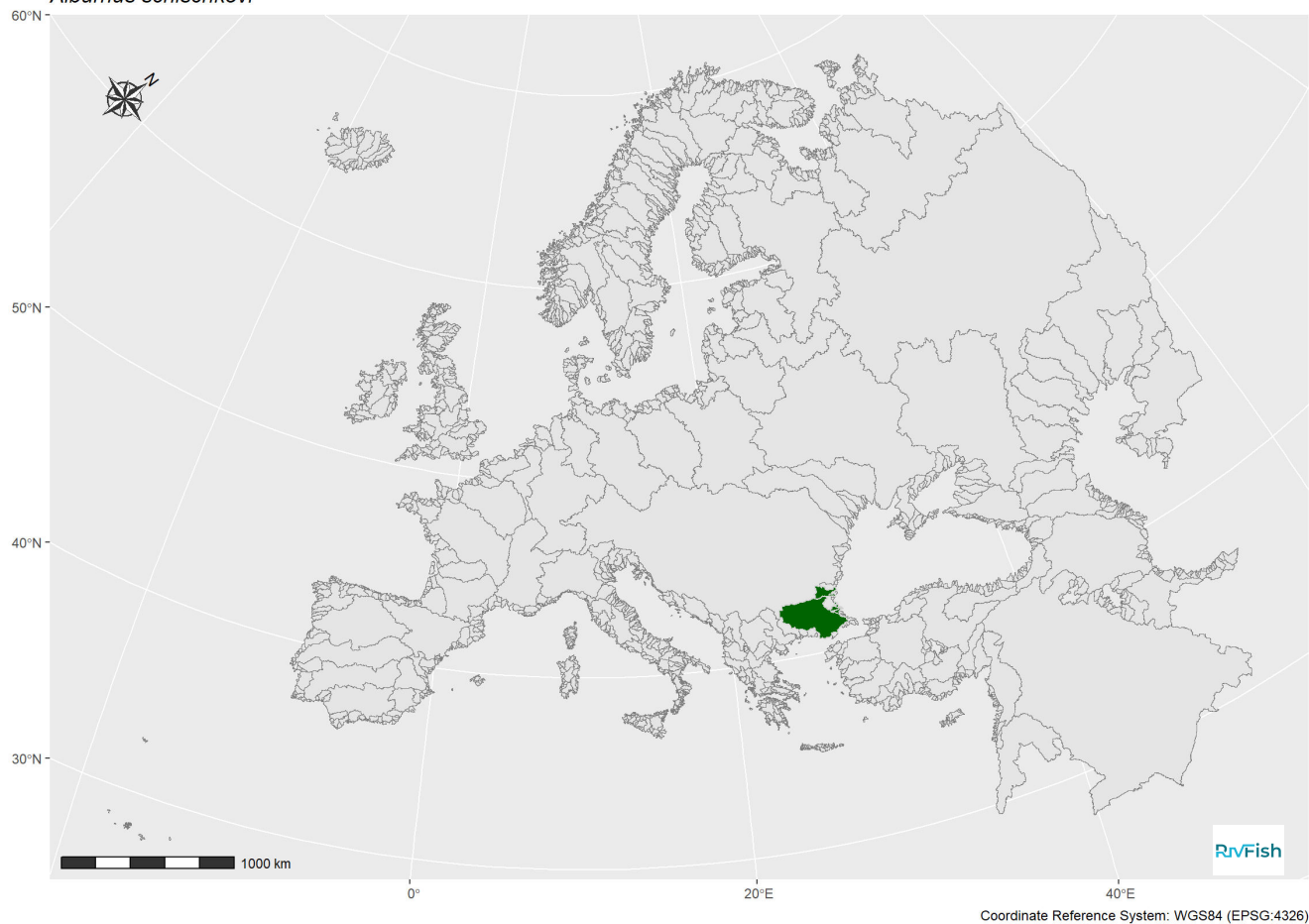
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Alburnus sava

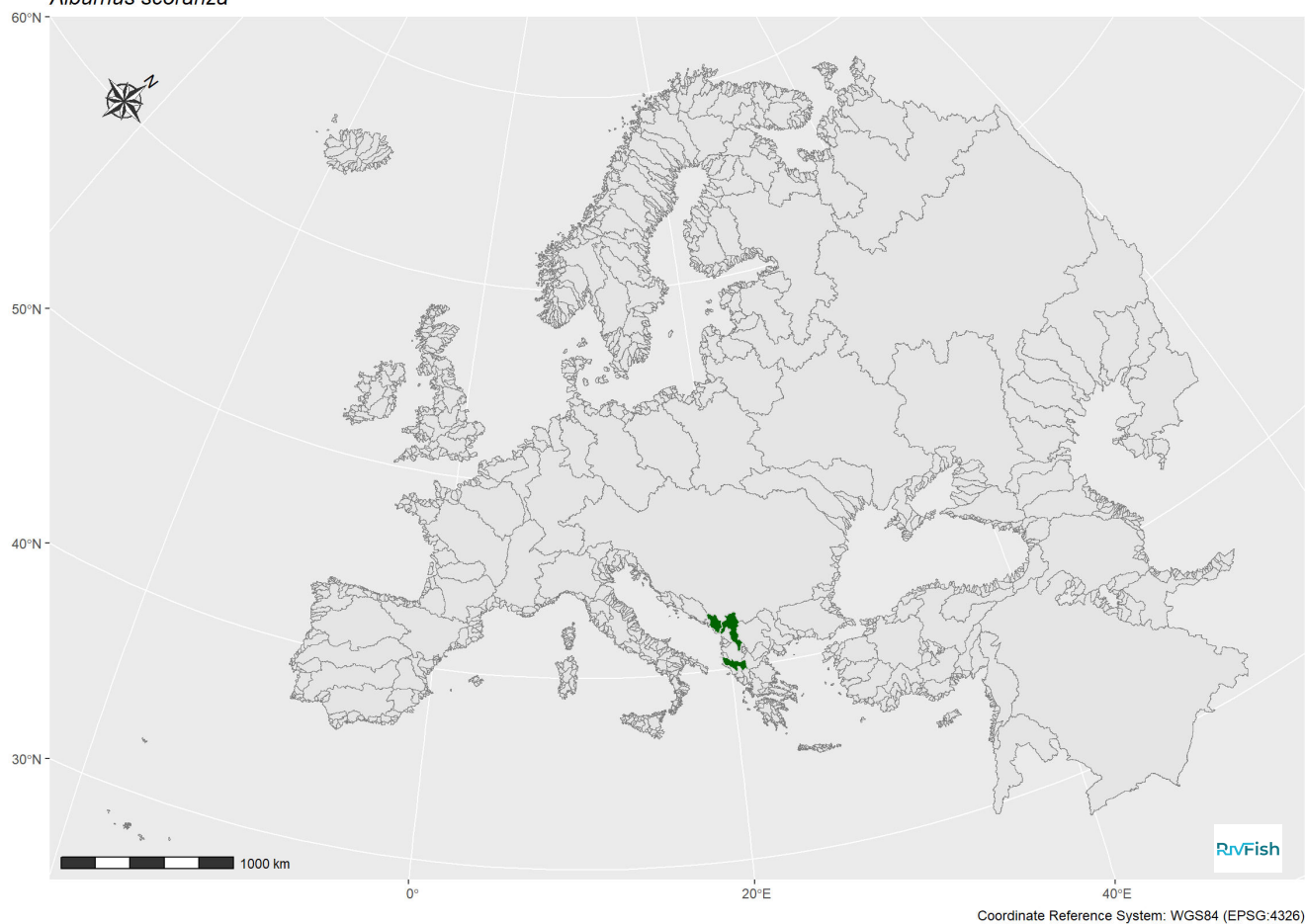


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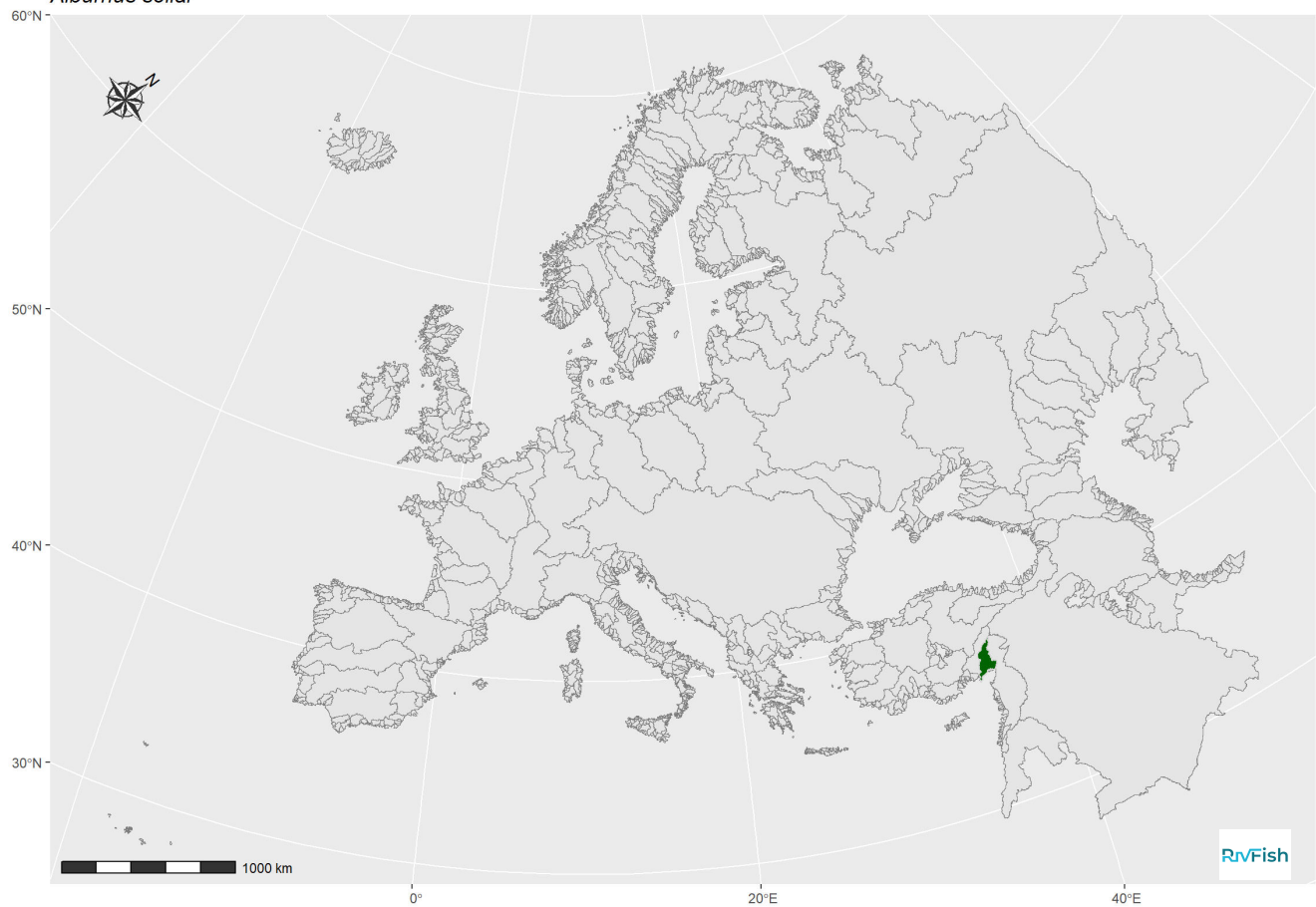
Alburnus schischkovi



Alburnus scoranza



Alburnus sellal



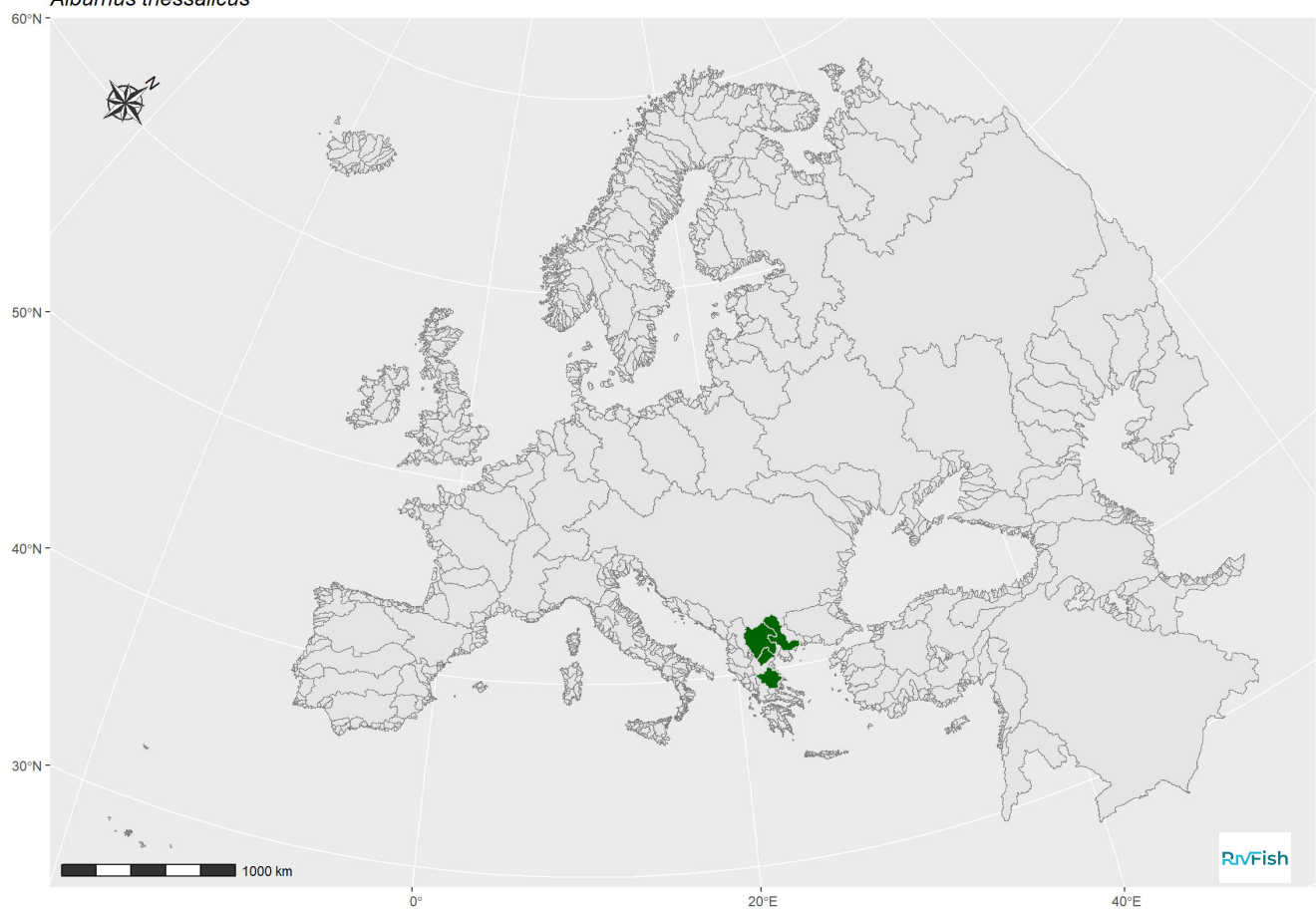
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Alburnus tarichi



Coordinate Reference System: WGS84 (EPSG:4326)

Alburnus thessalicus



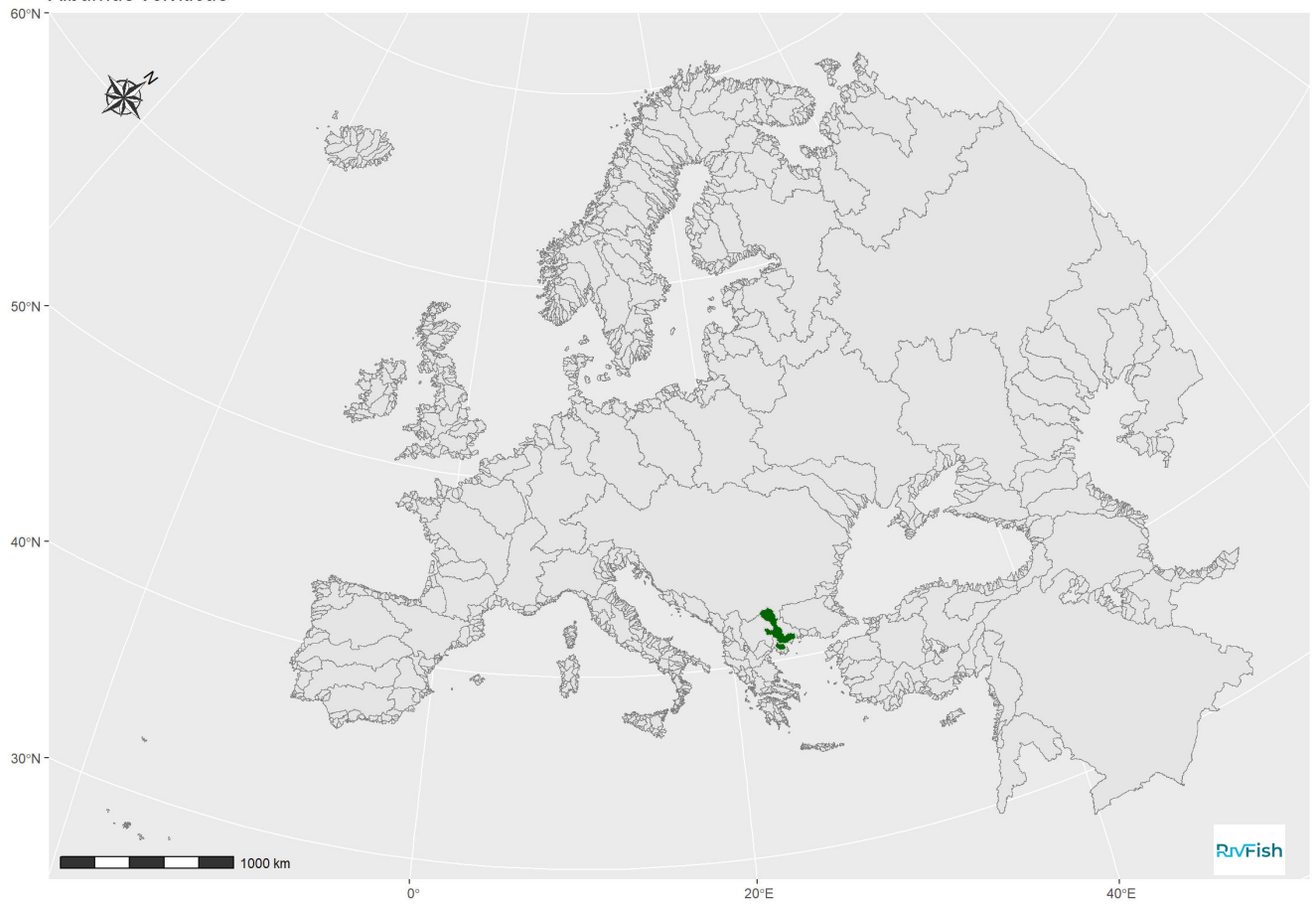
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Alburnus vistonicus



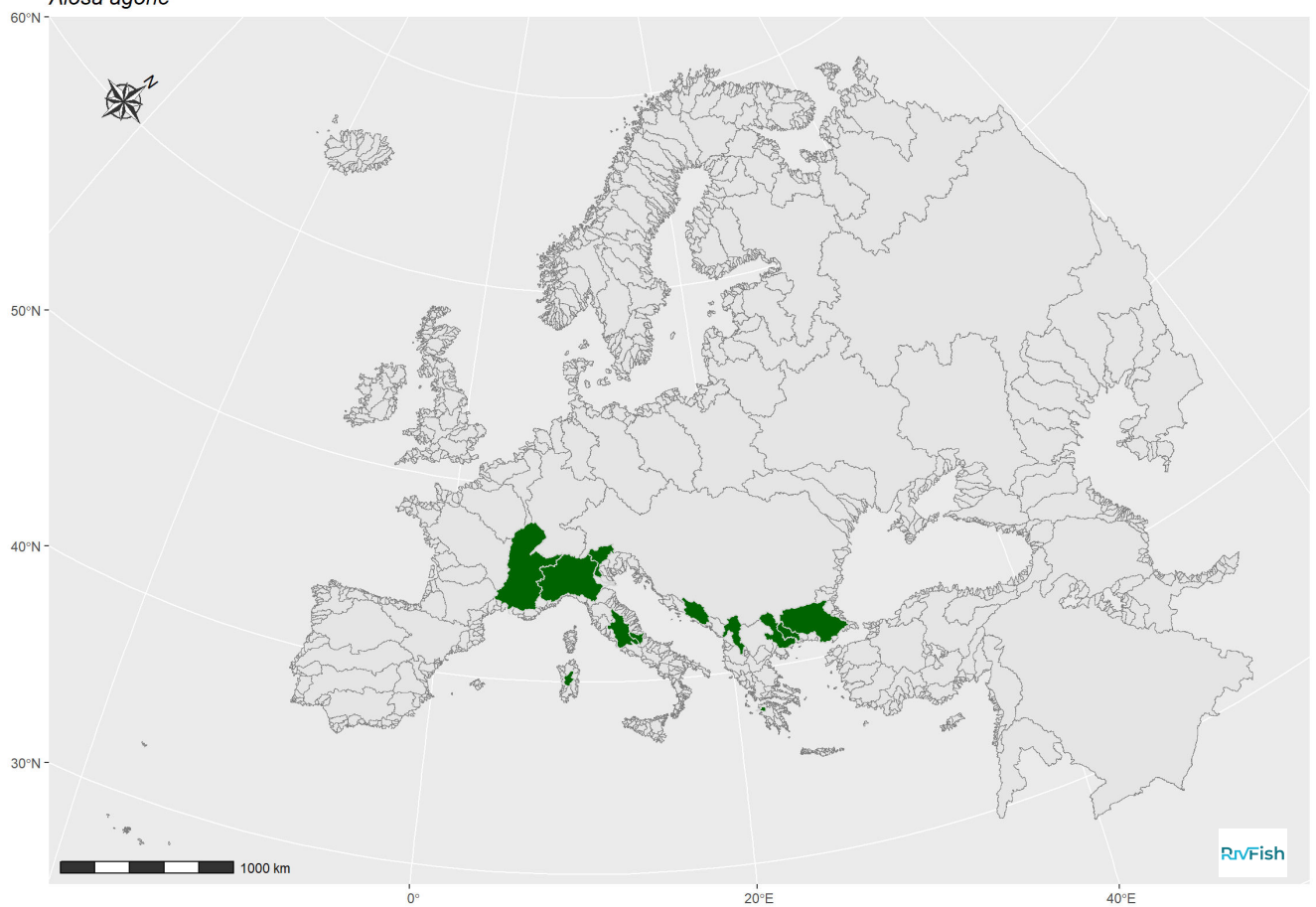
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Alburnus volticus

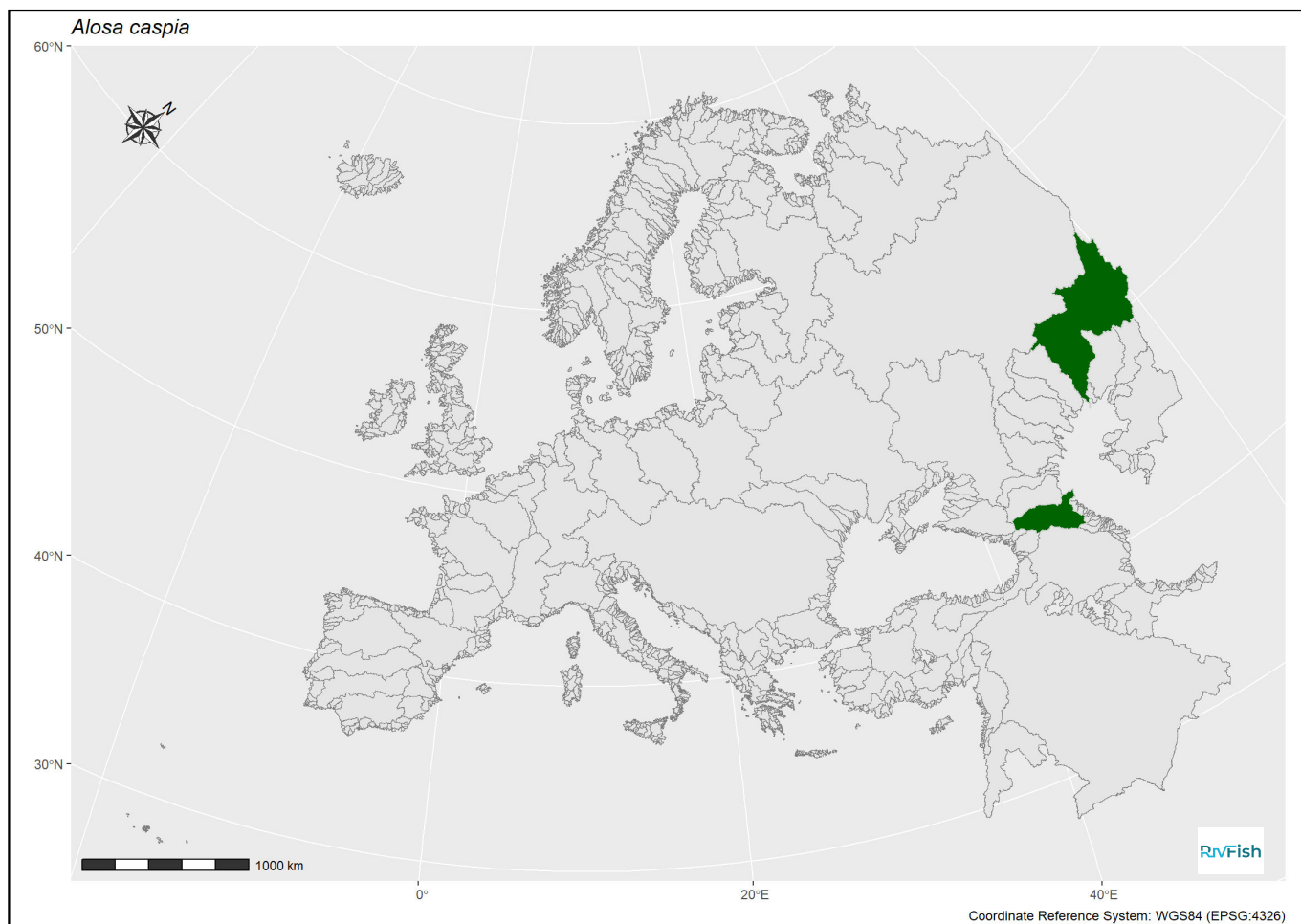
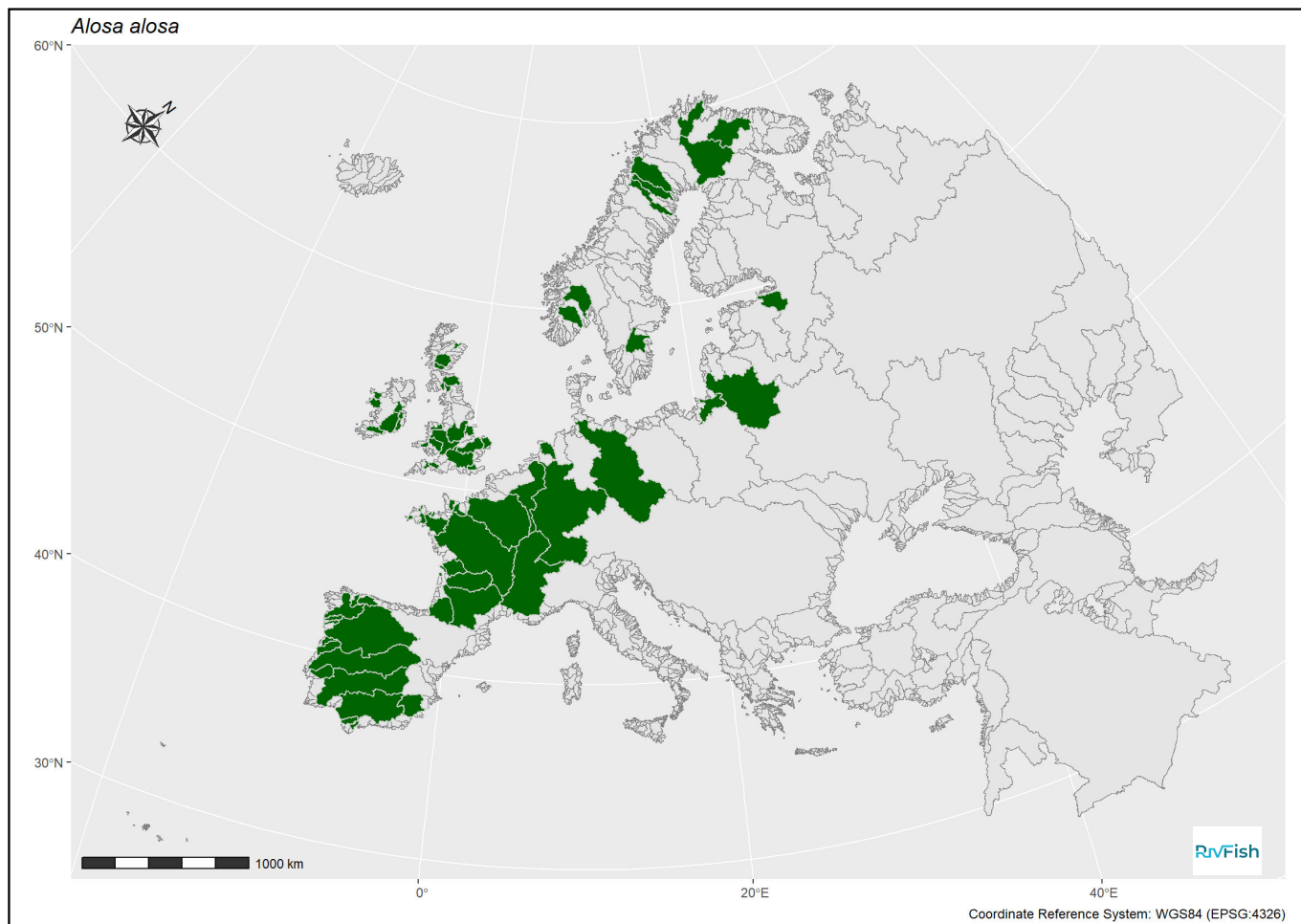


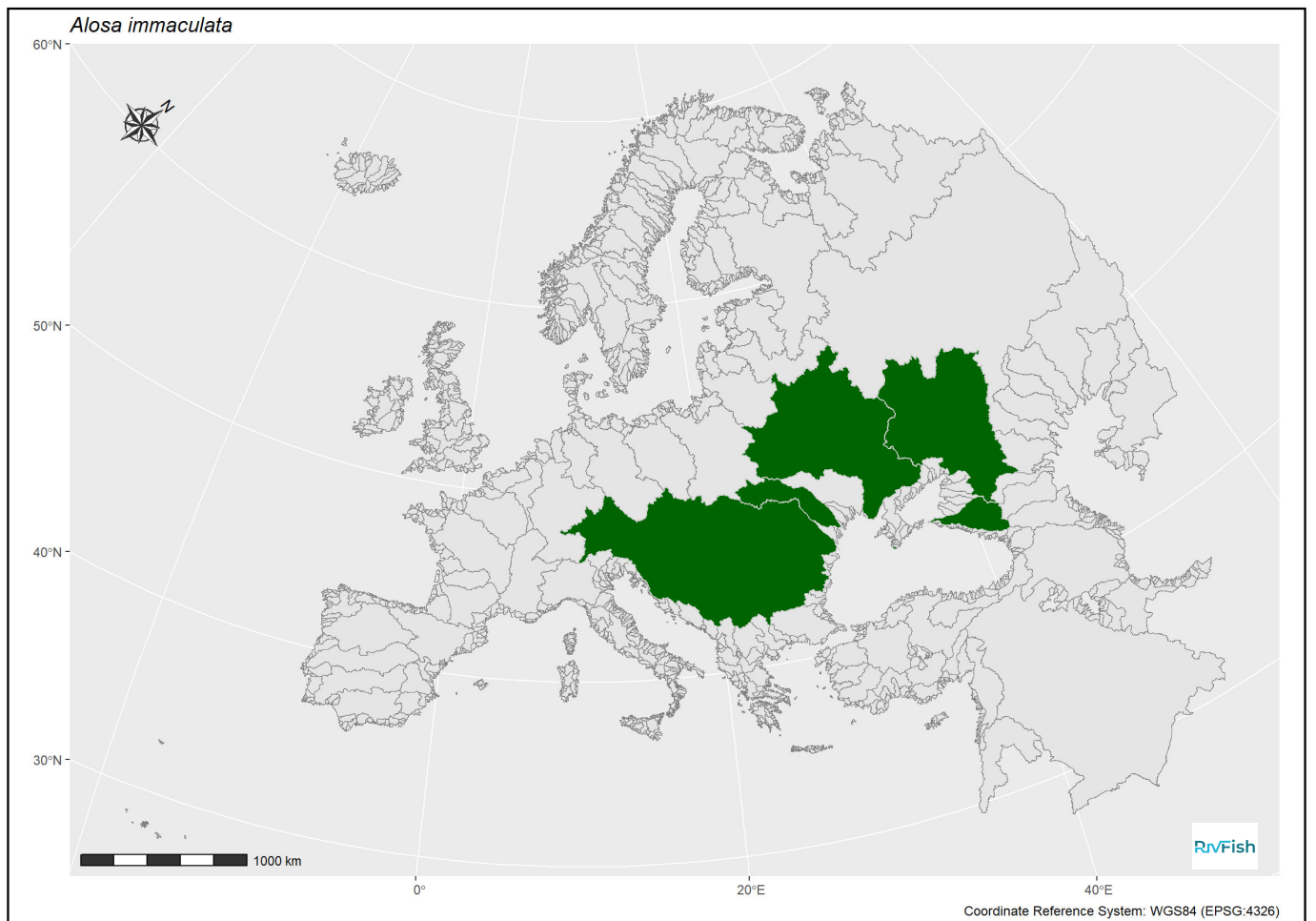
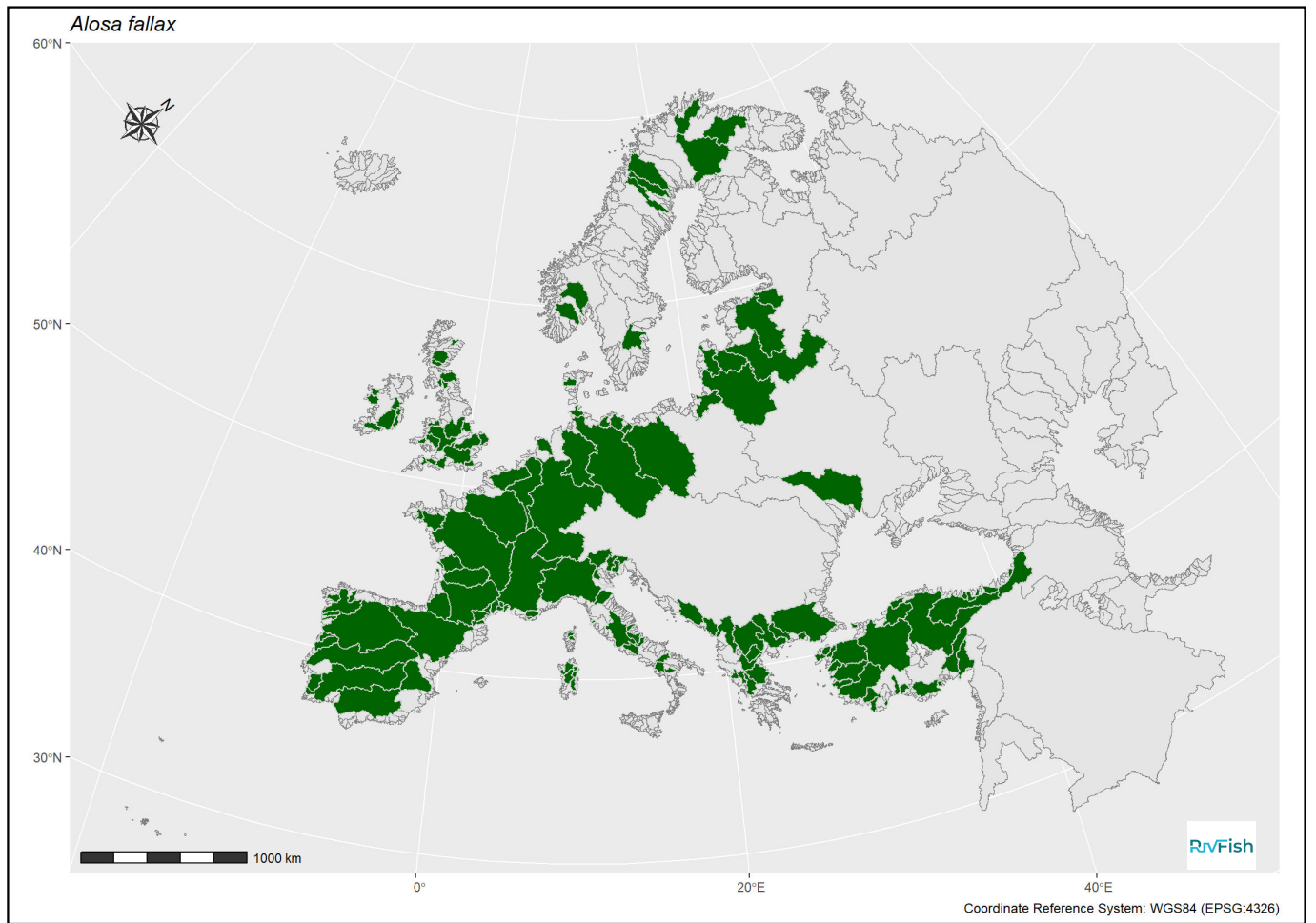
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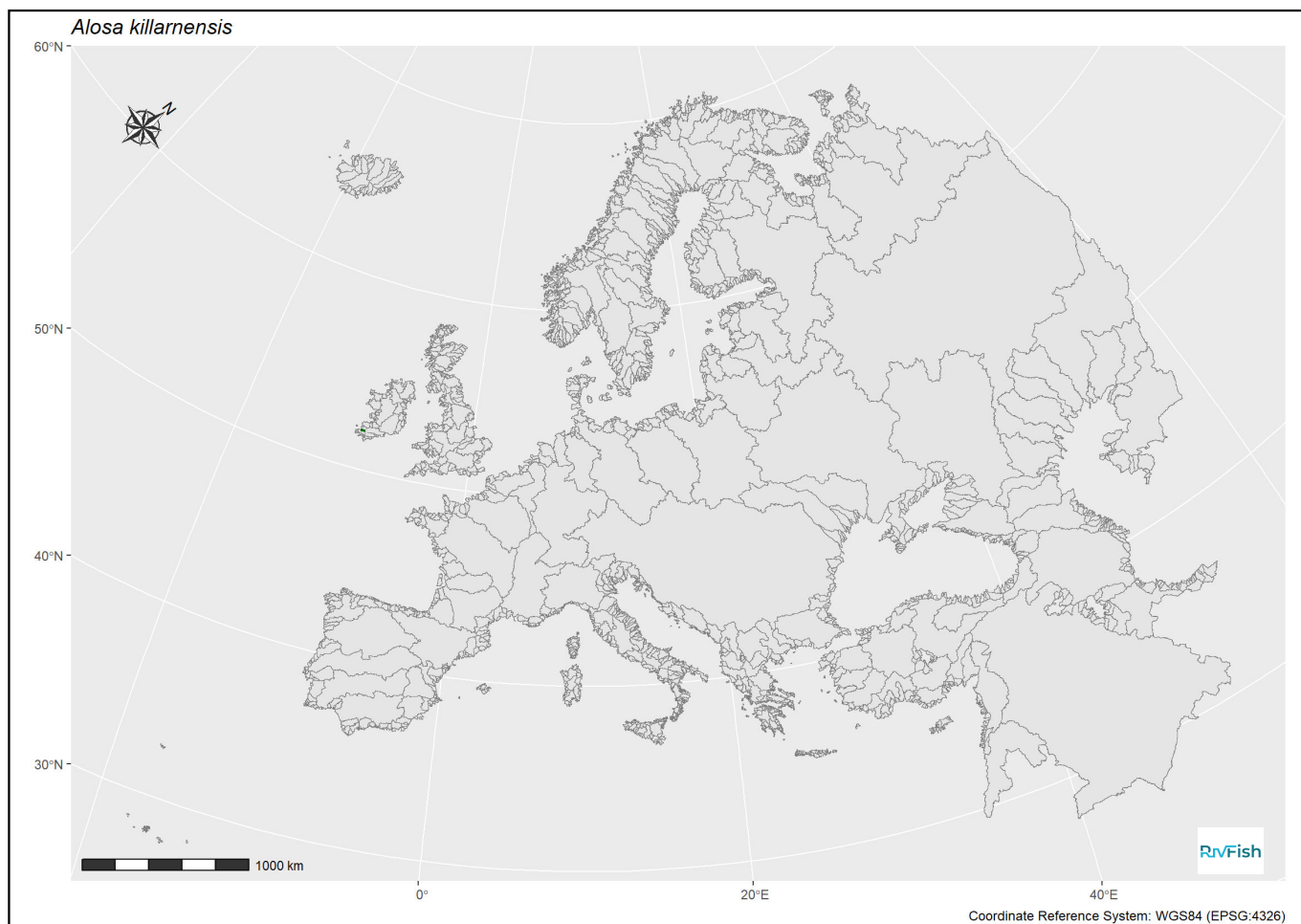
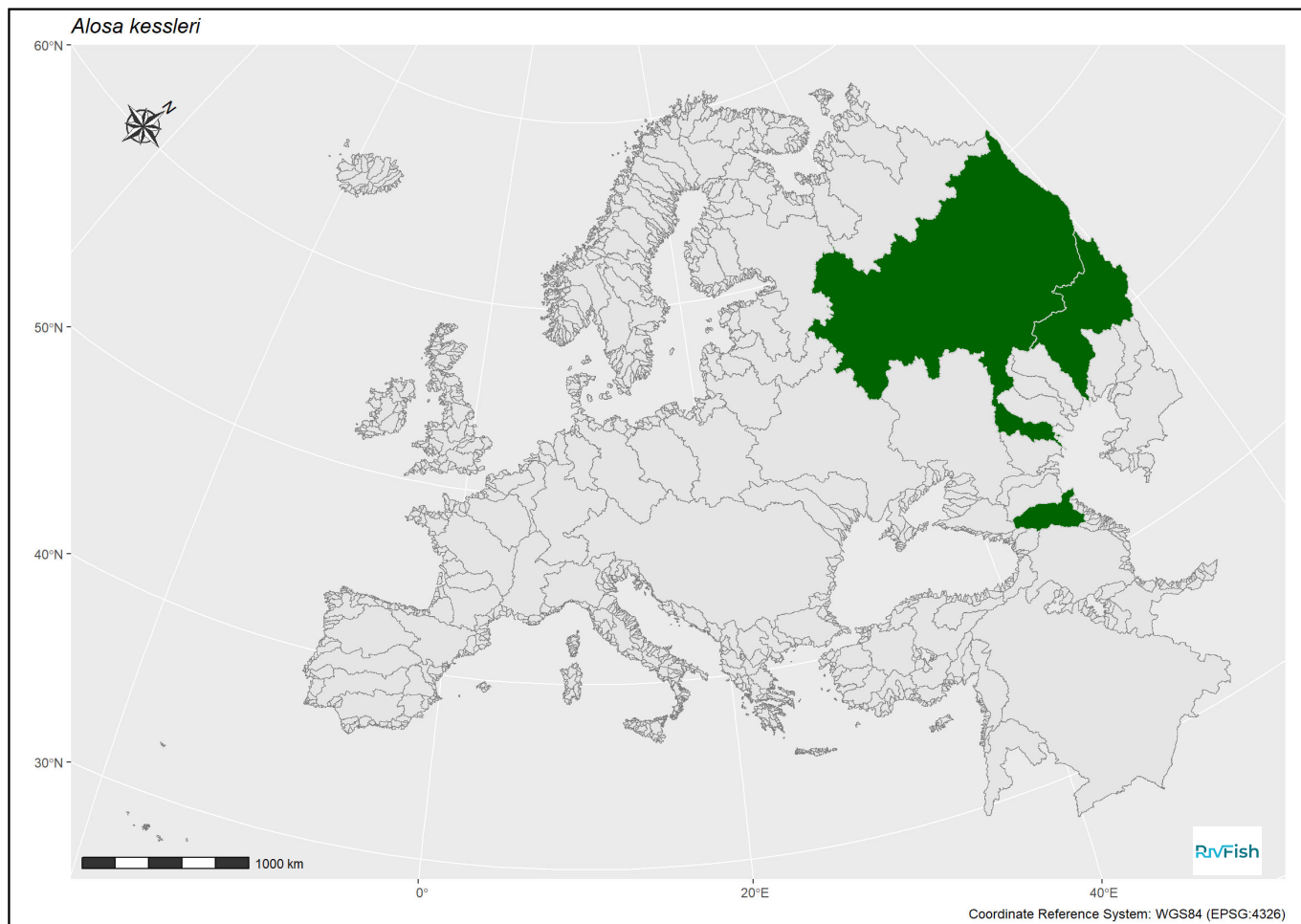
Alosa agone

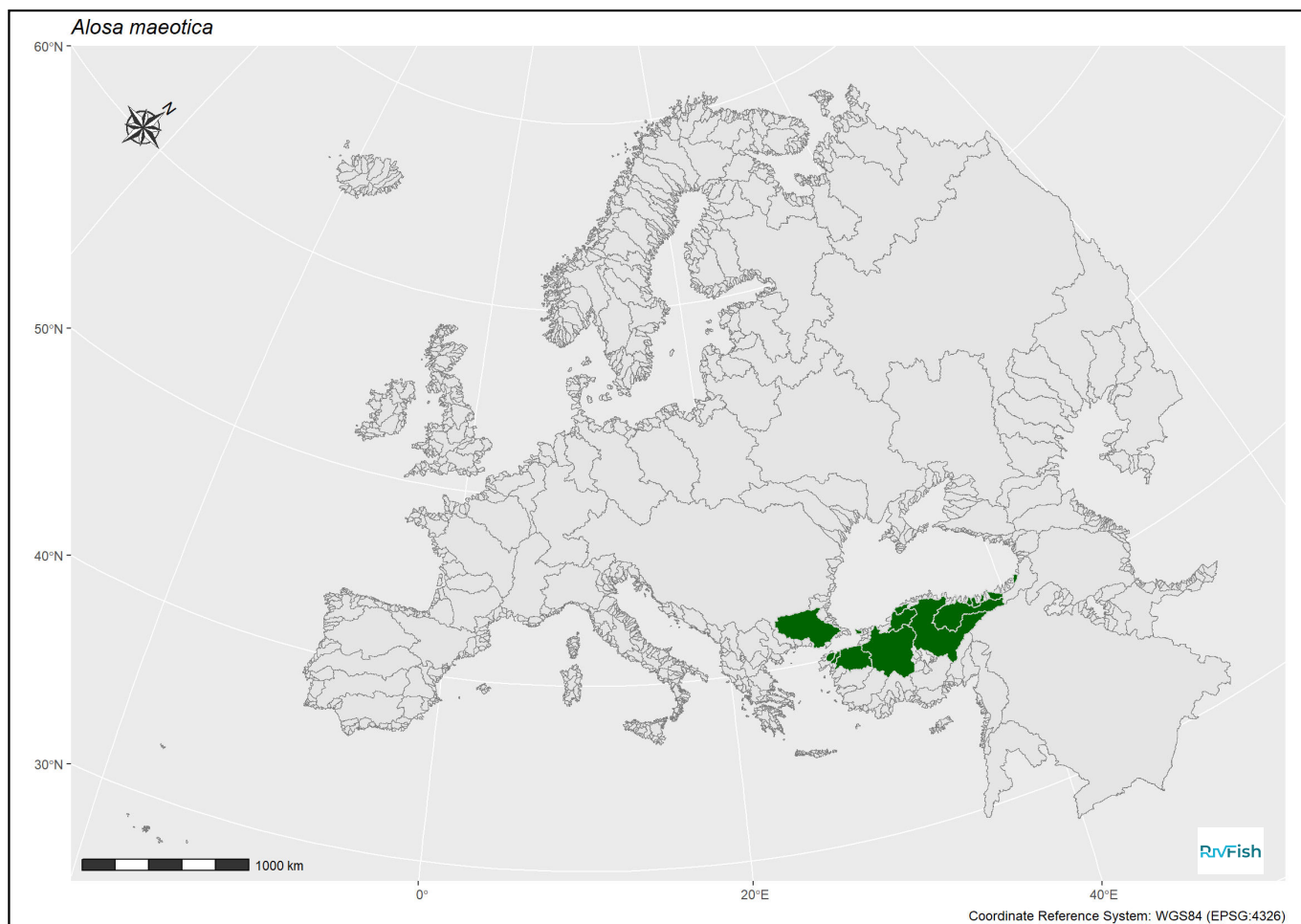
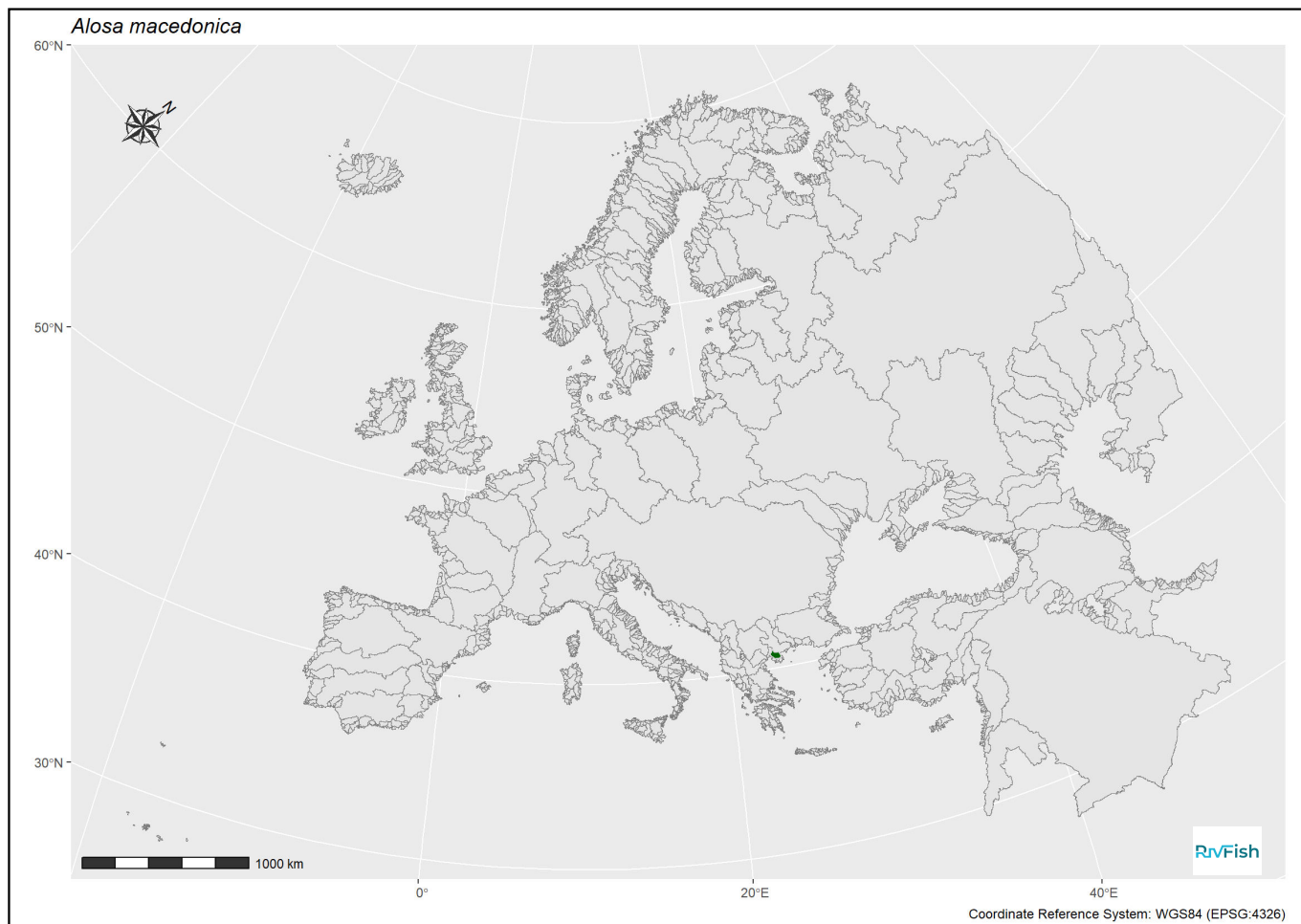


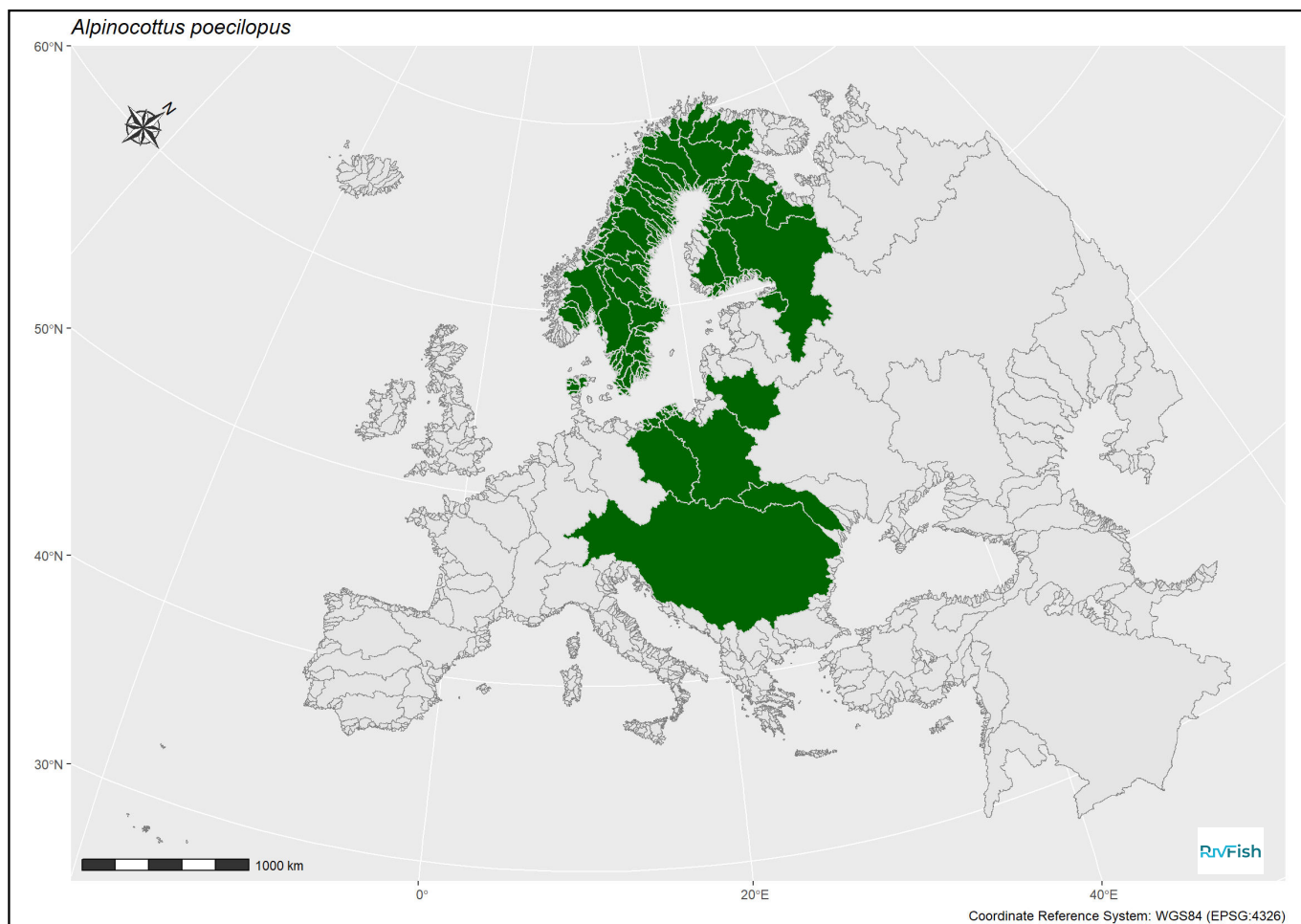
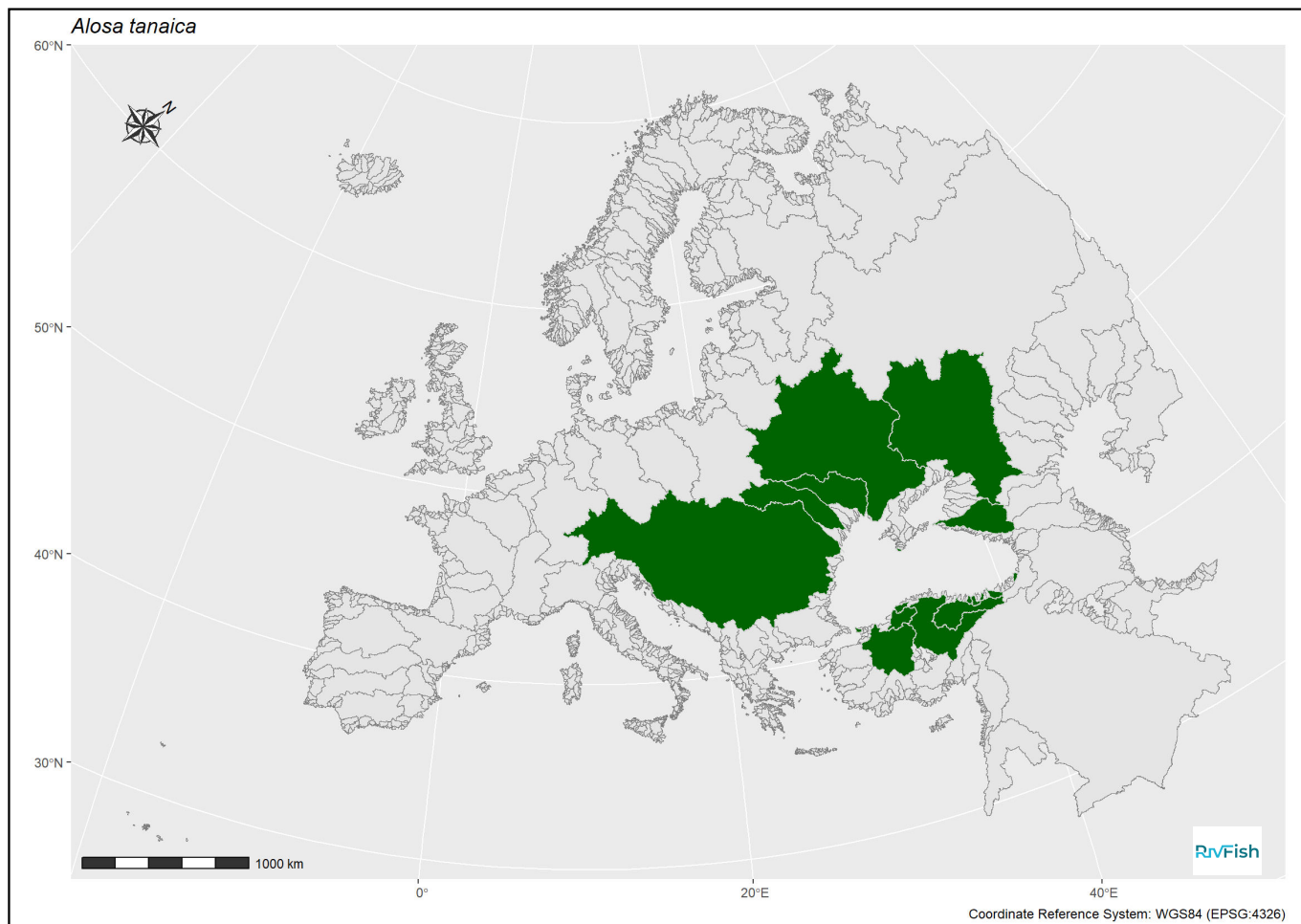
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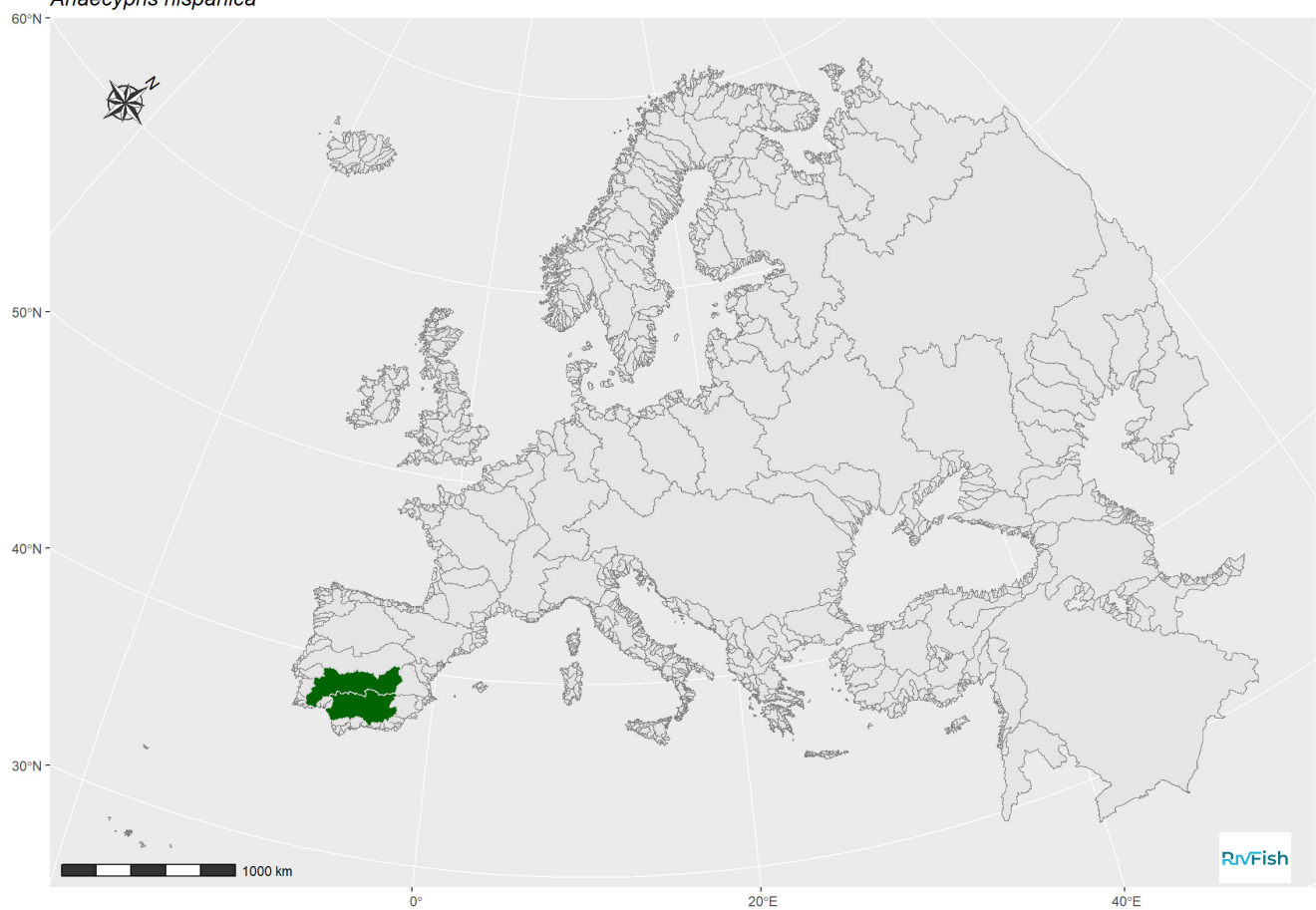






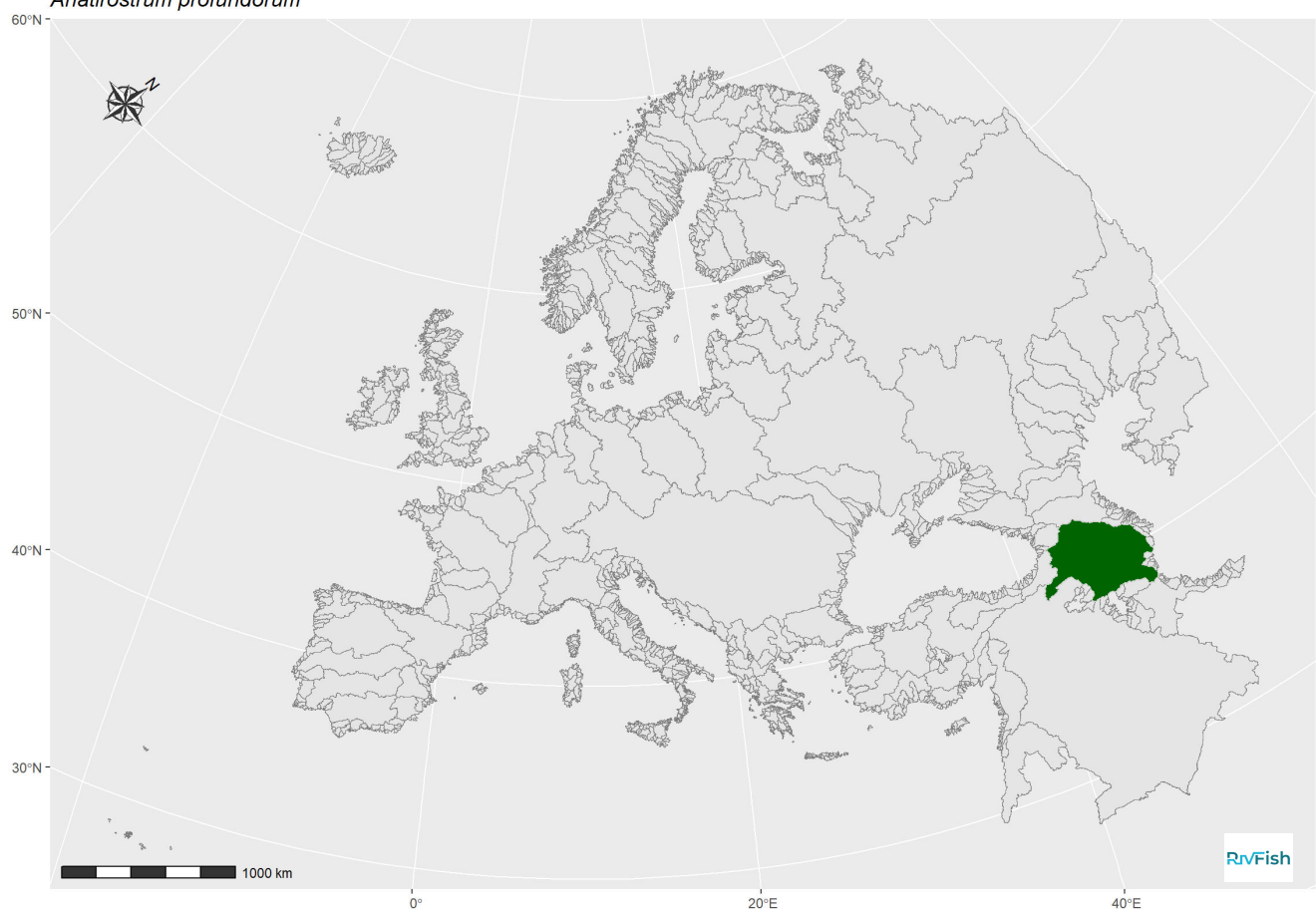


Anaocypris hispanica



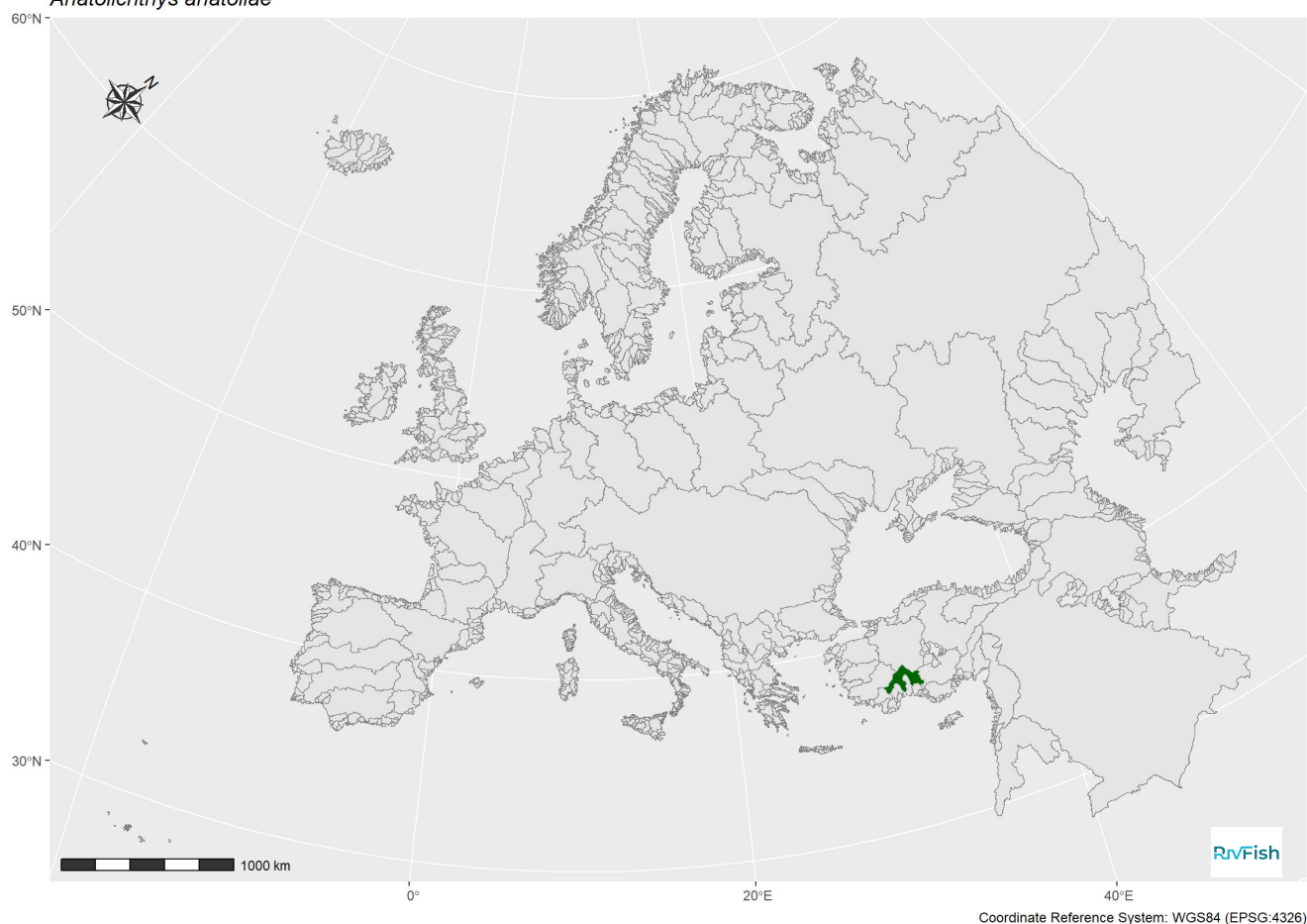
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Anatirostrum profundum

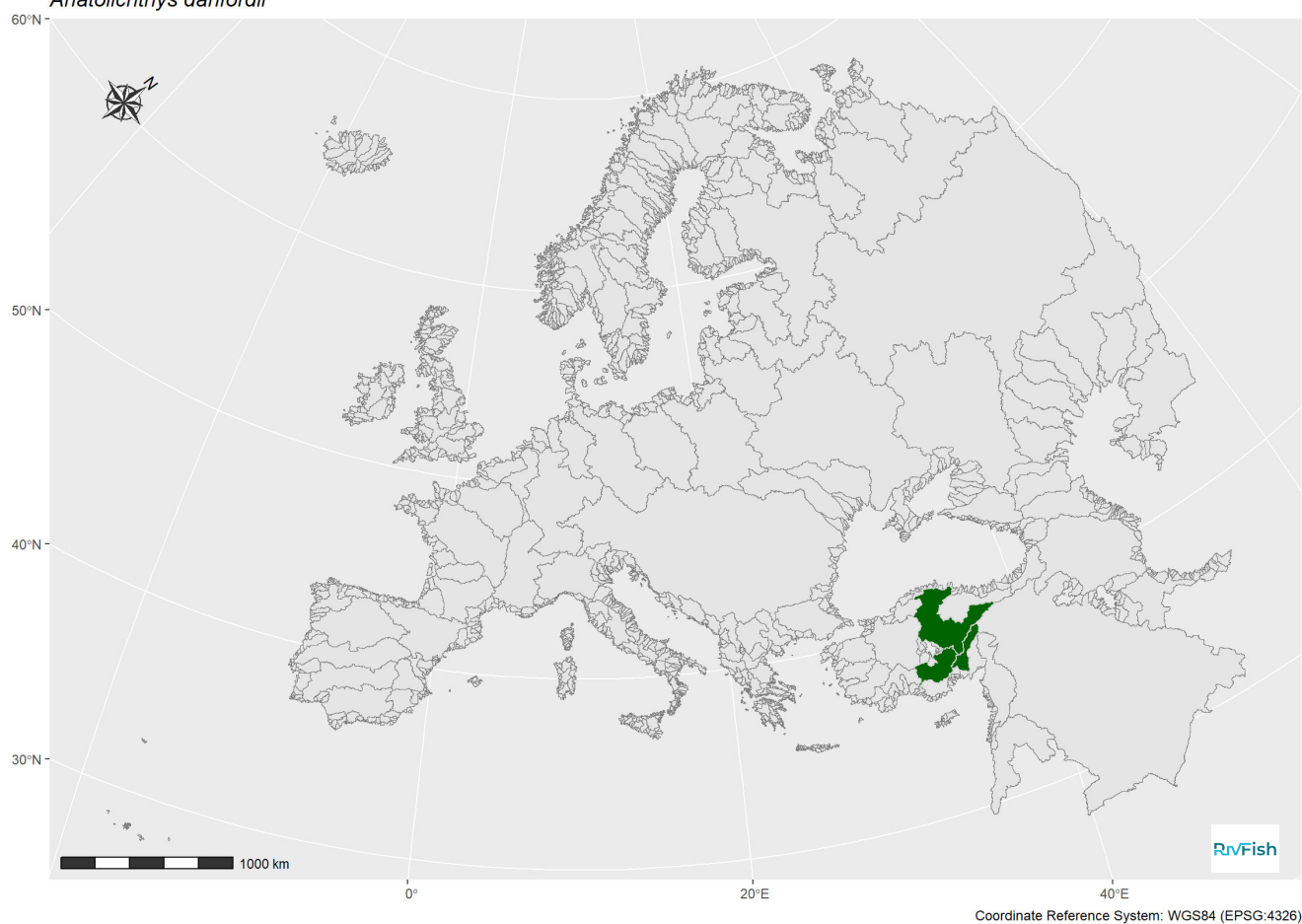


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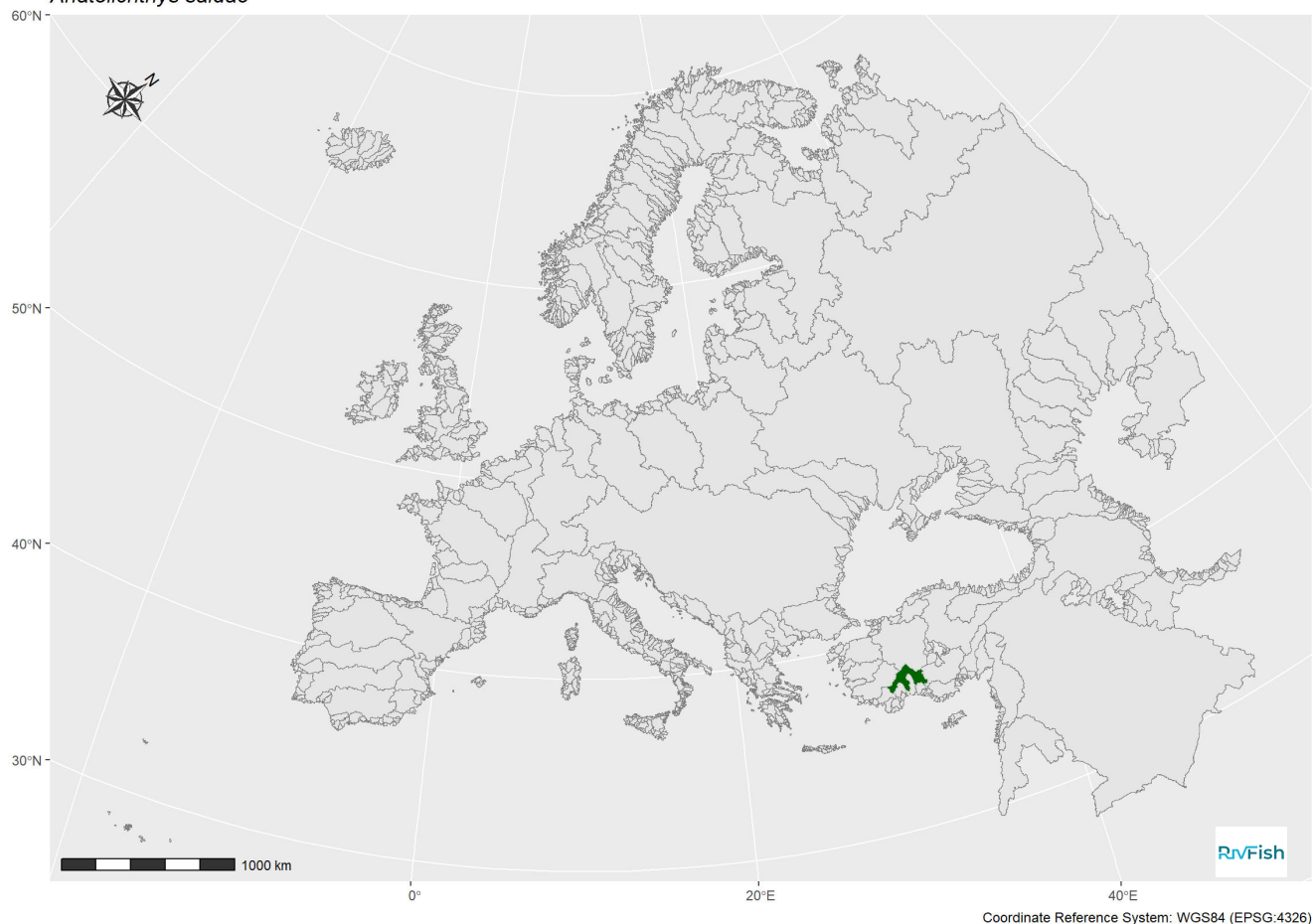
Anatolichthys anatoliae



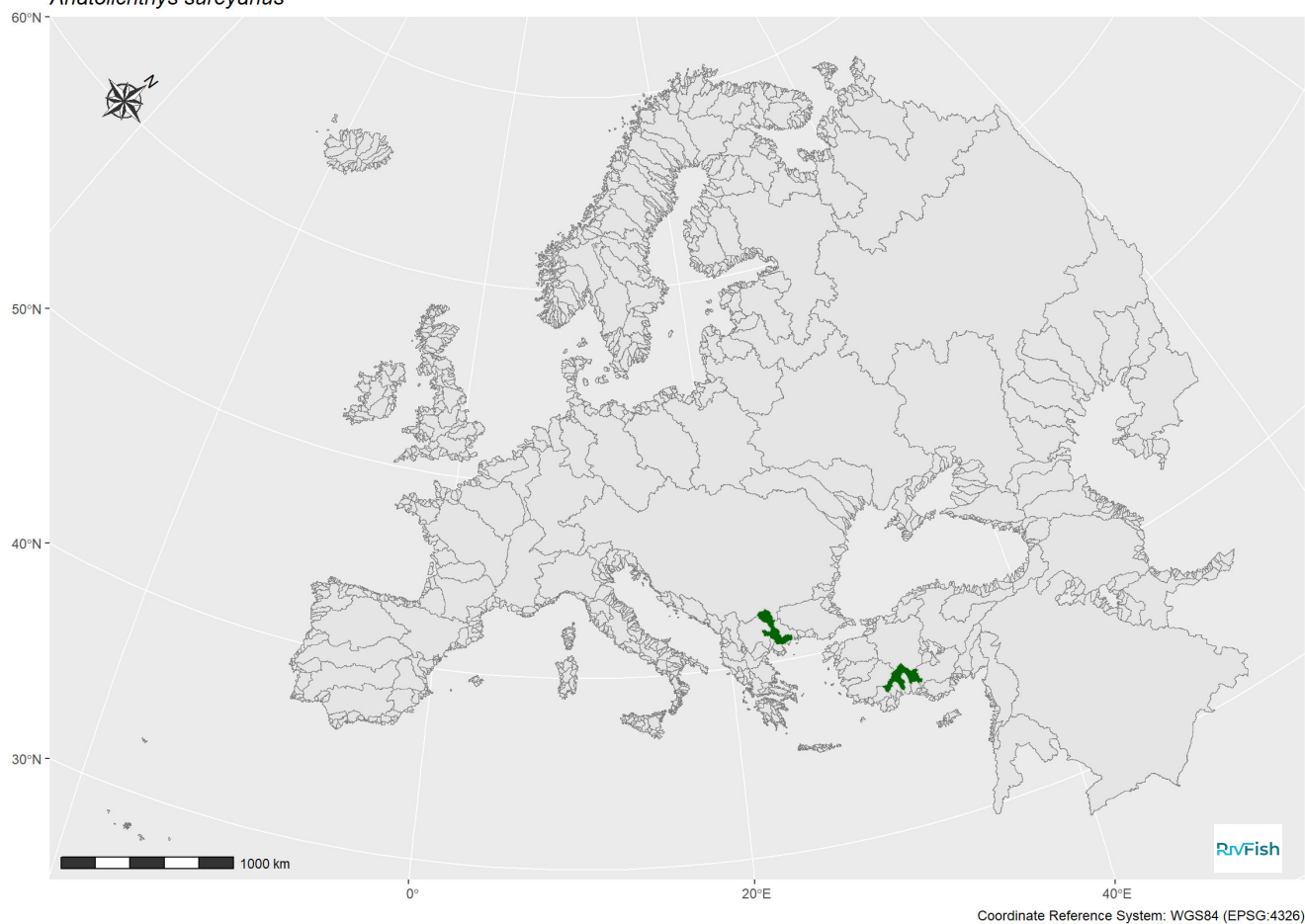
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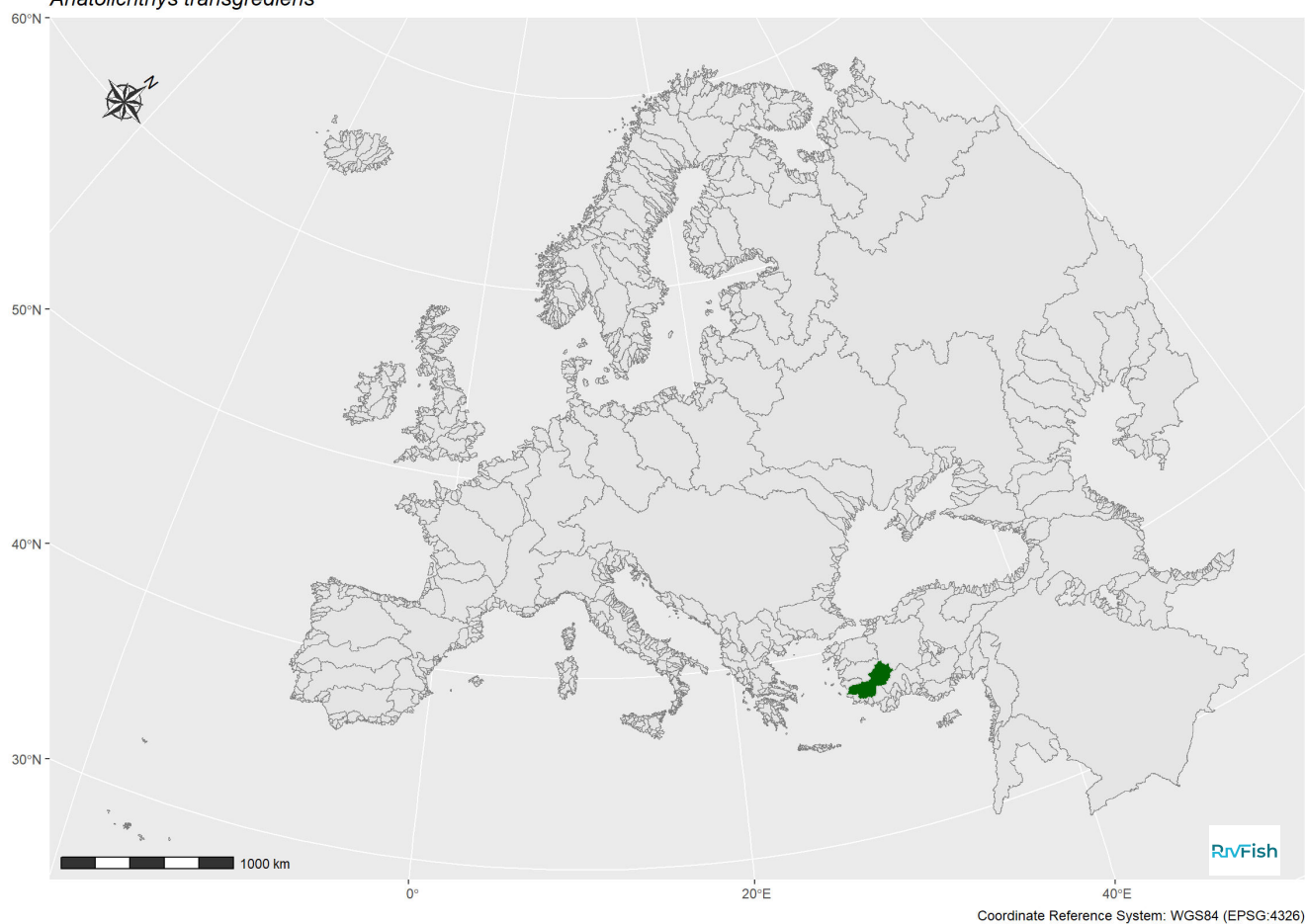
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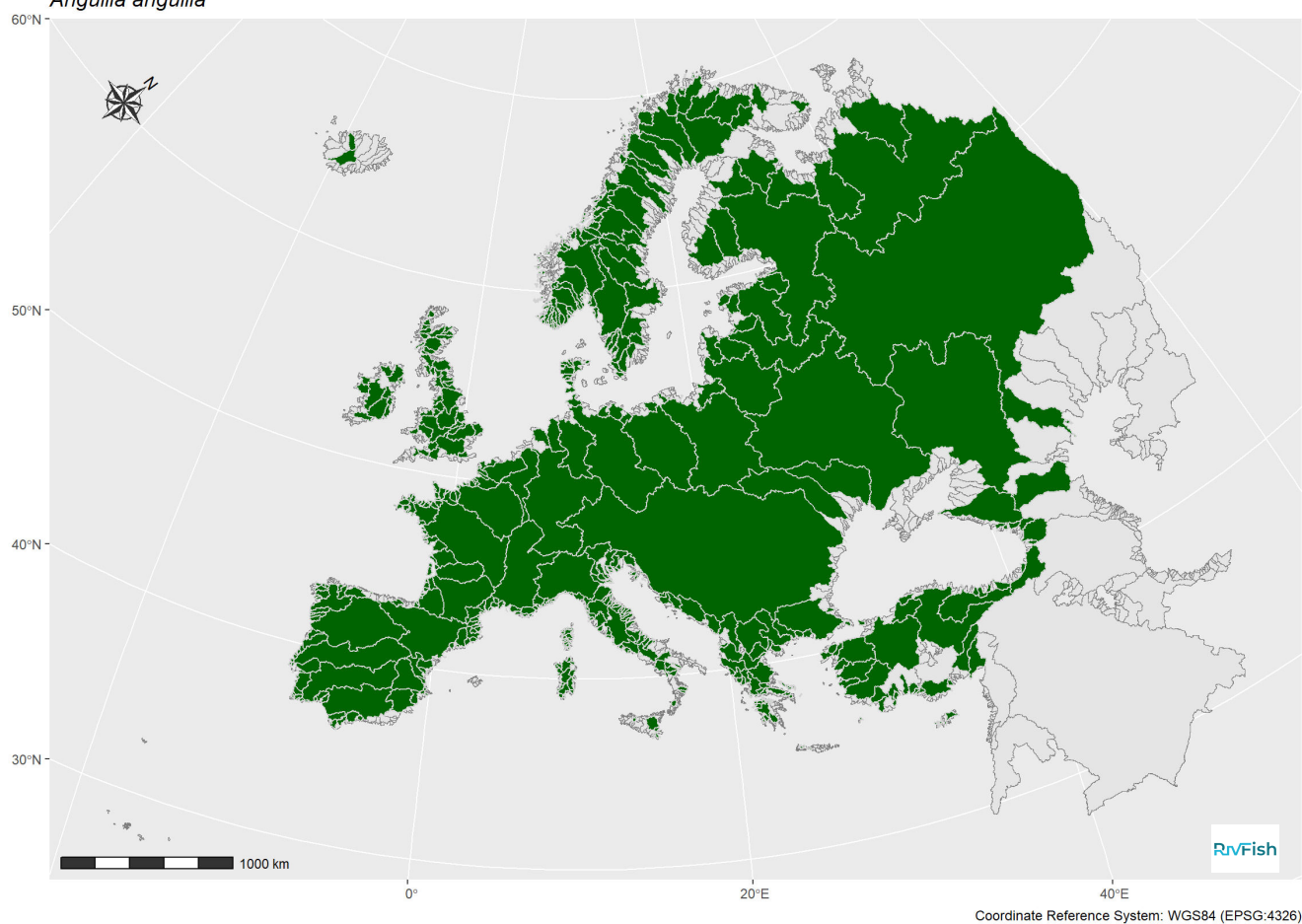
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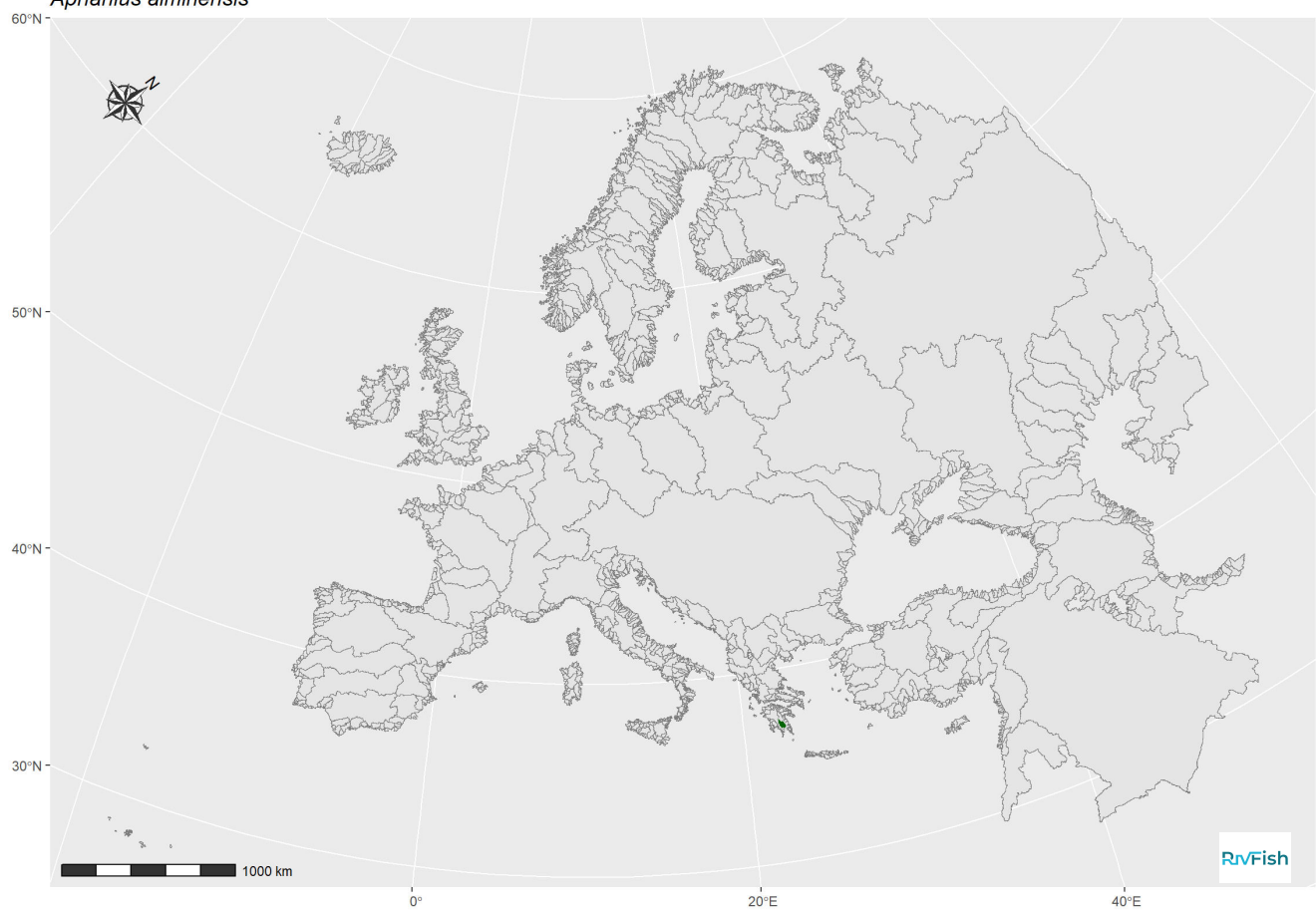
Anatolichthys transgrediens



Anguilla anguilla



Aphanius almirensis



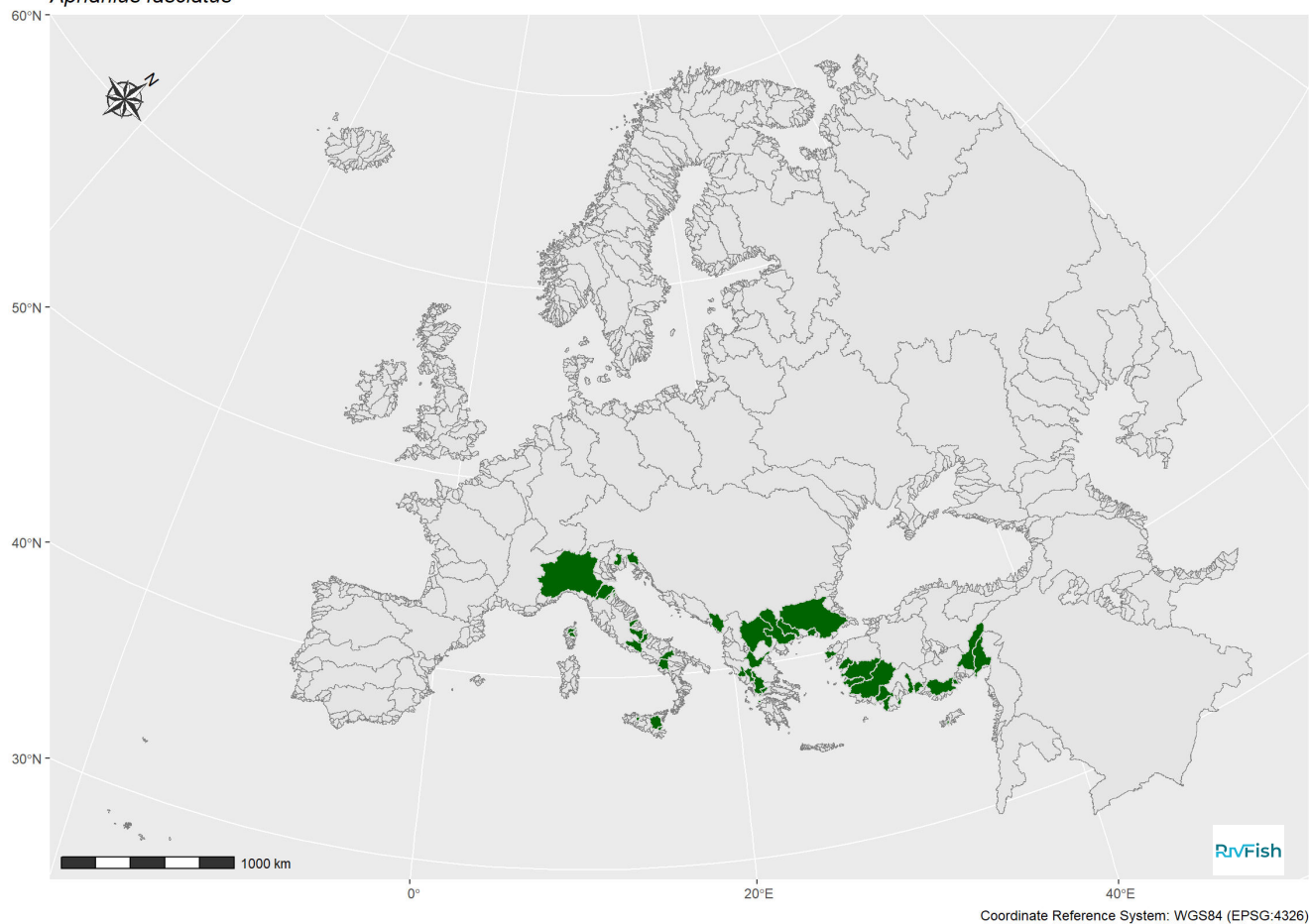
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Aphanius chantrei

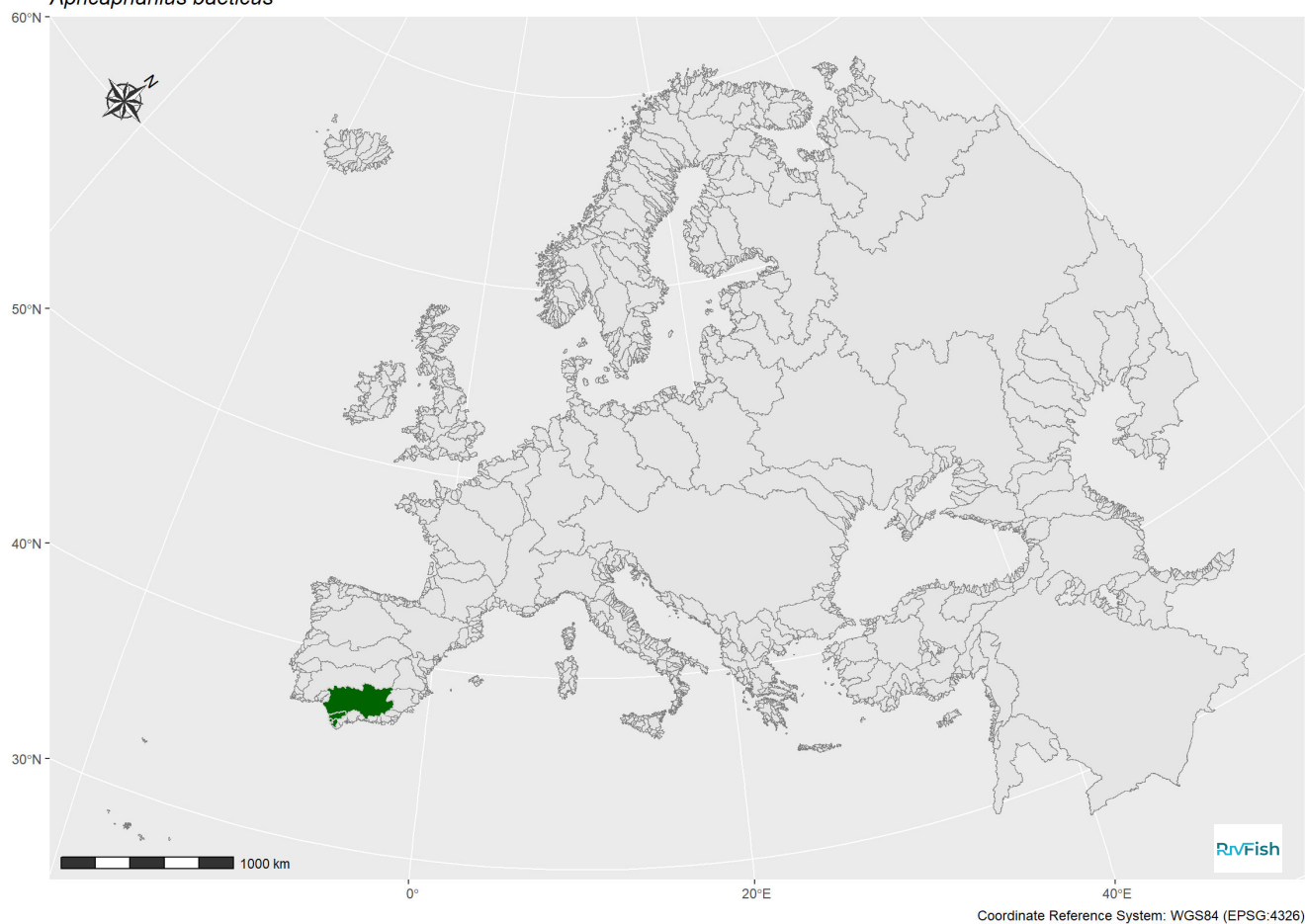


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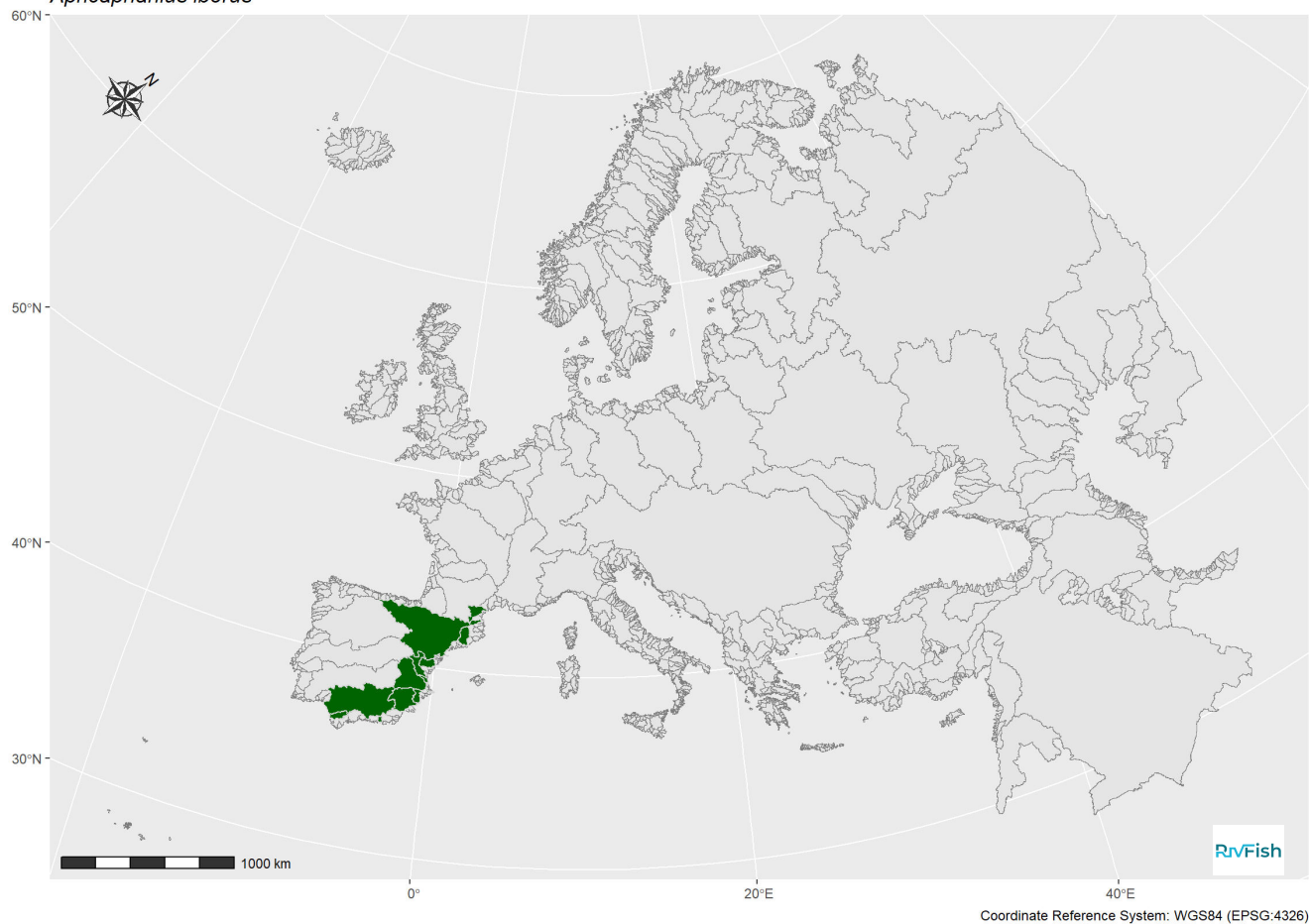
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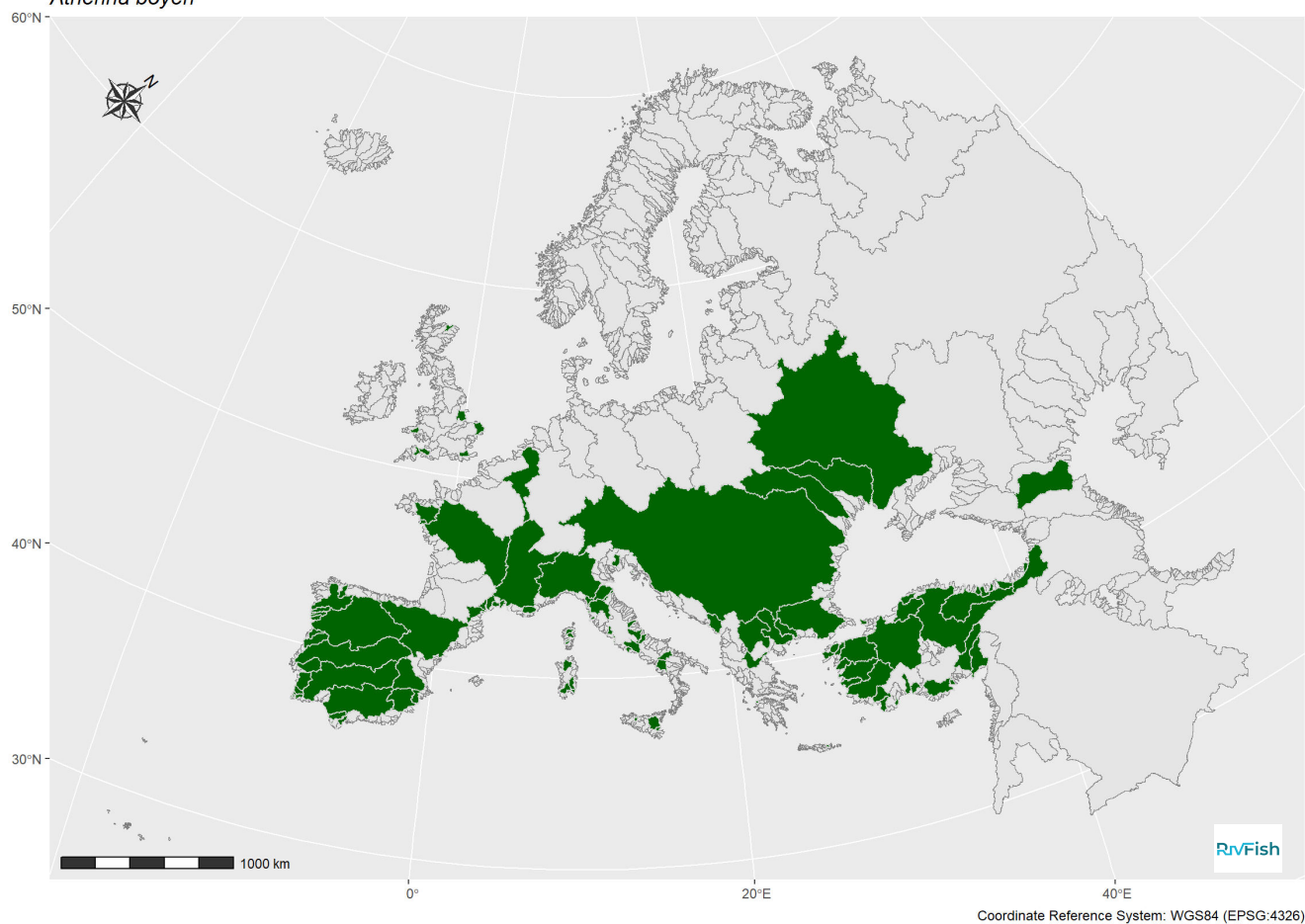
Apricaphanius baeticus

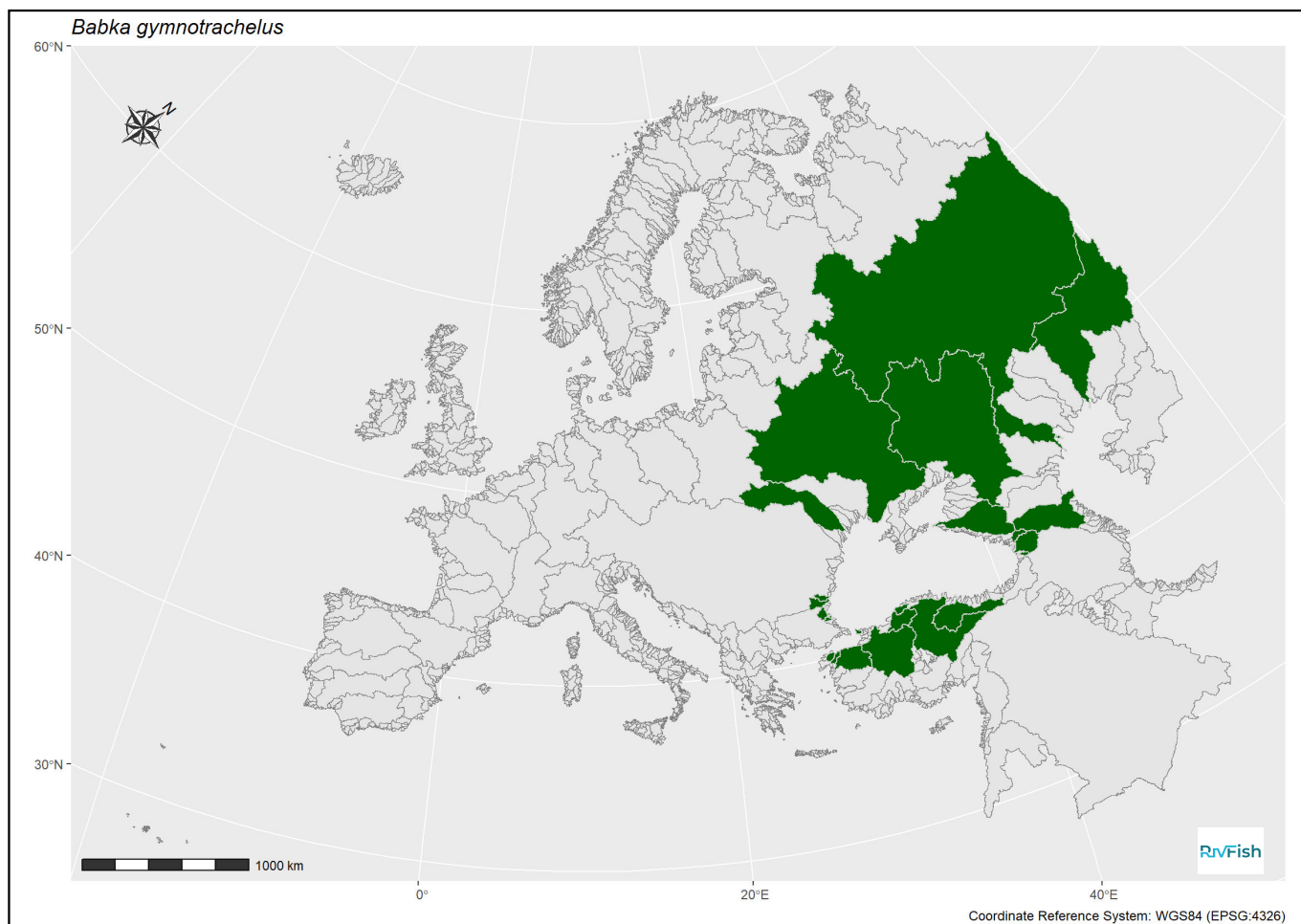
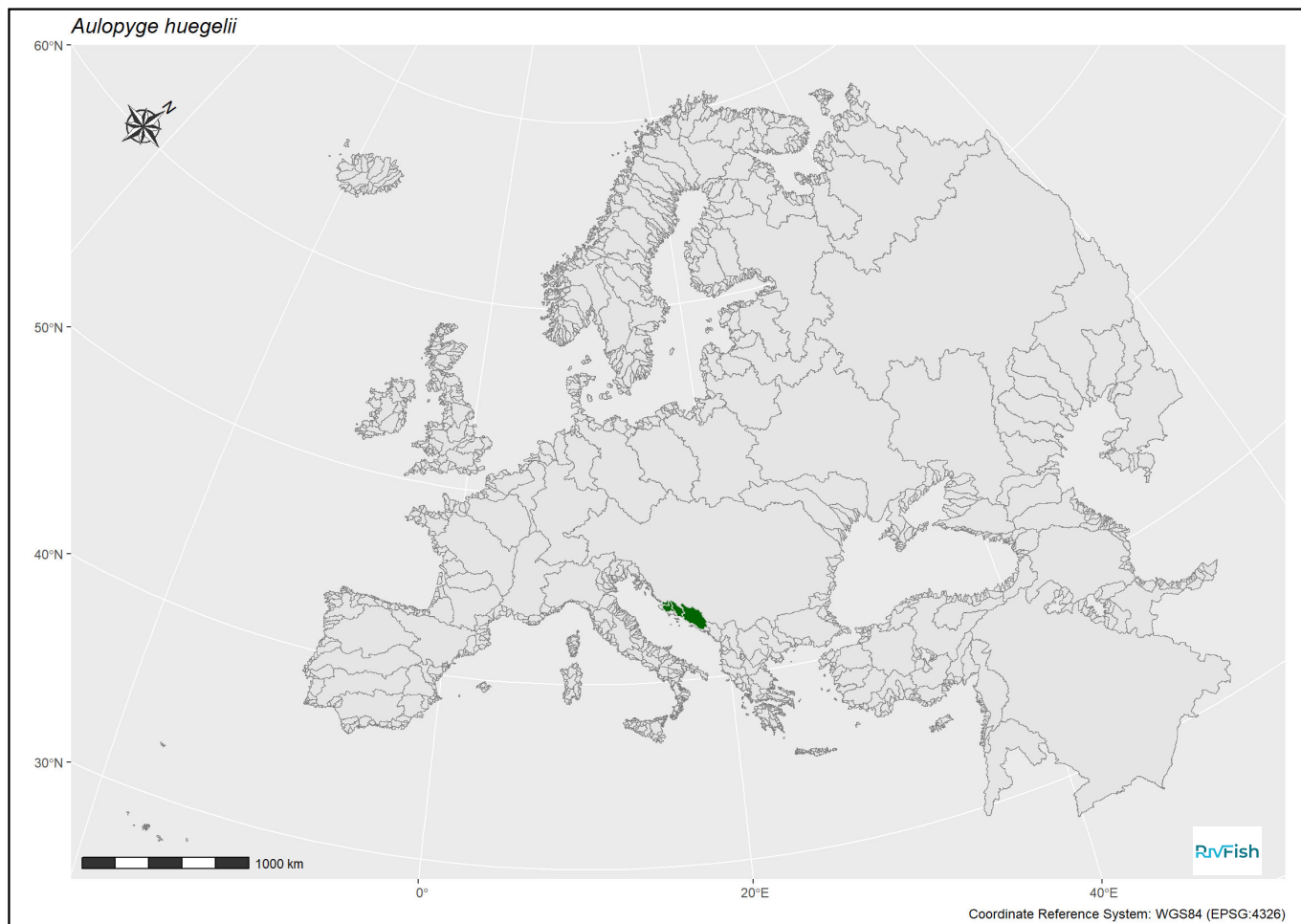


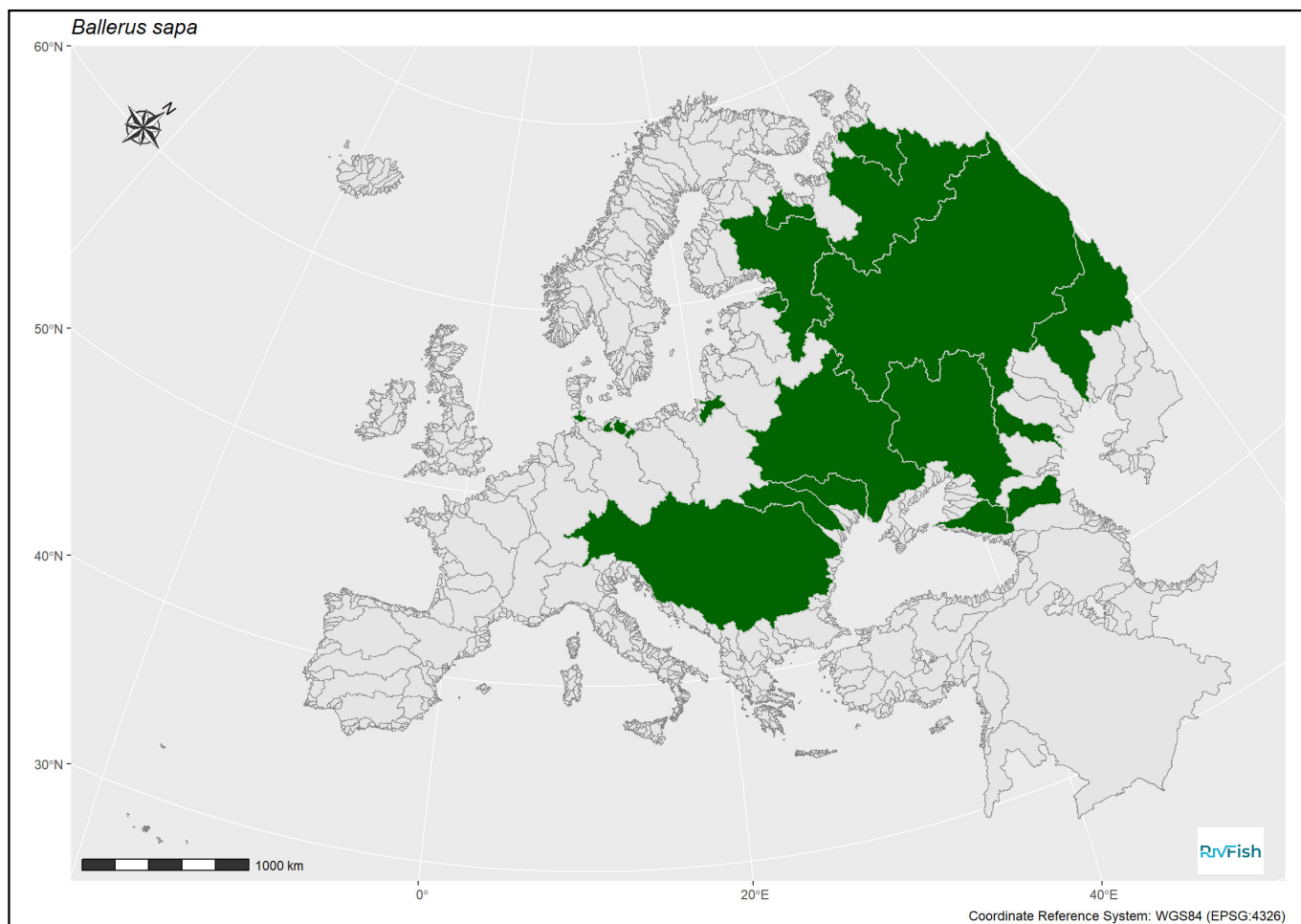
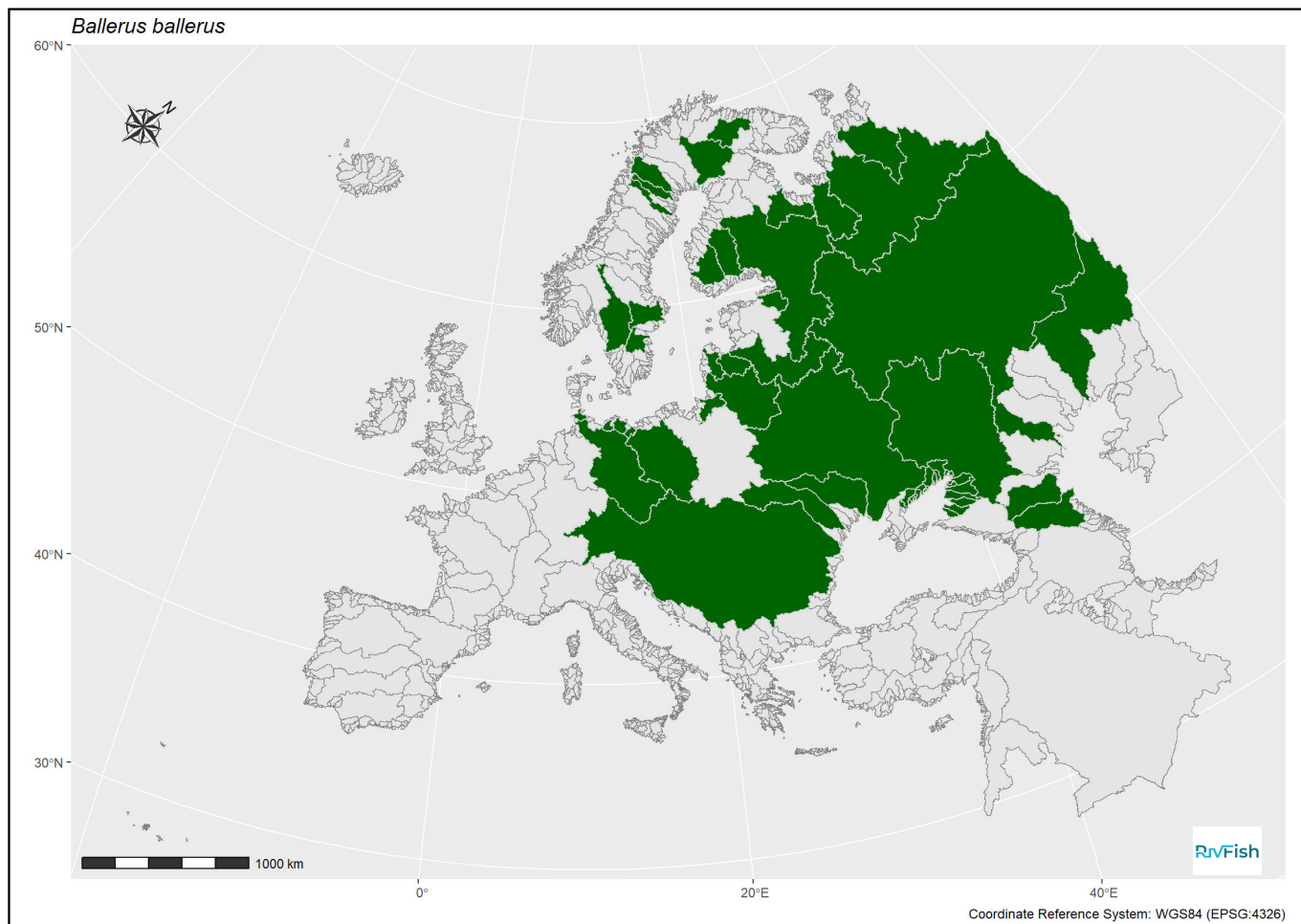
Apricaphanius iberus



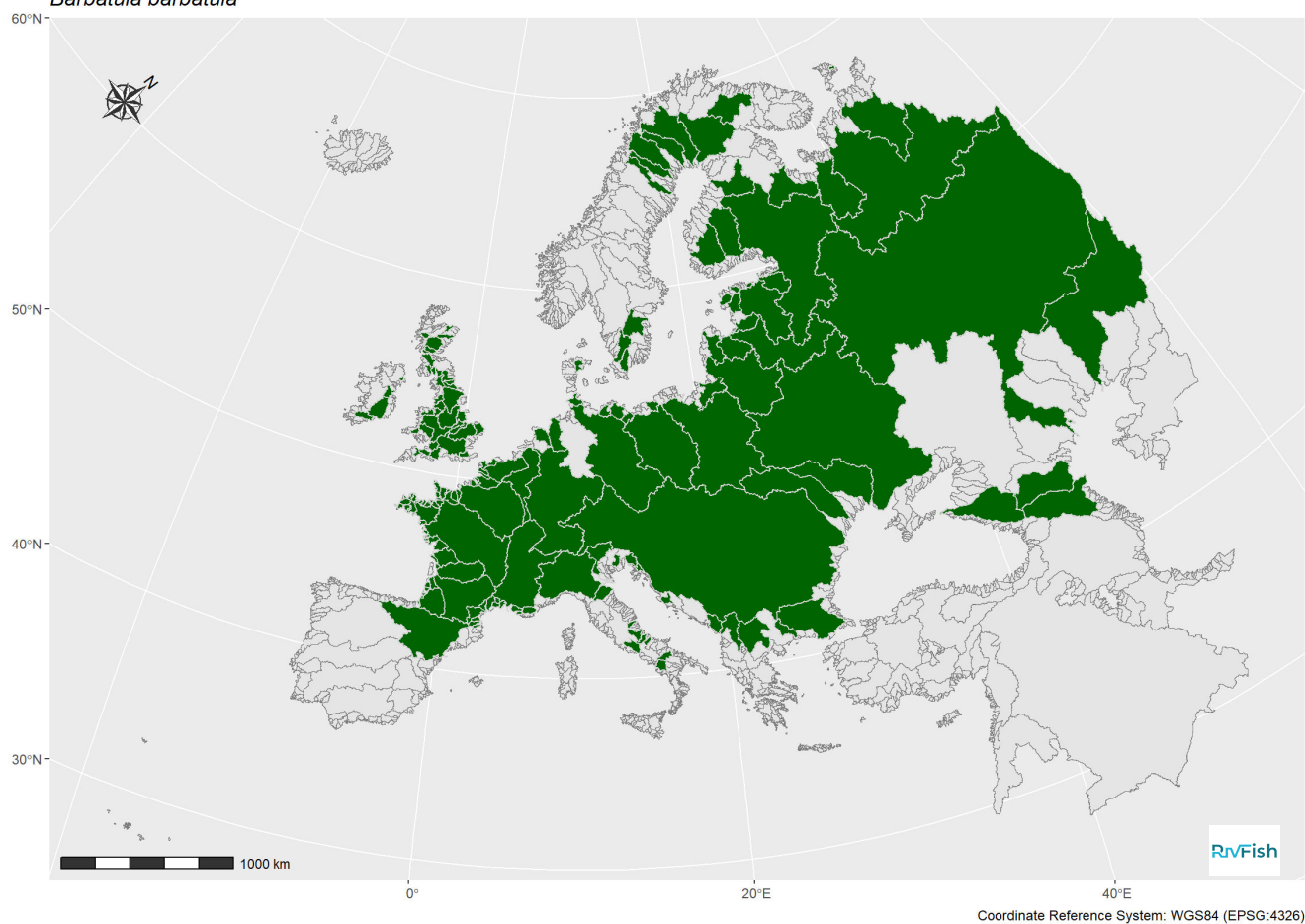
Atherina boyeri







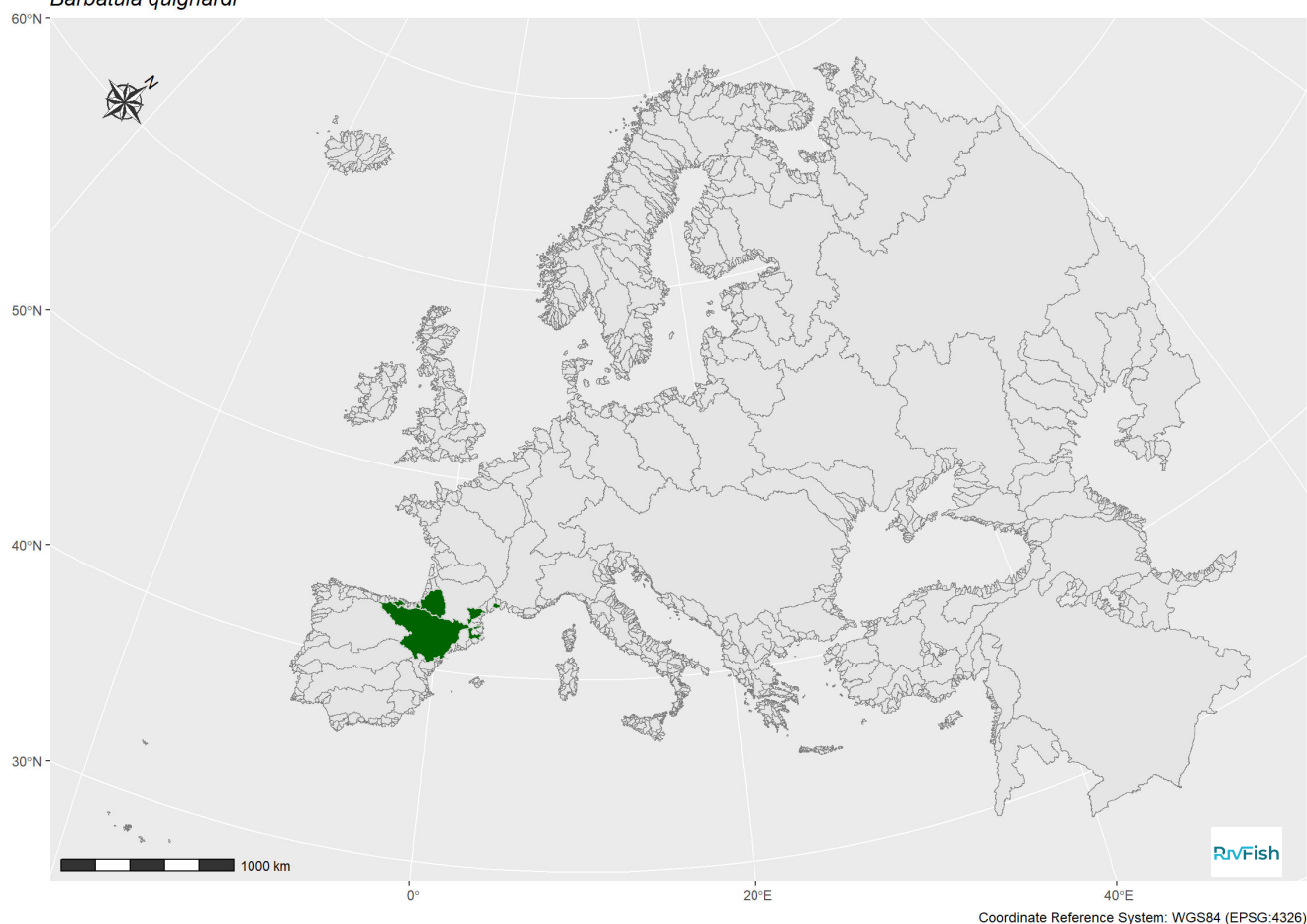
Barbatula barbatula



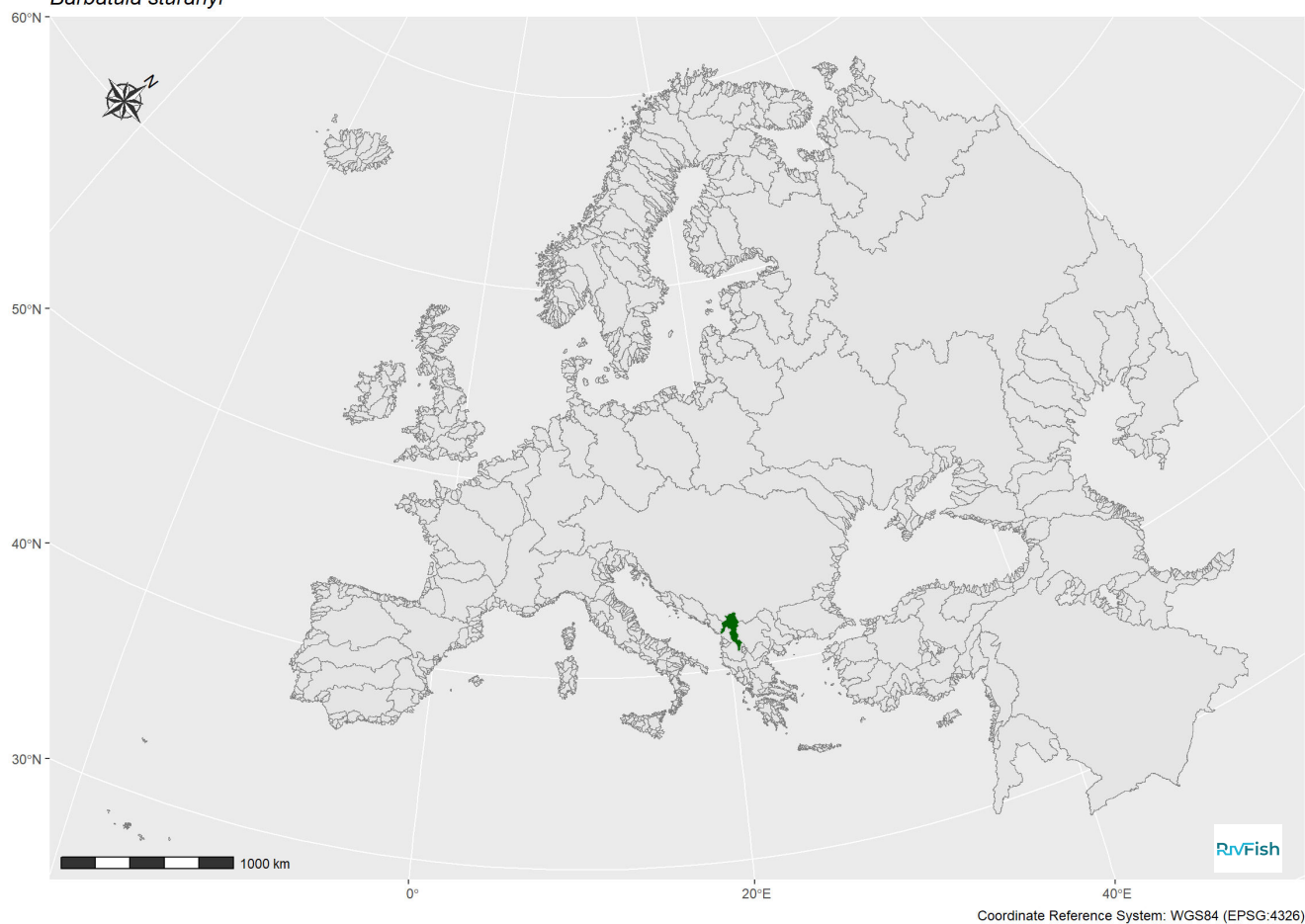
Barbatula leoparda



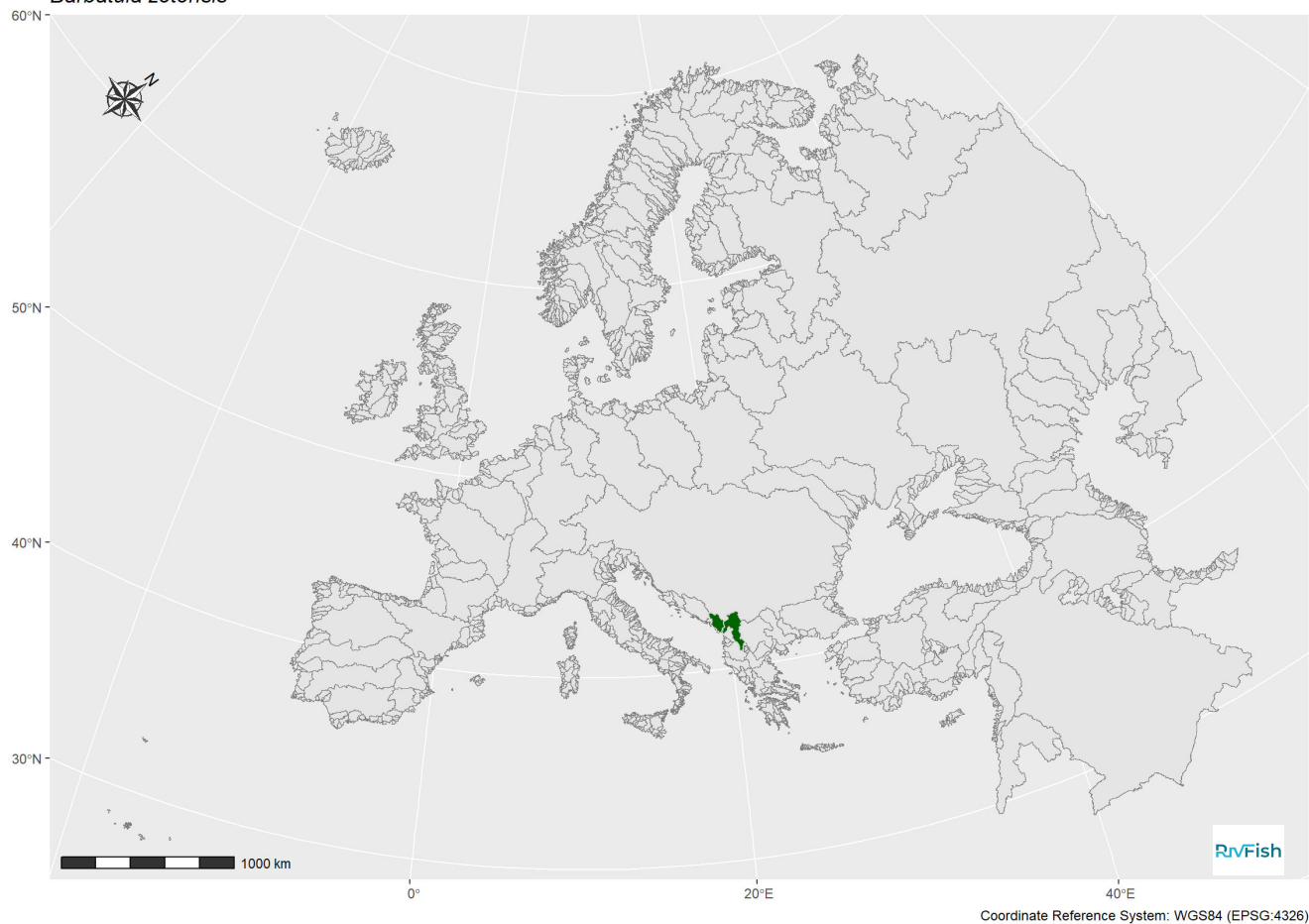
Barbatula quignardi



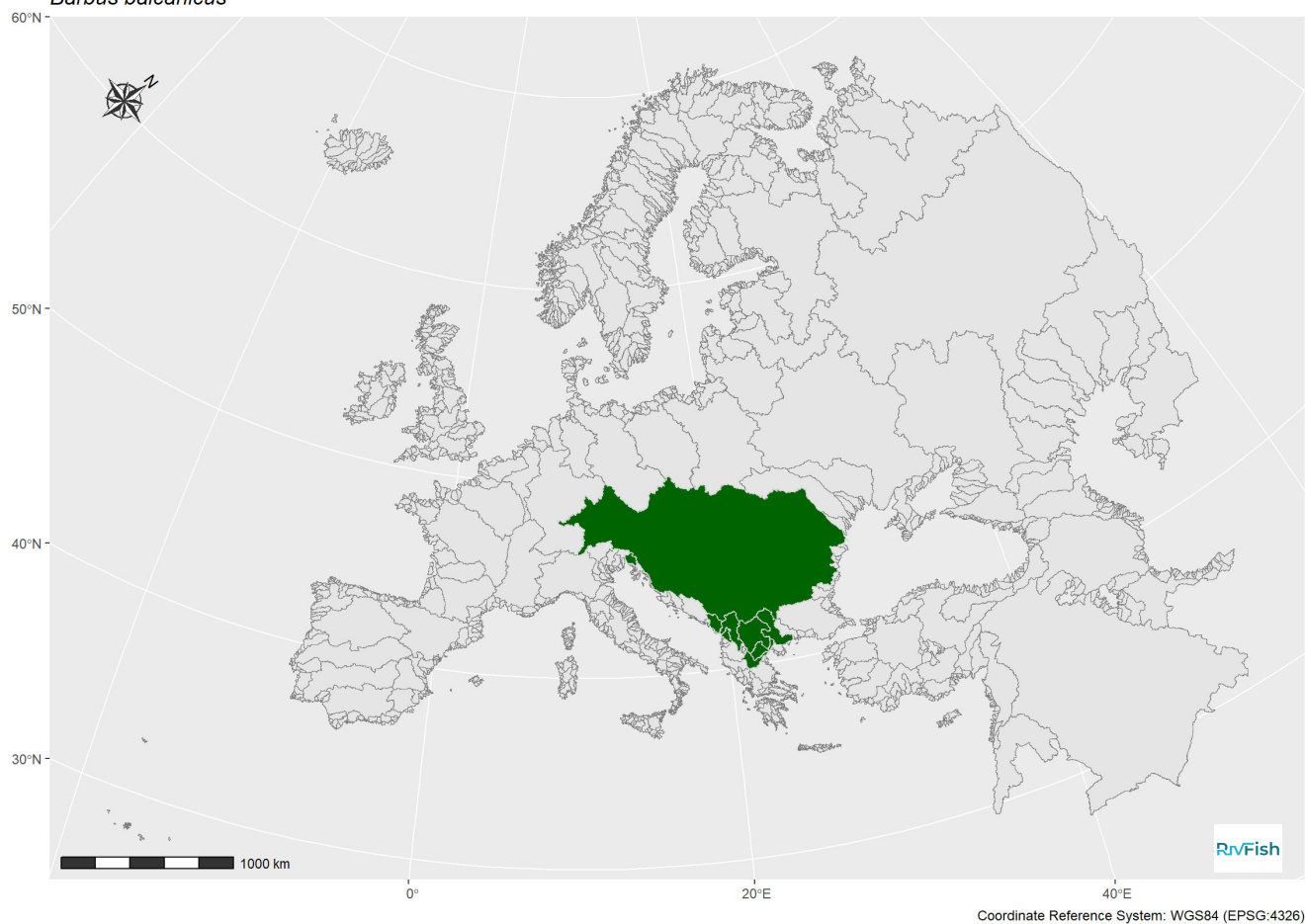
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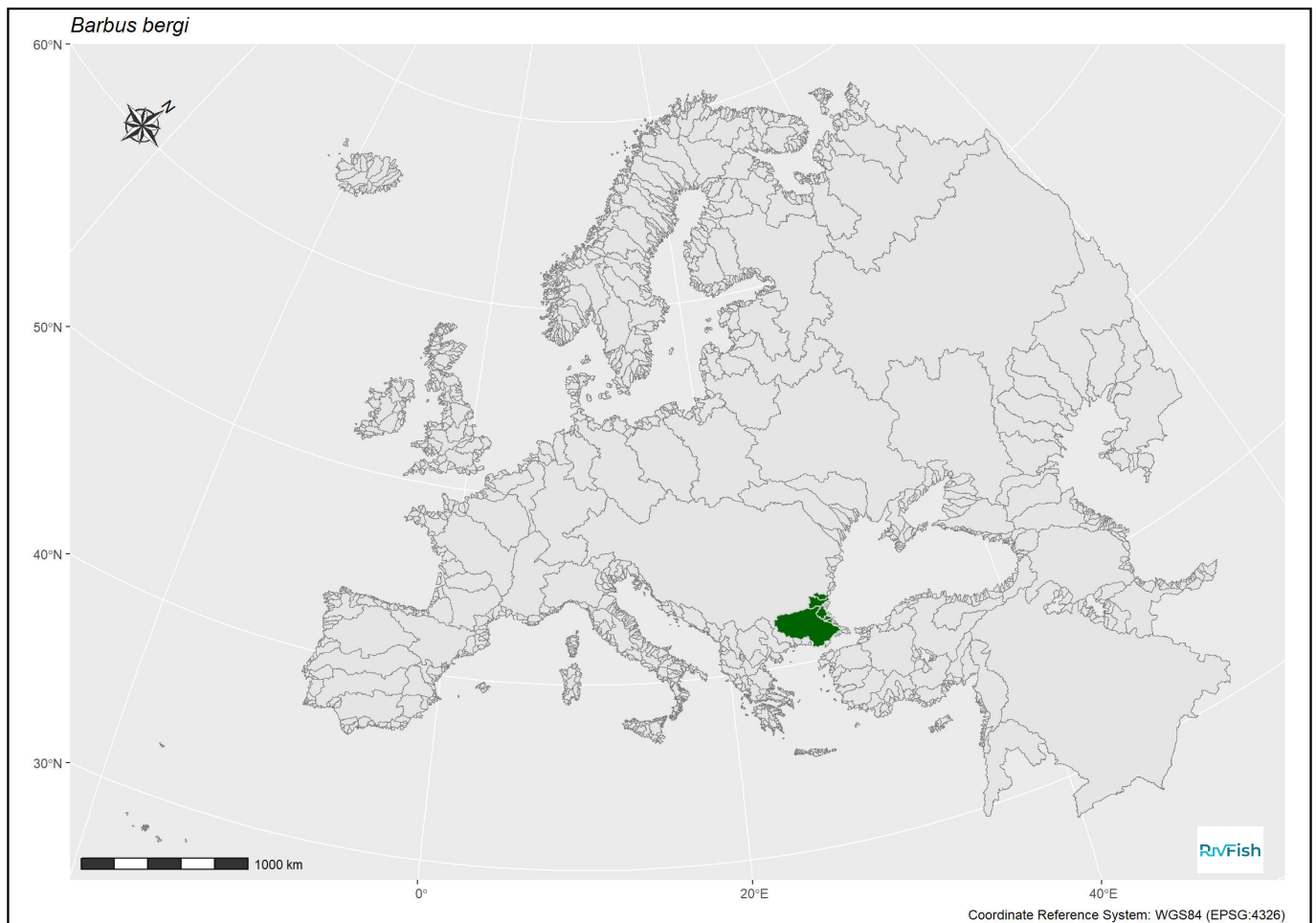
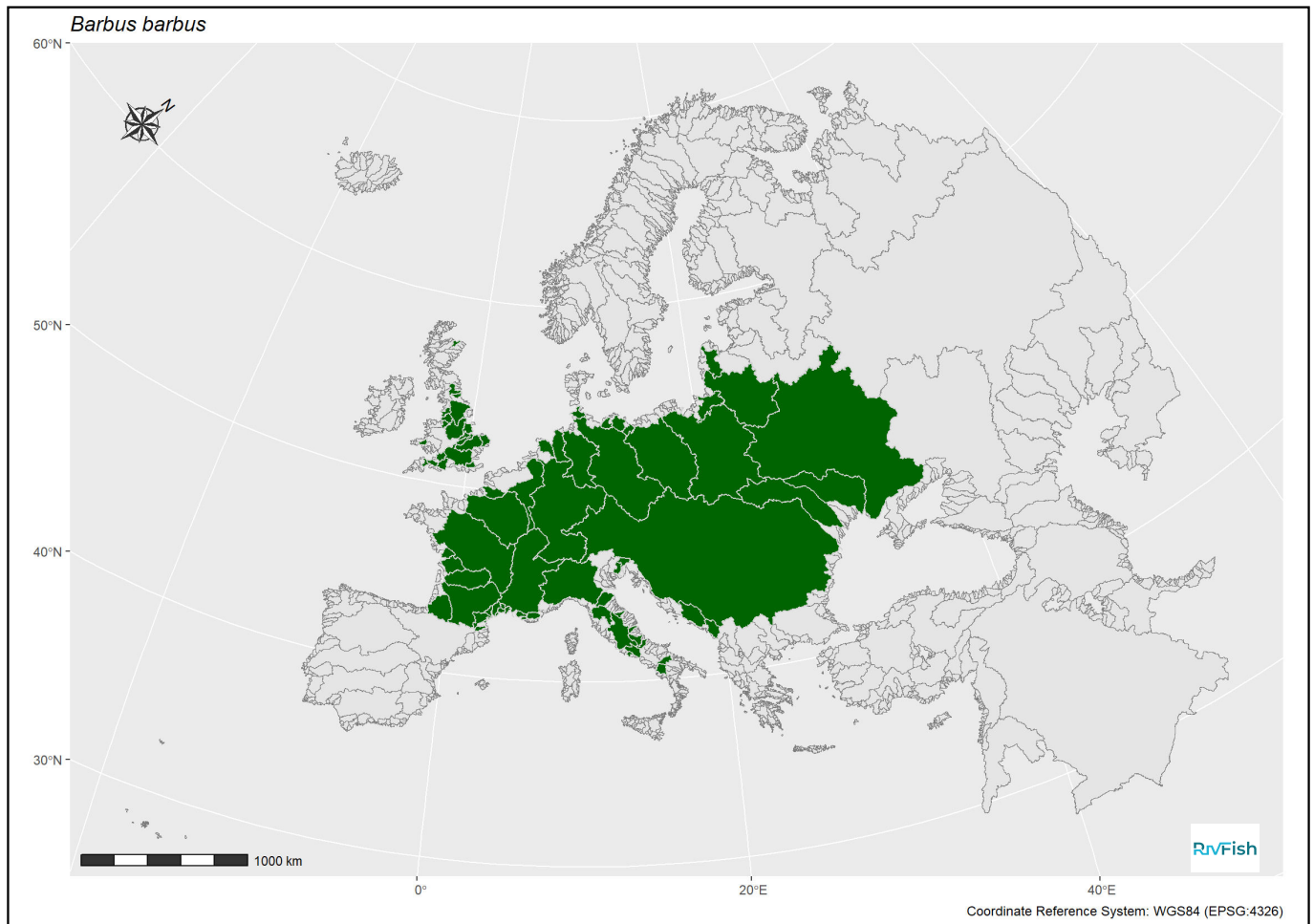


Barbatula zetensis

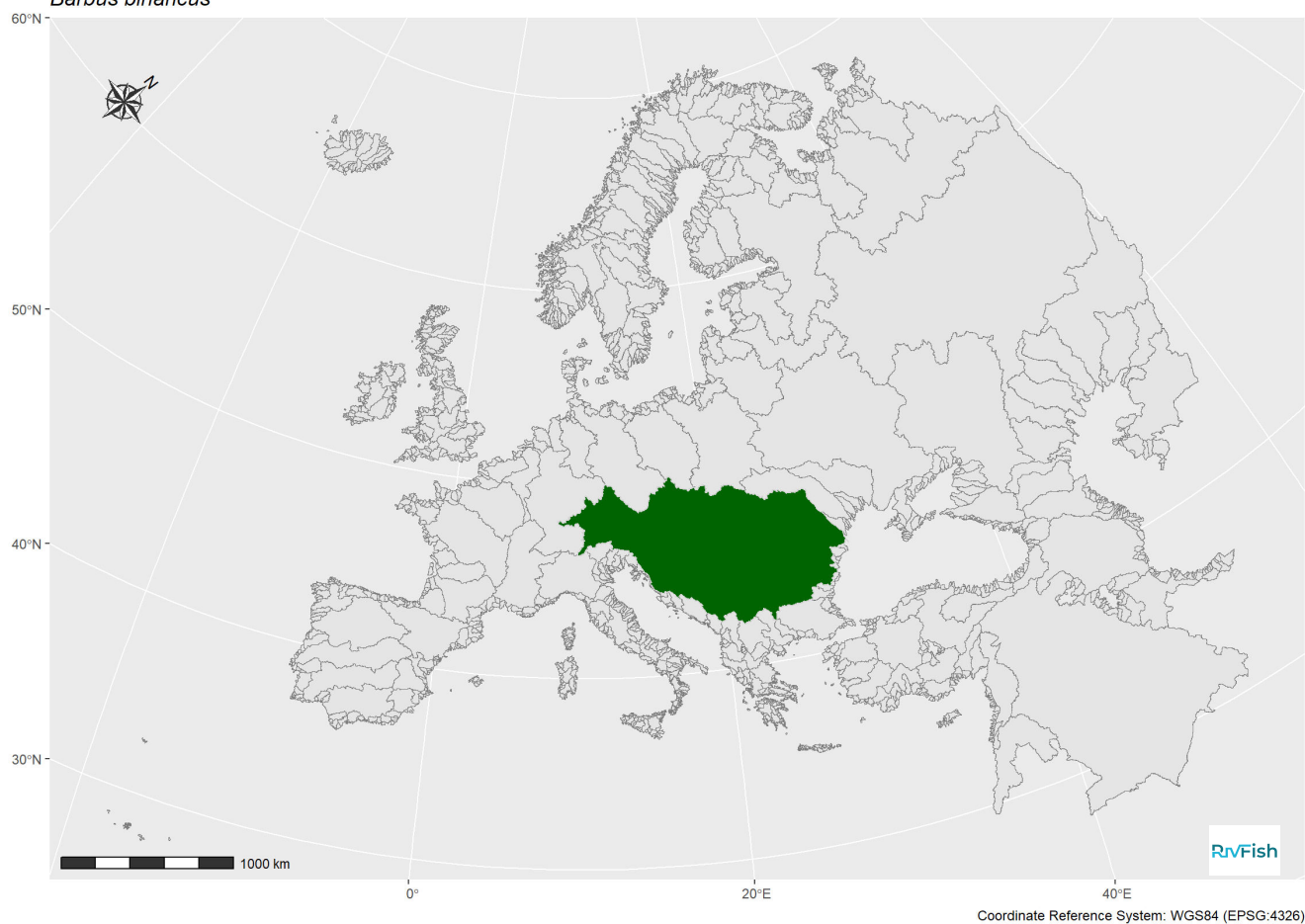


Barbus balcanicus

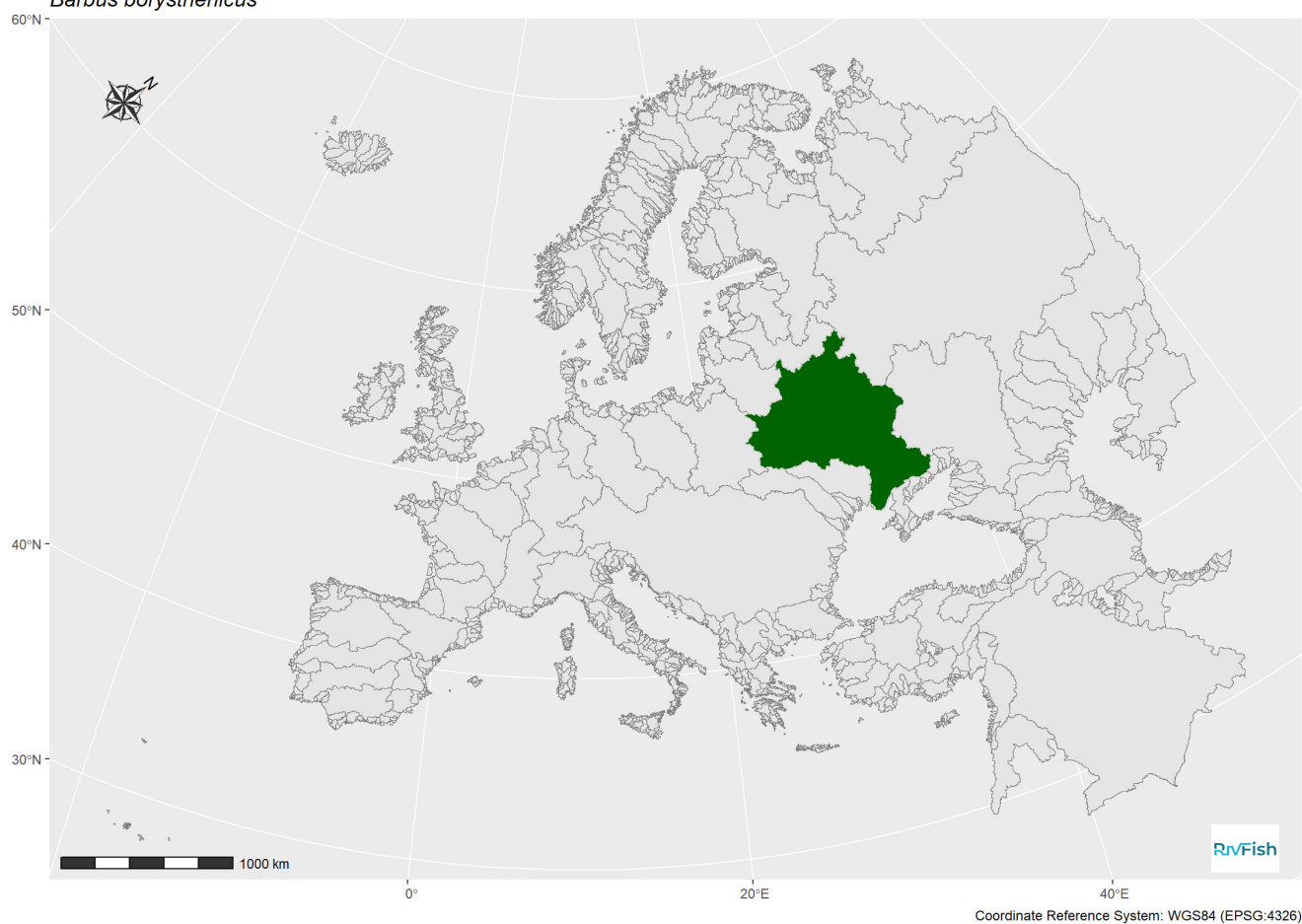




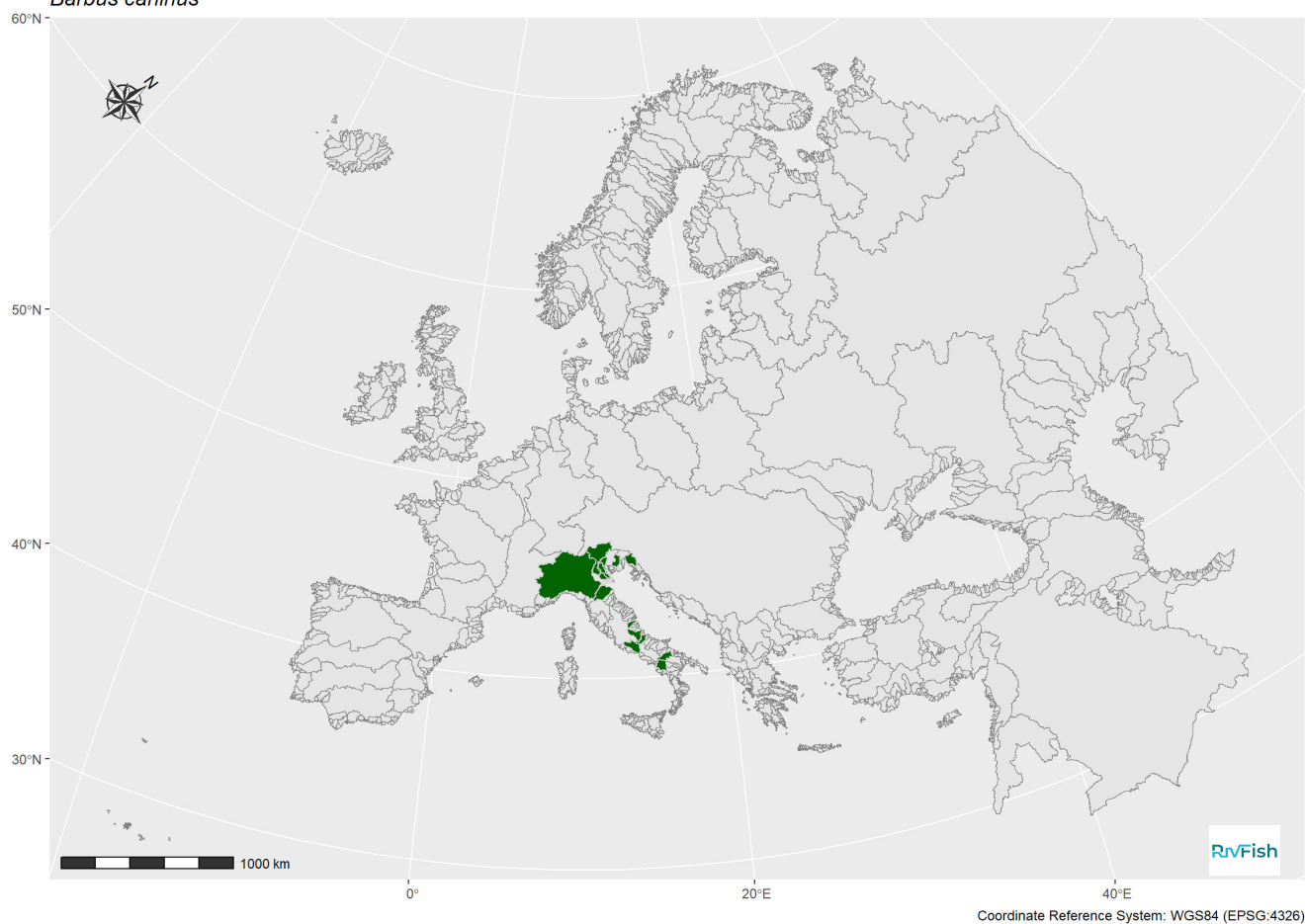
Barbus biharicus



Barbus borysthemicus



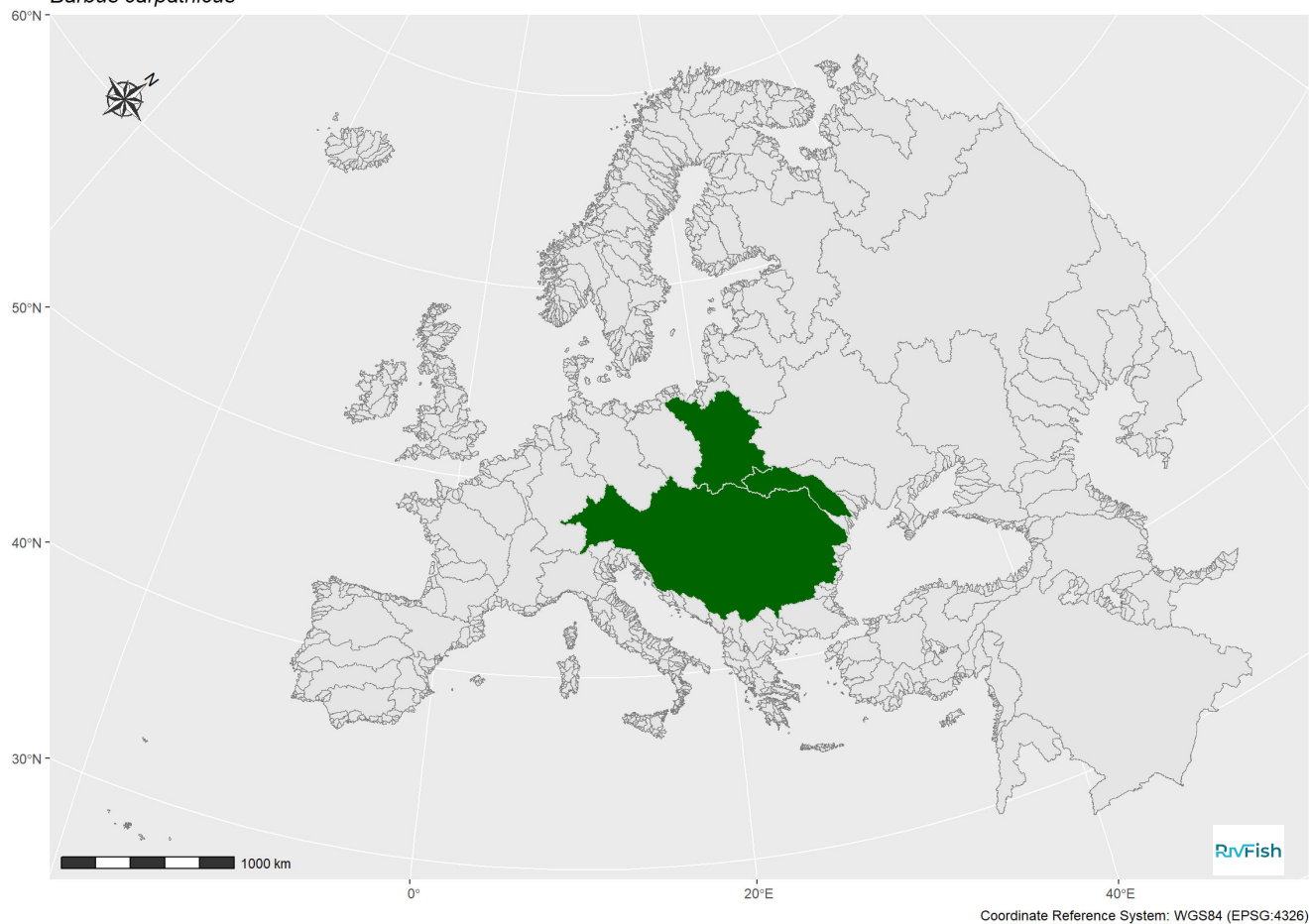
Barbus caninus



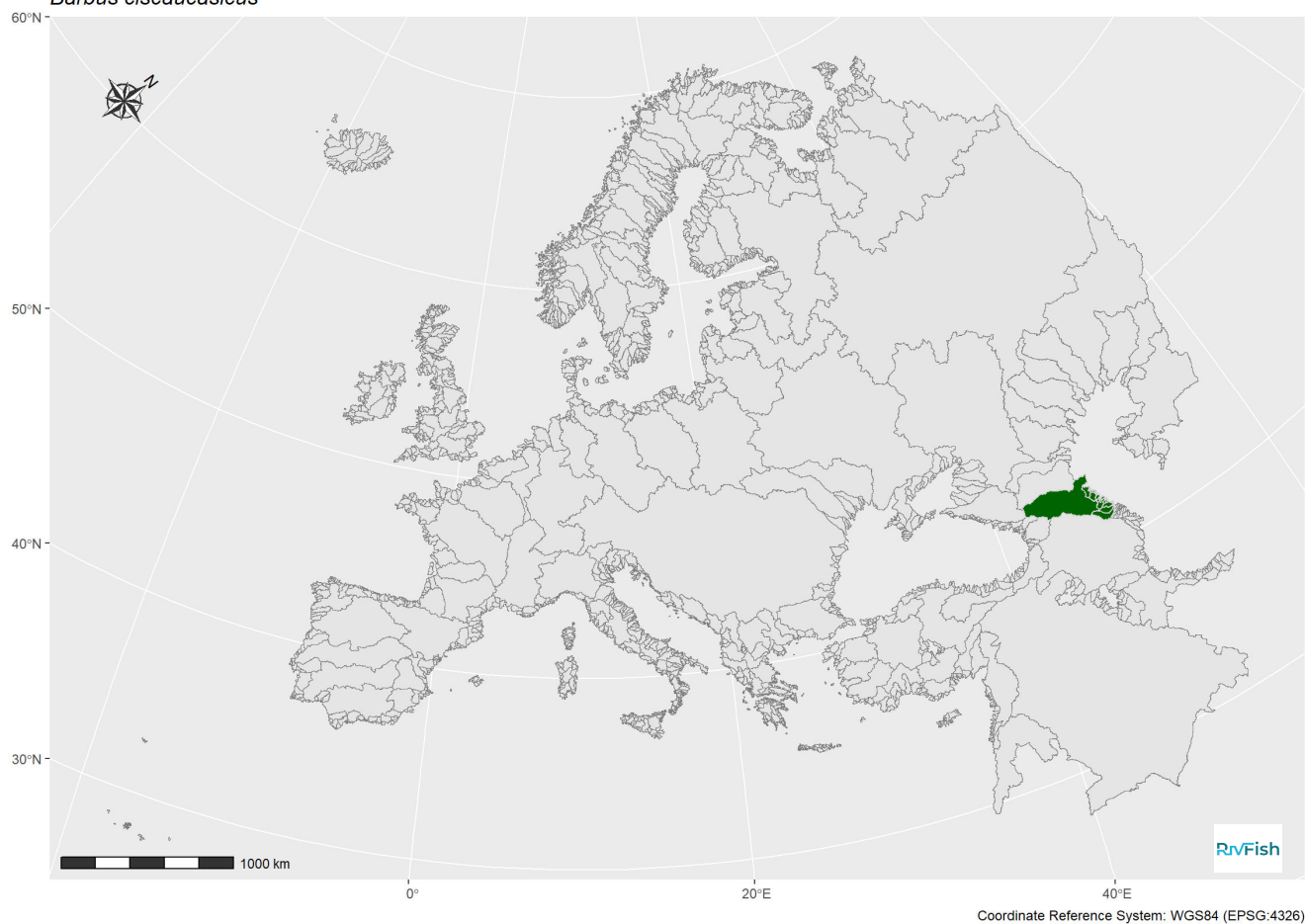
Barbus carottae



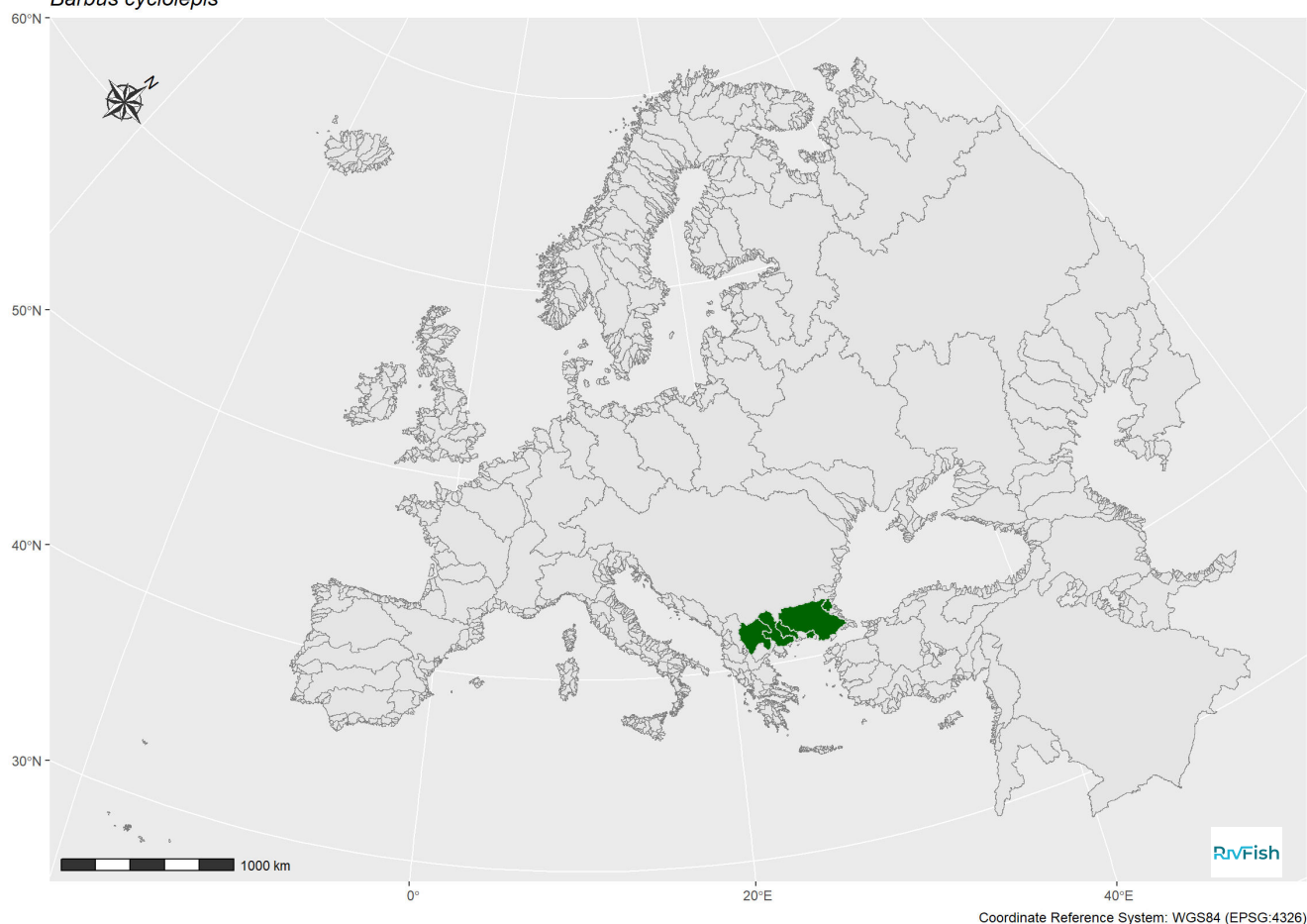
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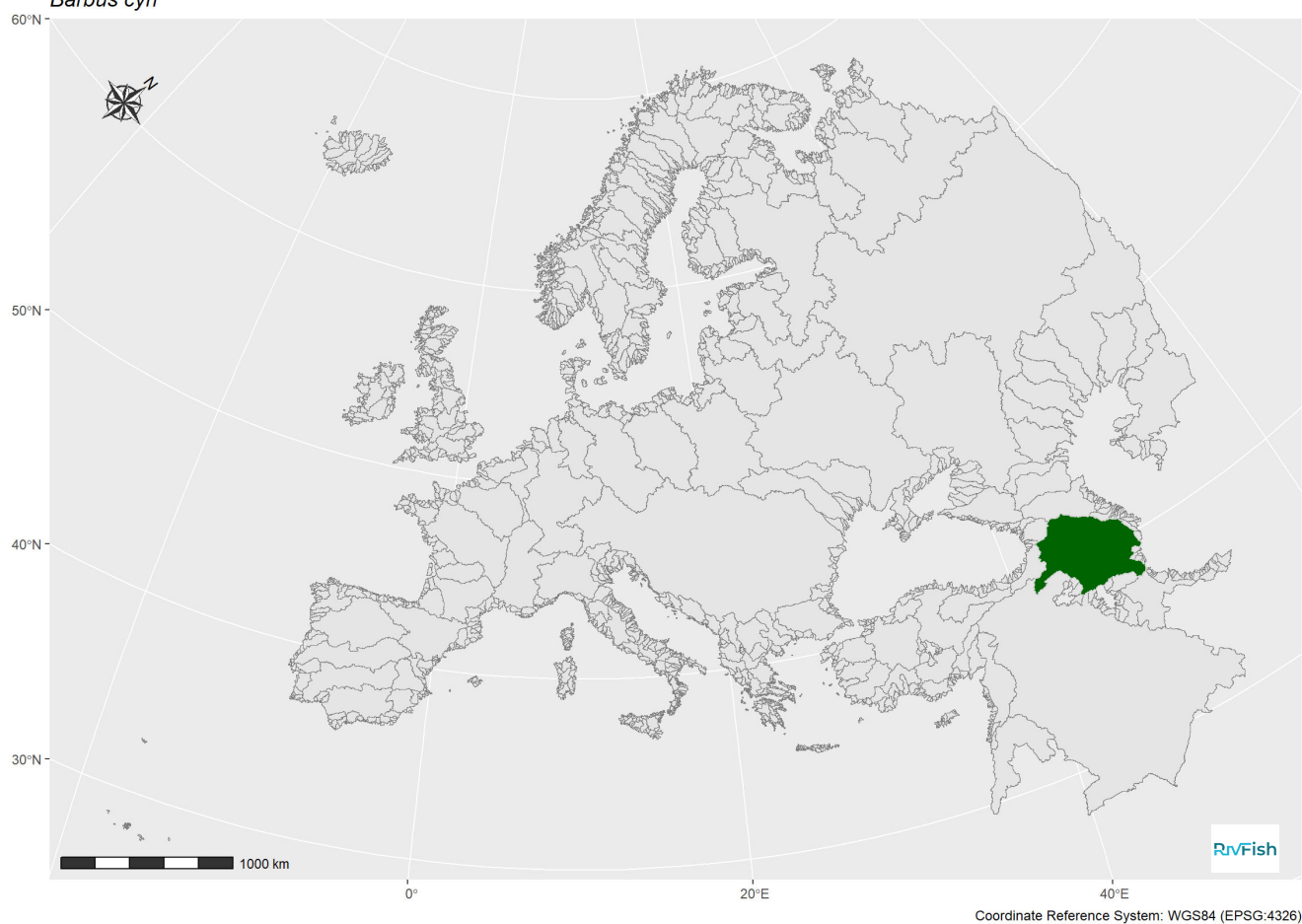
Barbus ciscaucasicus



Barbus cyclolepis



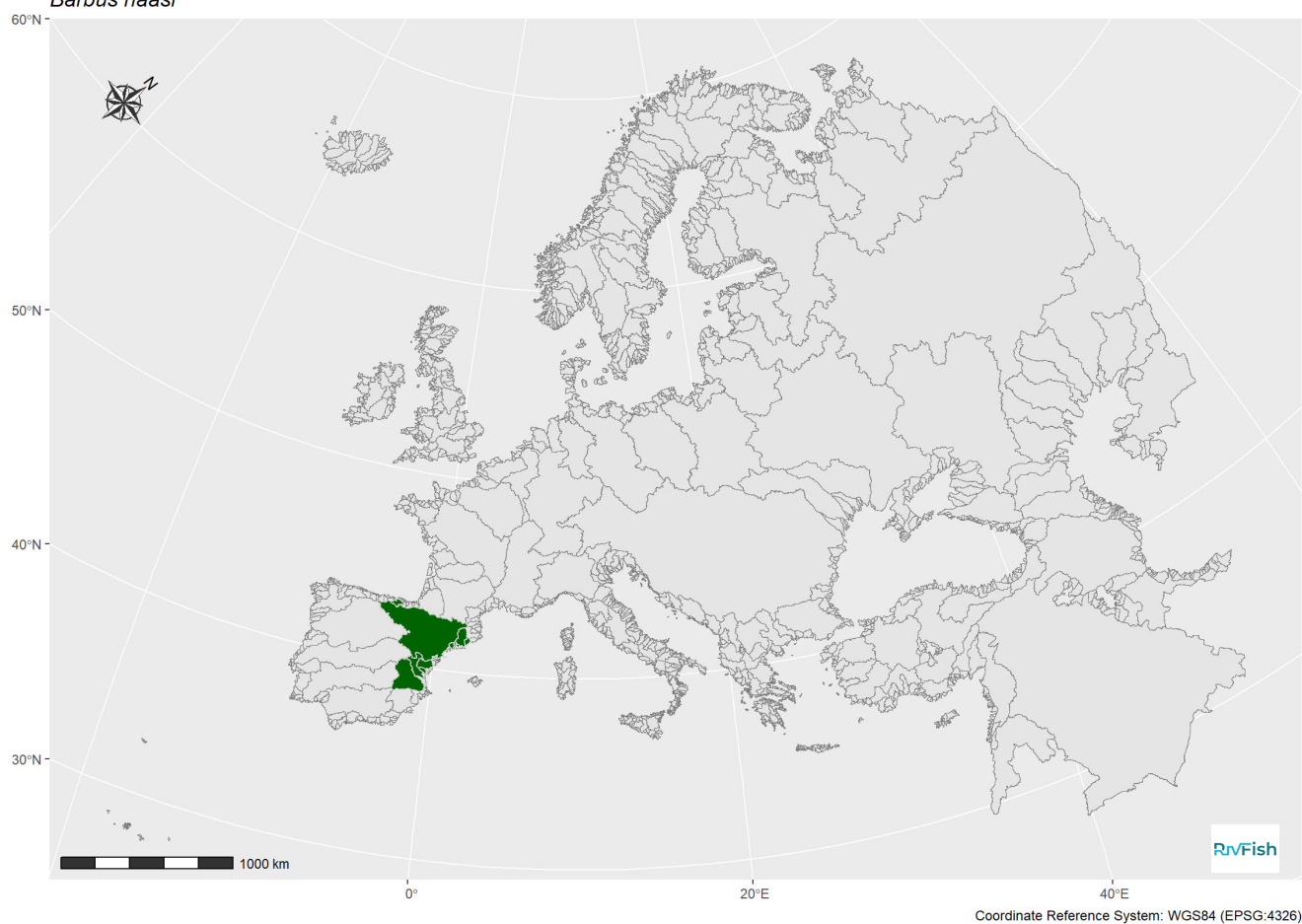
Barbus cyri



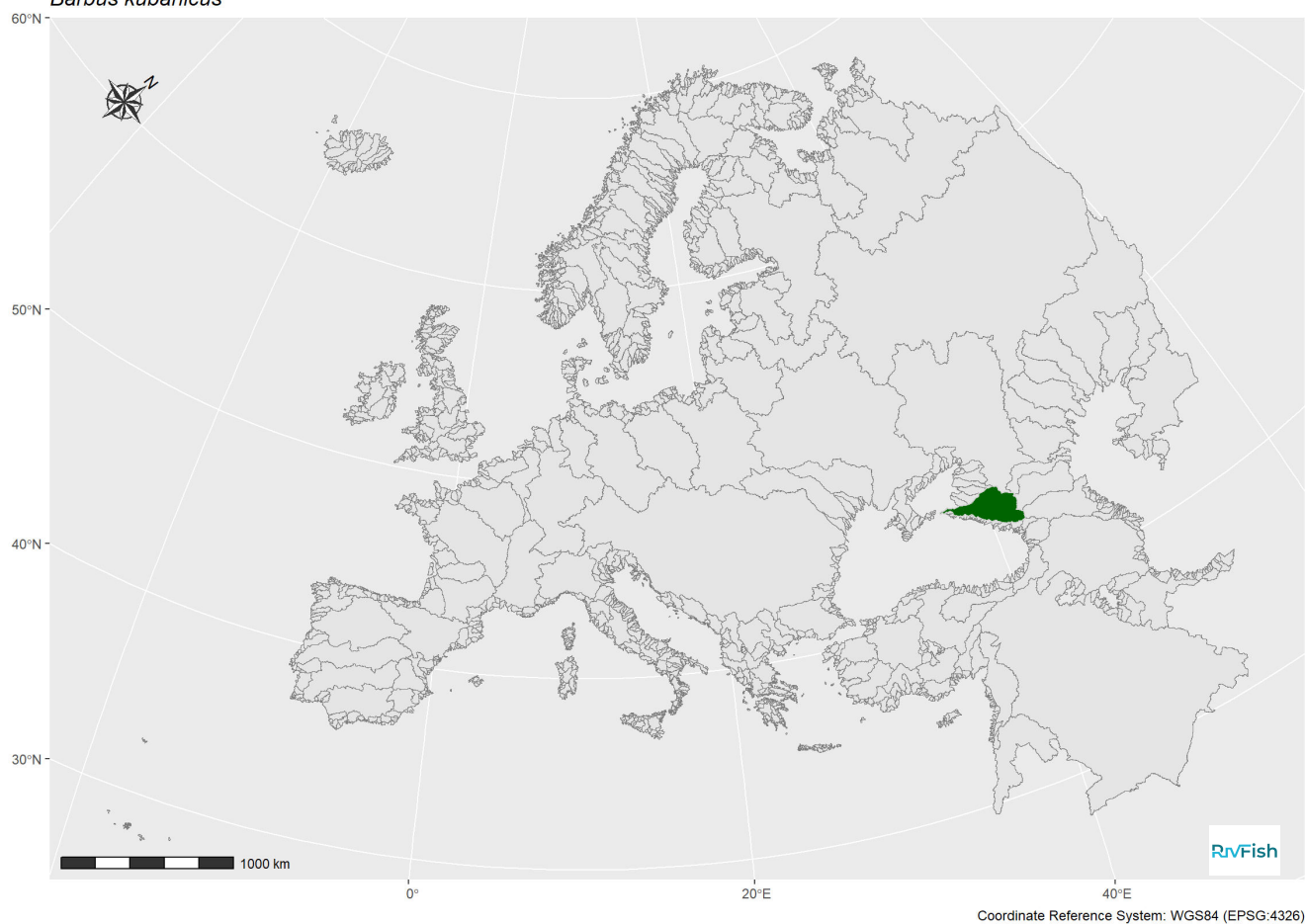
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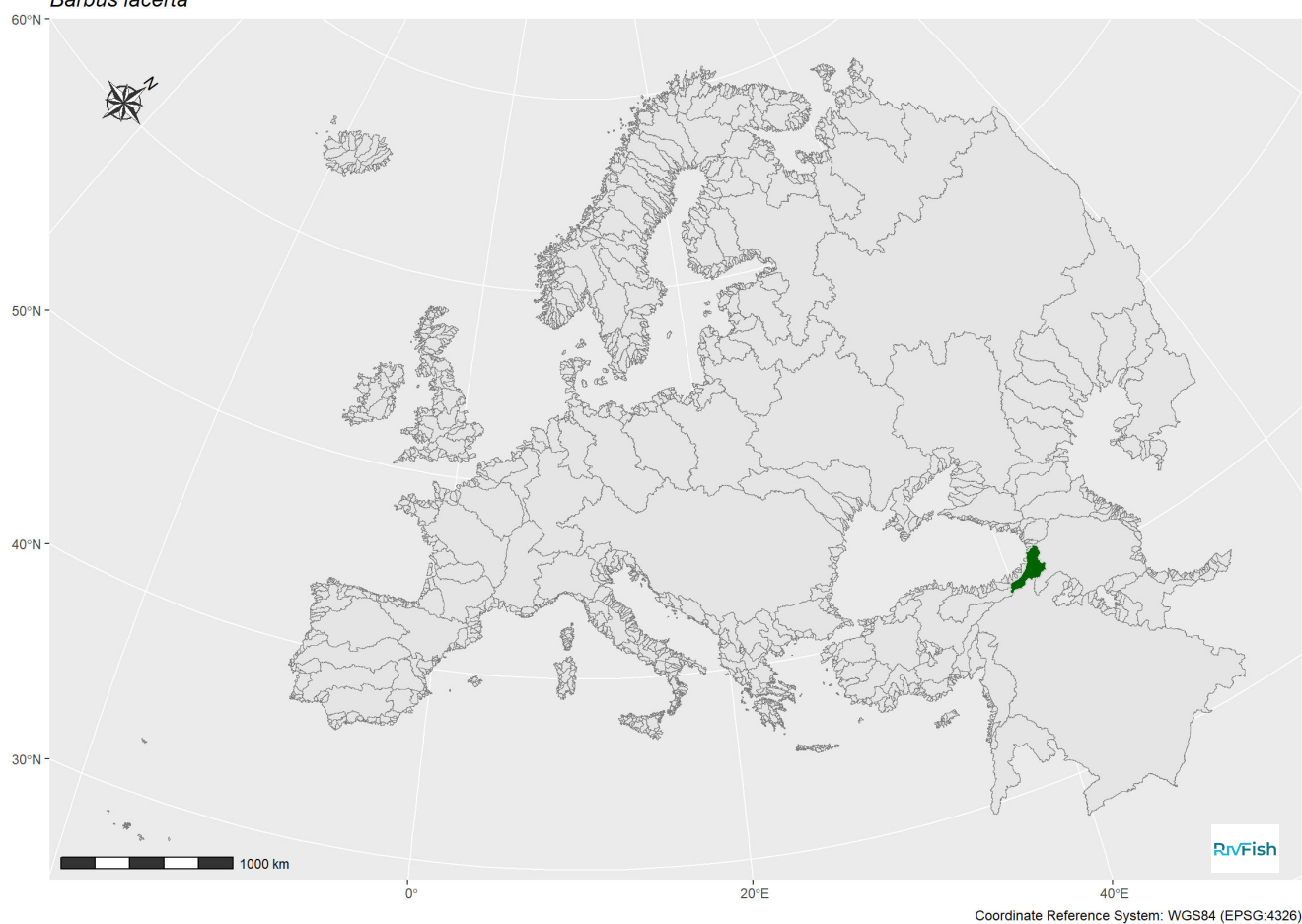
Barbus haasi



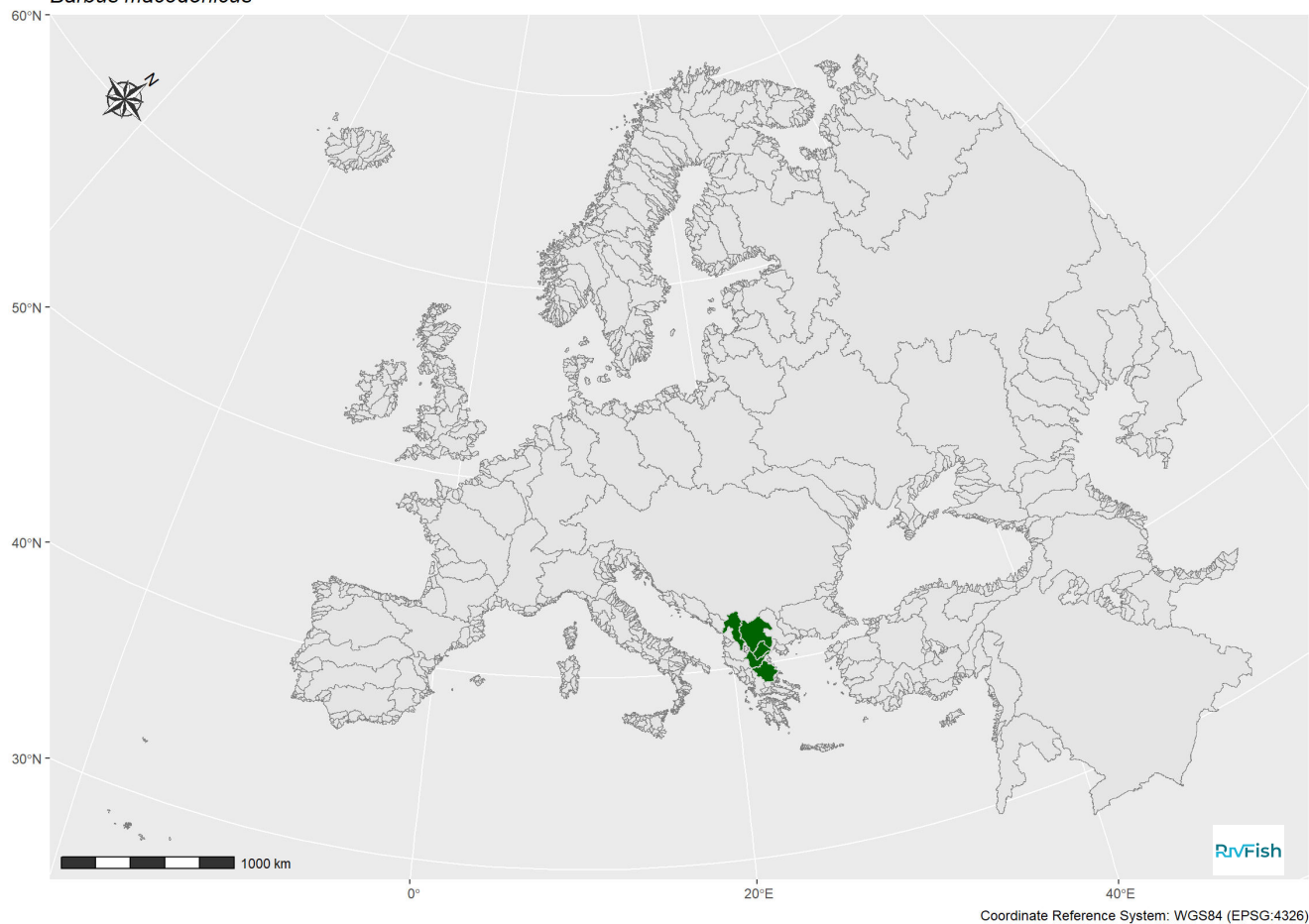
Barbus kubanicus



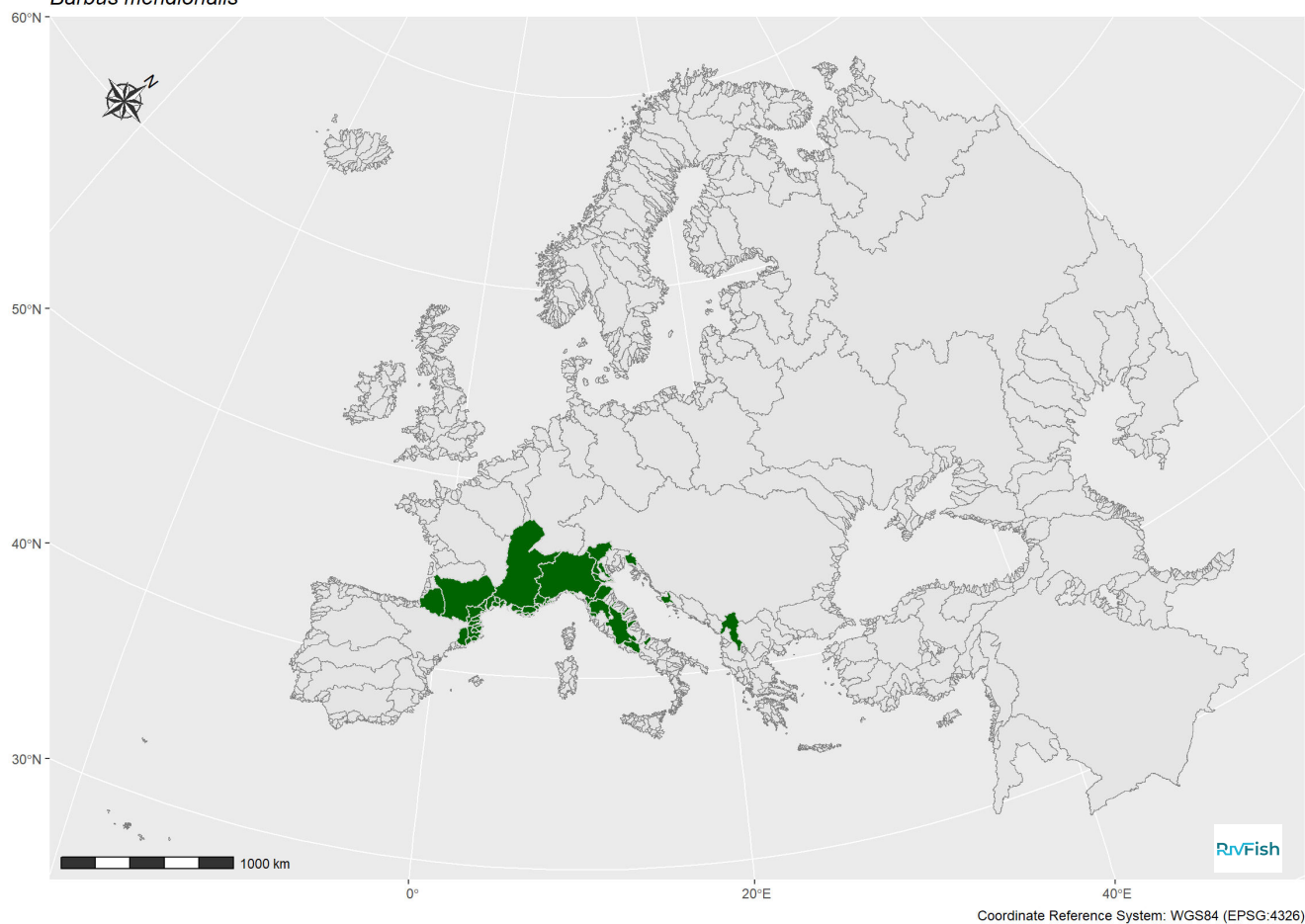
Barbus lacerta



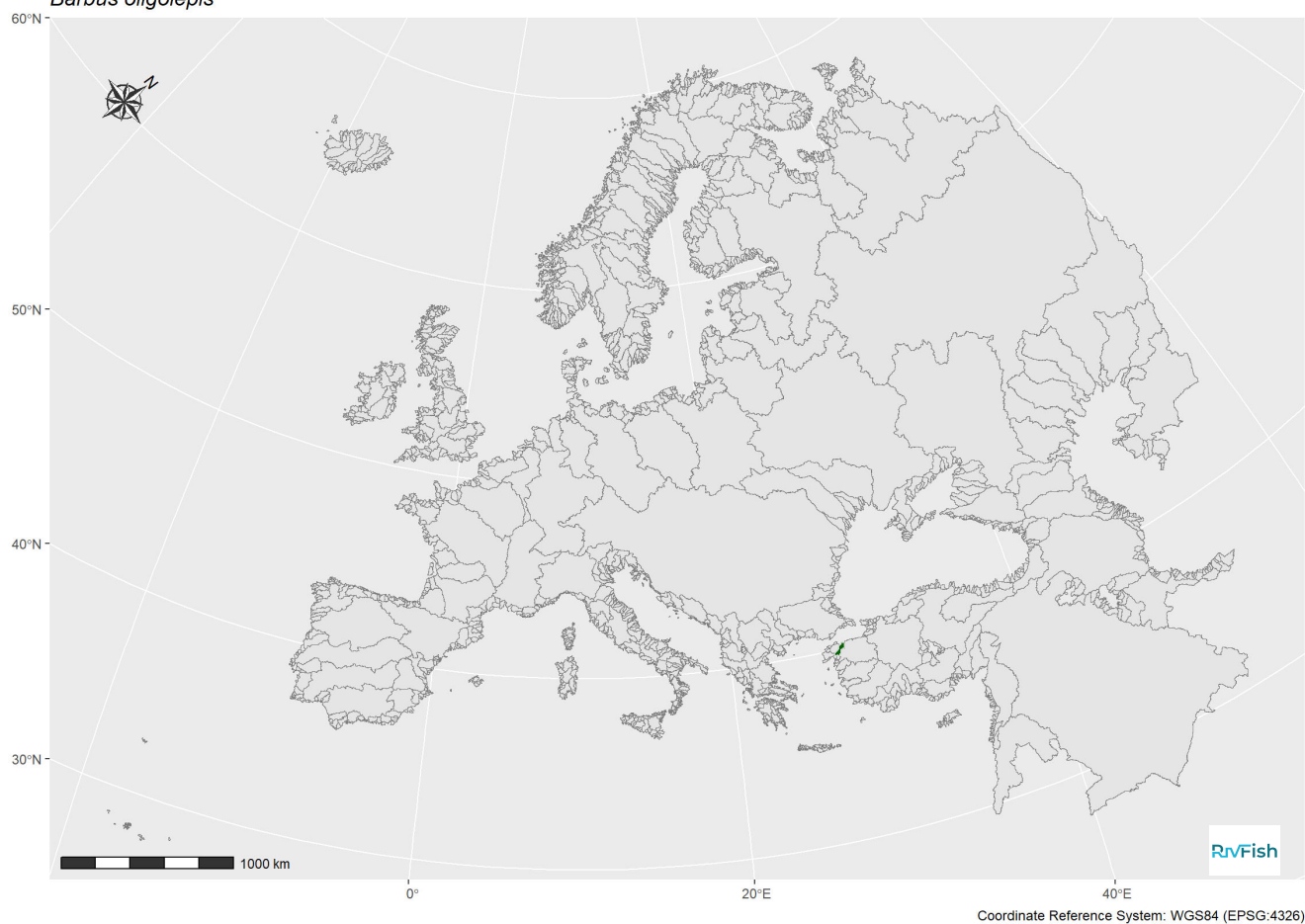
Barbus macedonicus



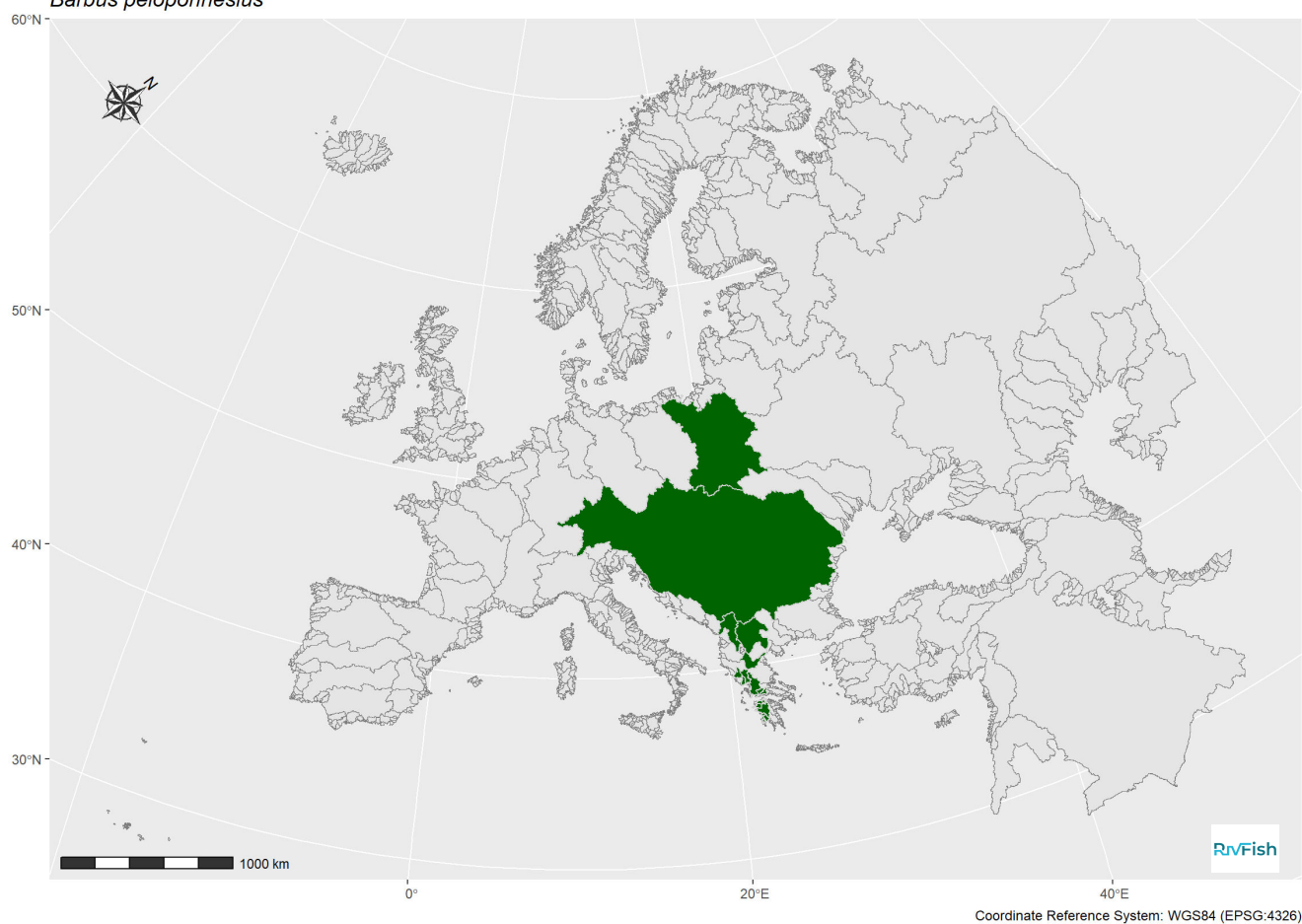
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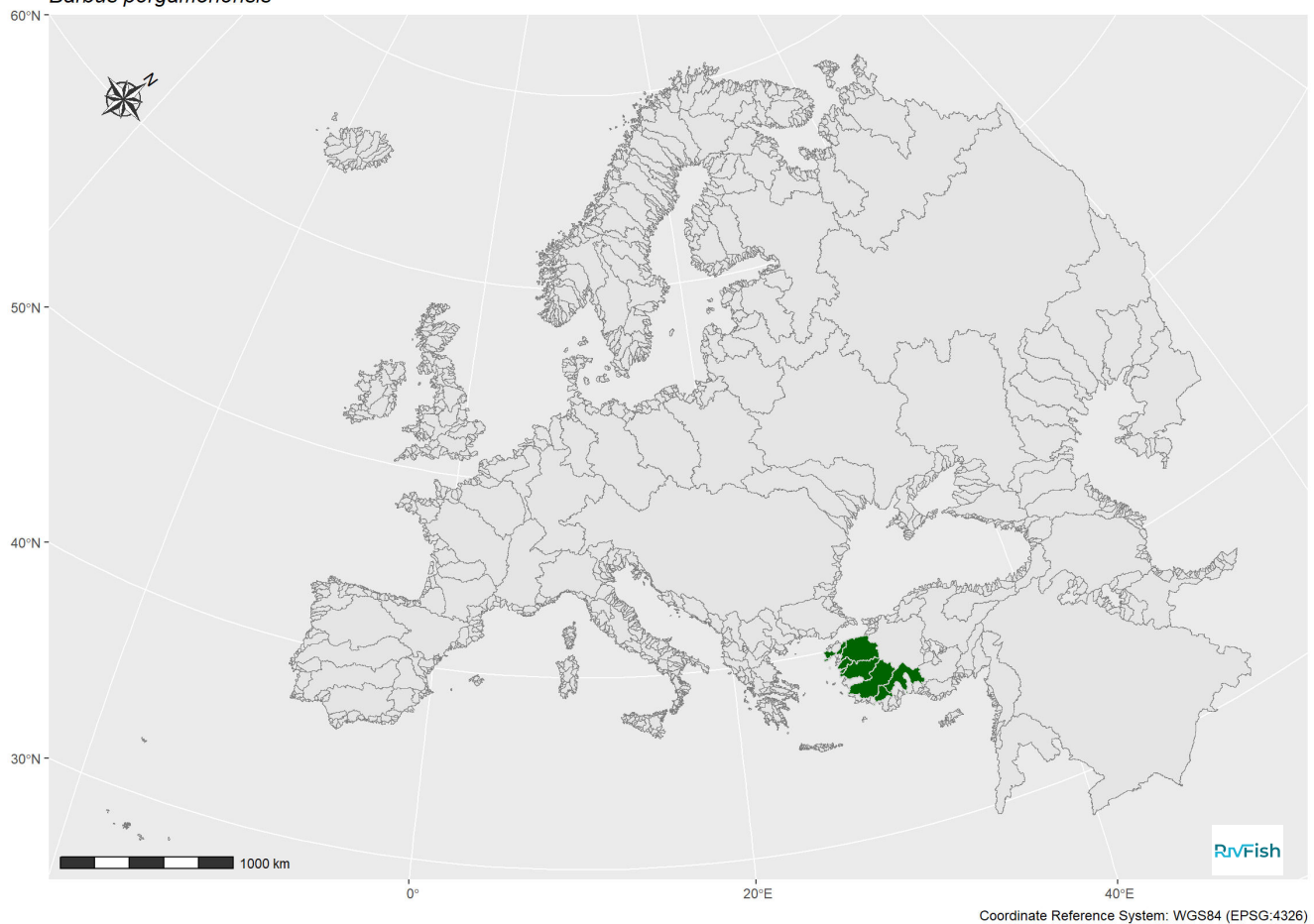
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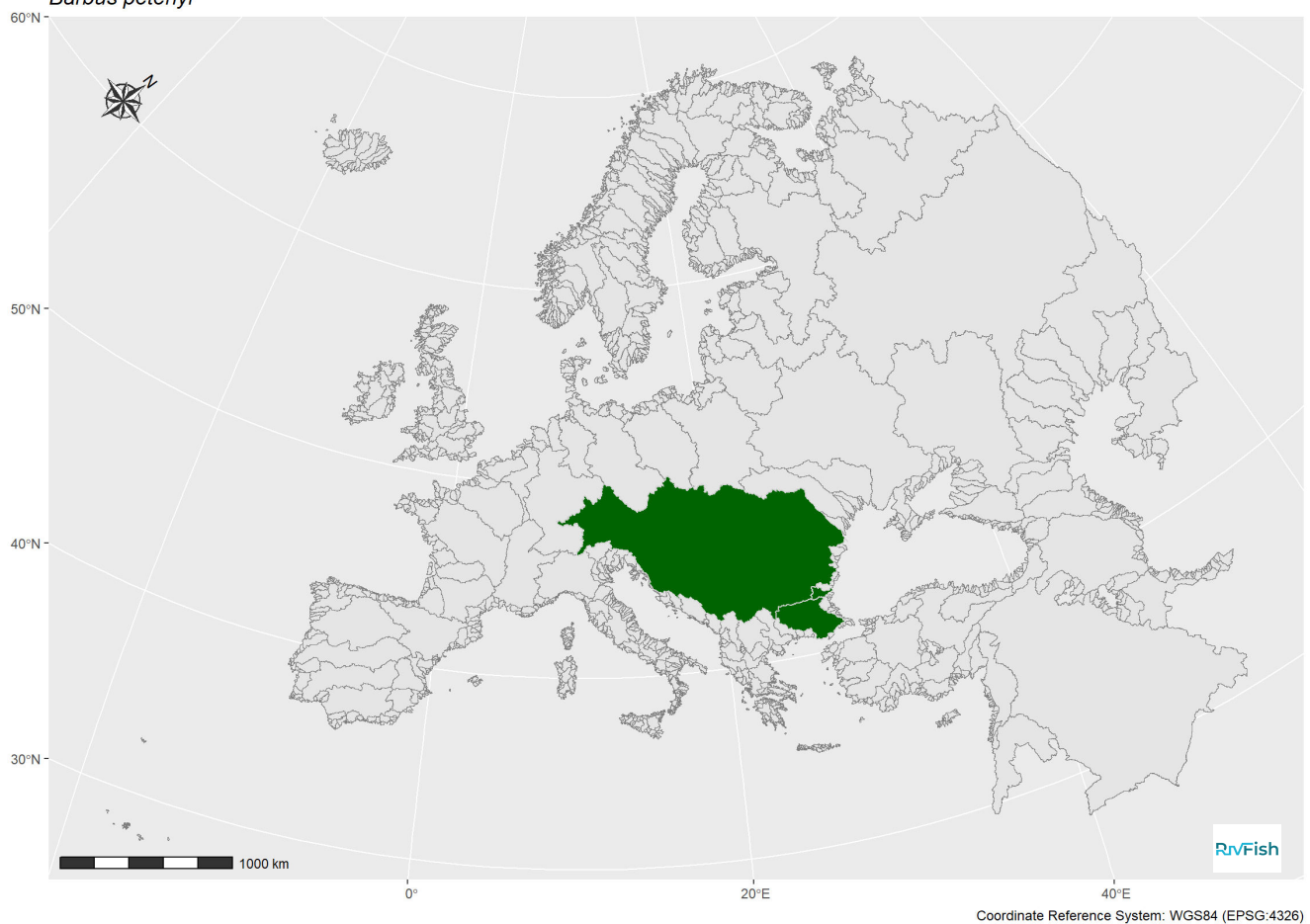
Barbus peloponnesius



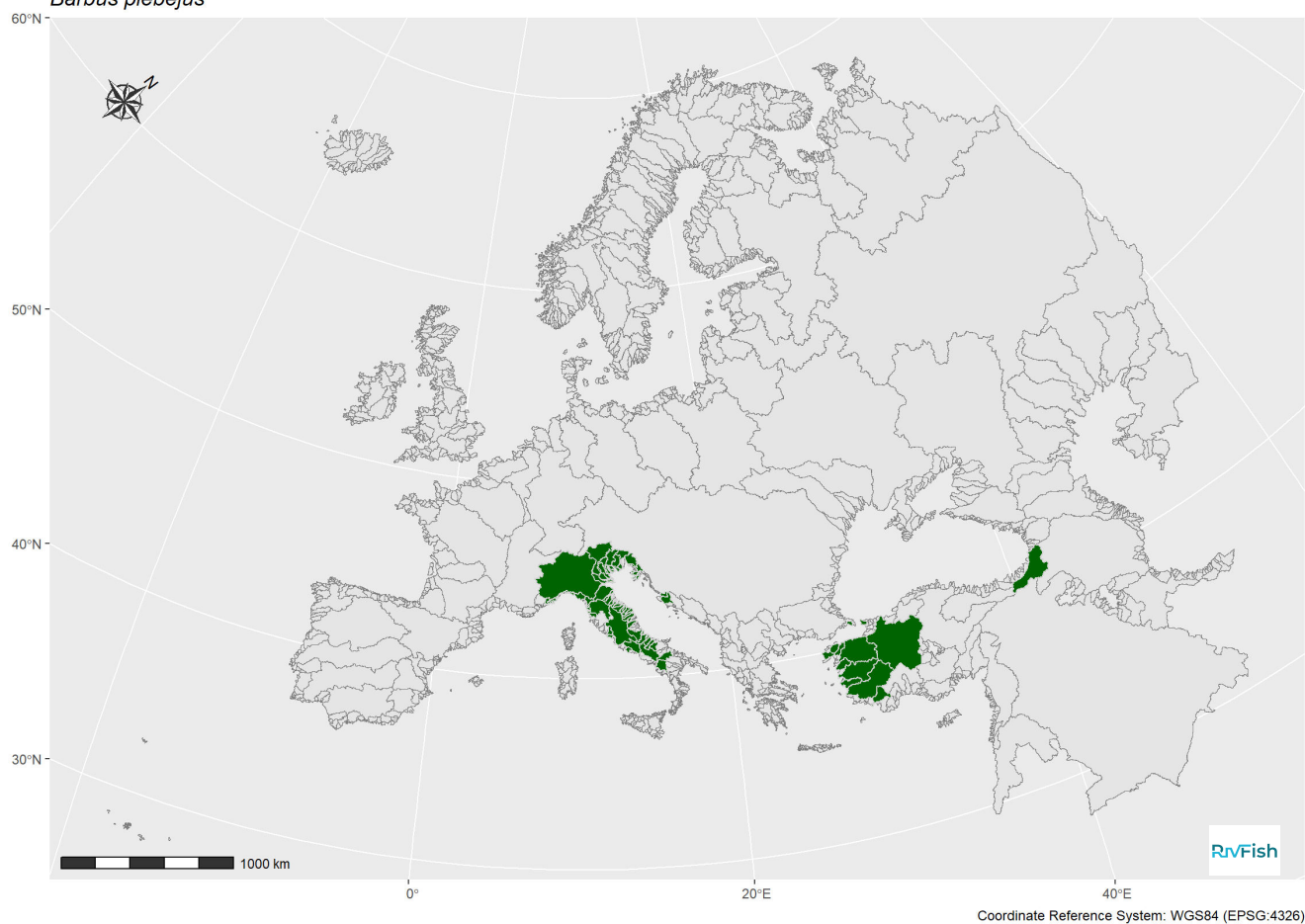
Barbus pergamonensis



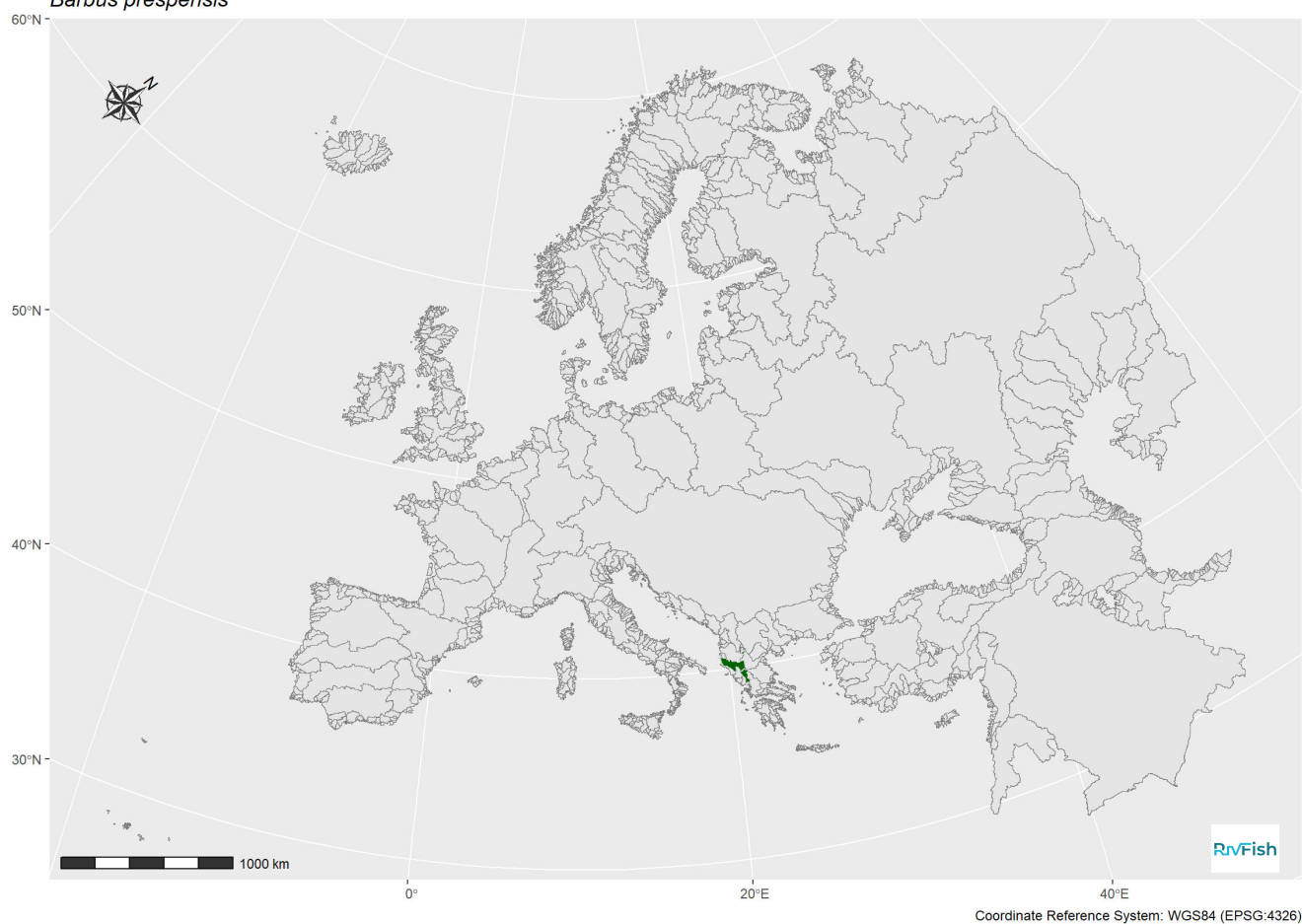
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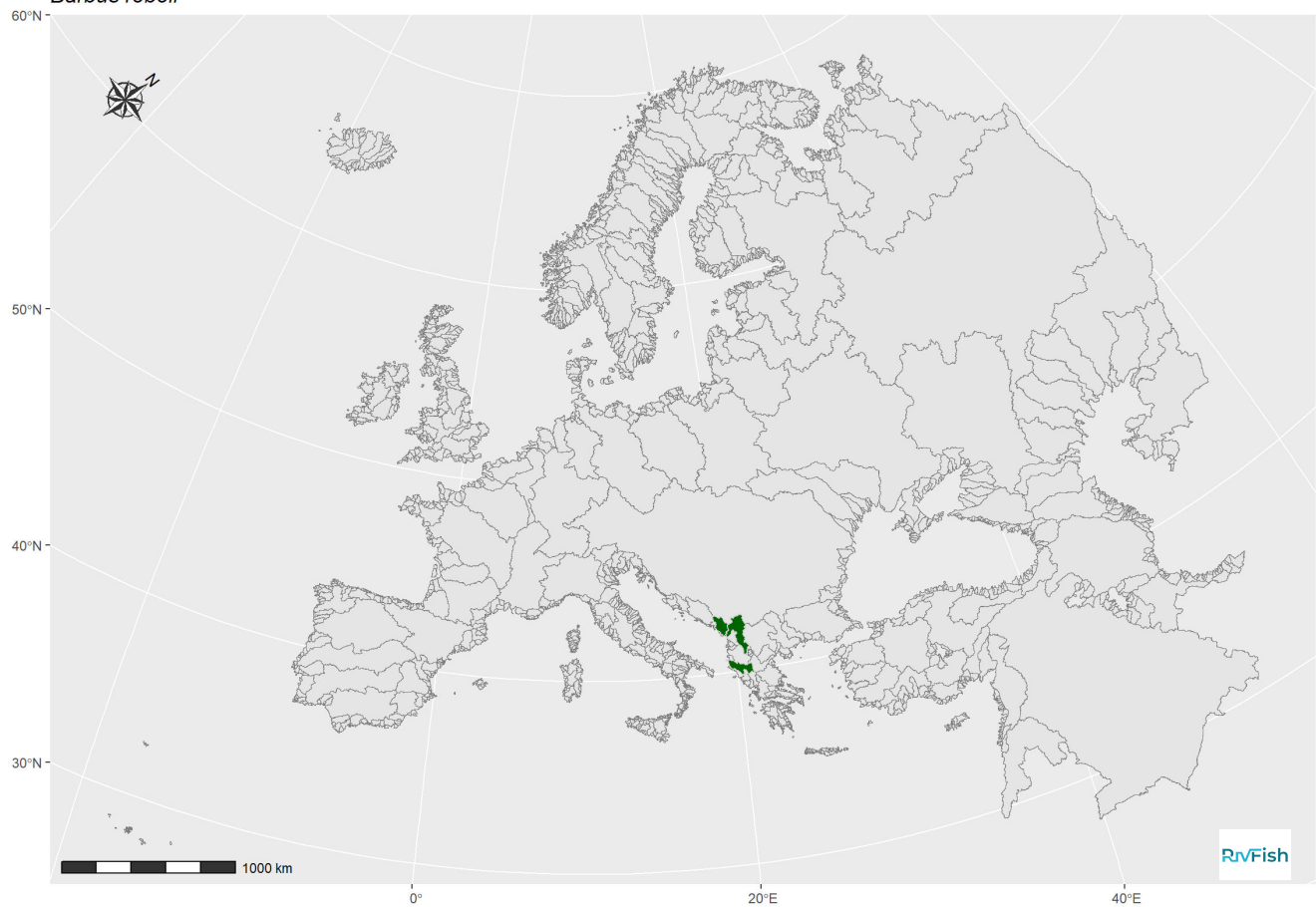
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Barbus prespensis



Barbus rebeli



Barbus samniticus

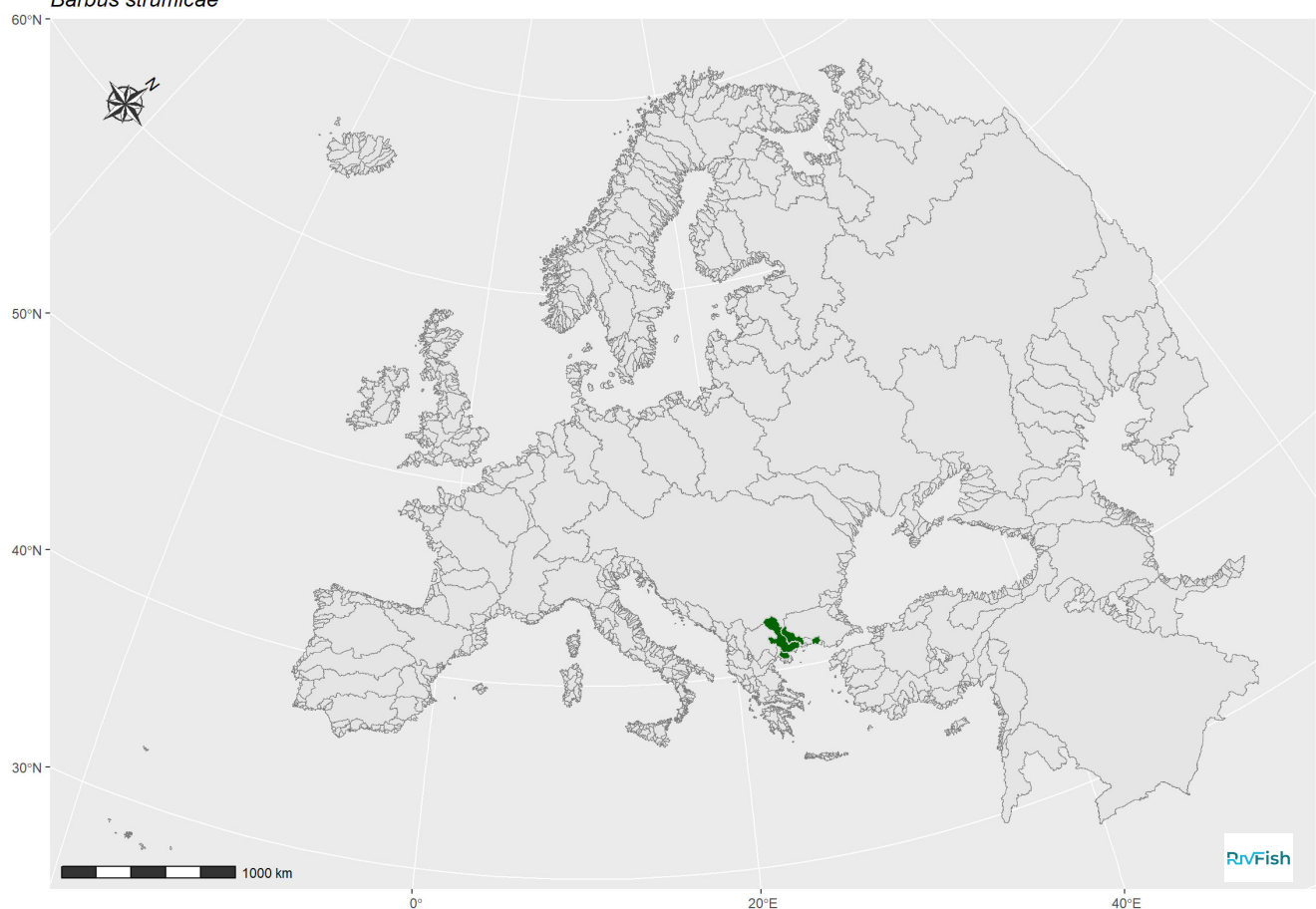


Barbus sperchiensis



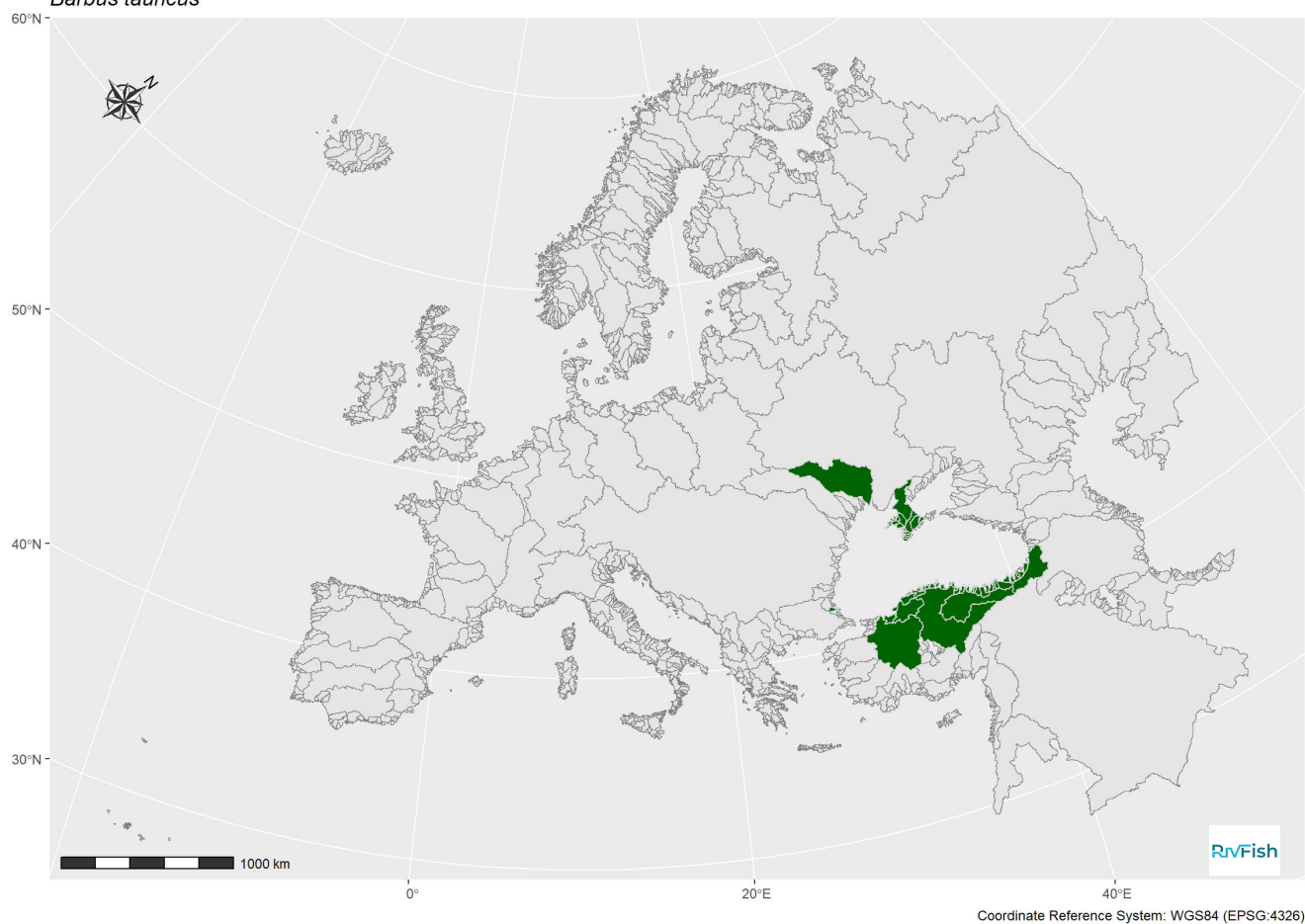
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Barbus strumicae



Coordinate Reference System: WGS84 (EPSG:4326)

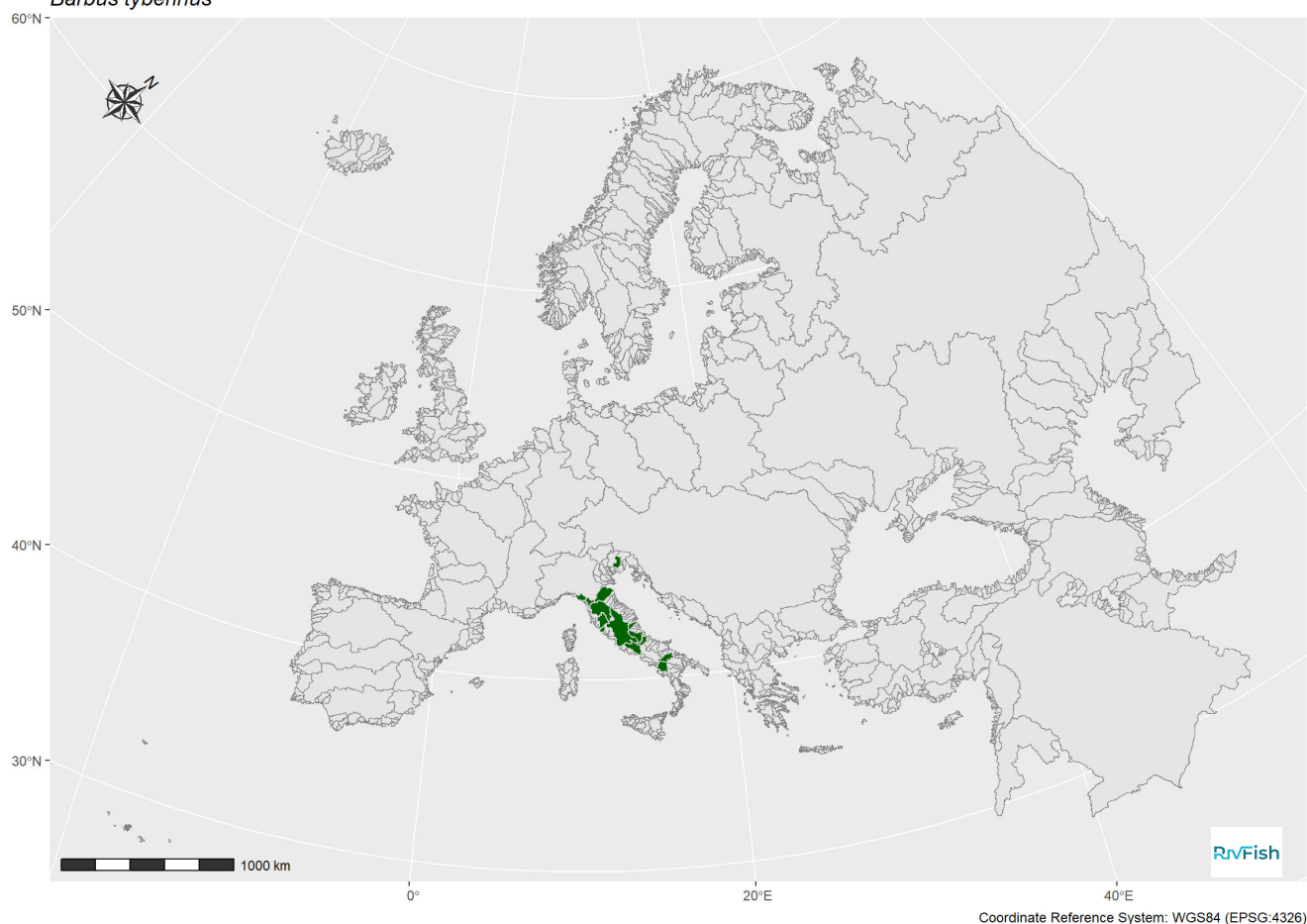
Barbus tauricus



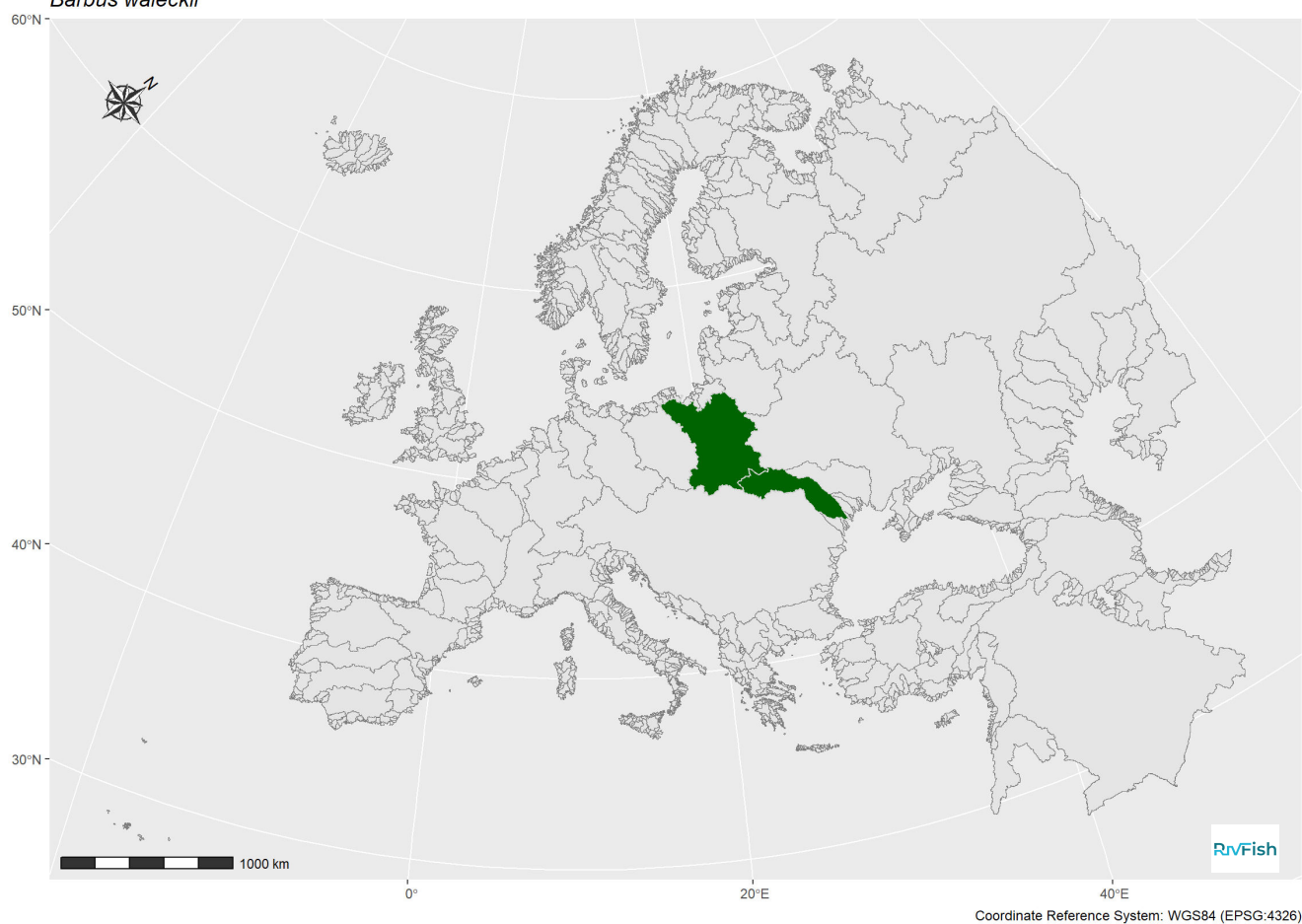
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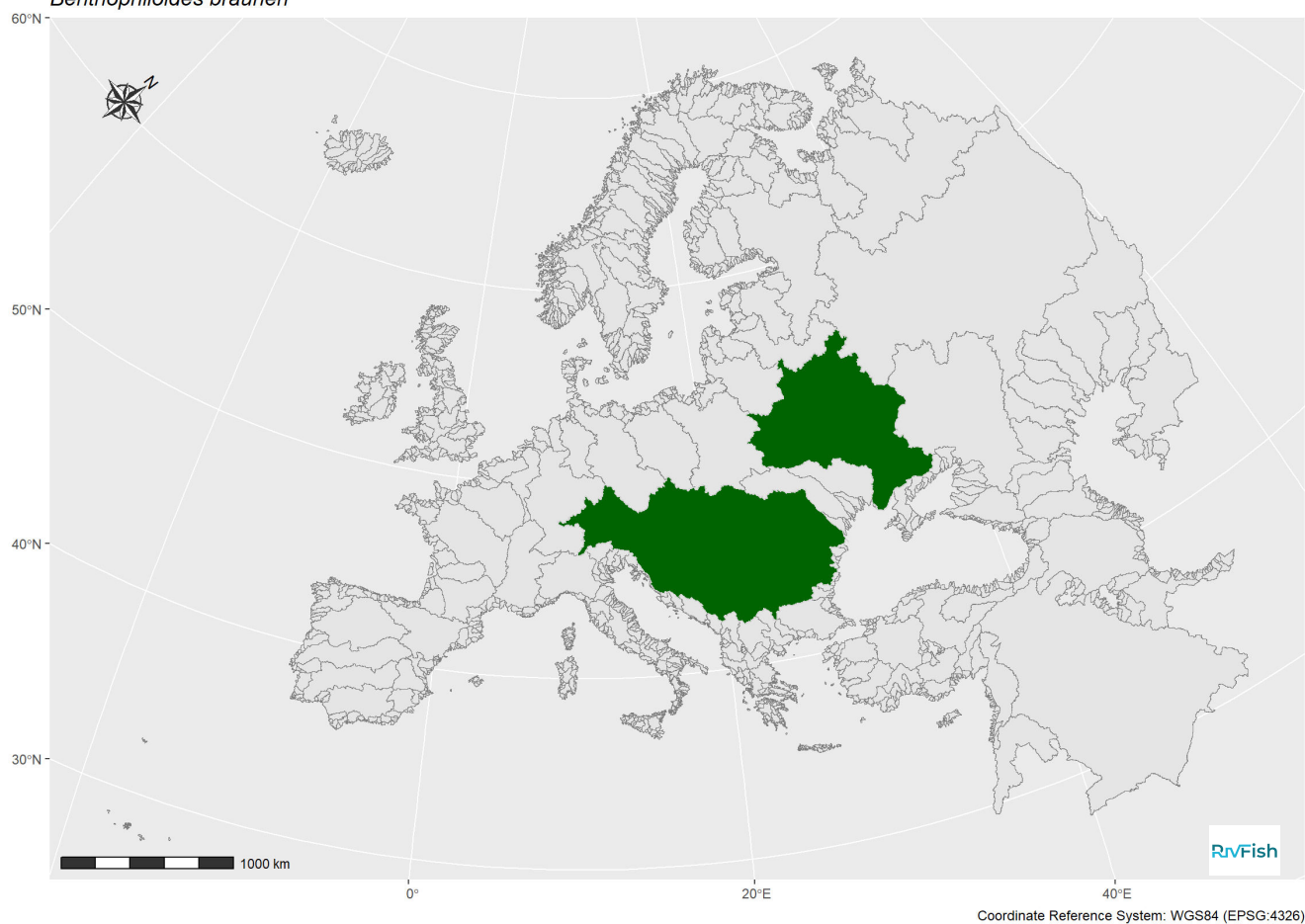
Barbus tyberinus



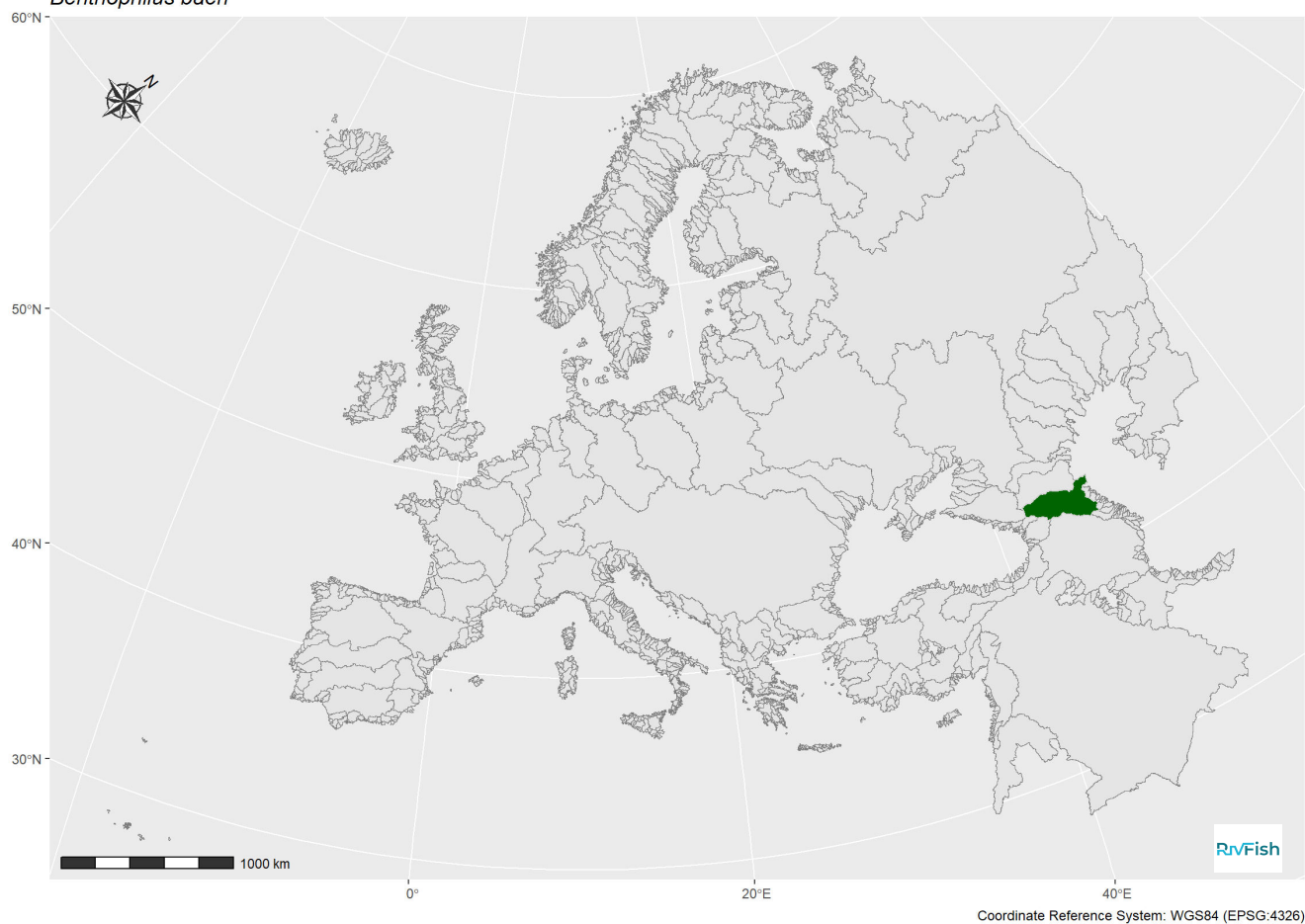
Barbus waleckii



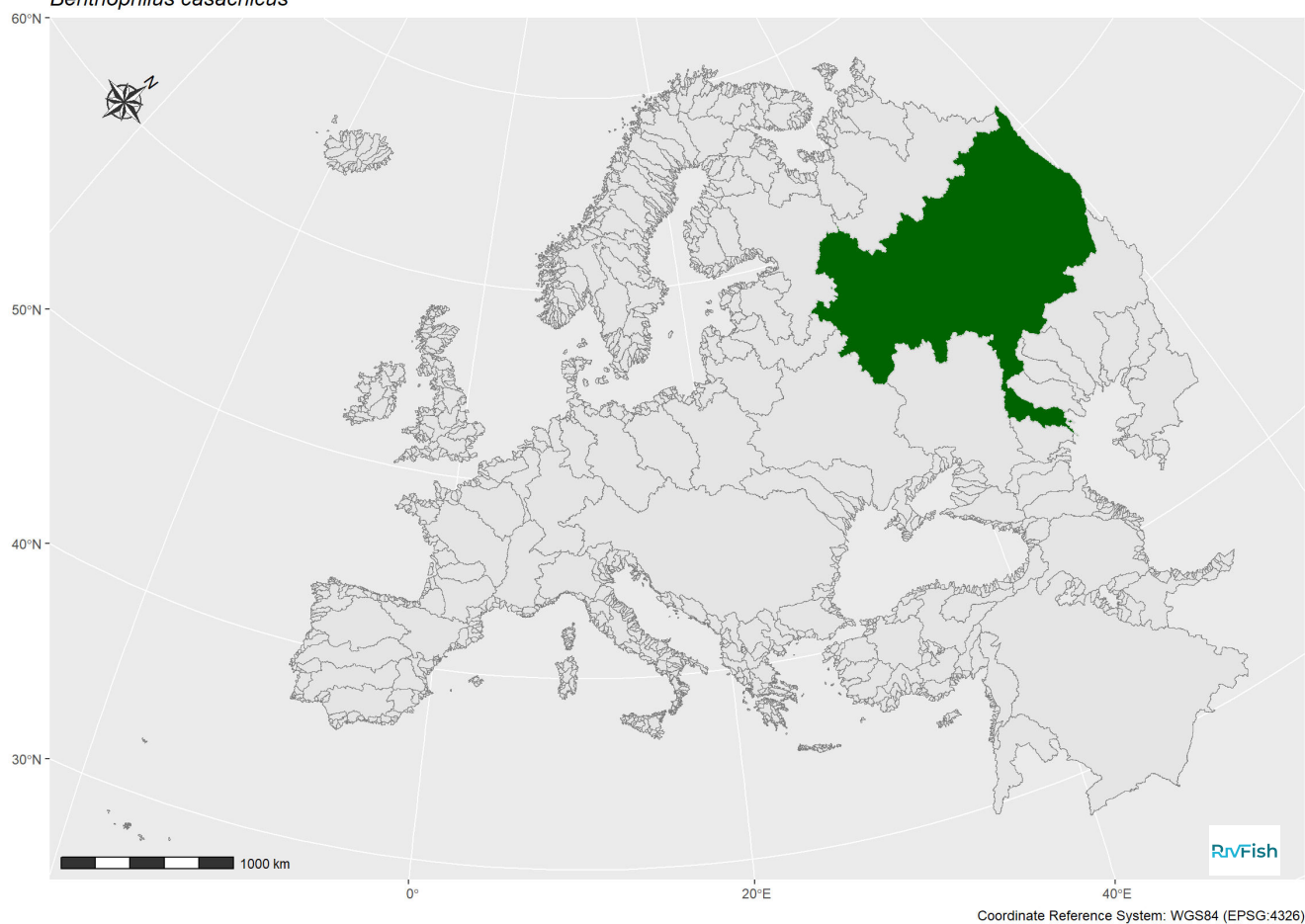
Benthophiloides braueri



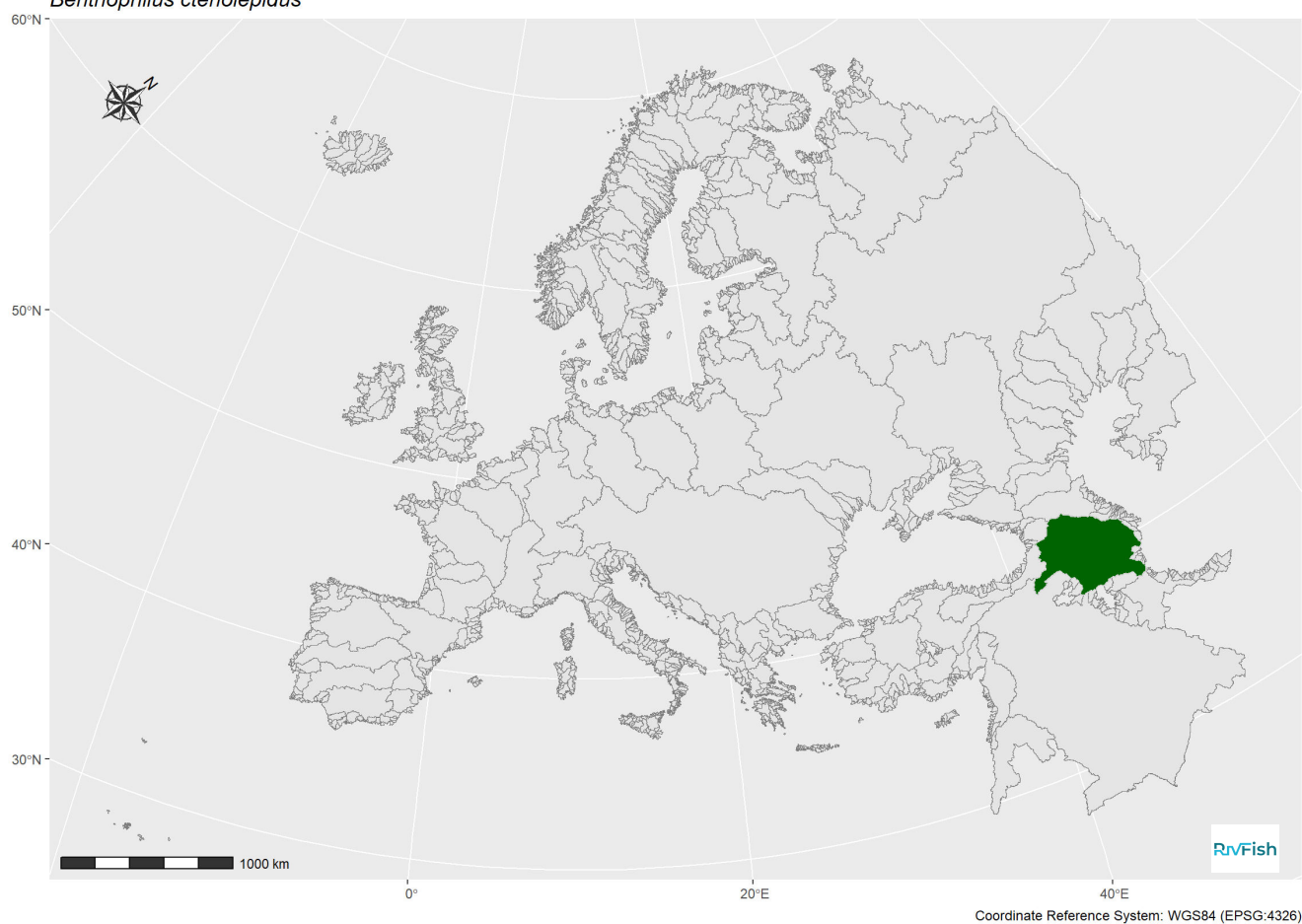
Benthophilus baeri



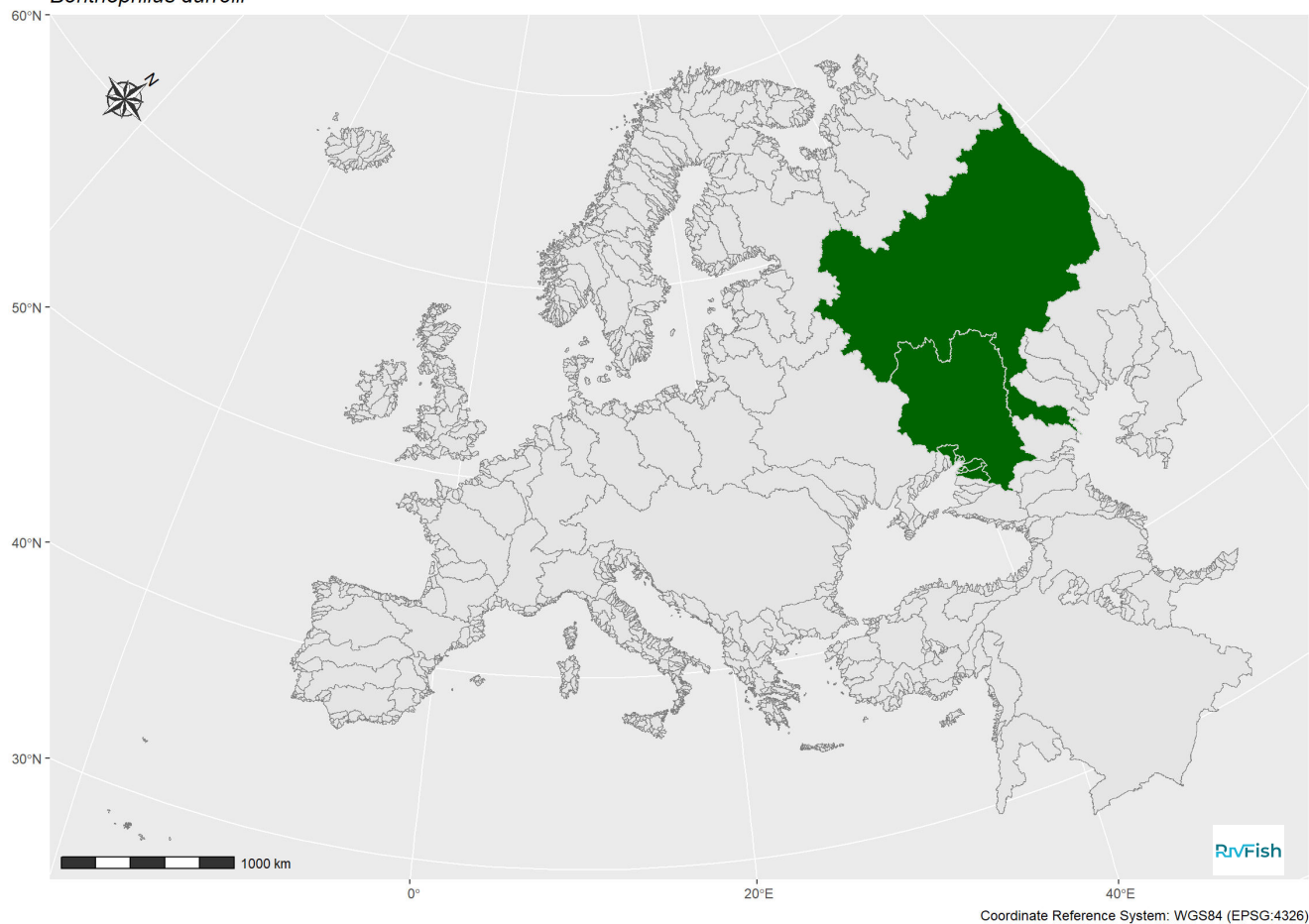
Benthophilus casachicus



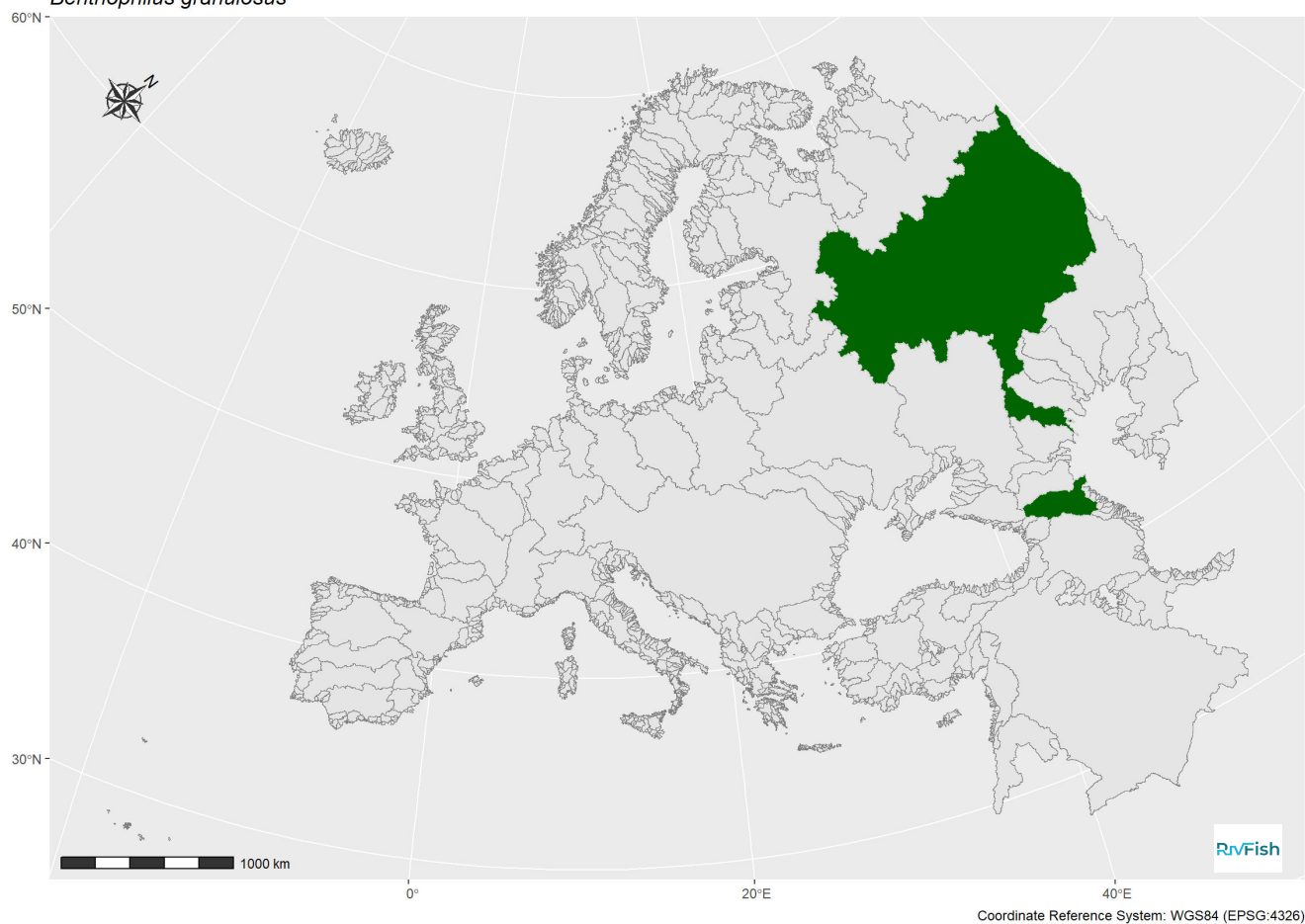
Benthophilus ctenolepidus



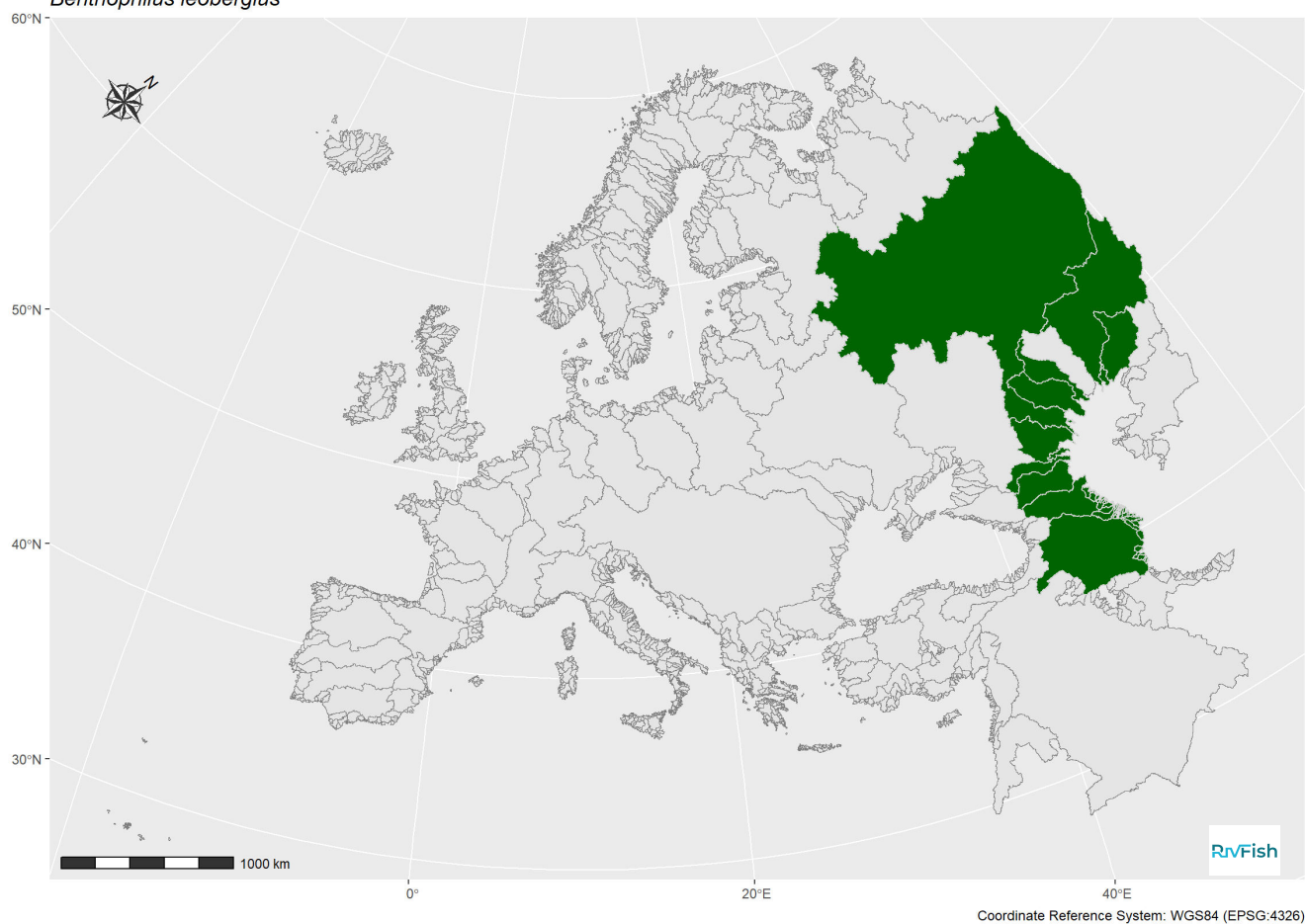
Benthophilus durrelli



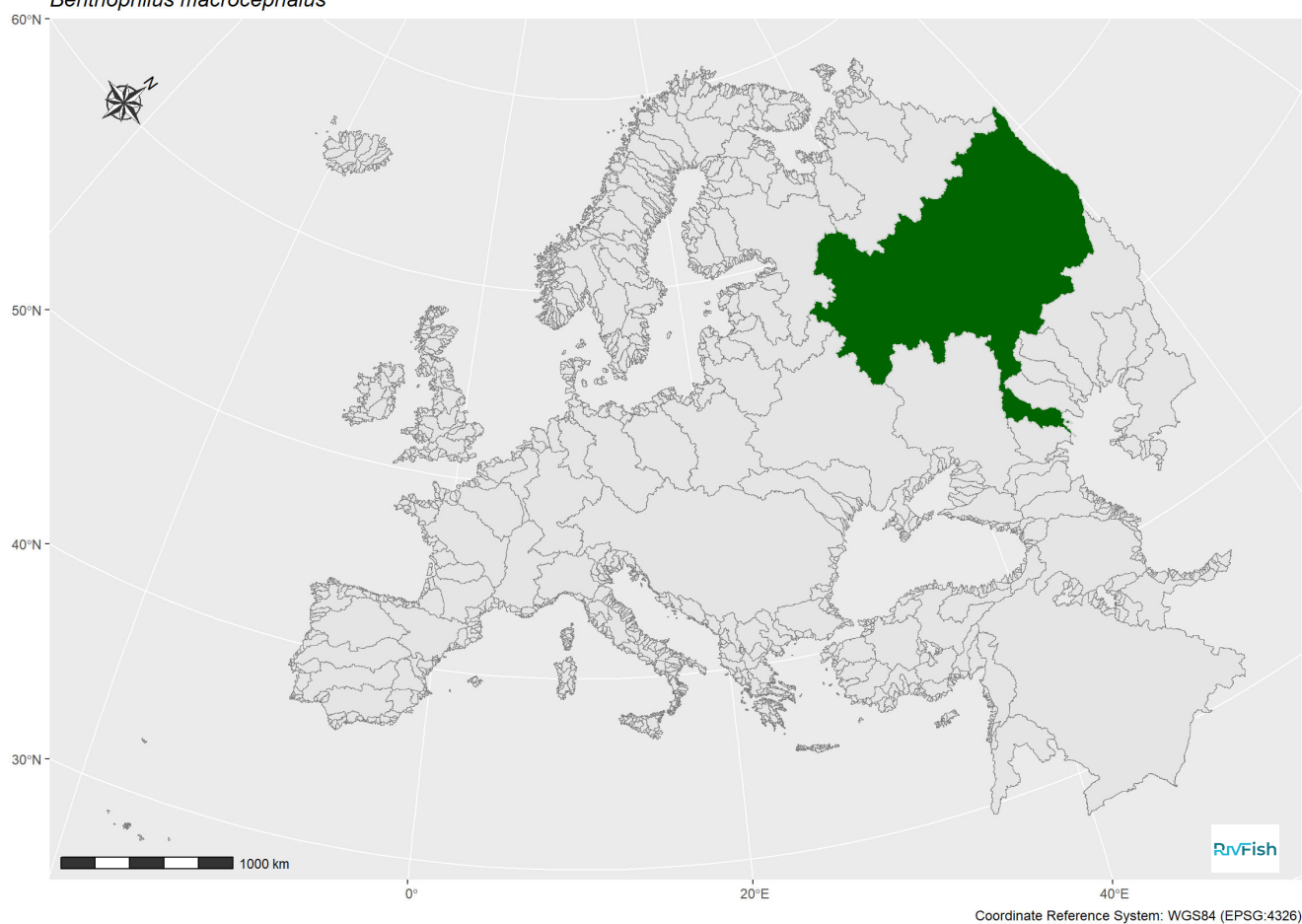
Benthophilus granulosus



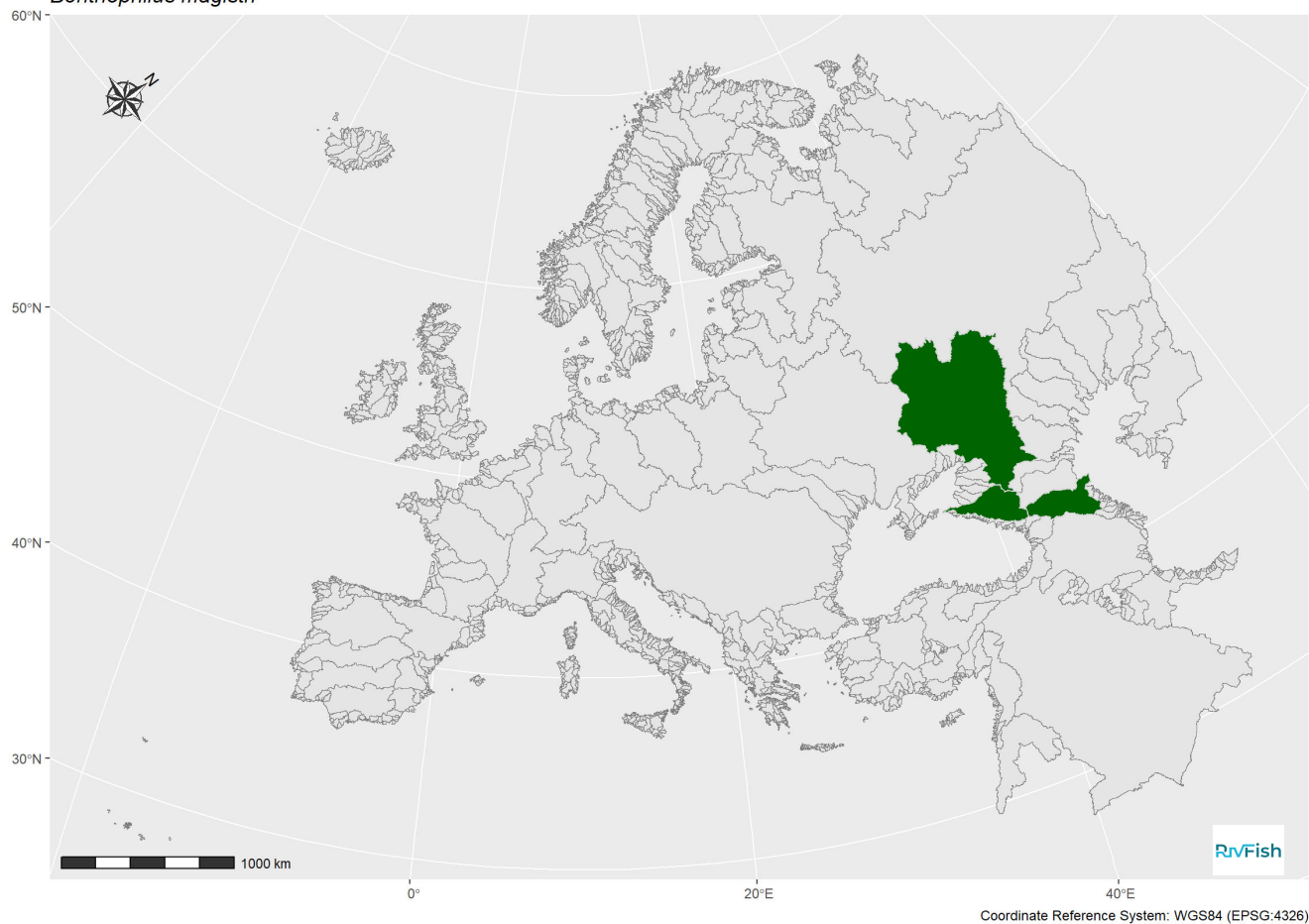
Benthophilus leobergius



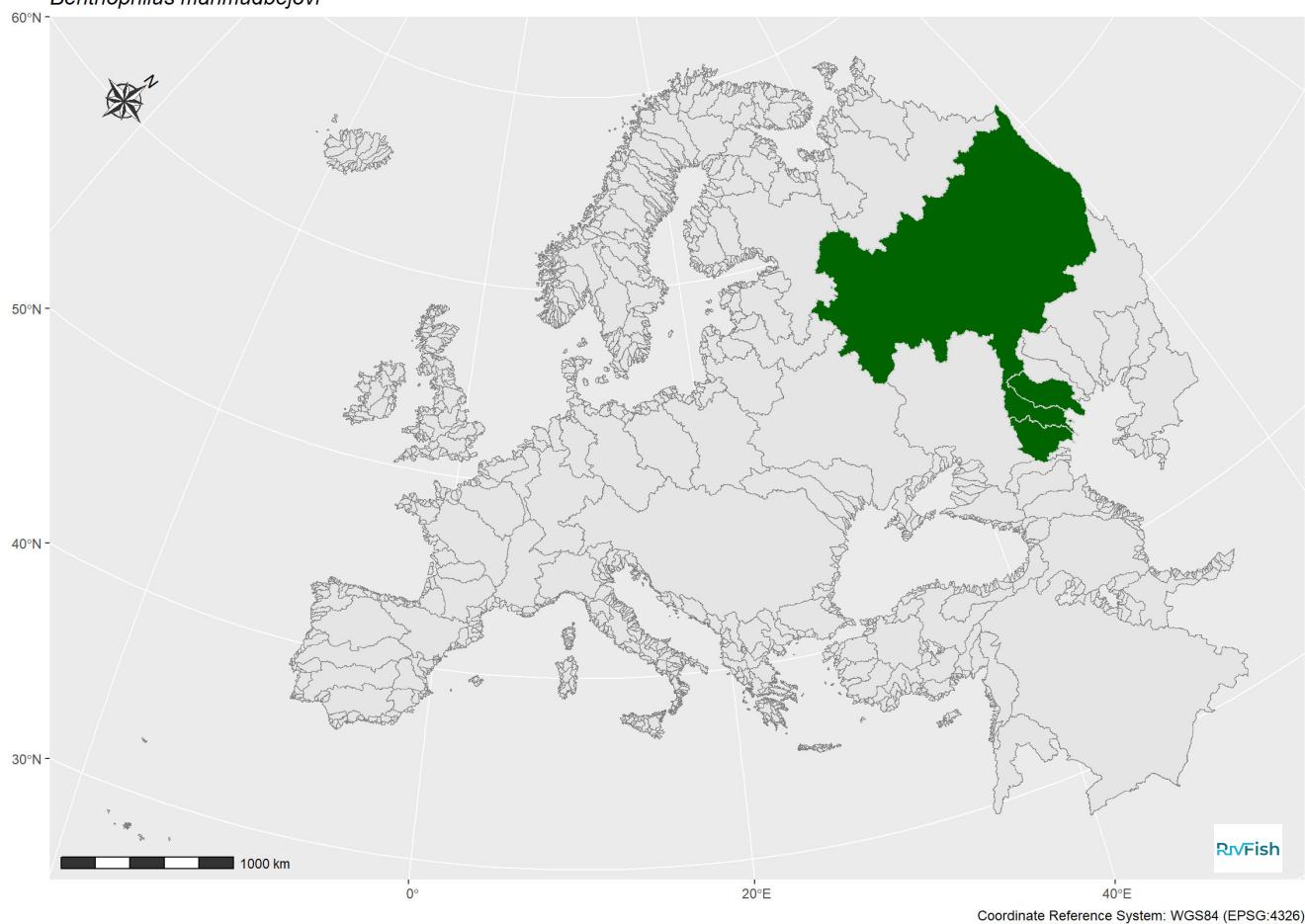
Benthophilus macrocephalus



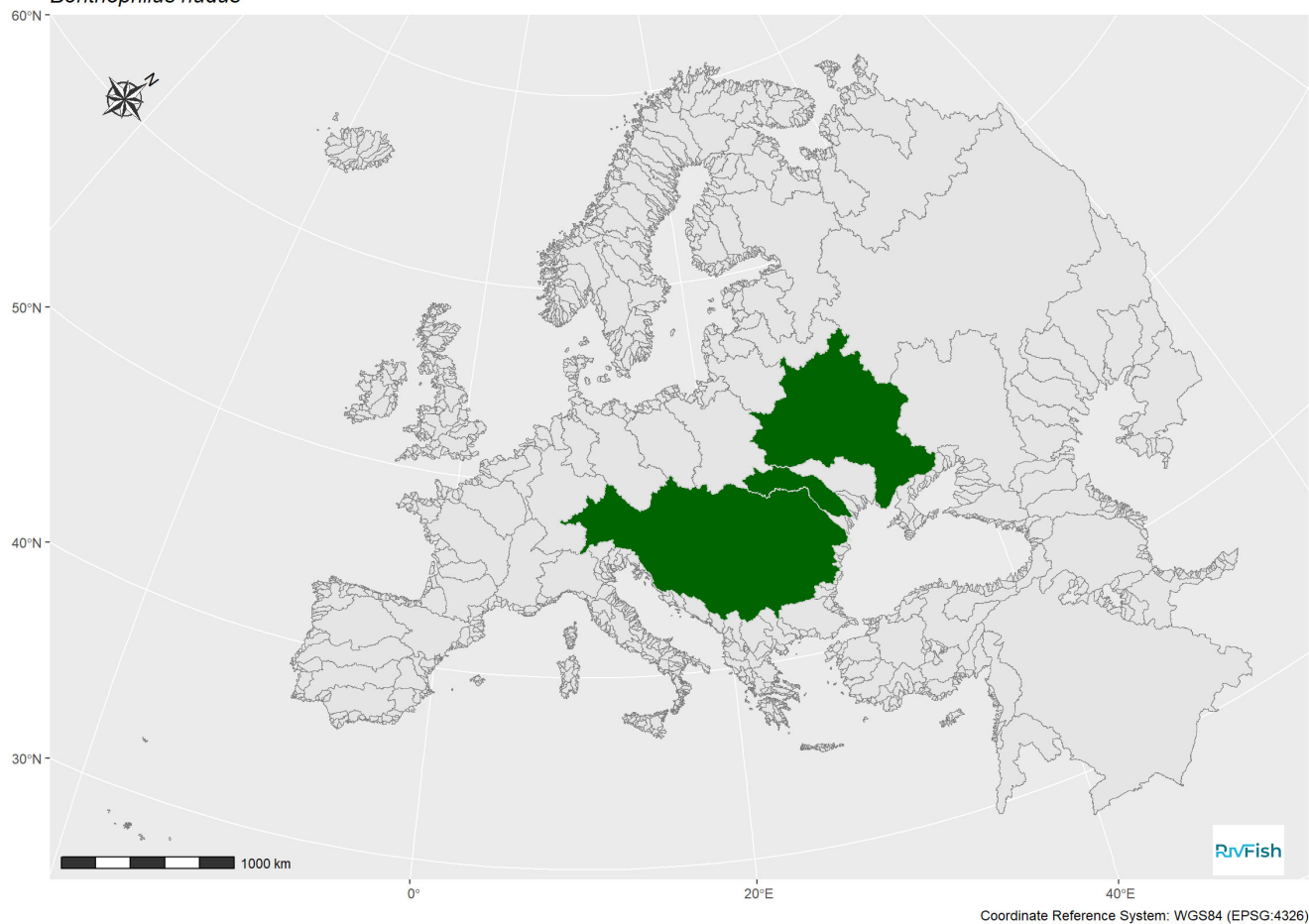
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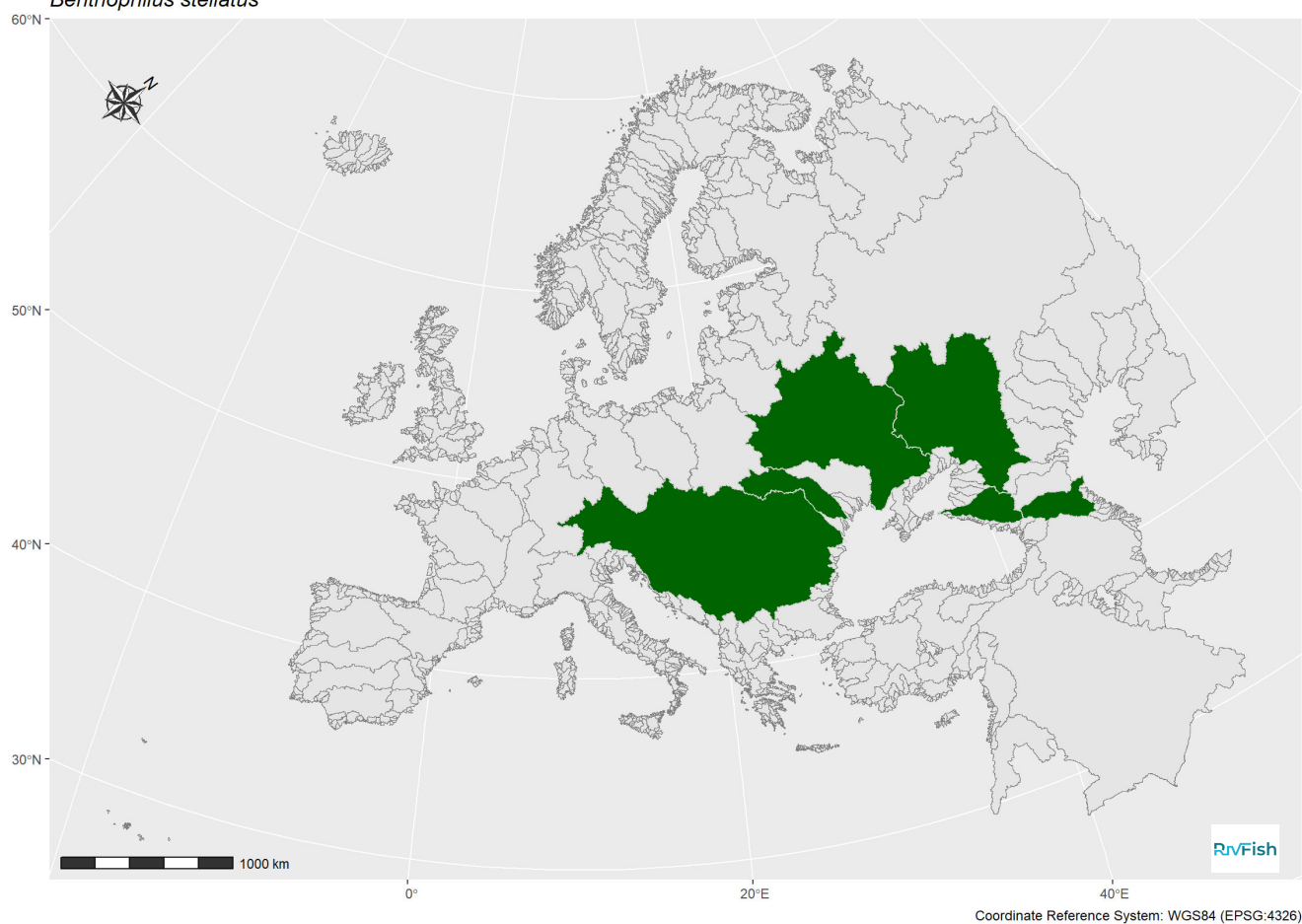
Benthophilus mahmudbejovi

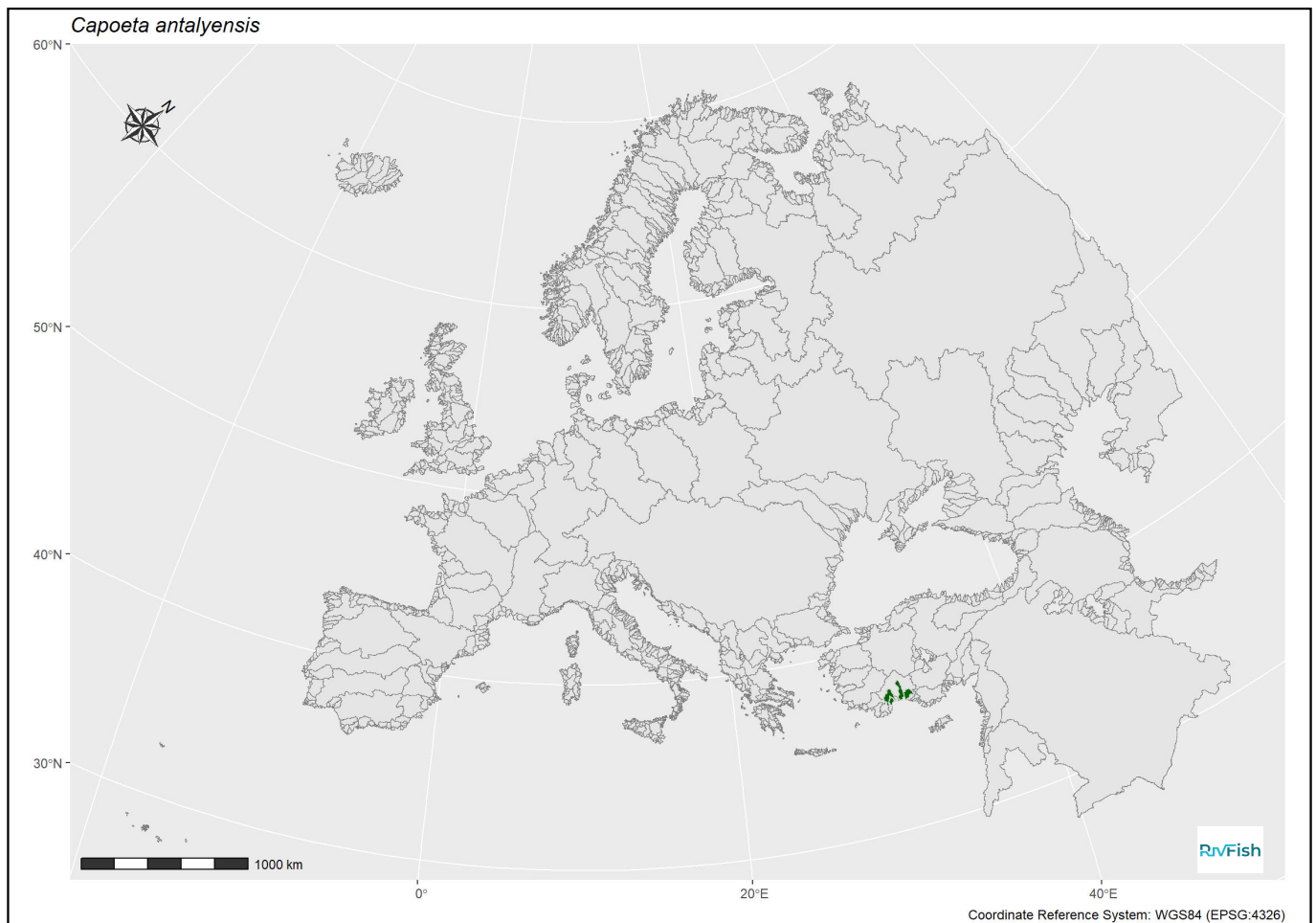
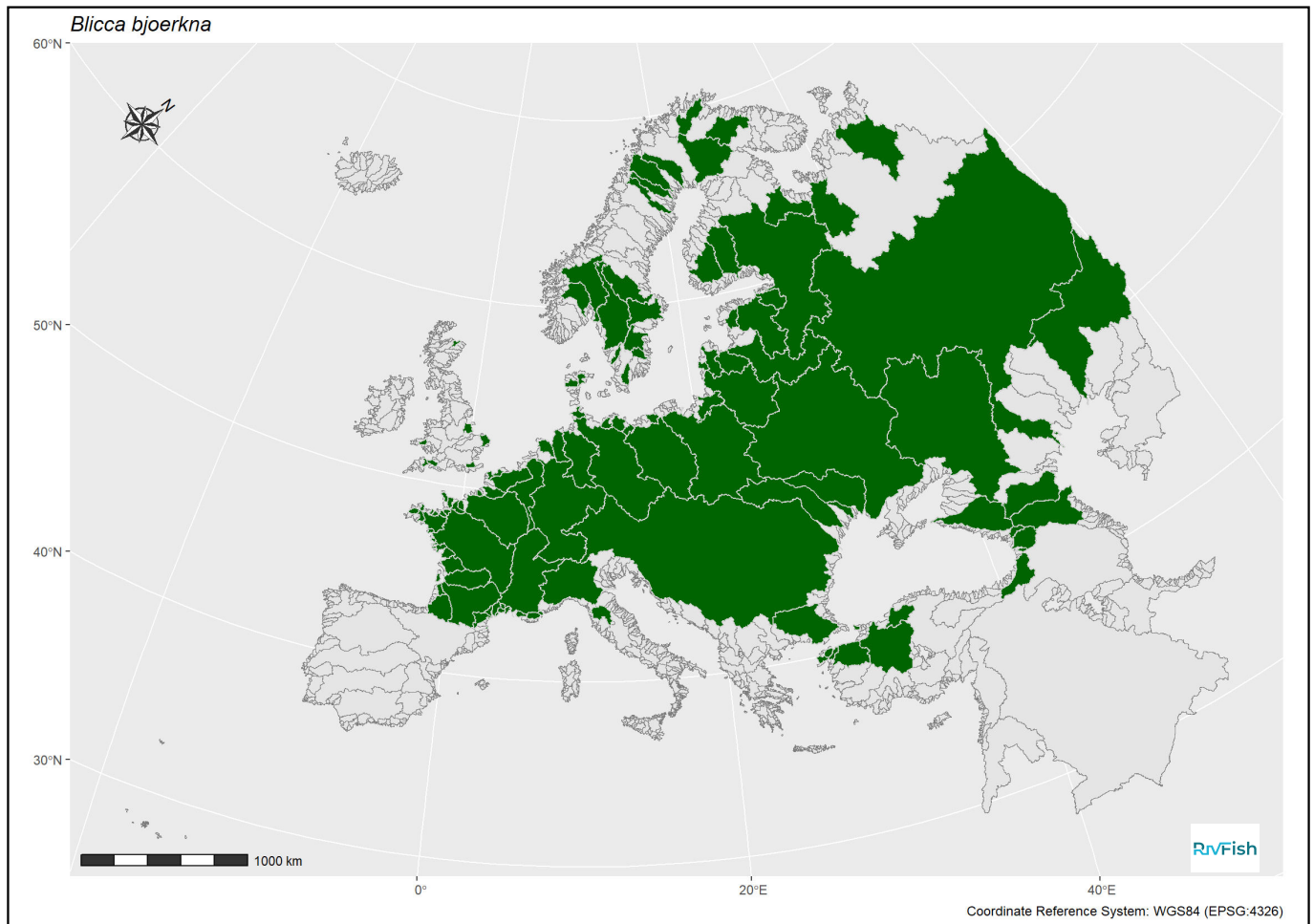


Benthophilus nudus

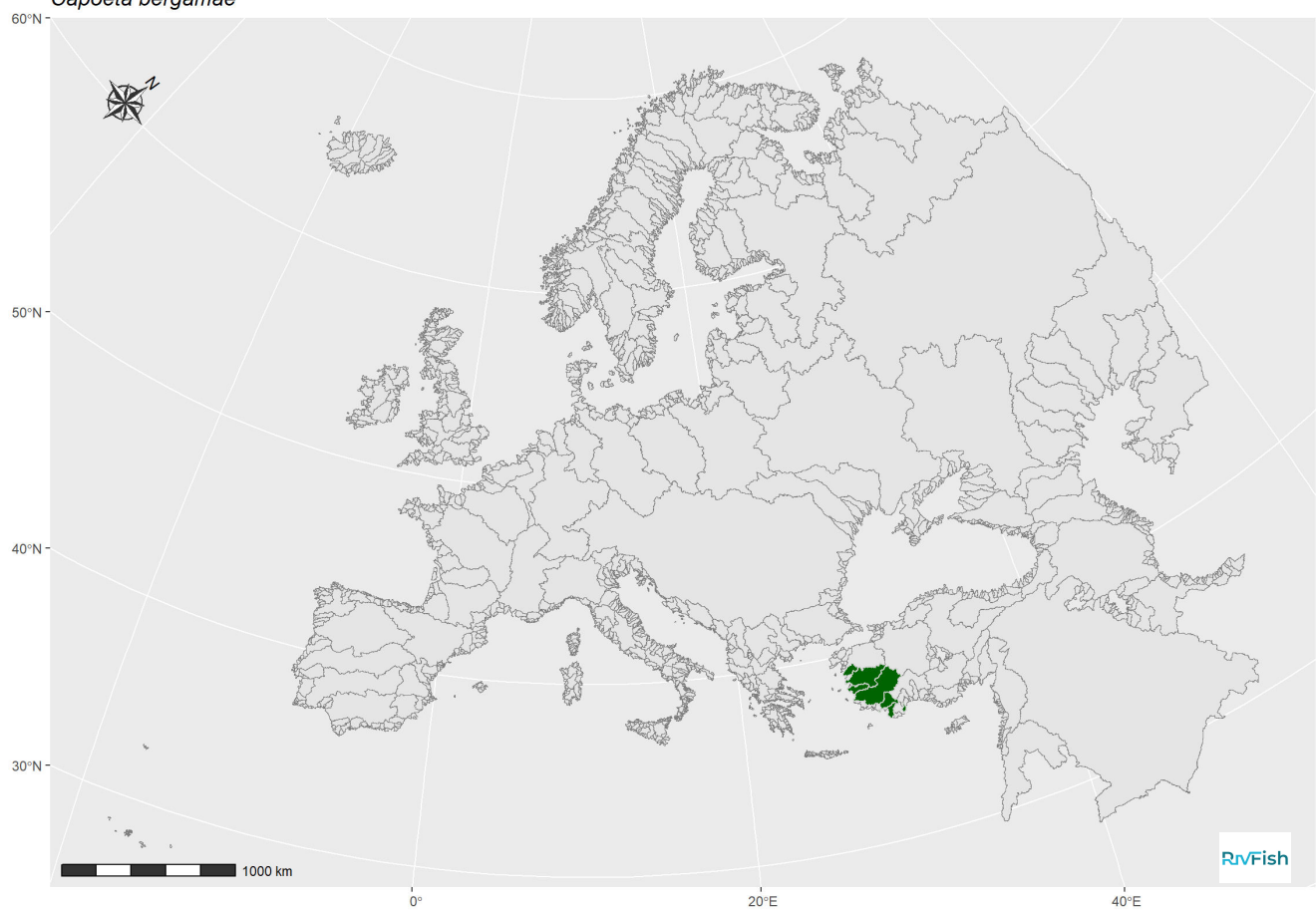


Benthophilus stellatus



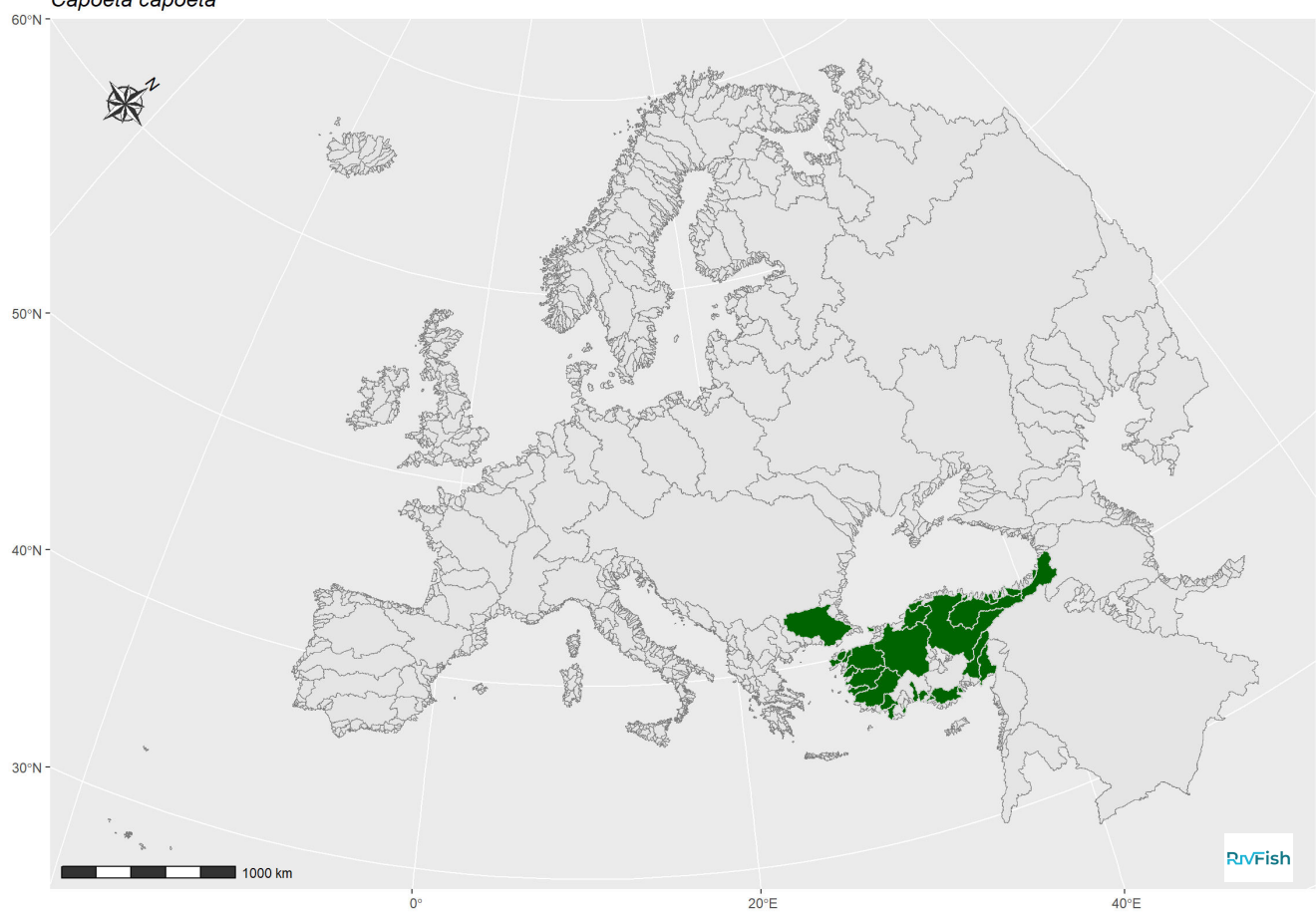


Capoeta bergamae



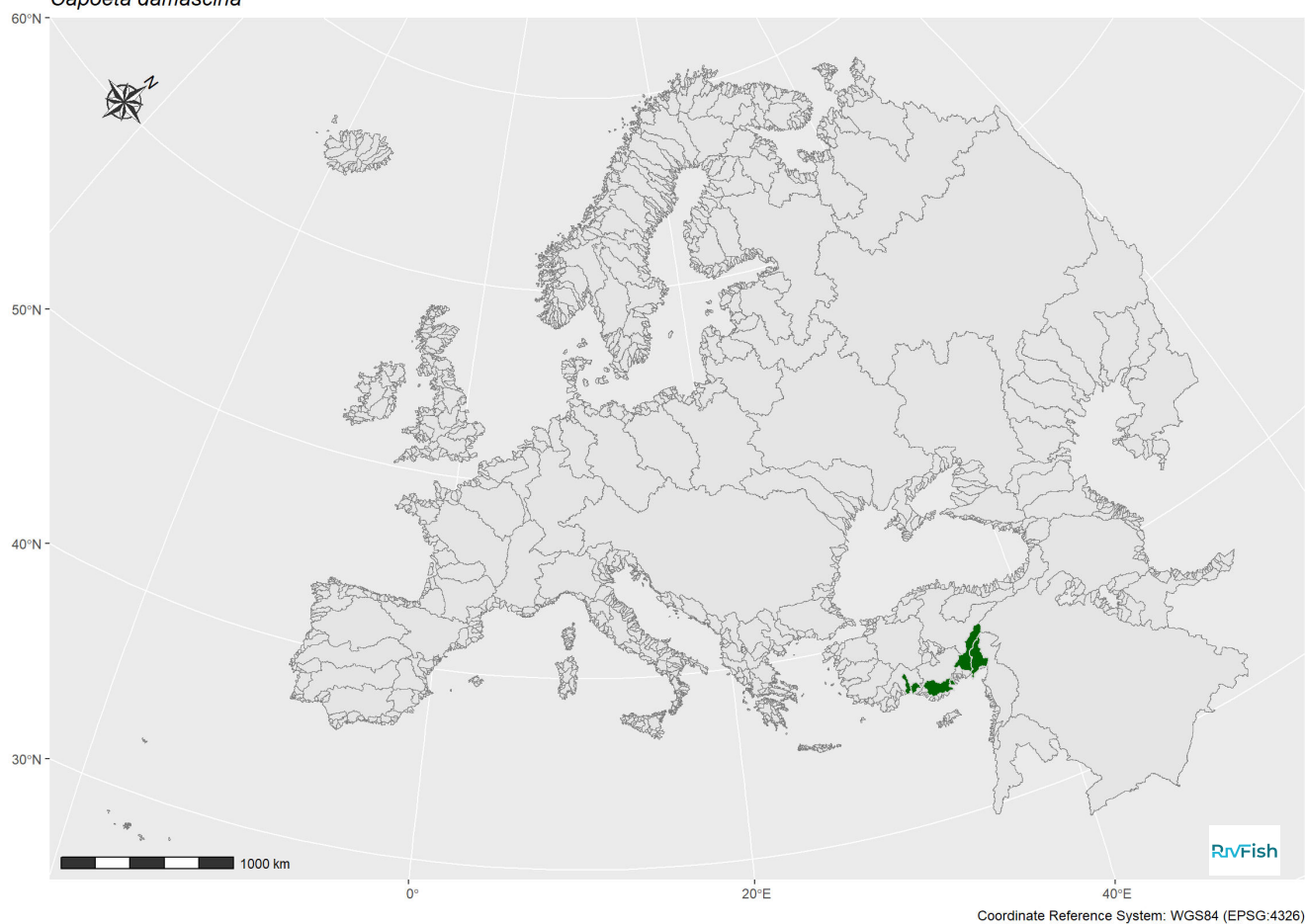
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Capoeta capoeta

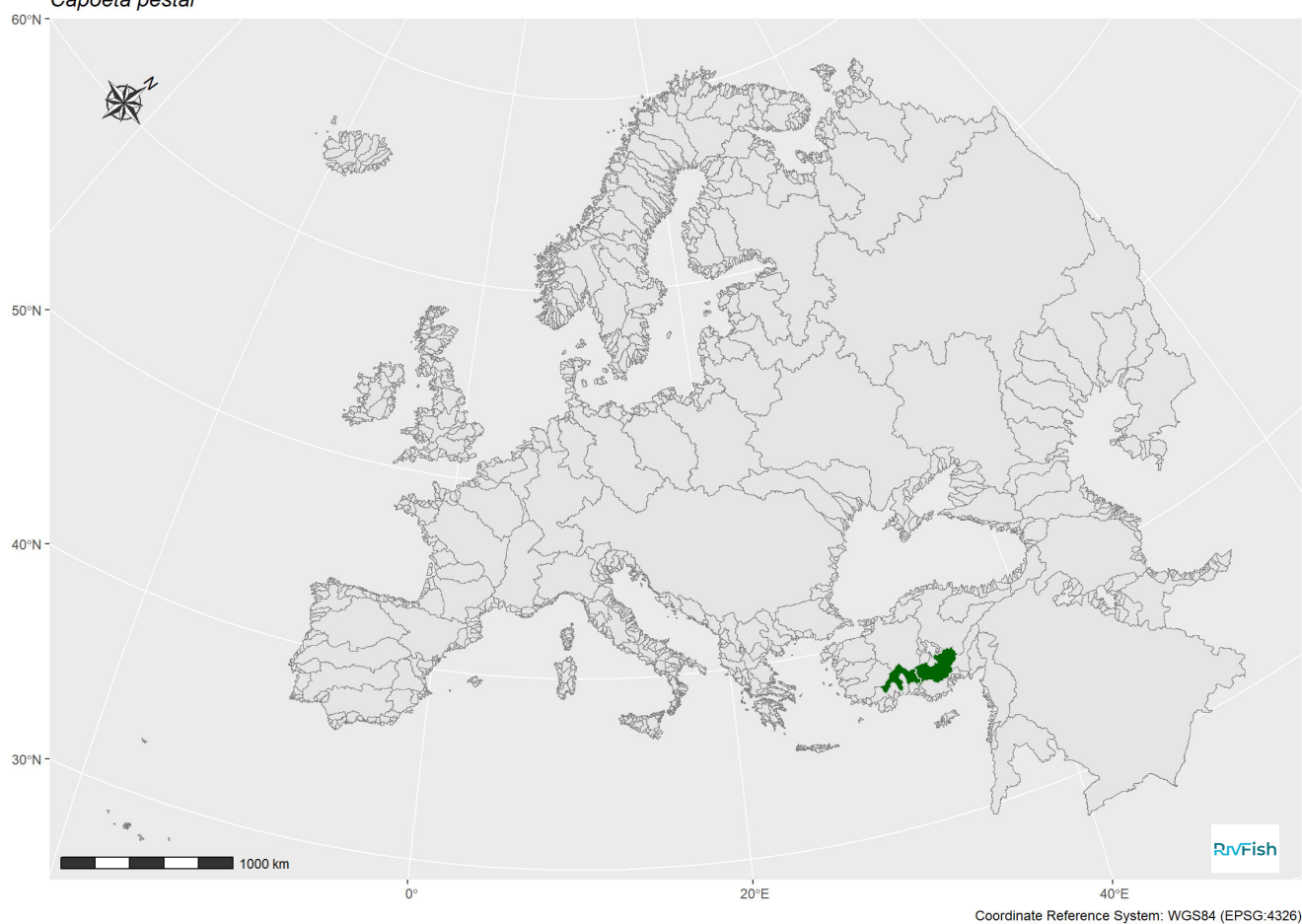


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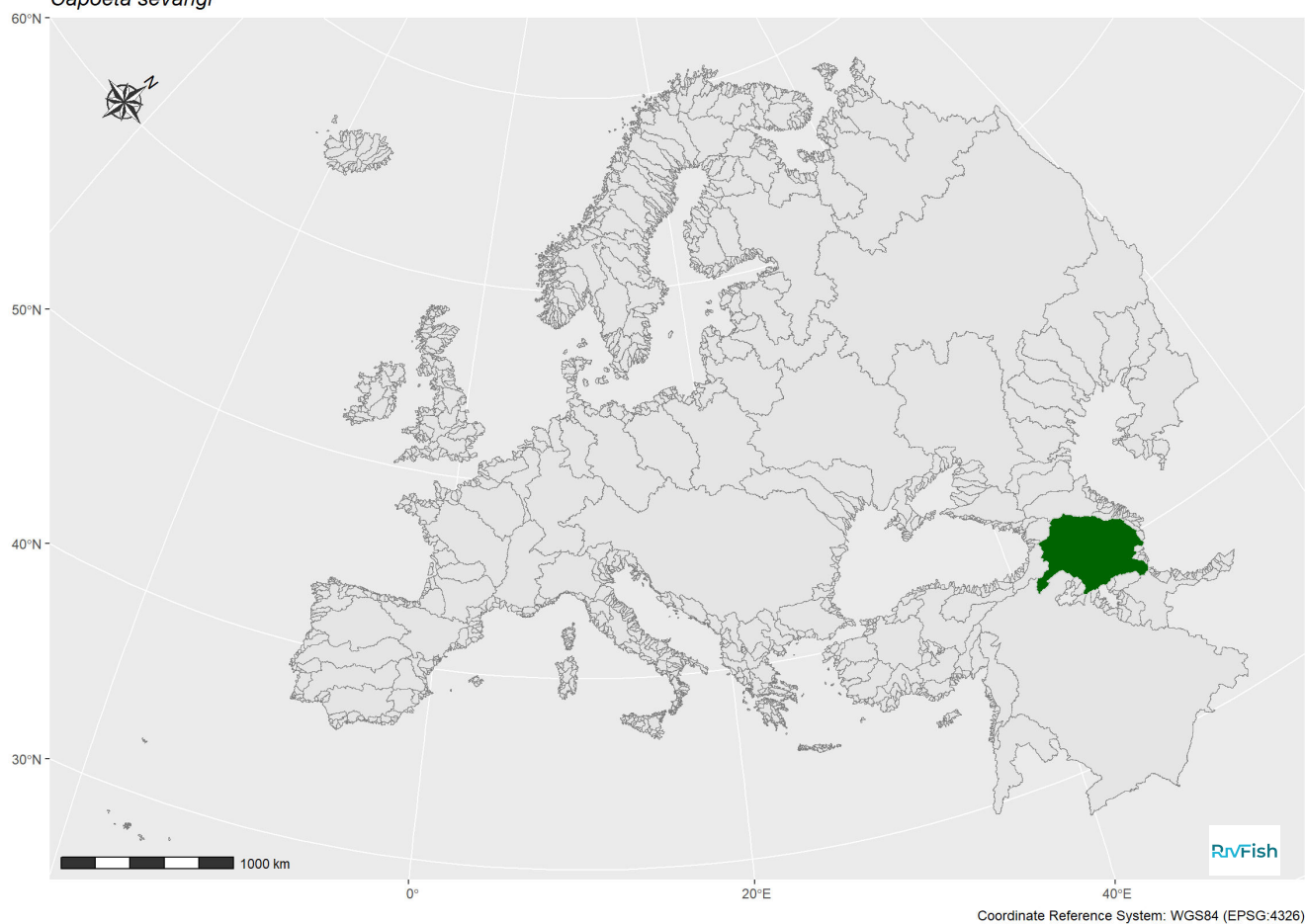
Capoeta damascina



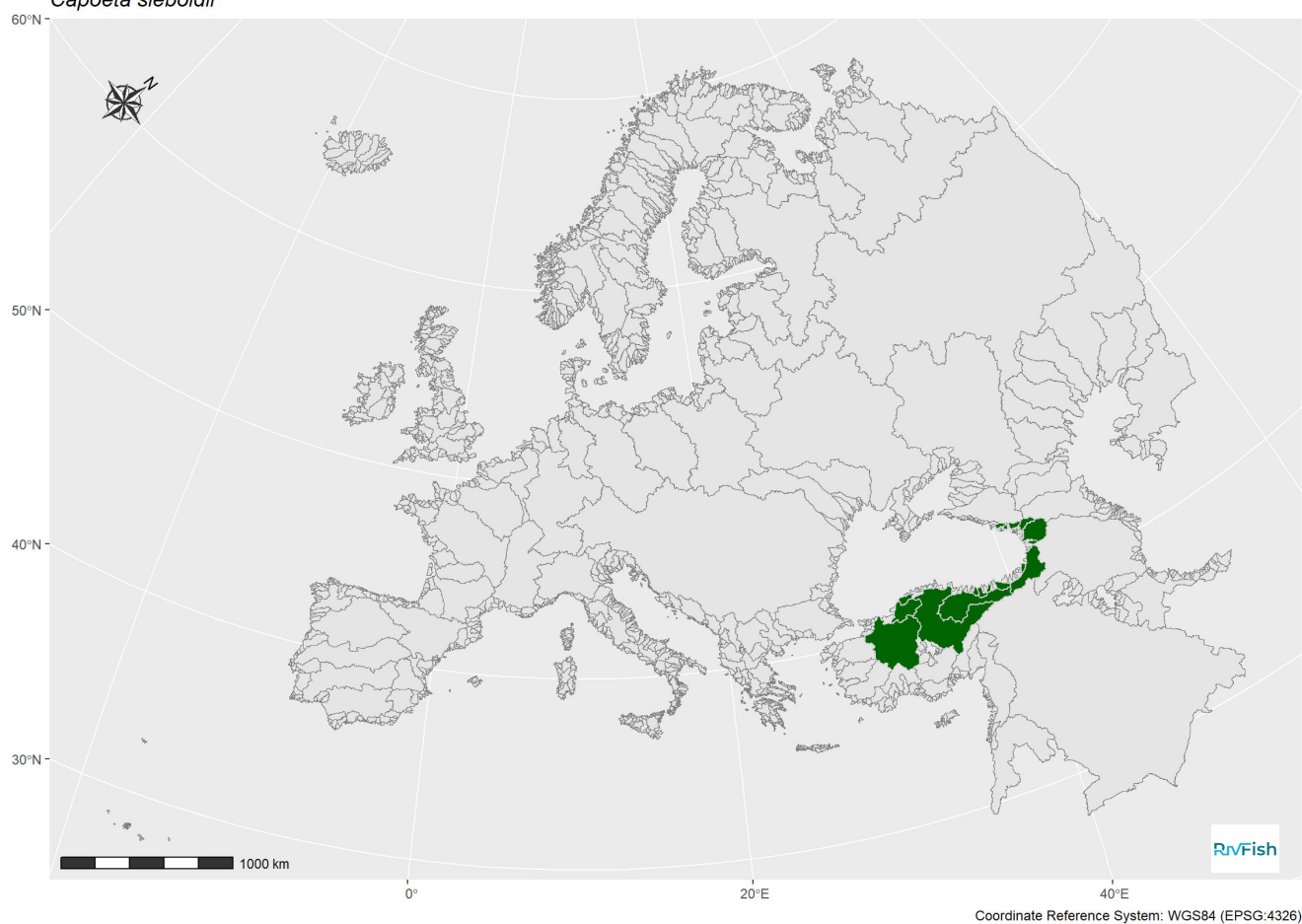
Capoeta pestai

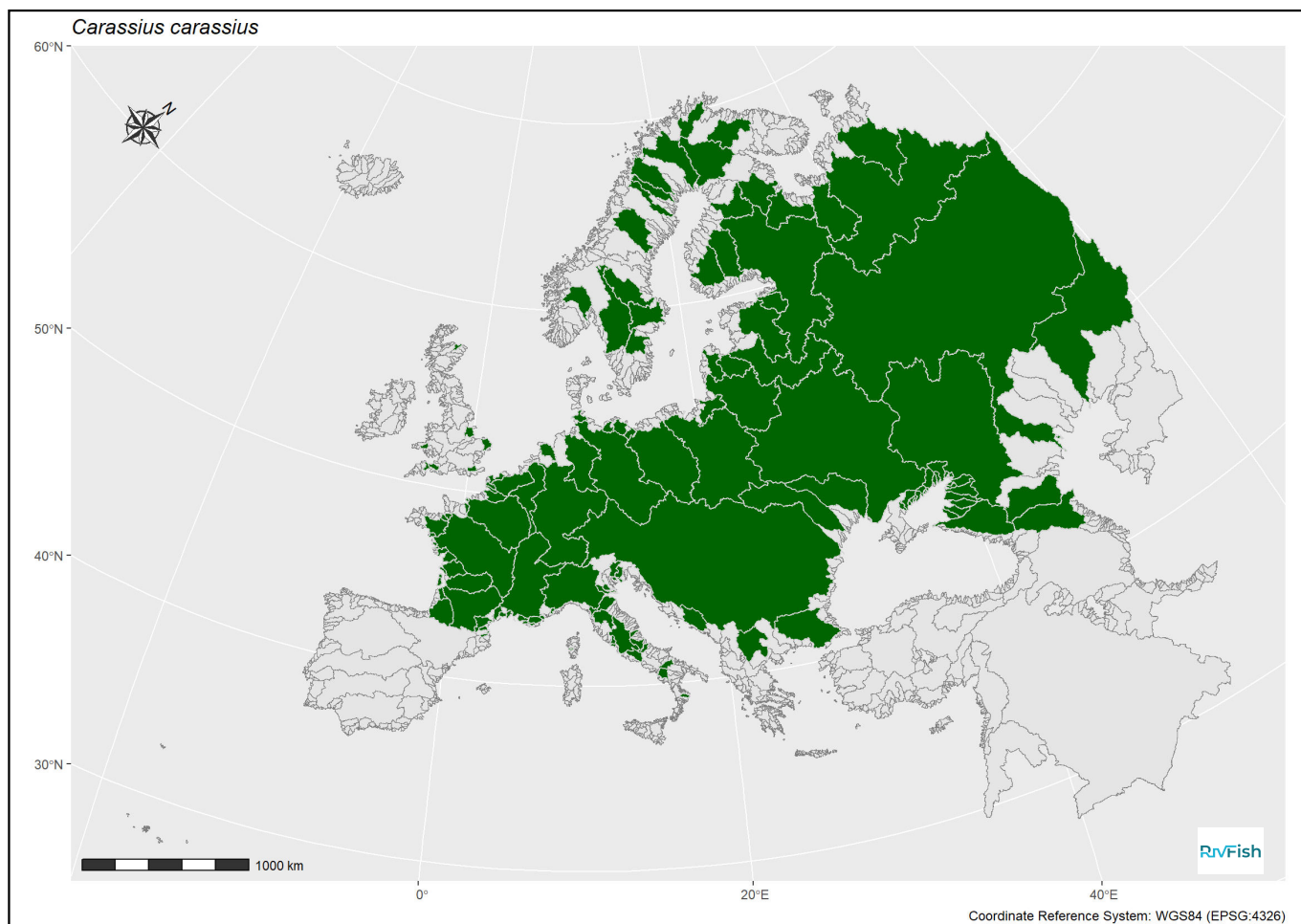
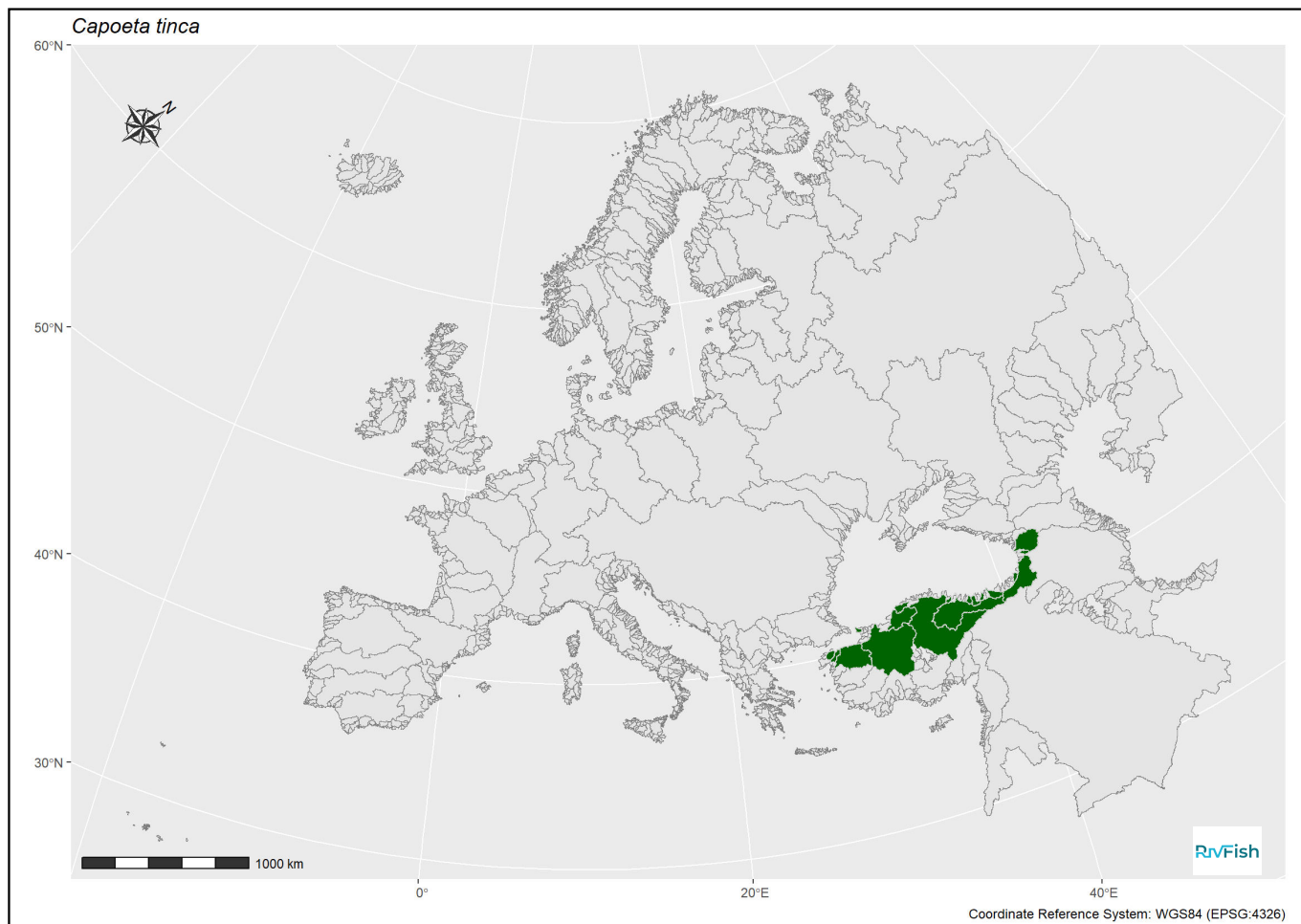


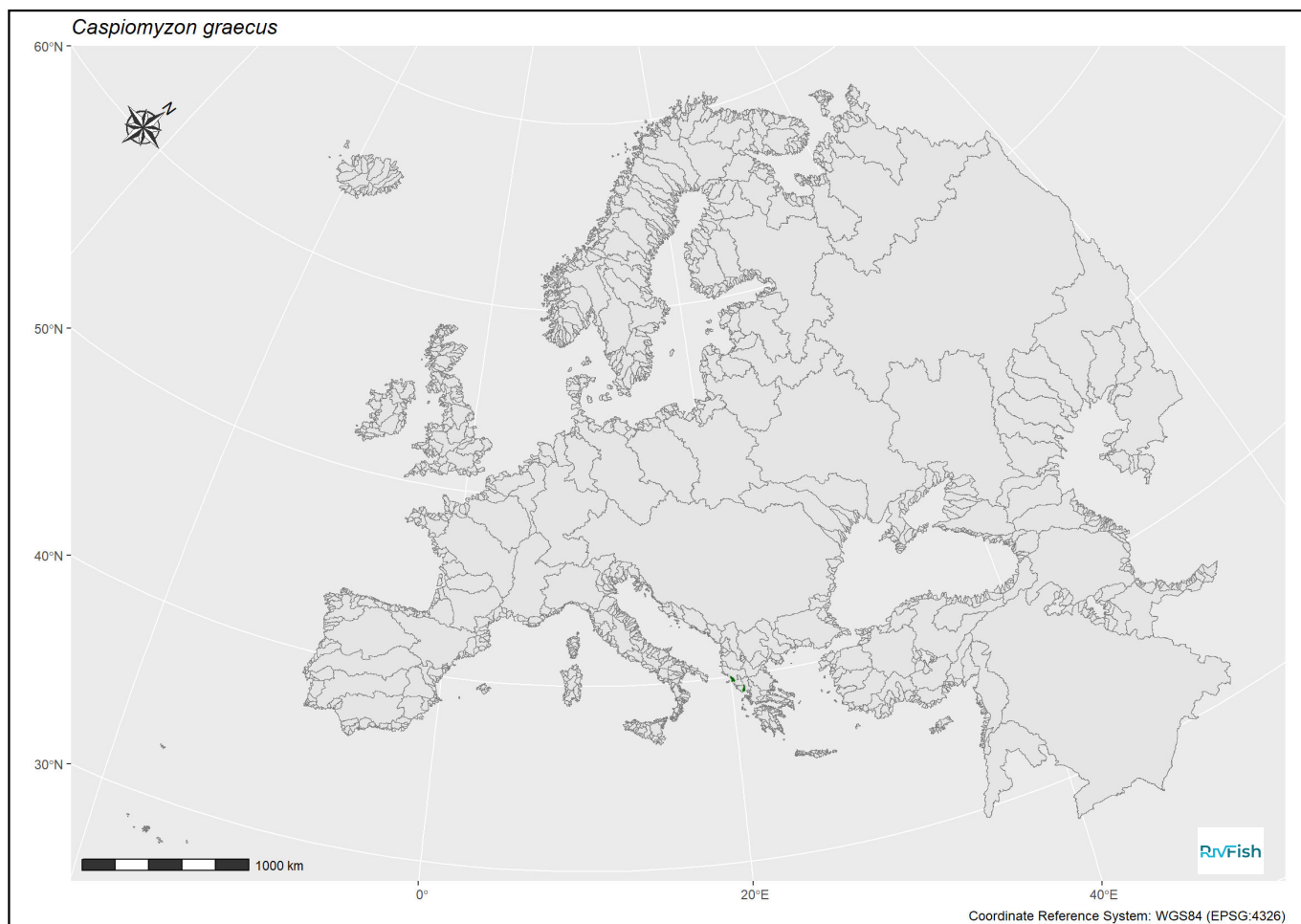
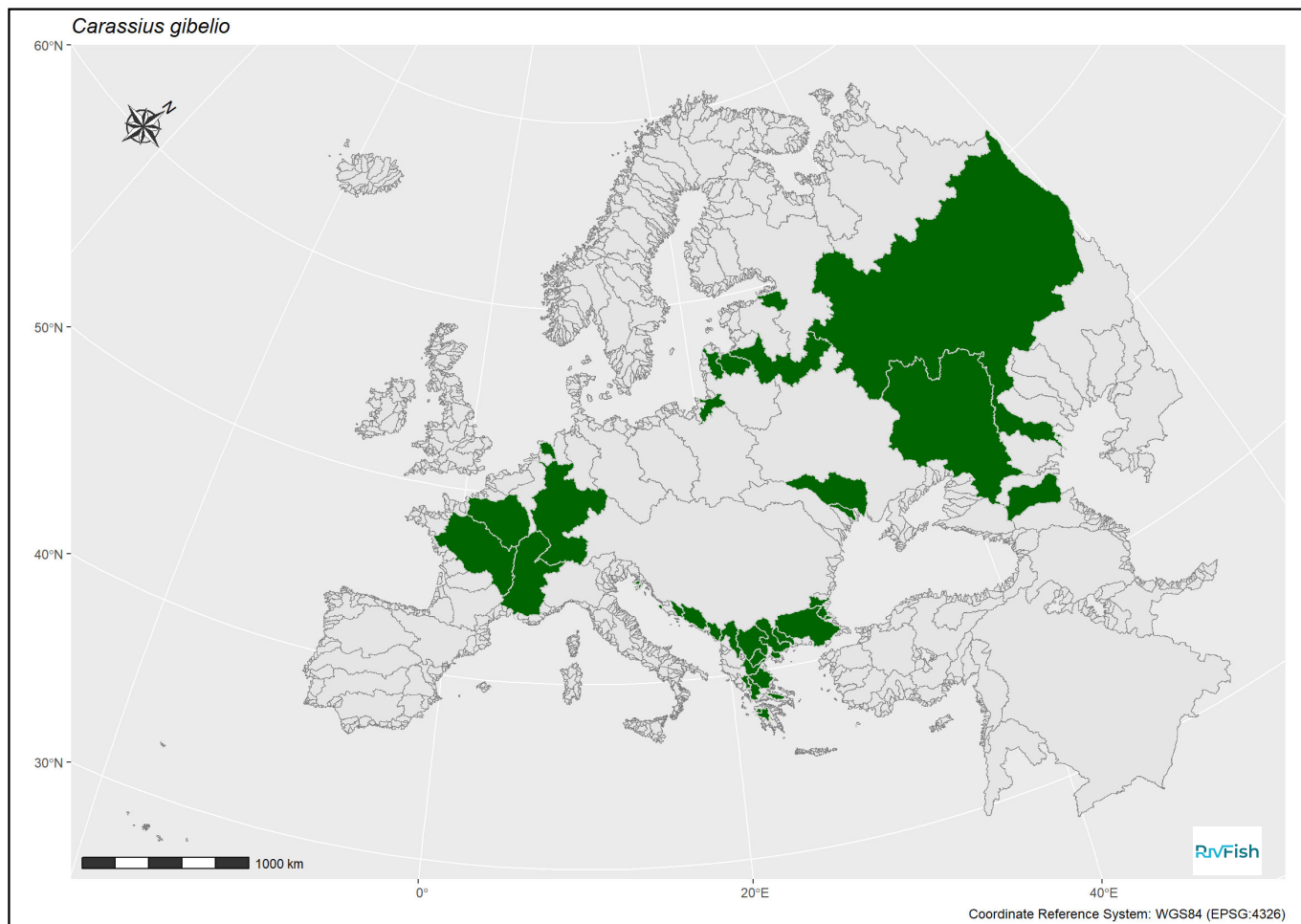
Capoeta sevangi



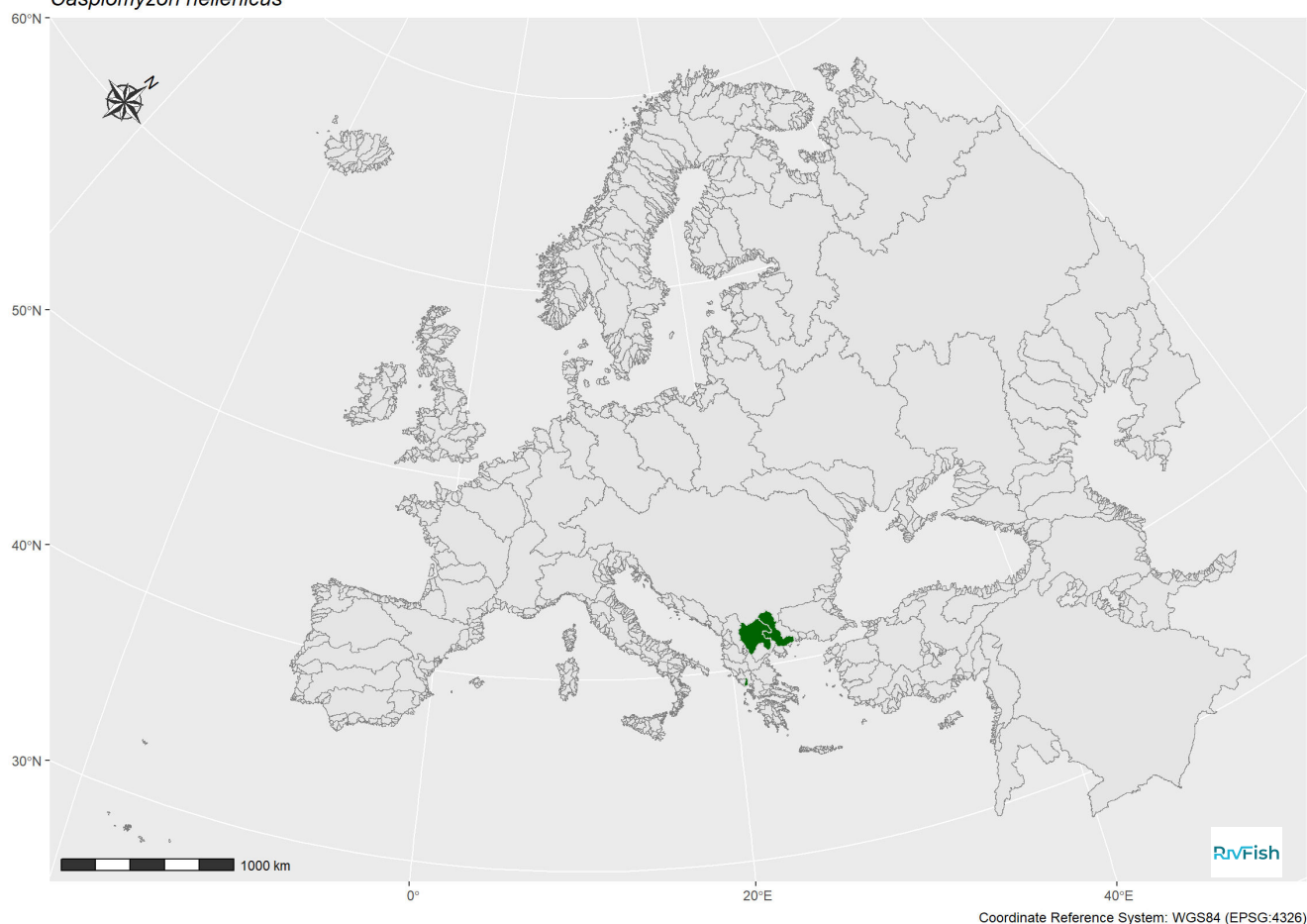
Capoeta sieboldii



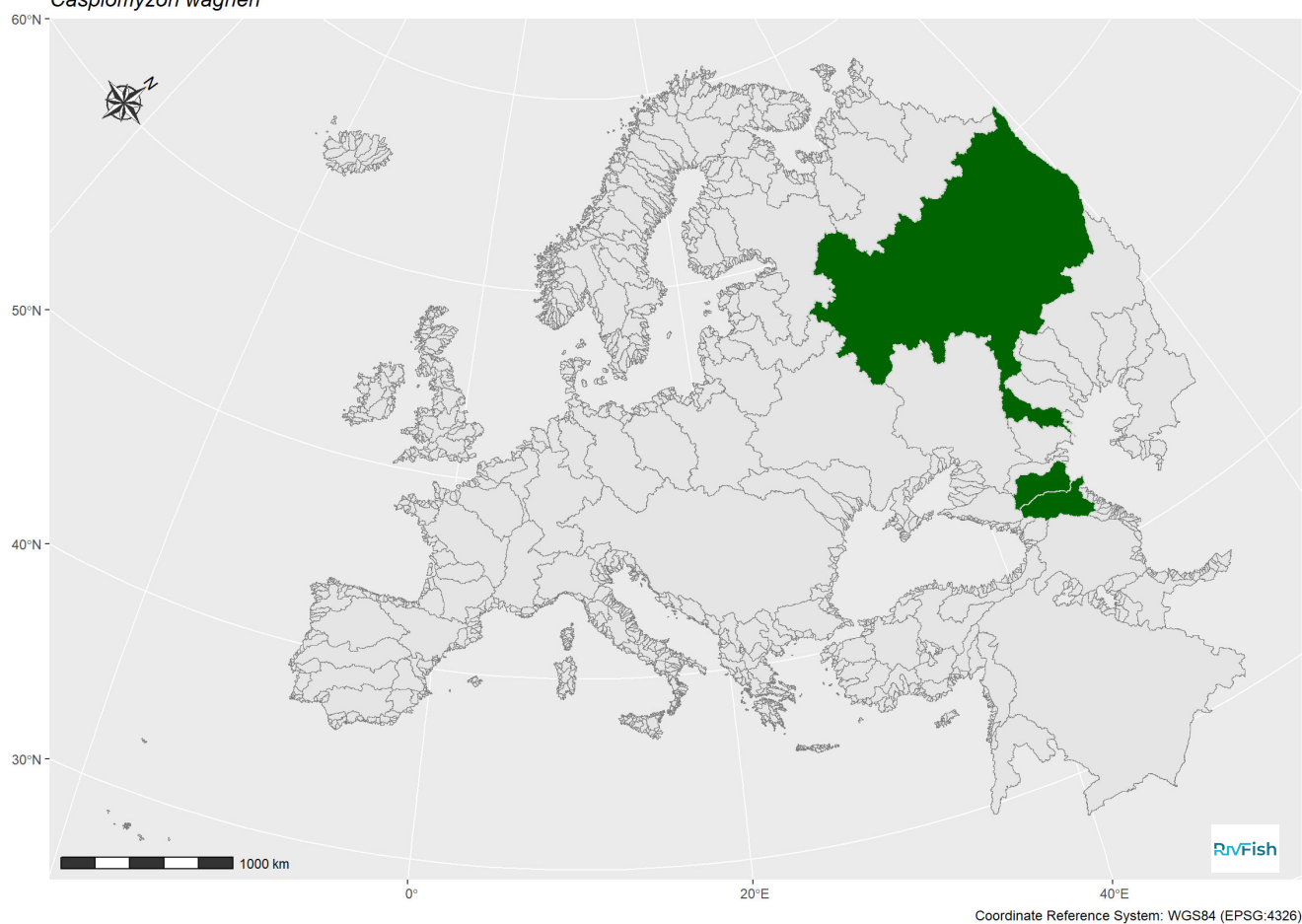


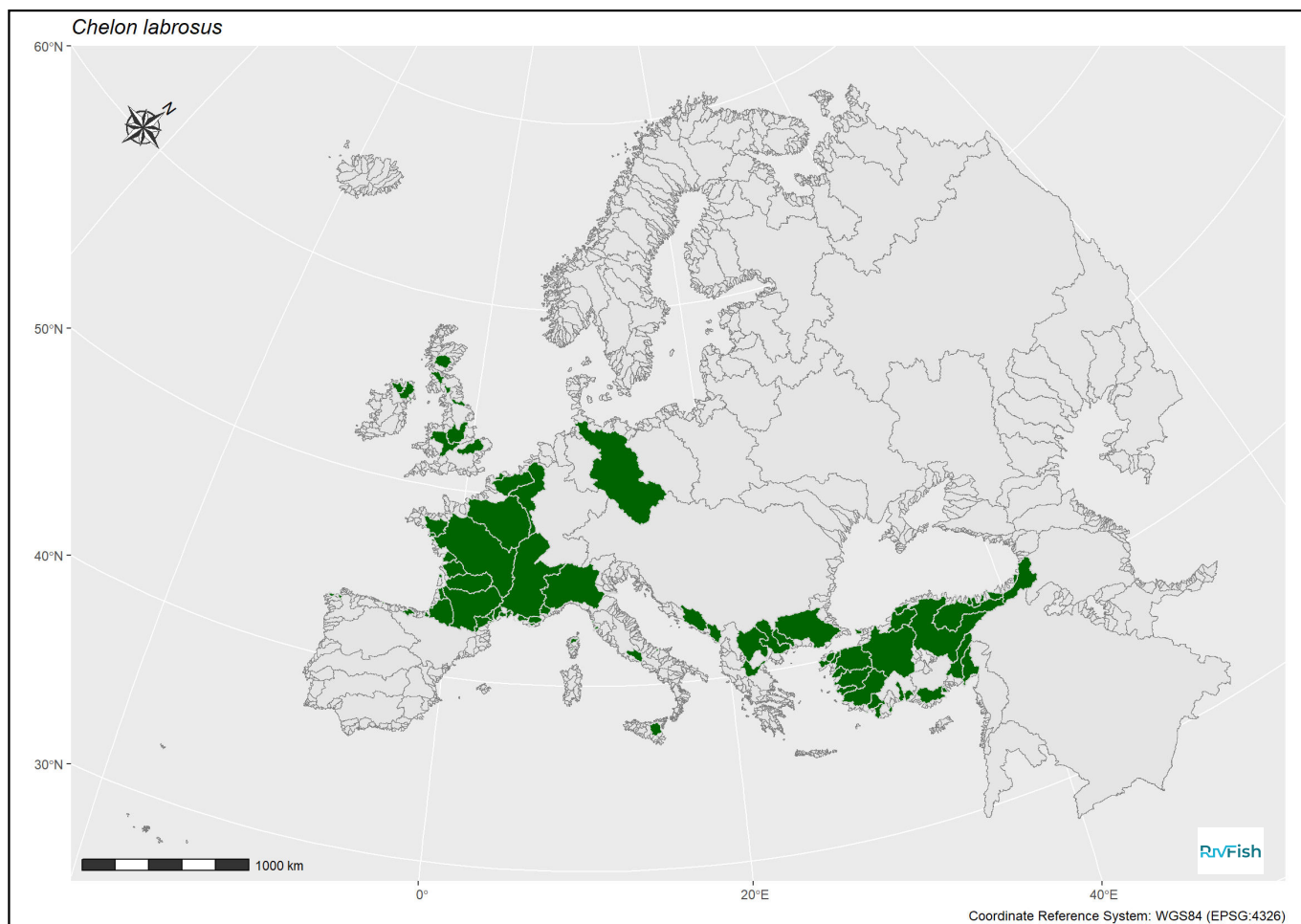
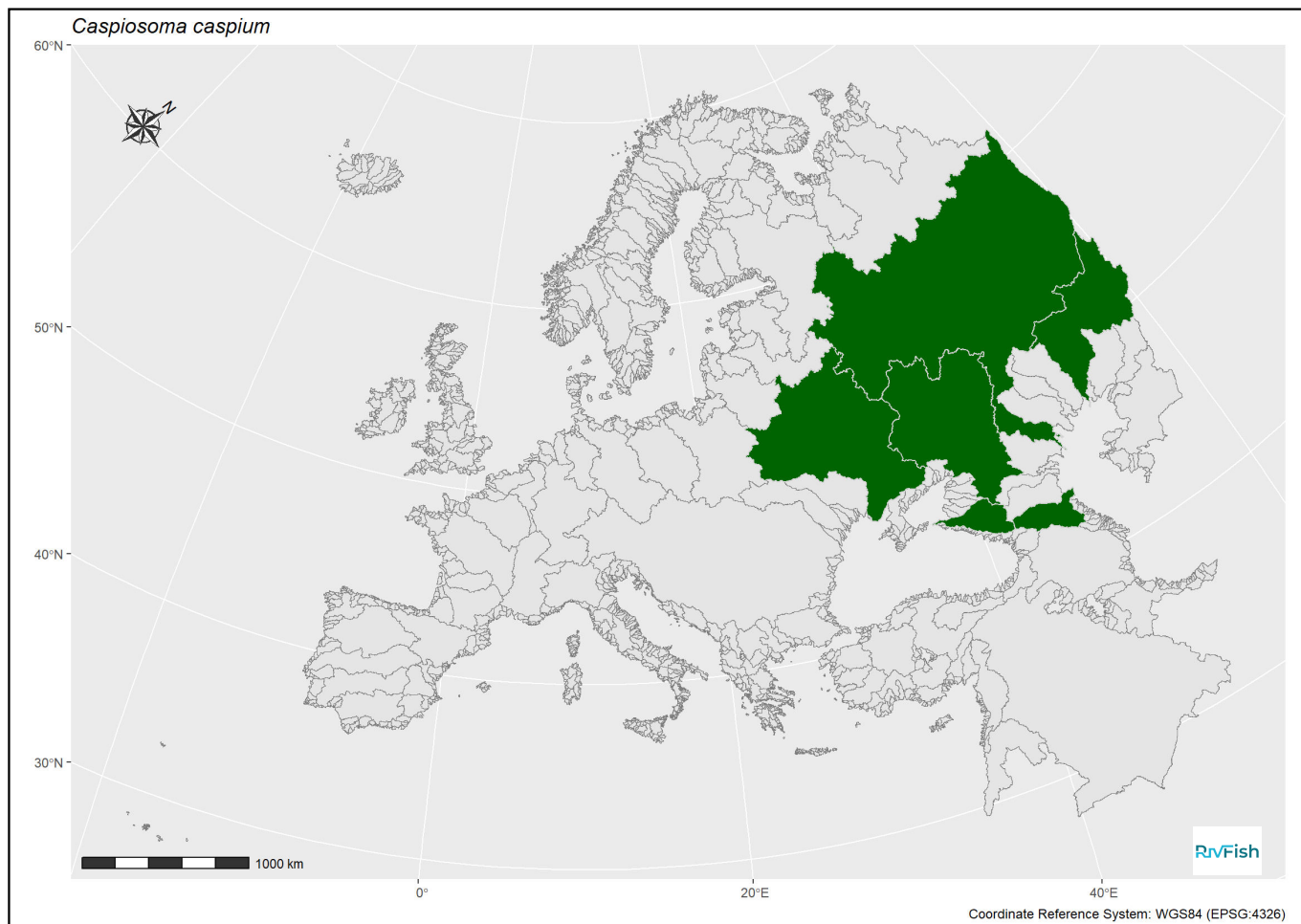


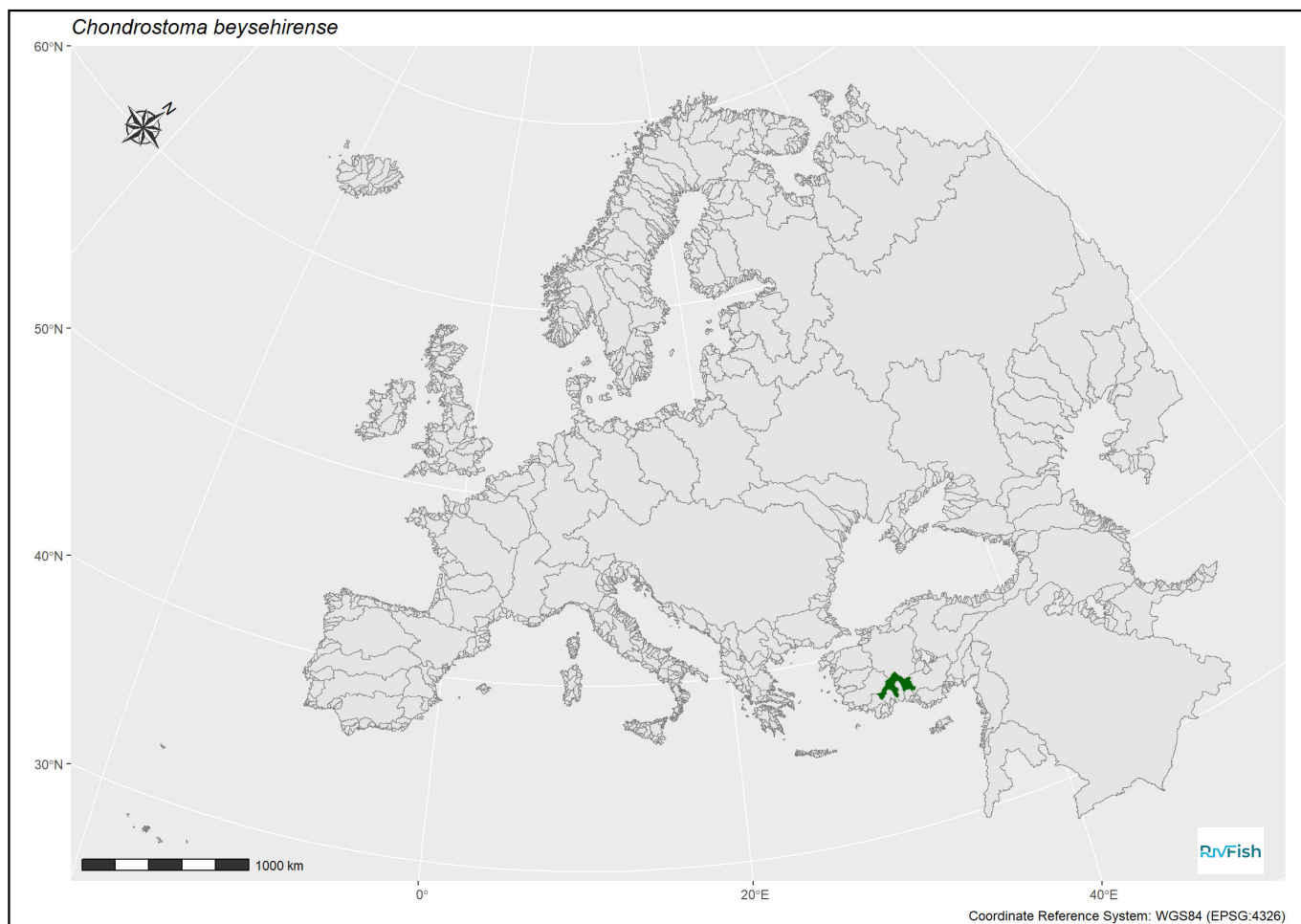
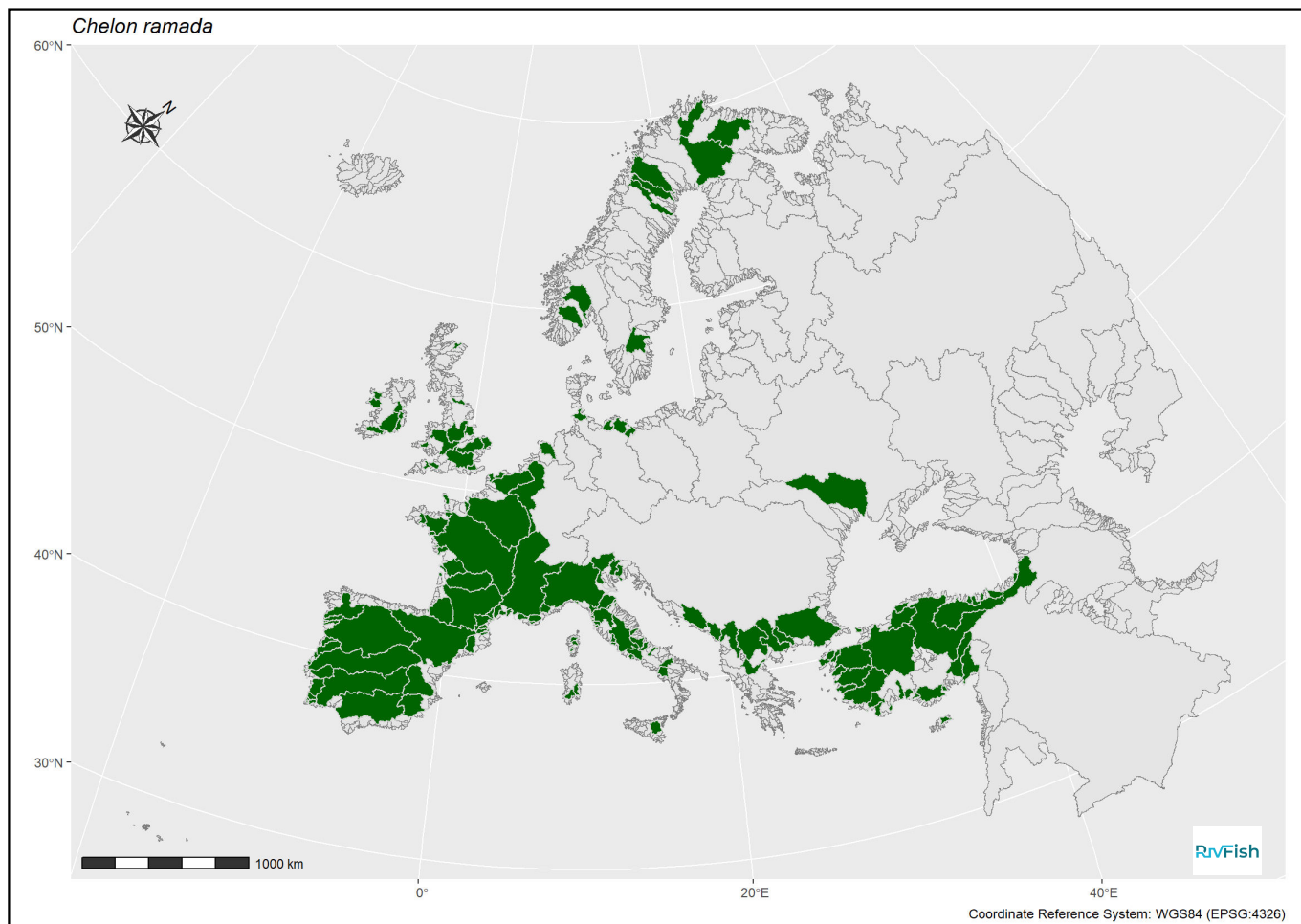
Caspiomyzon hellenicus



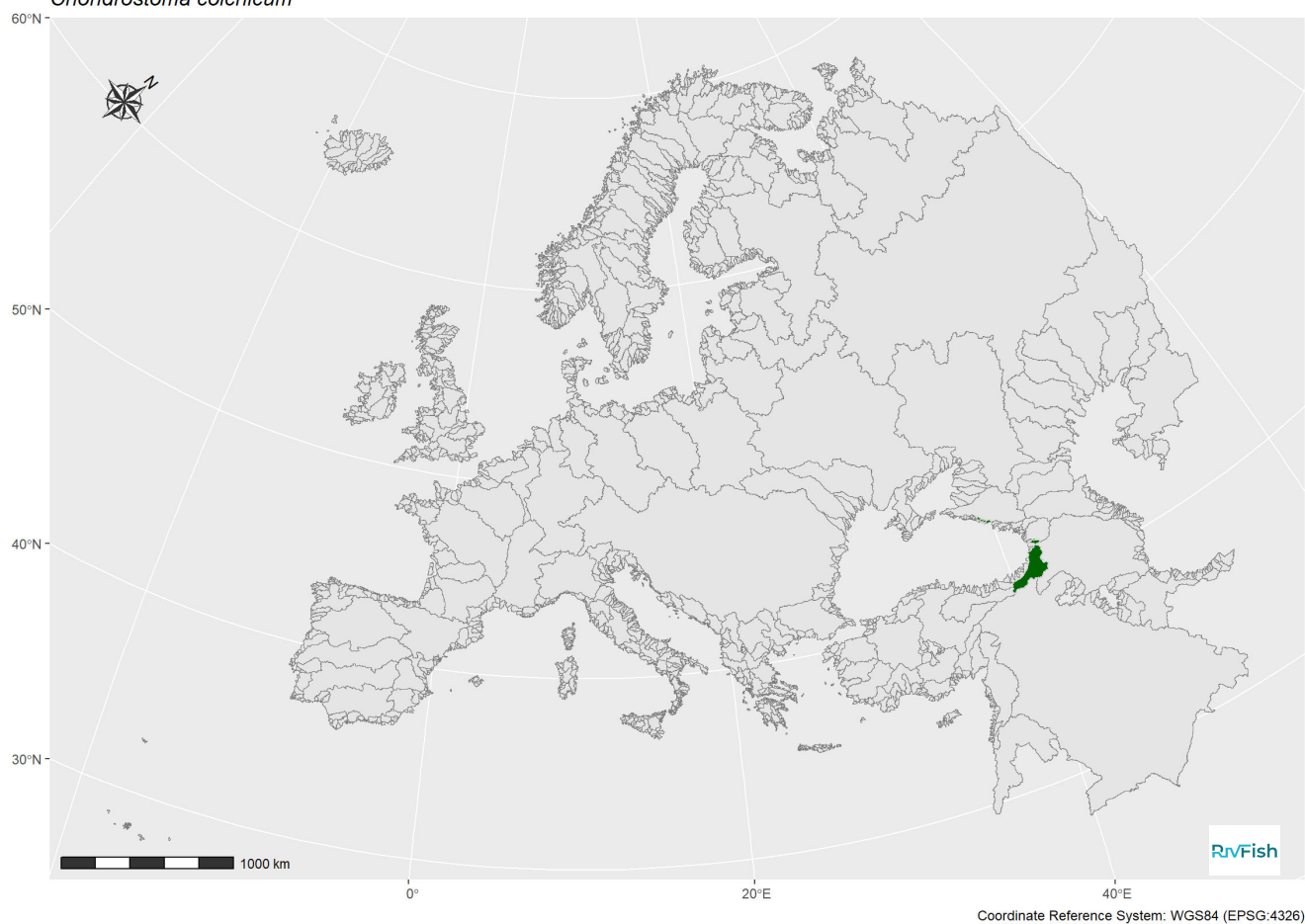
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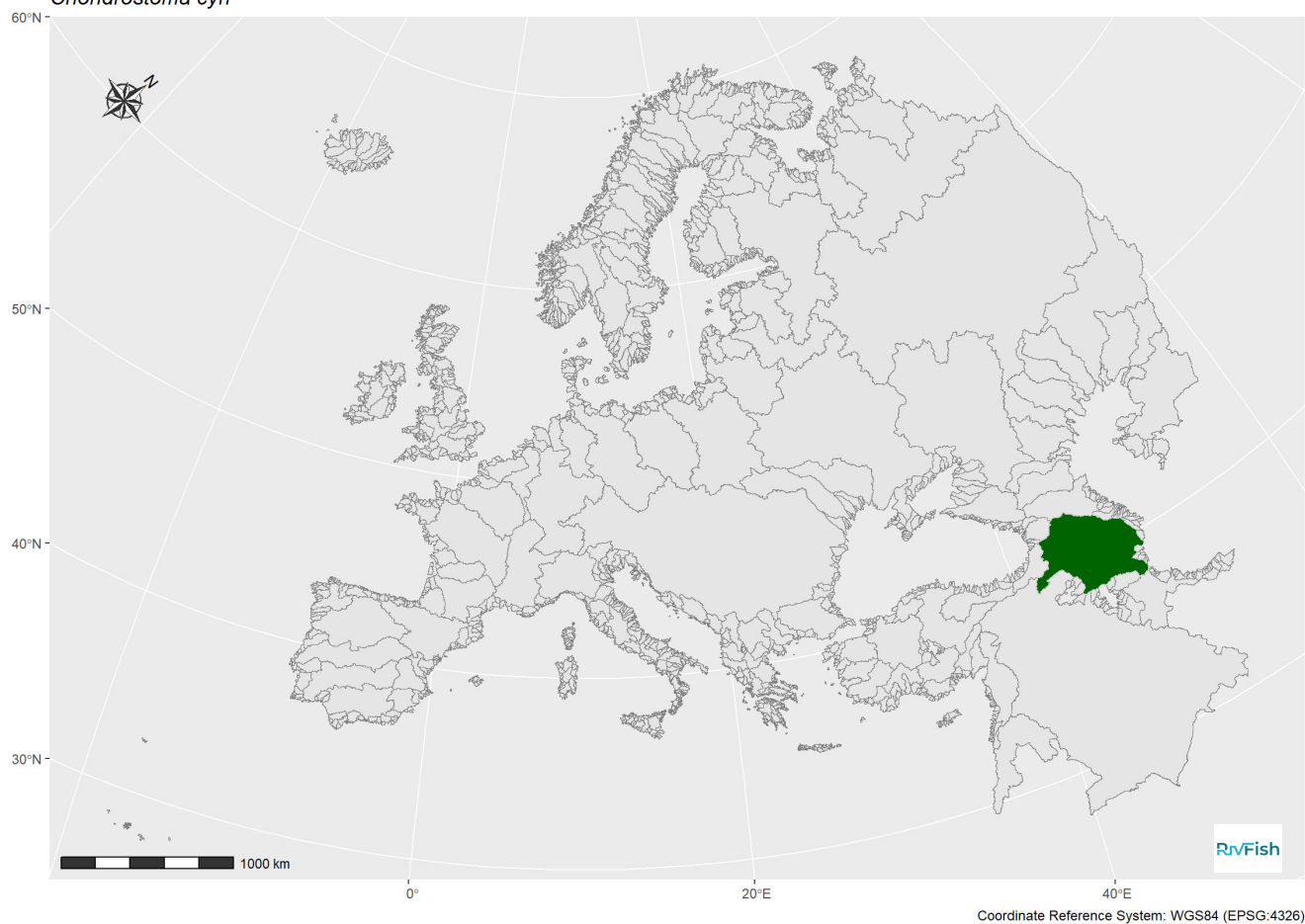




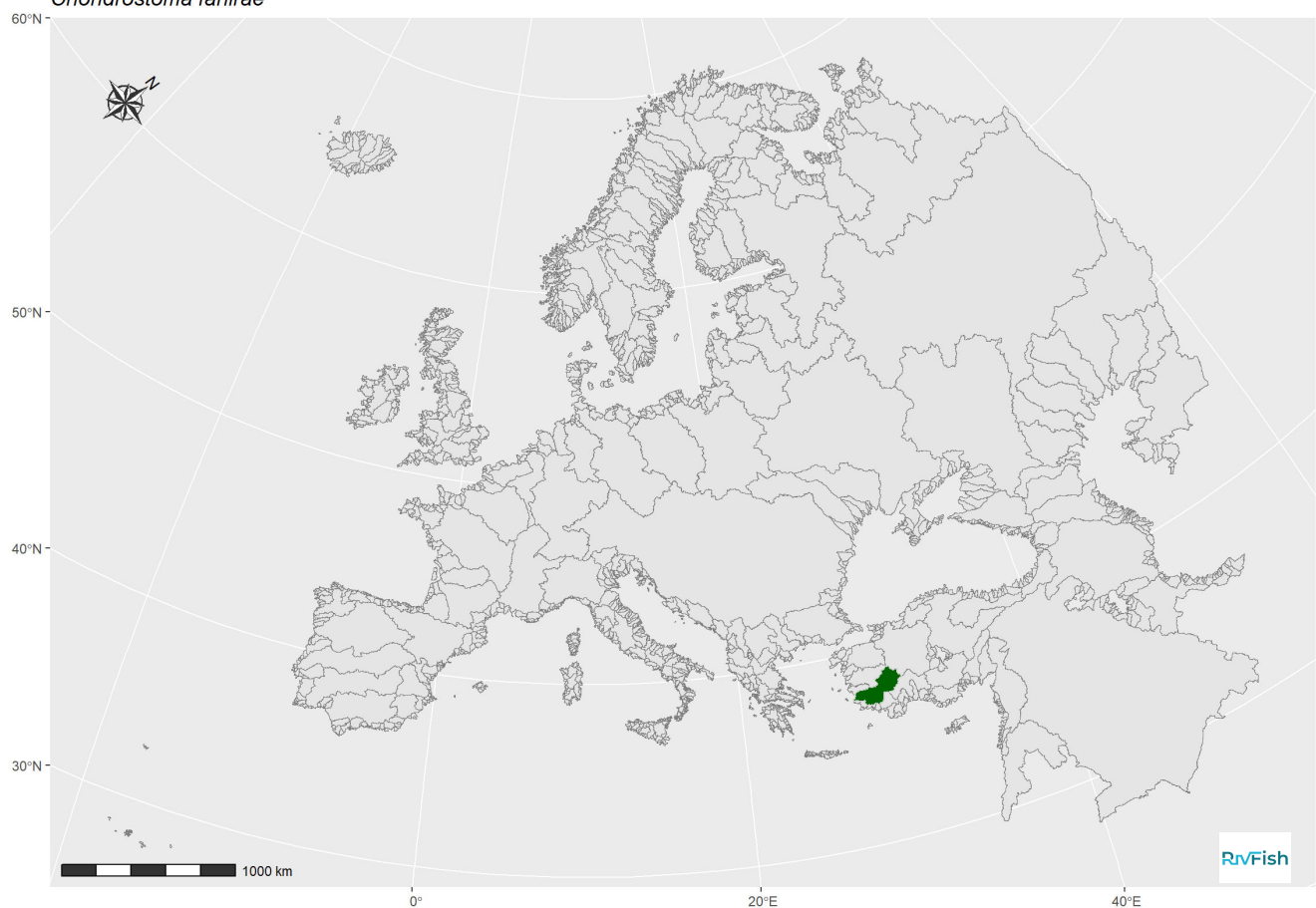
Chondrostoma colchicum



Chondrostoma cyri



Chondrostoma fahirae



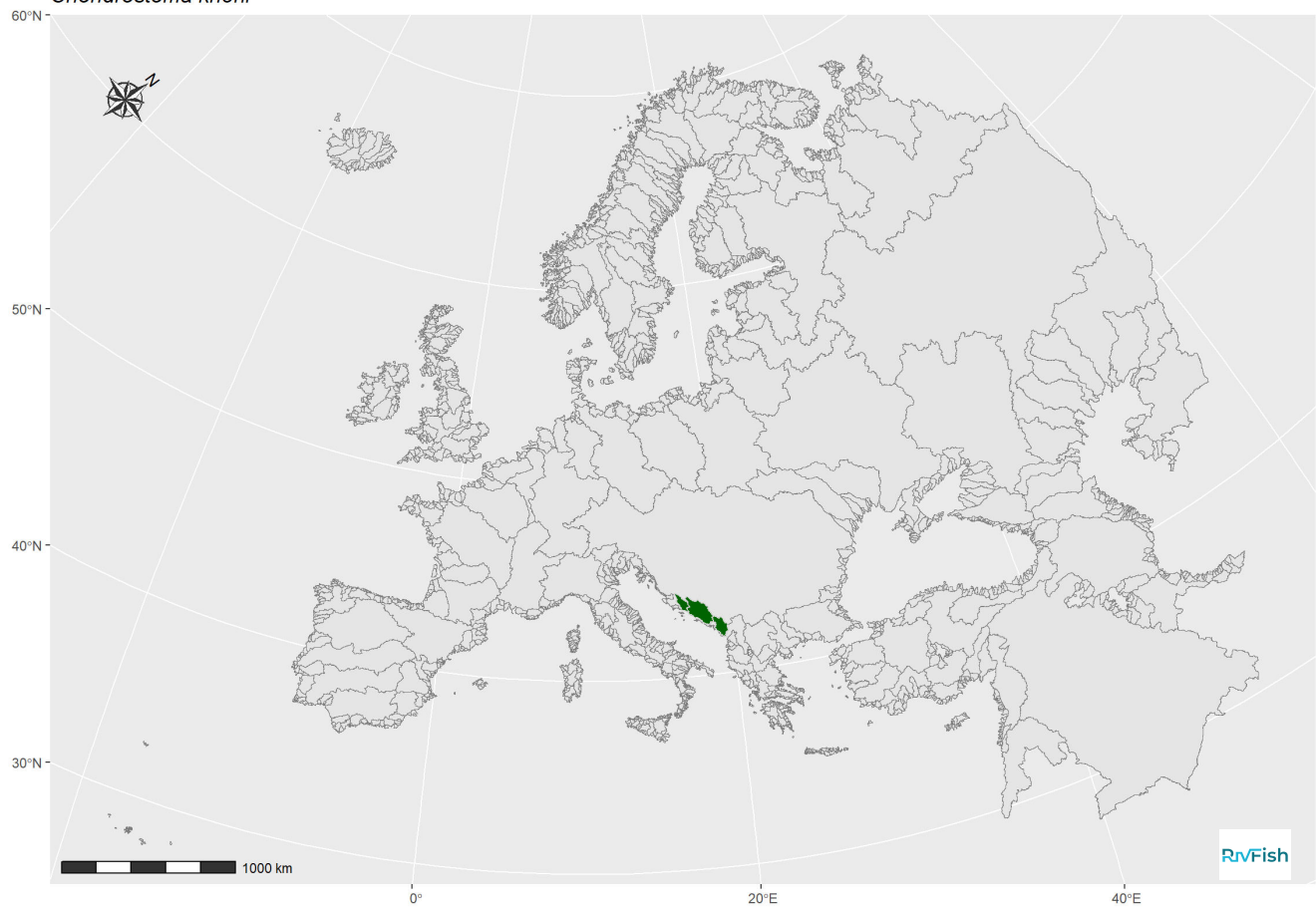
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Chondrostoma holmwoodii



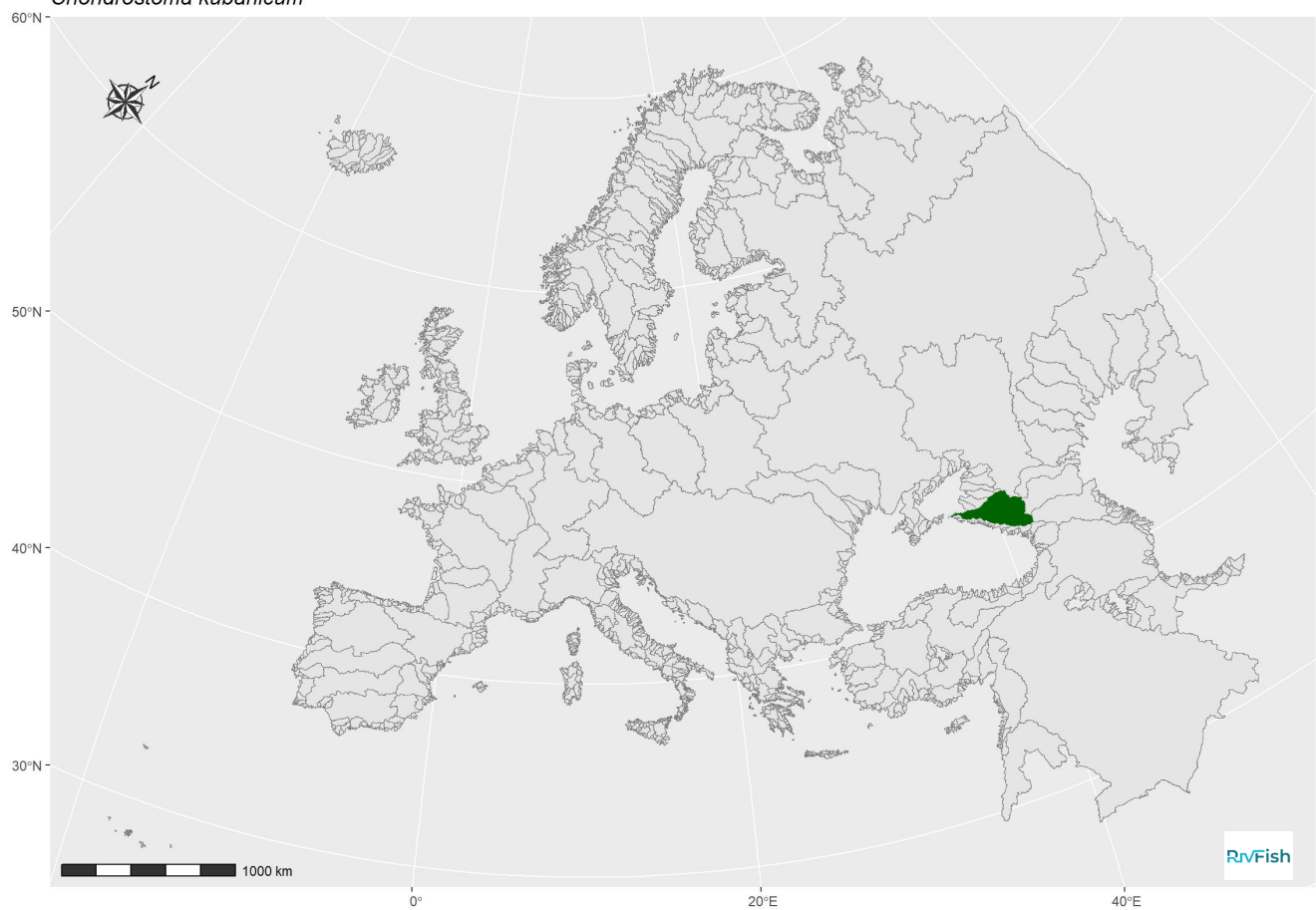
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Chondrostoma knerii



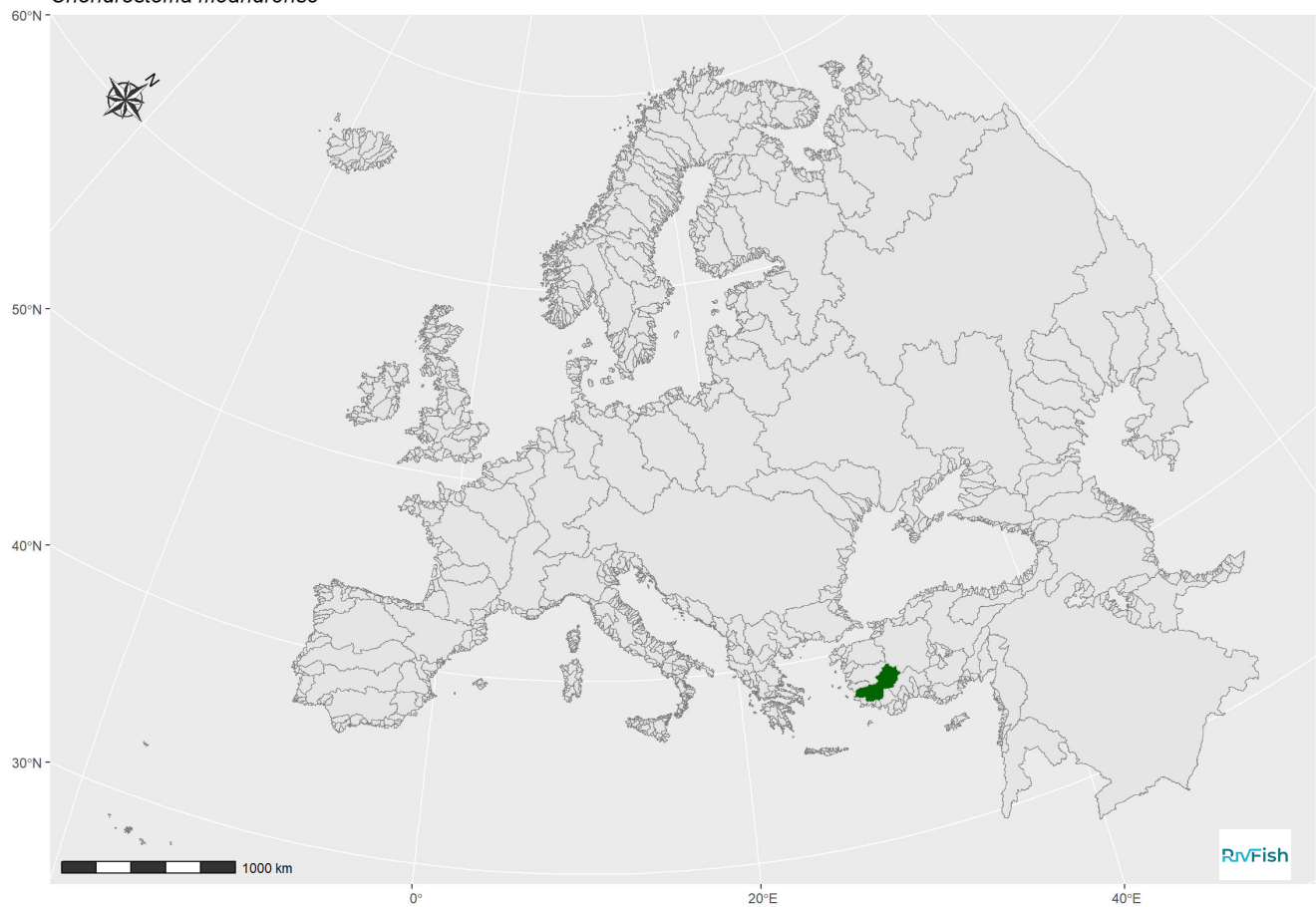
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Chondrostoma kubanicum



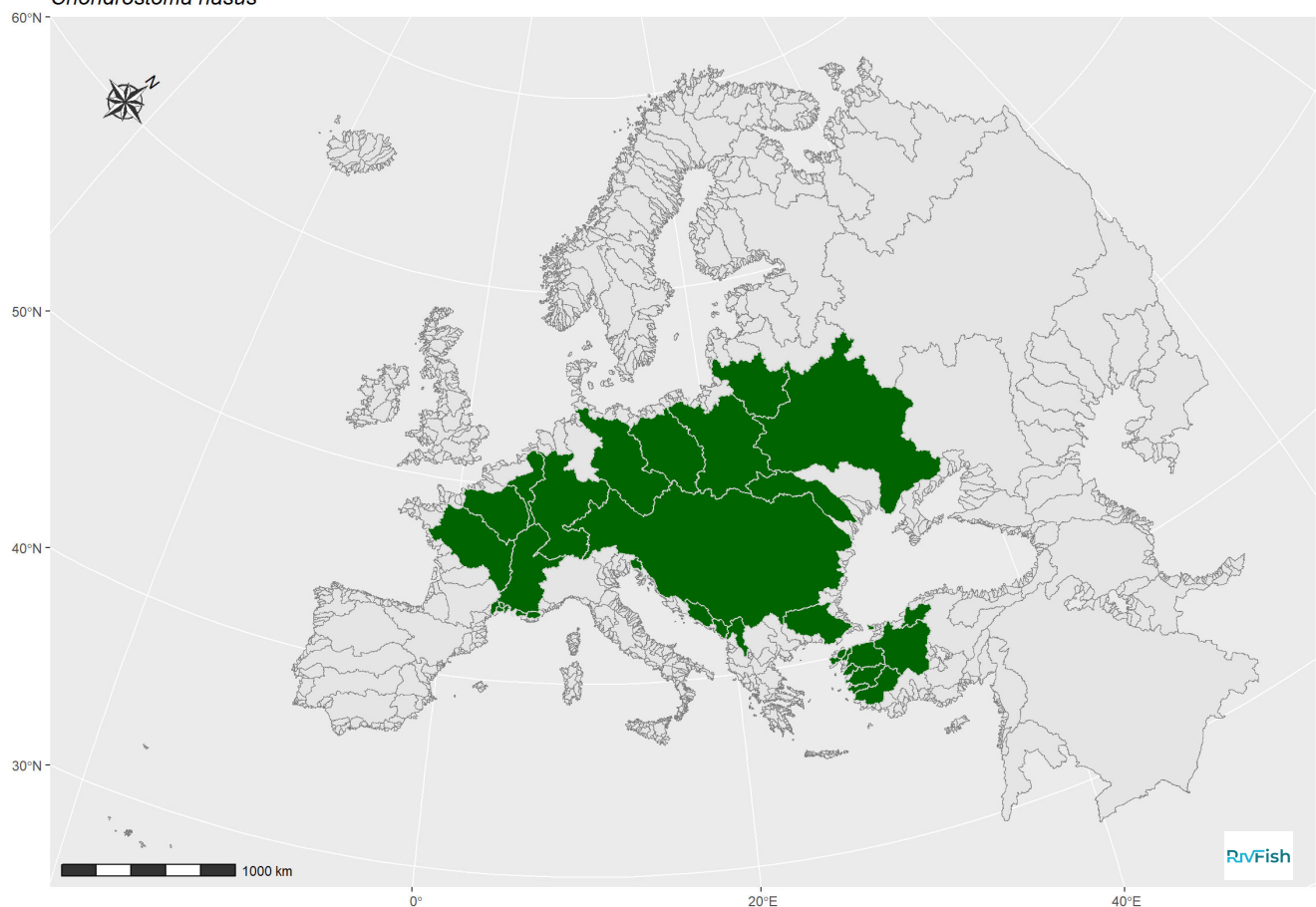
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Chondrostoma meandrense



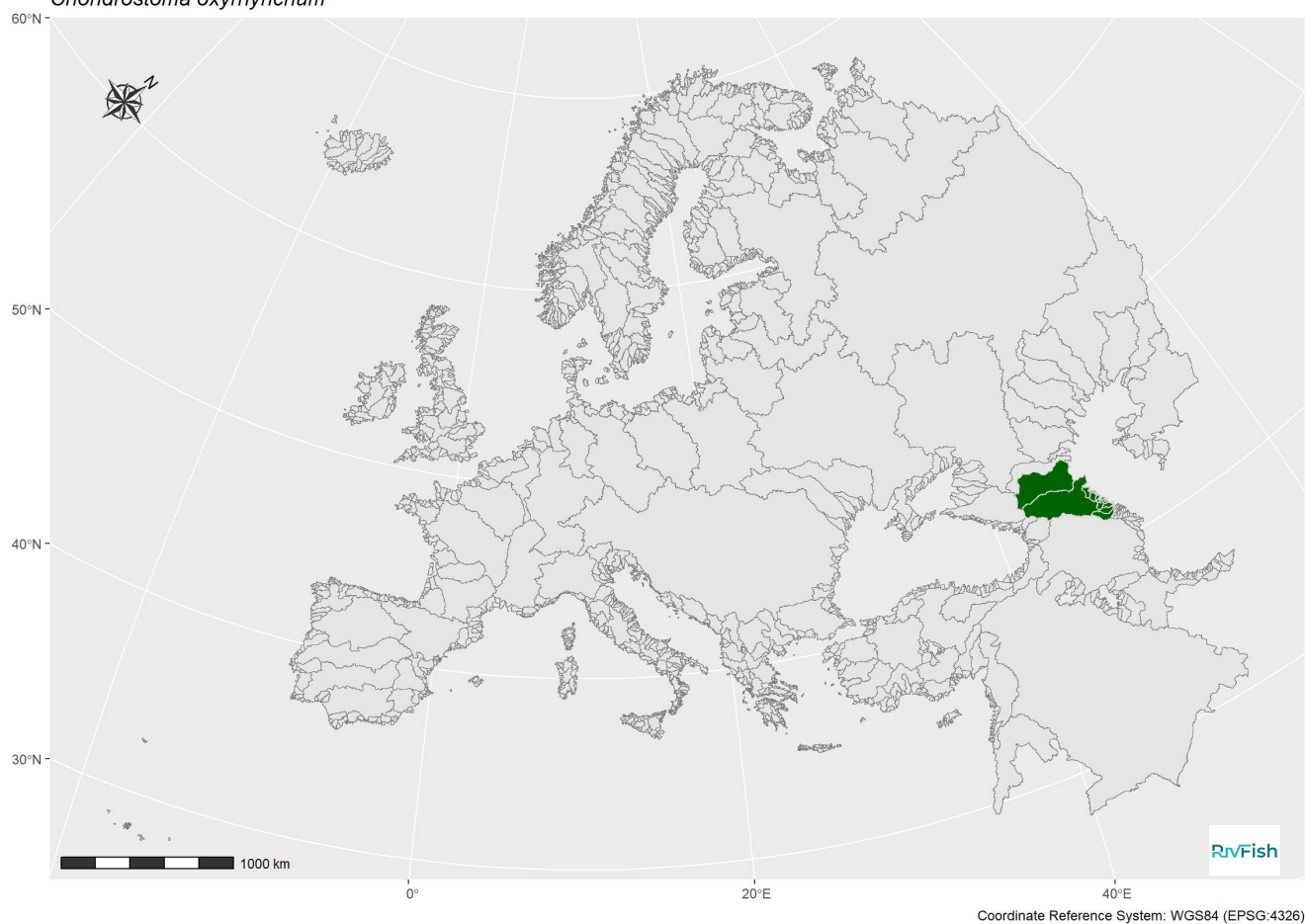
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Chondrostoma nasus

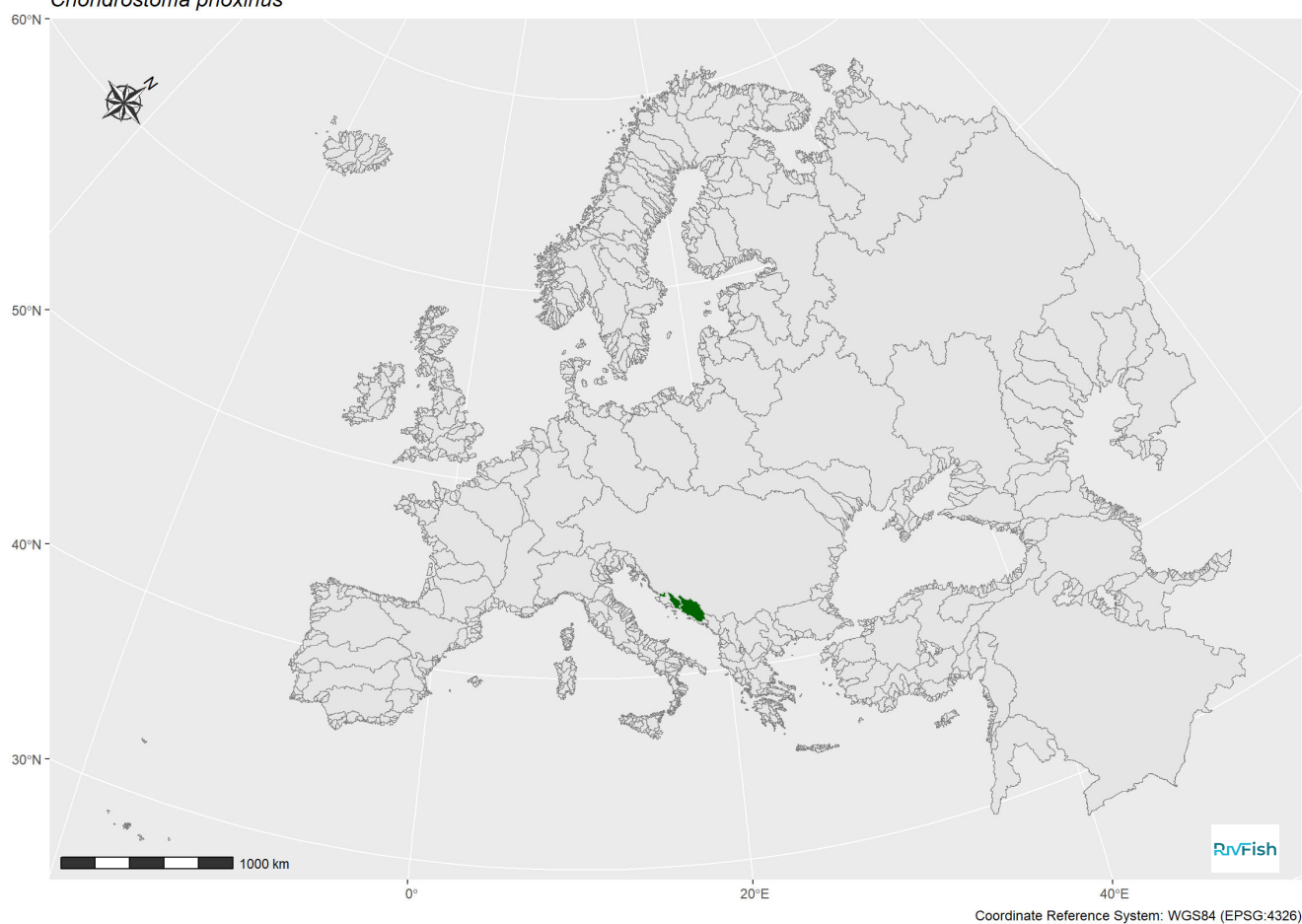


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Chondrostoma oxyrhynchum



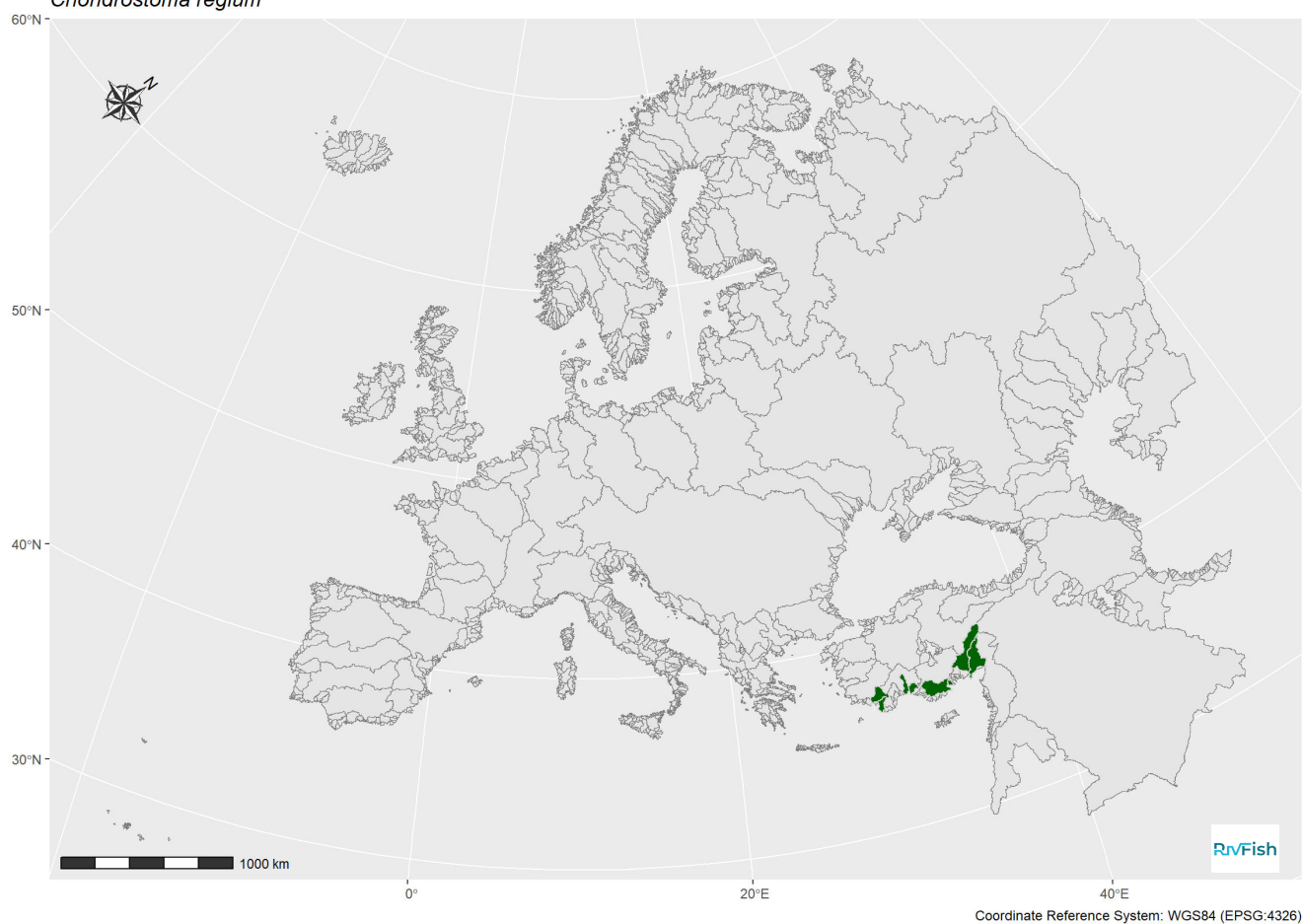
Chondrostoma phoxinus



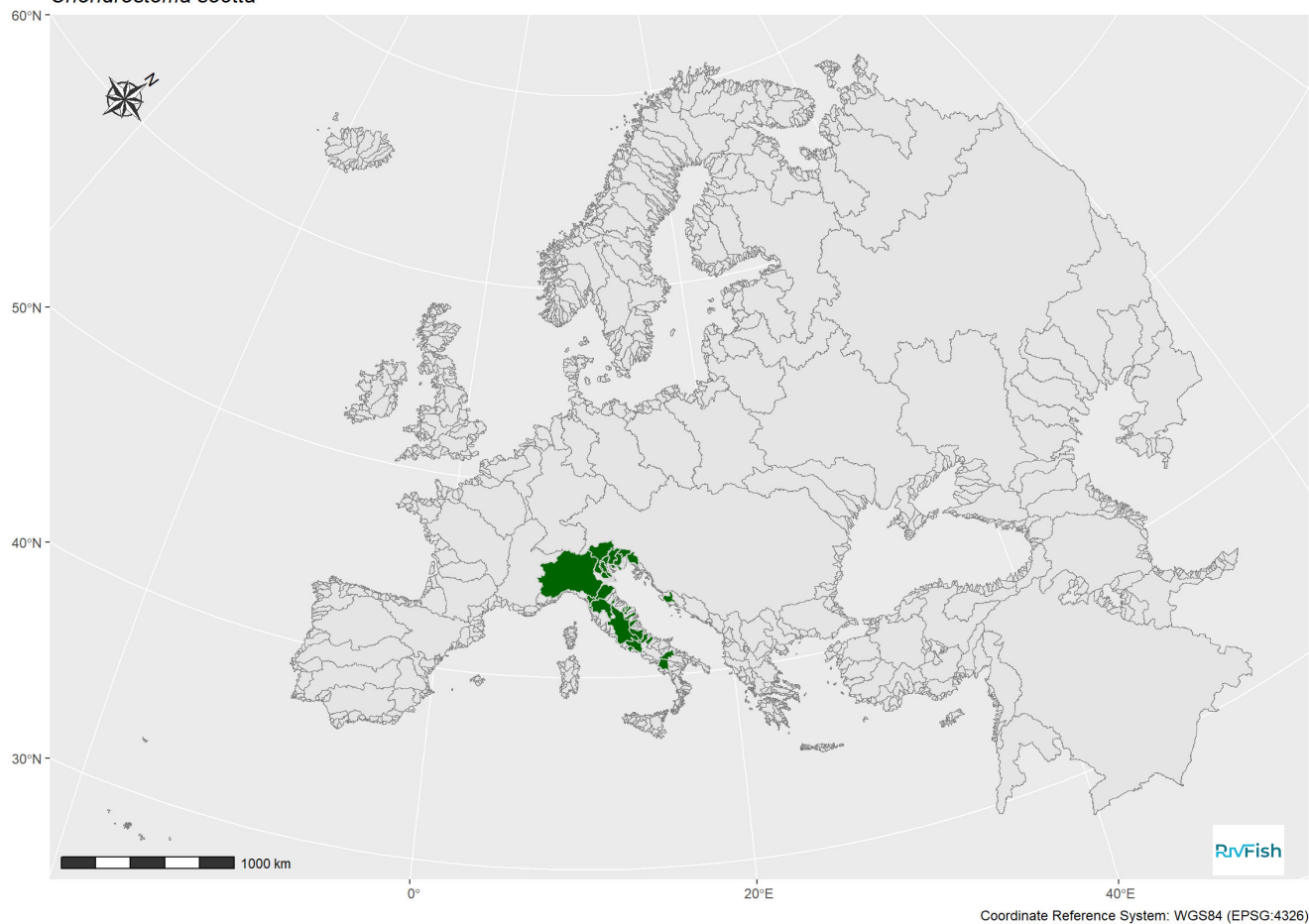
Chondrostoma prespense



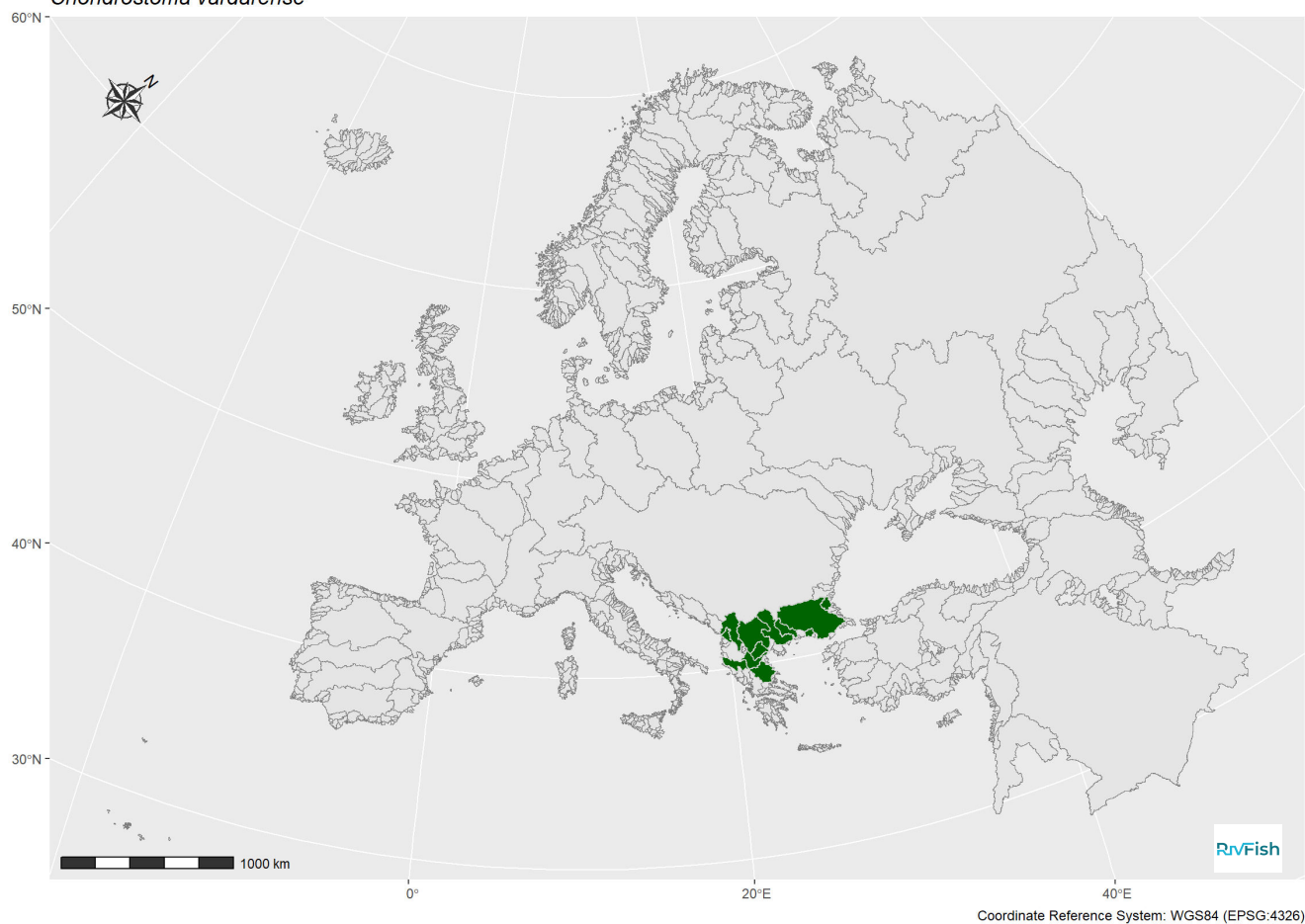
Chondrostoma regium



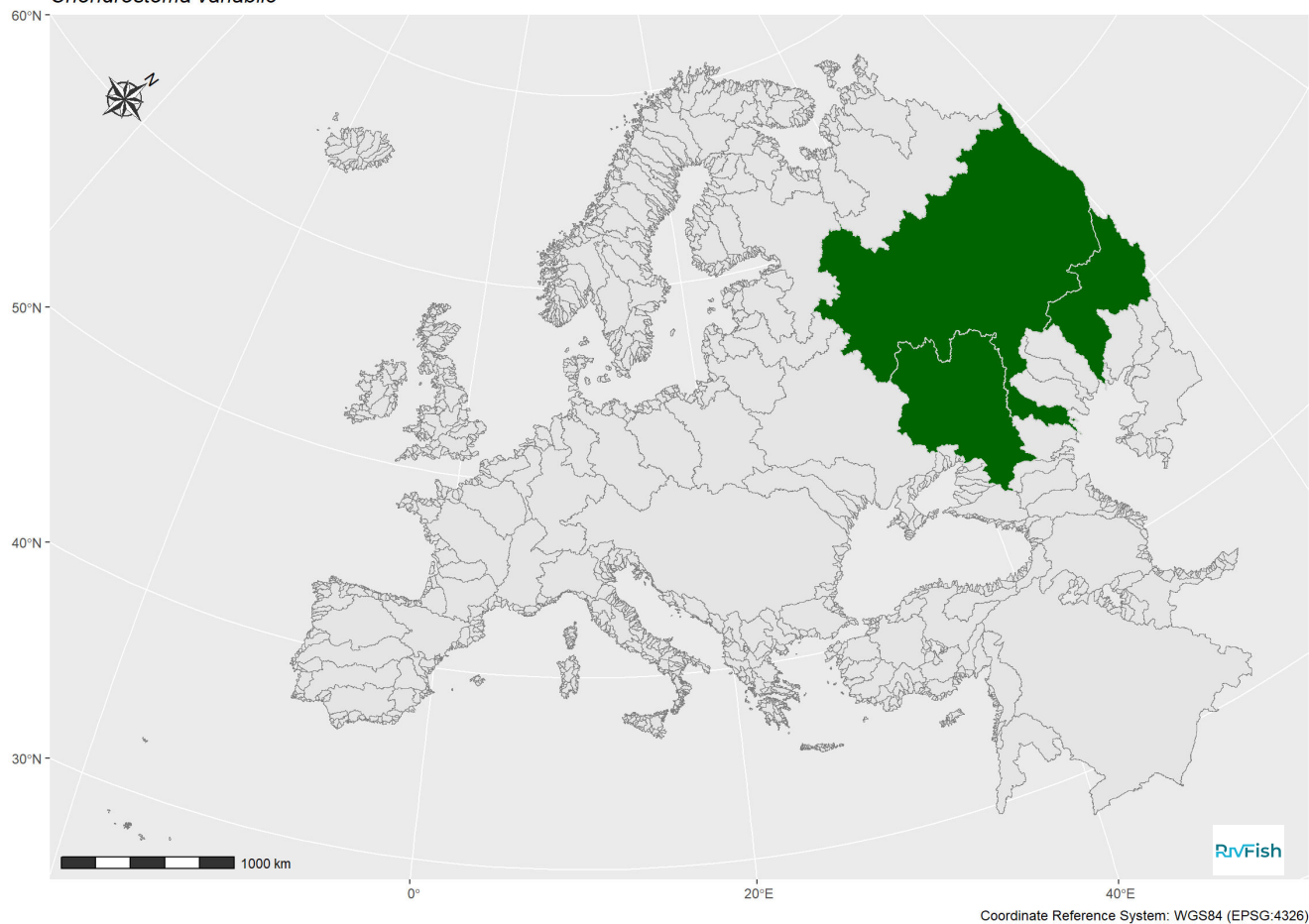
Chondrostoma soetta



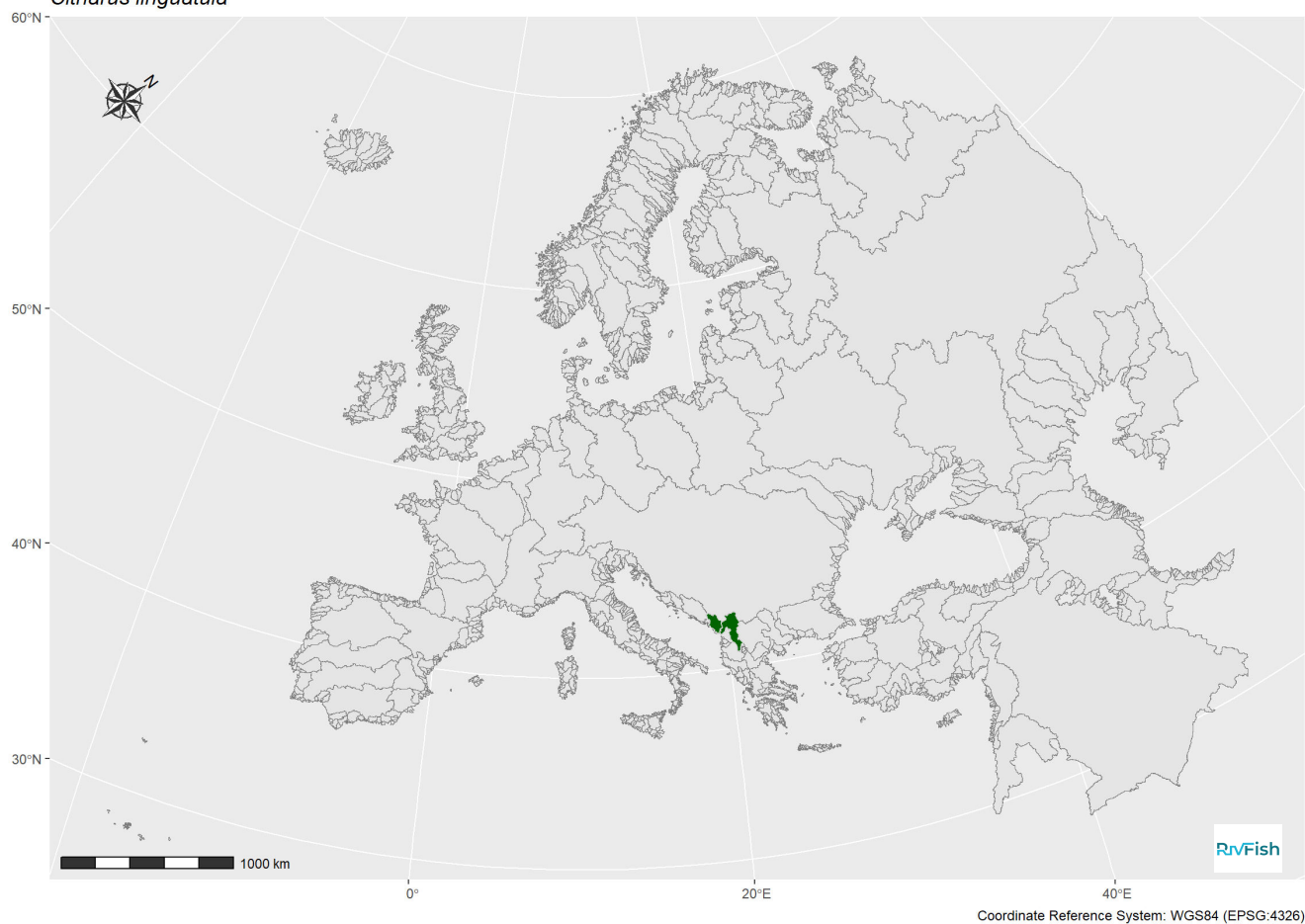
Chondrostoma vardarense



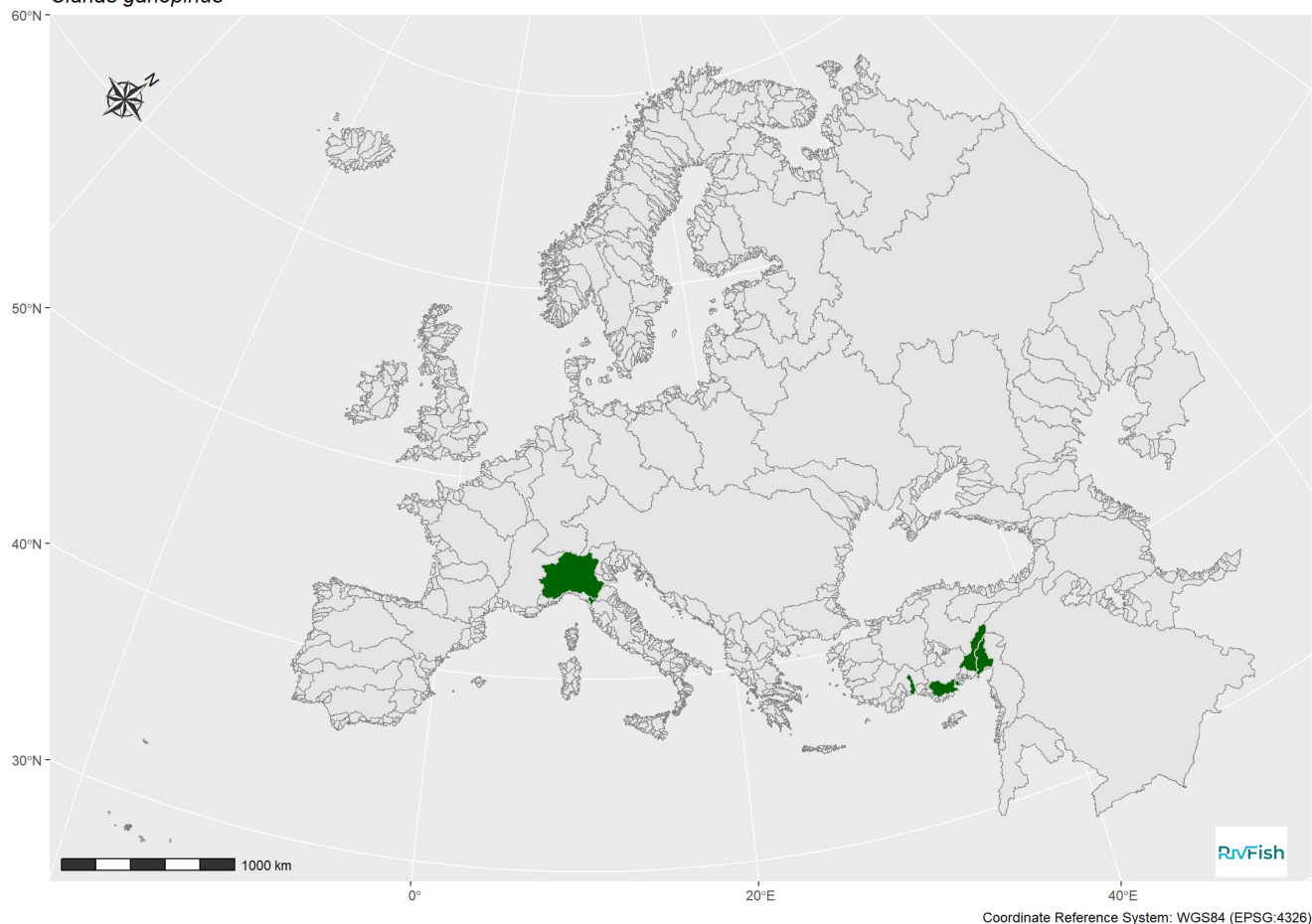
Chondrostoma variable



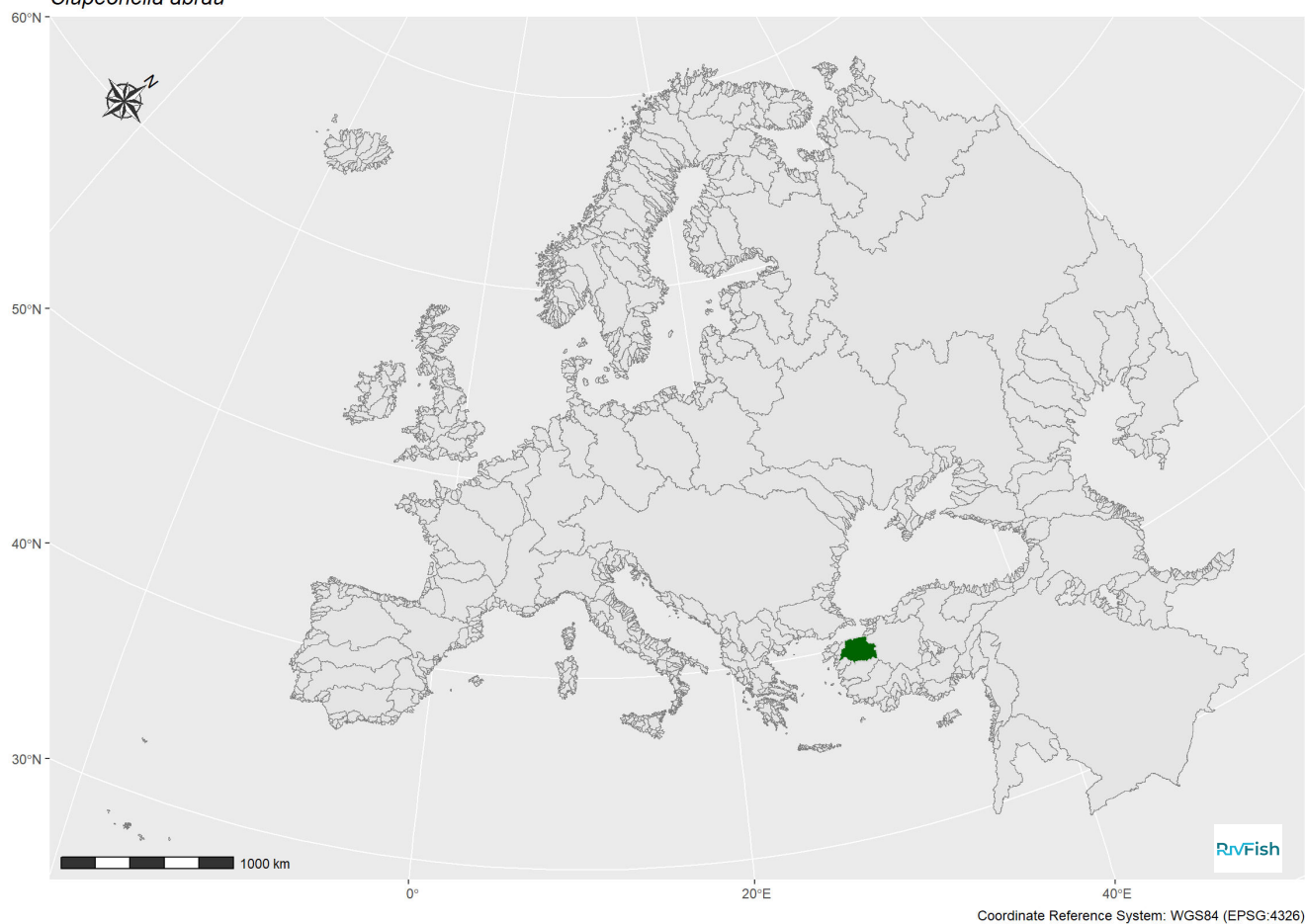
Citharus linguatula

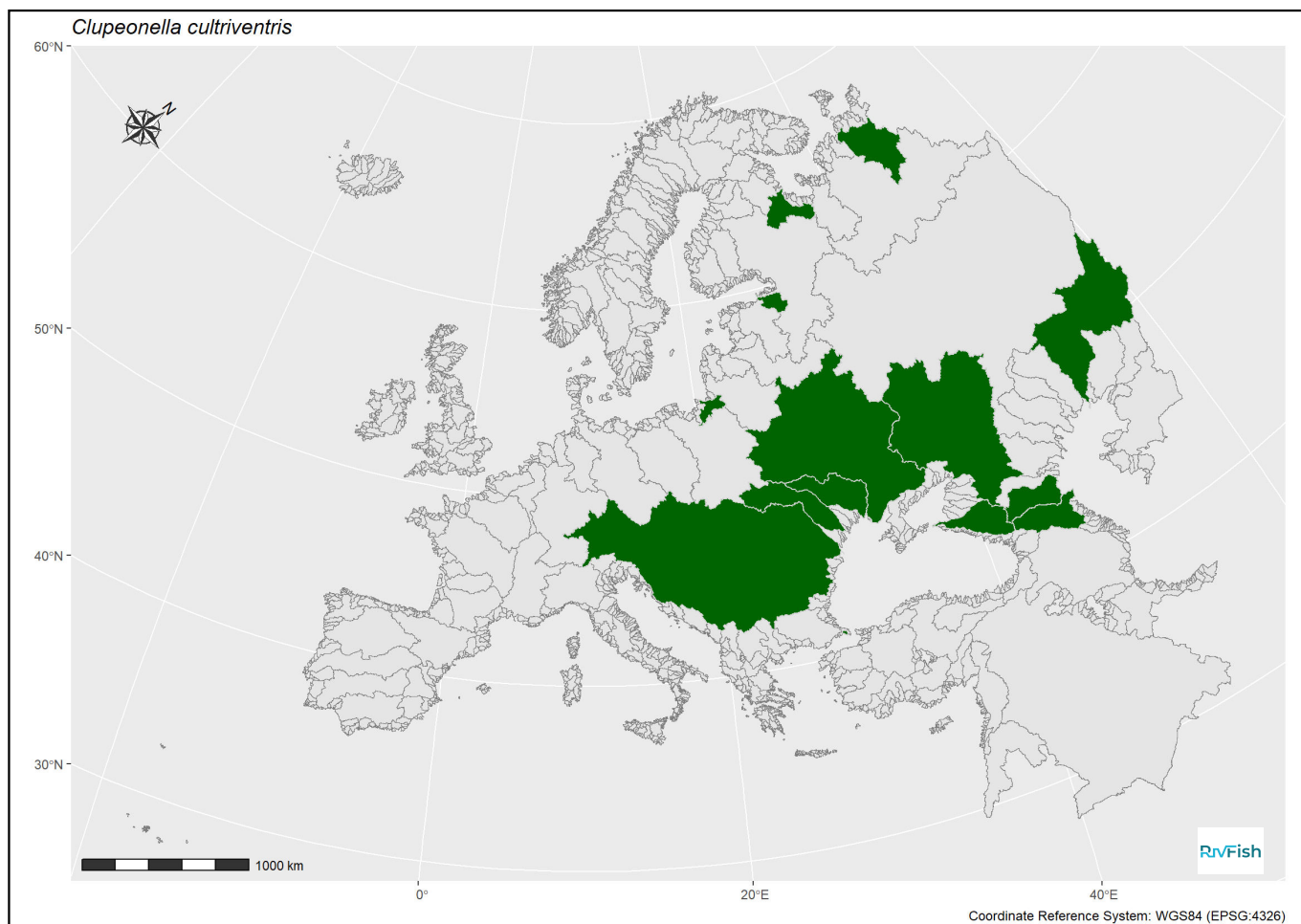
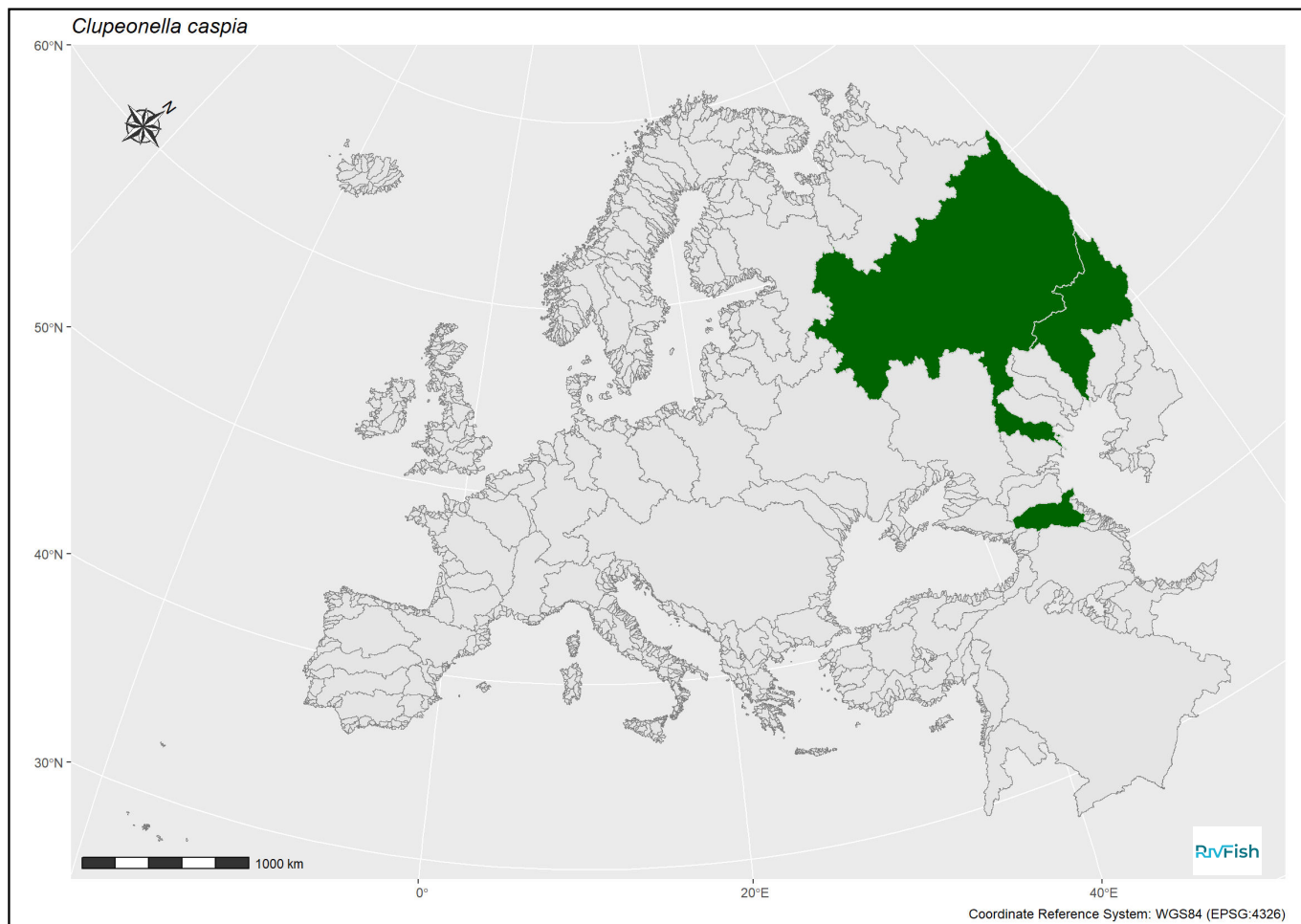


Clarias gariepinus

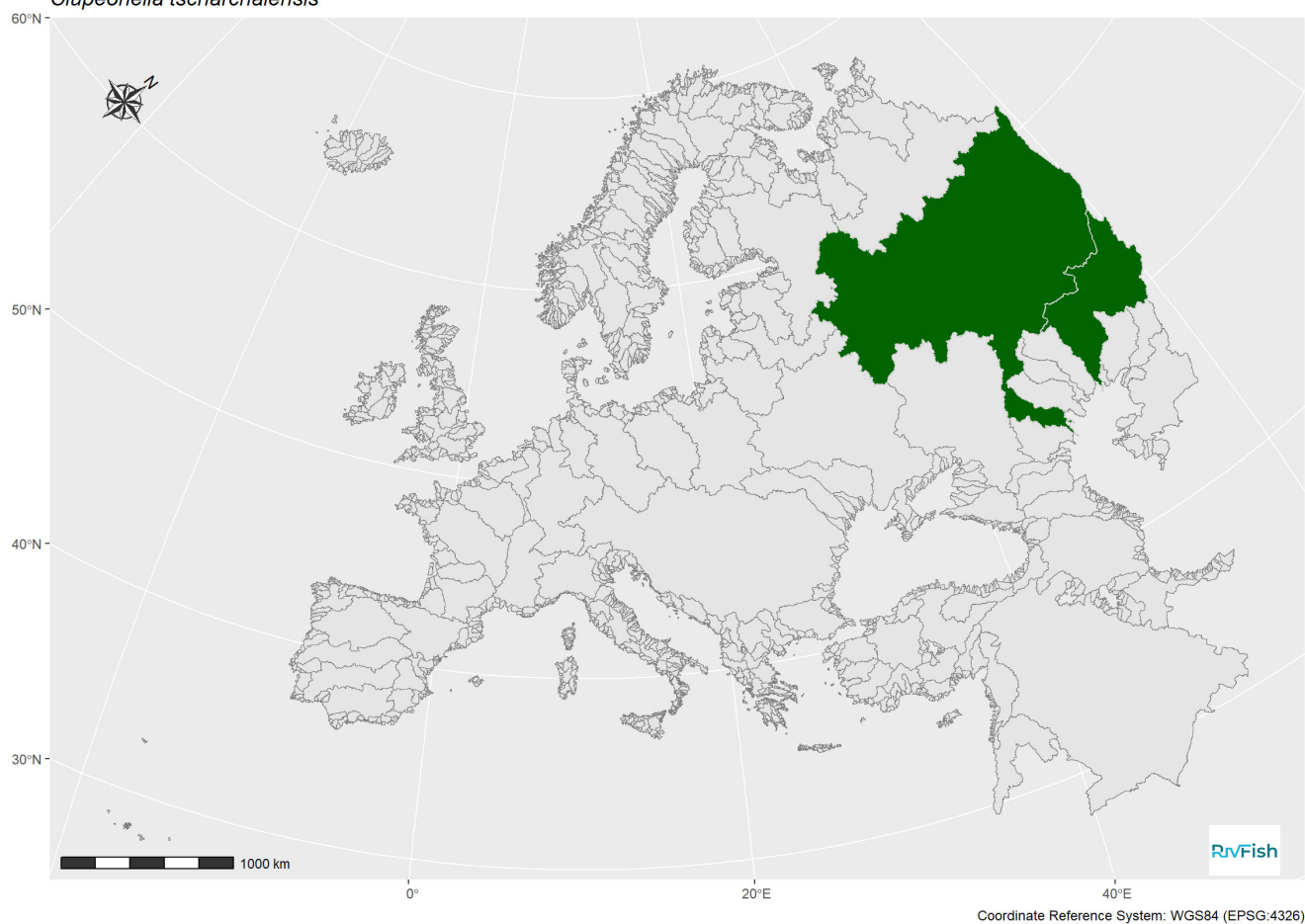


Clupeonella abrau



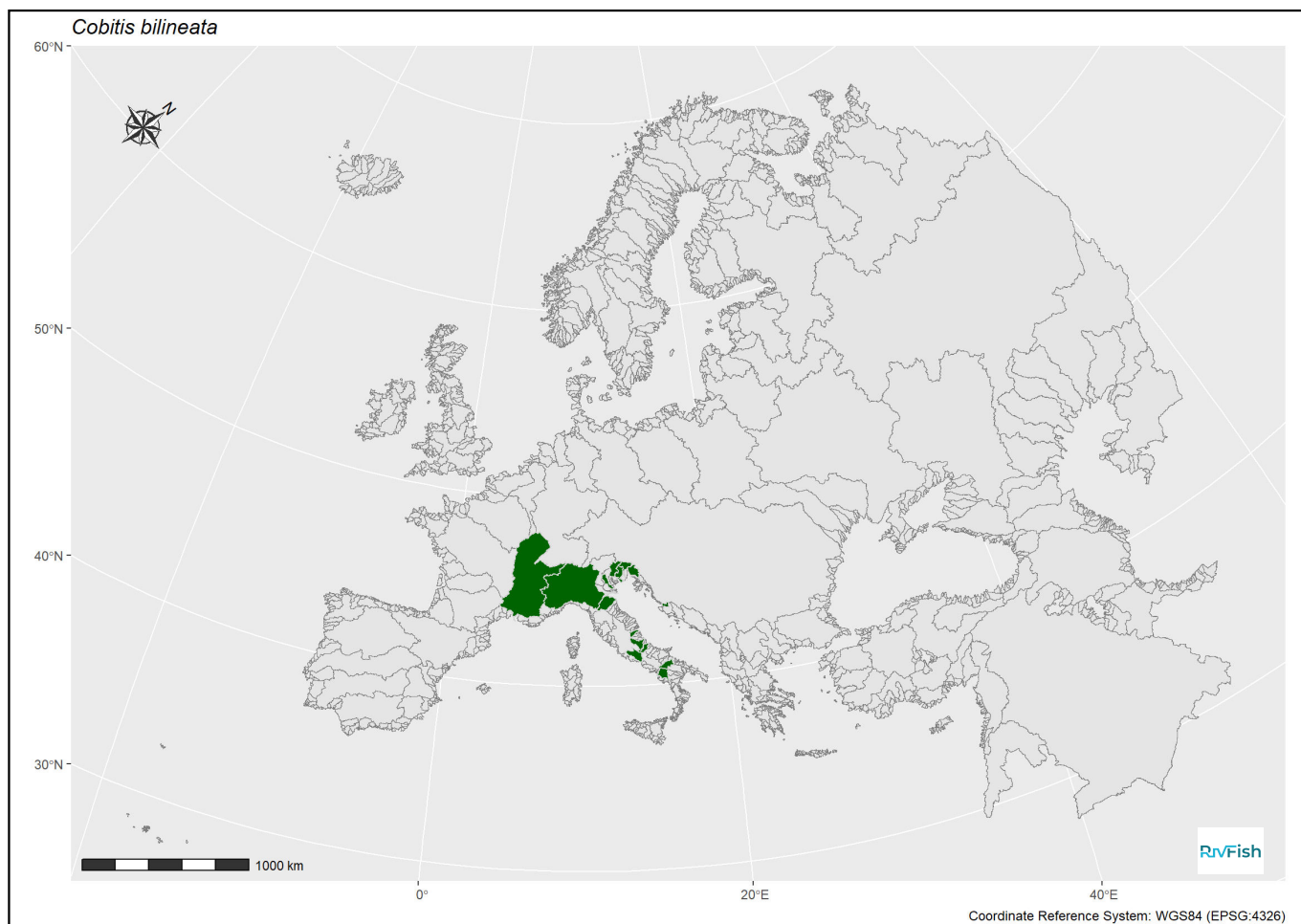
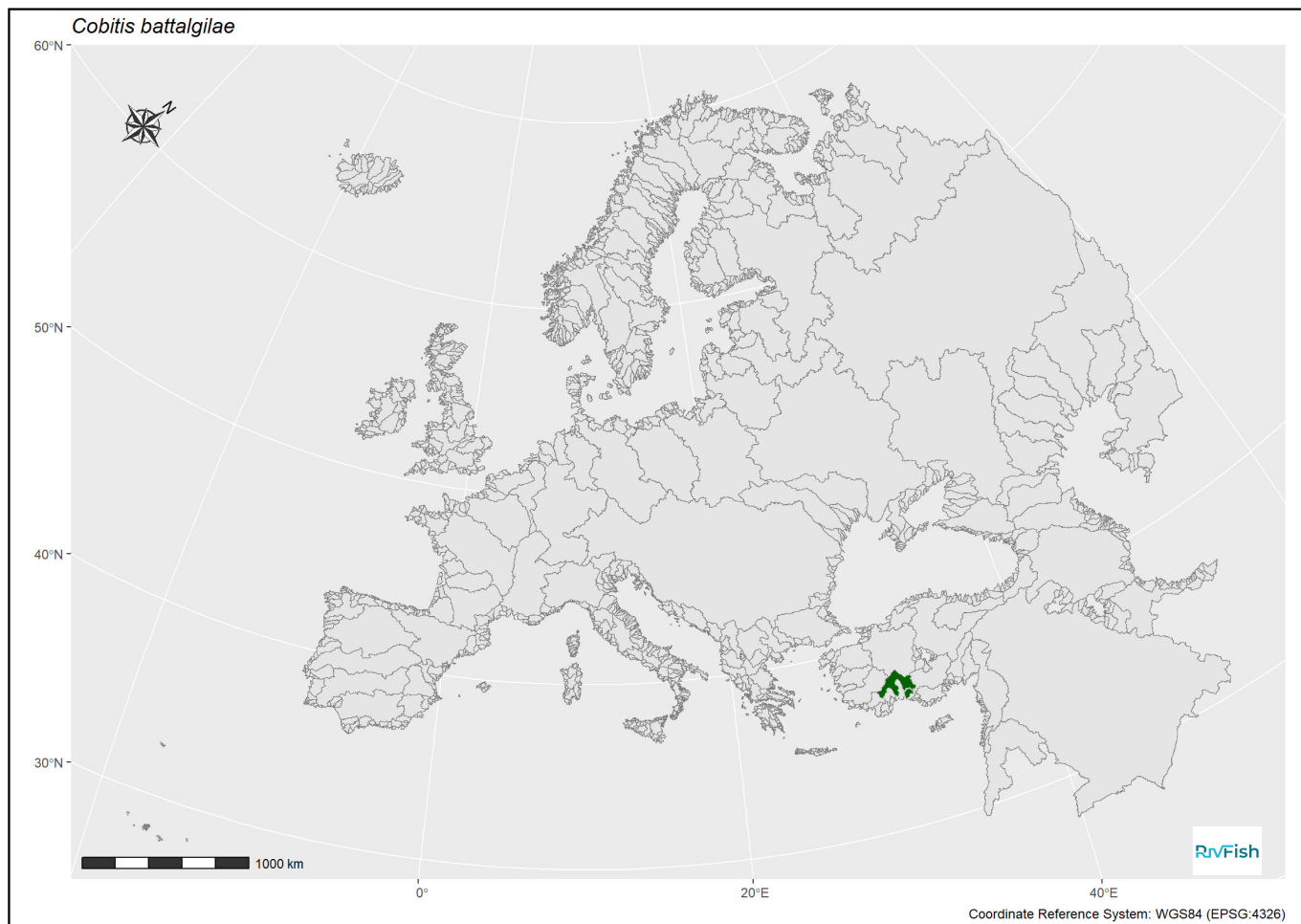


Clupeonella tscharchalensis

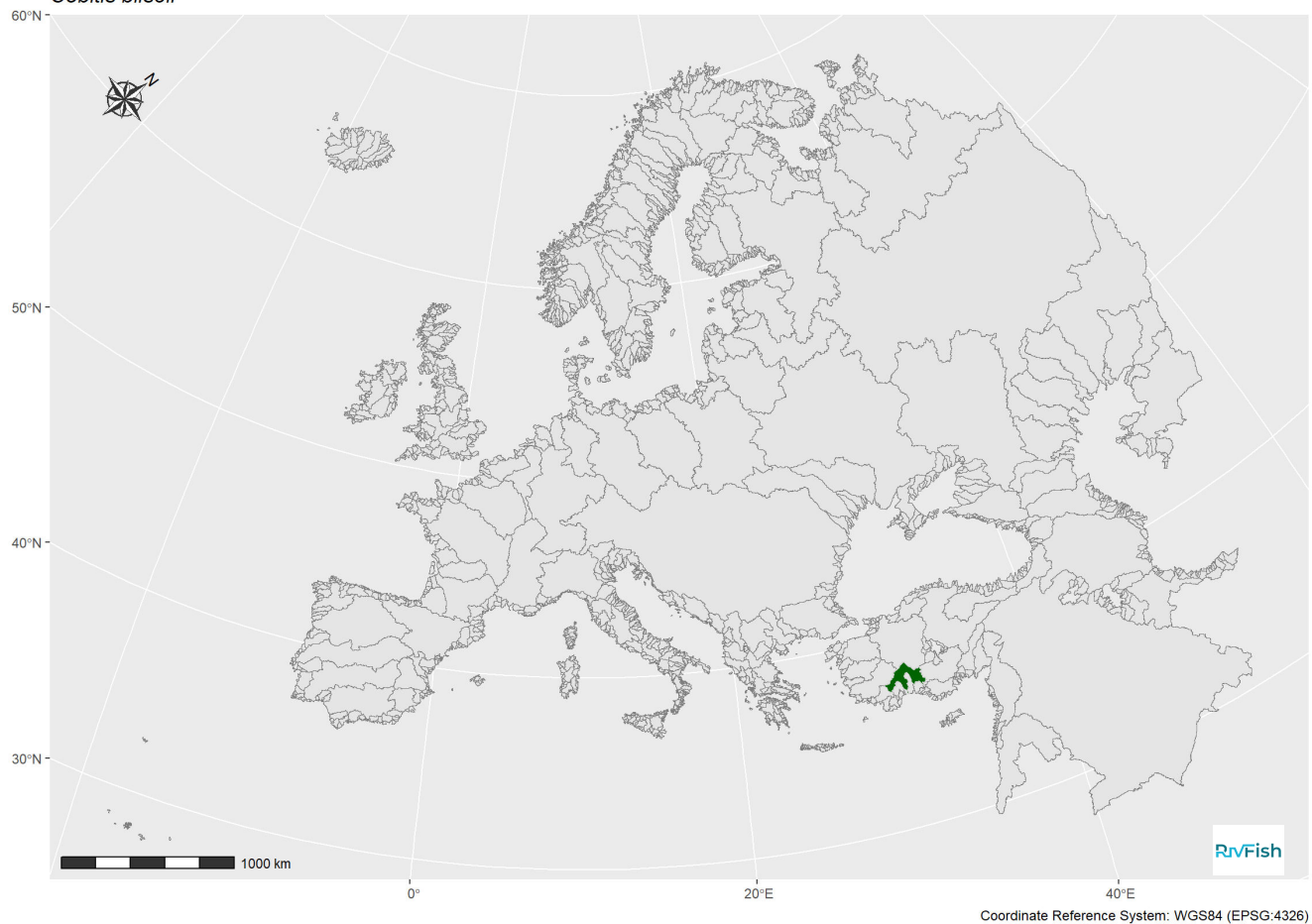


Cobitis arachthosensis

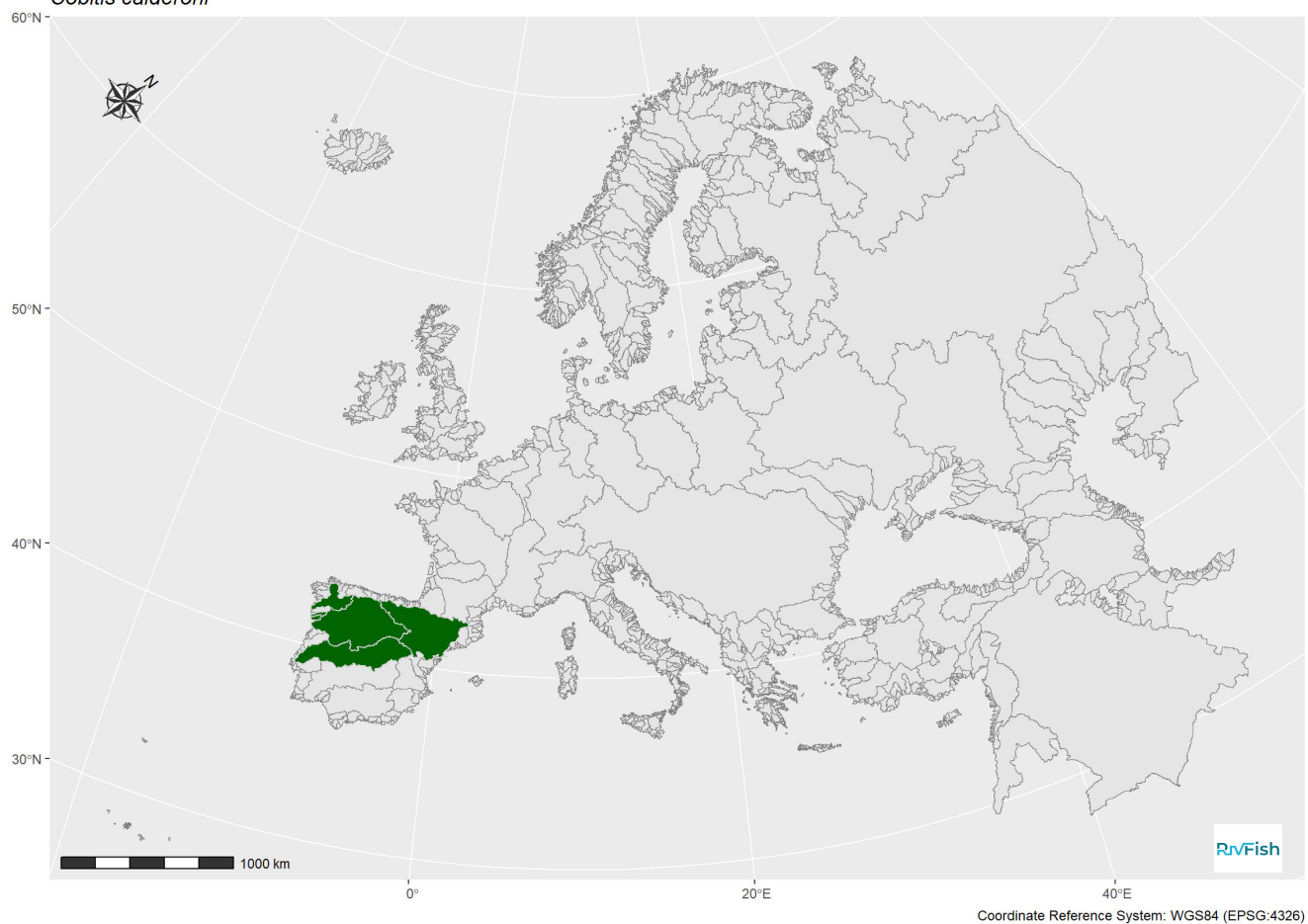




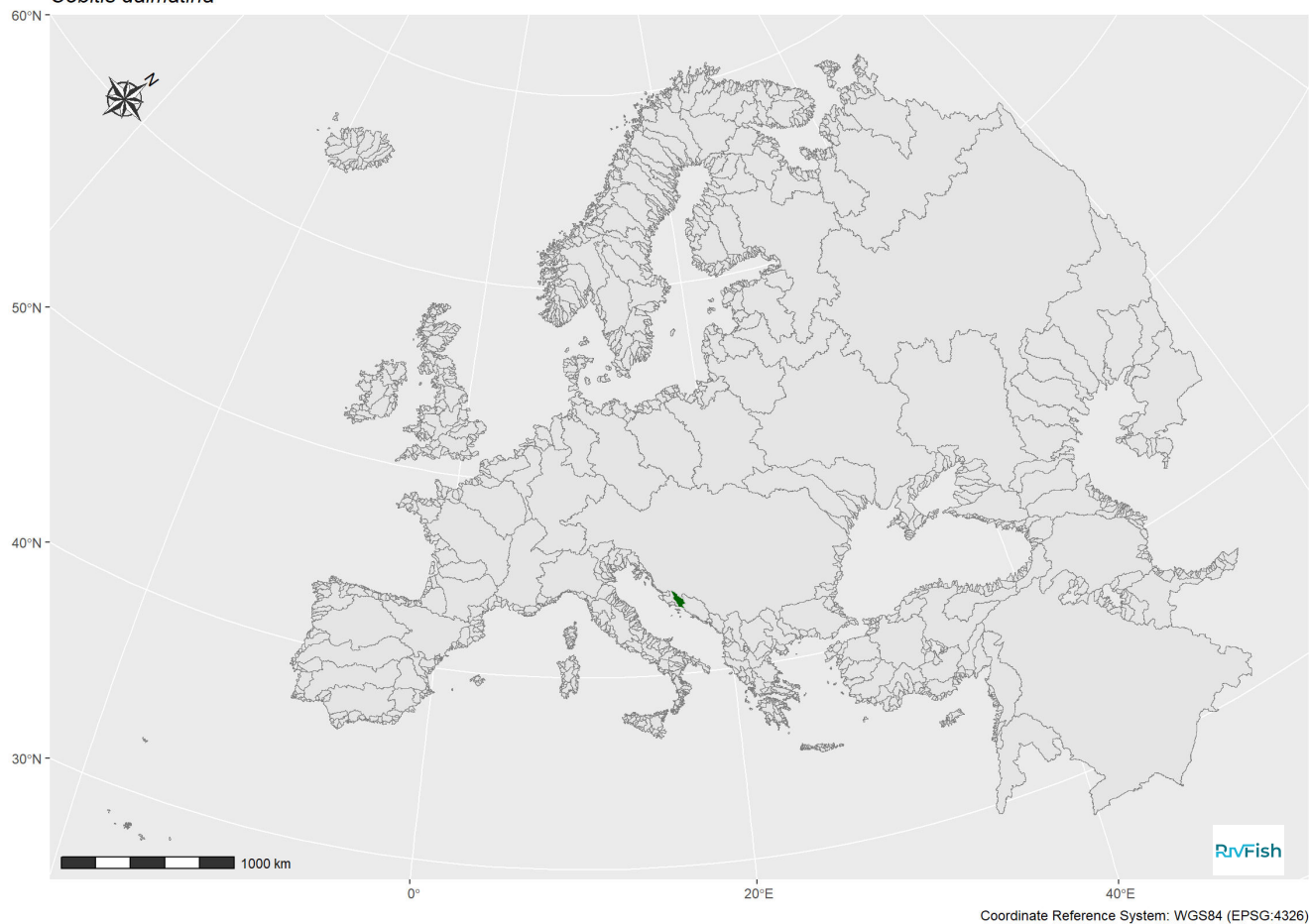
Cobitis bilseii



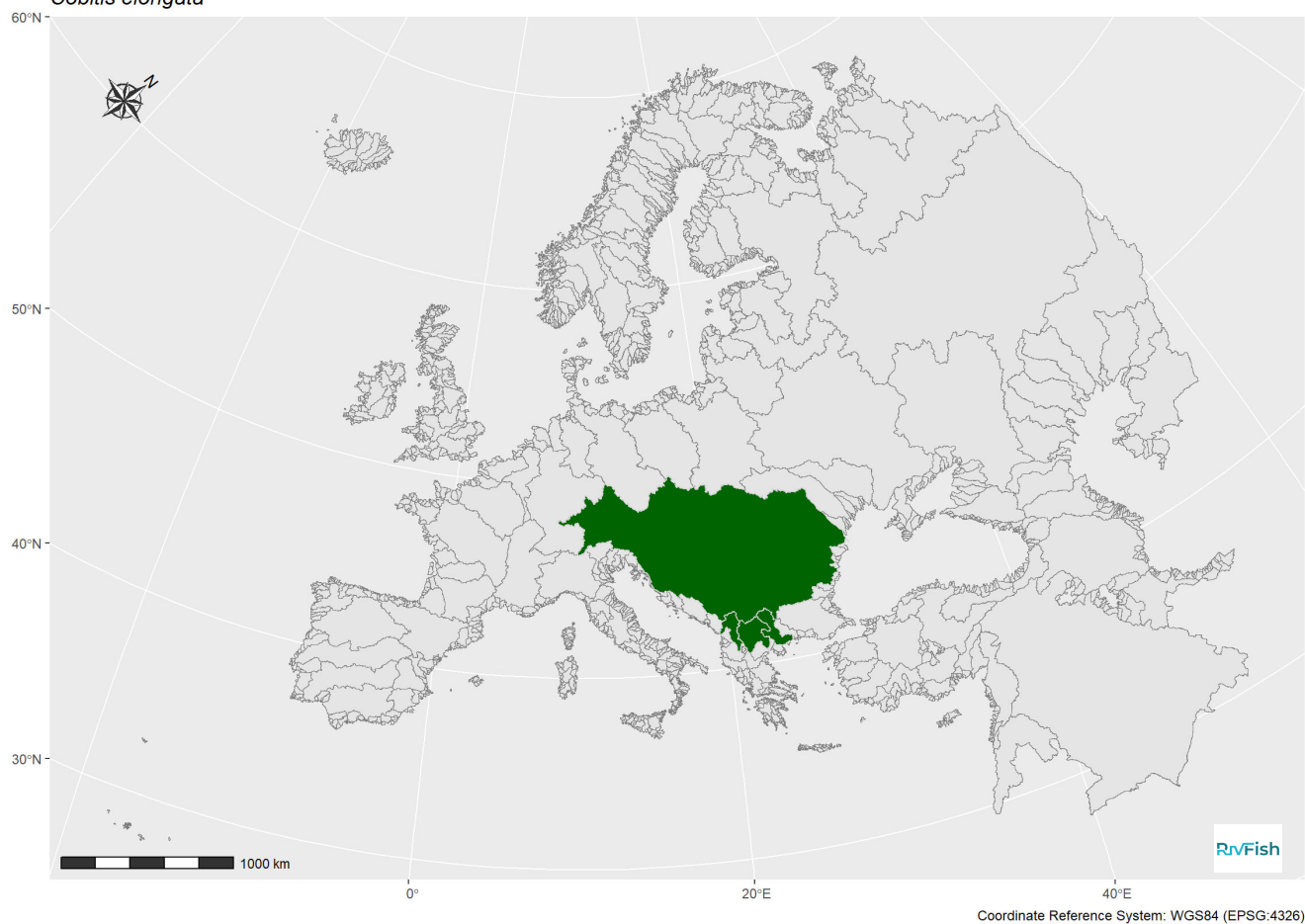
Cobitis calderoni



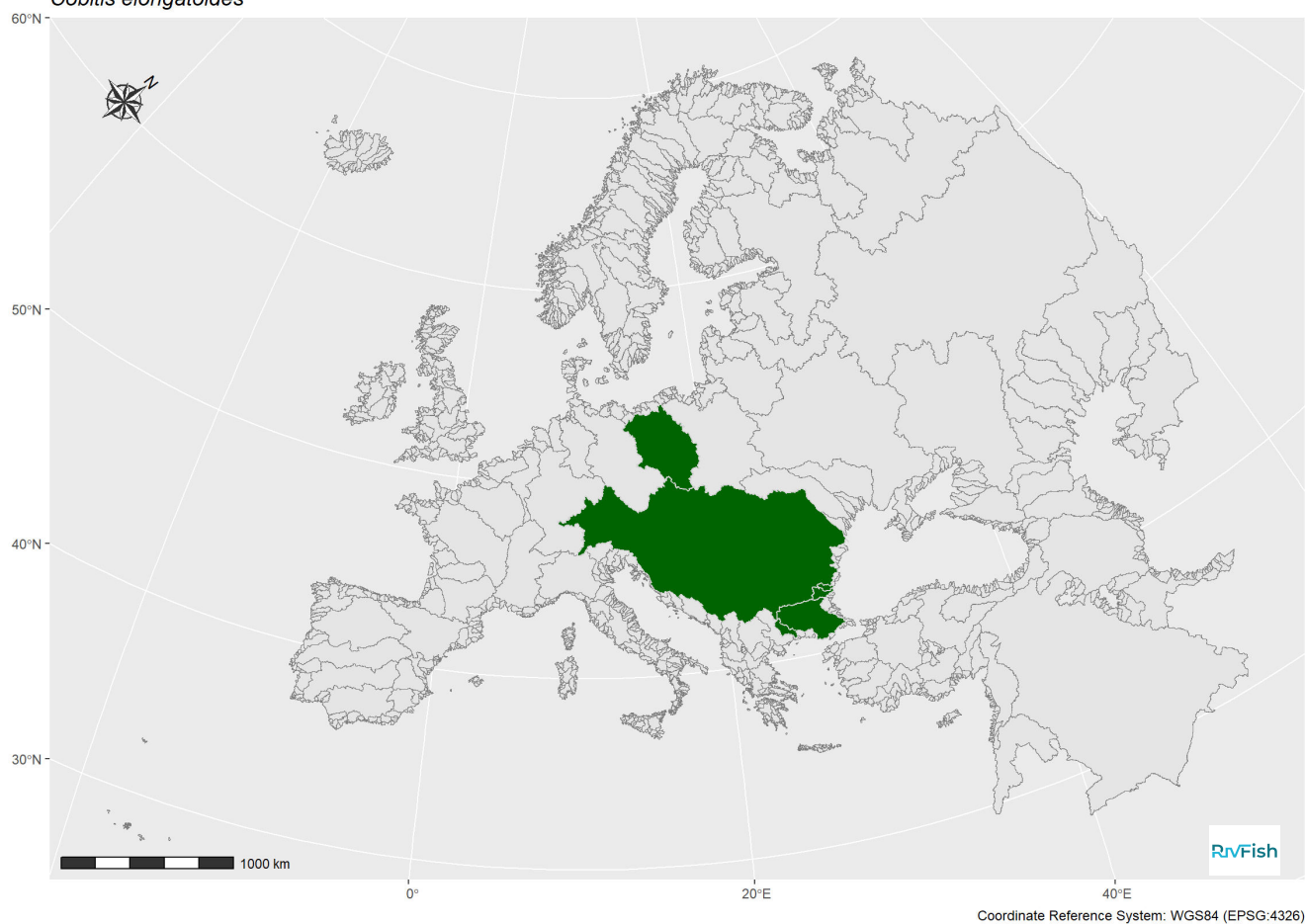
Cobitis dalmatina



Cobitis elongata

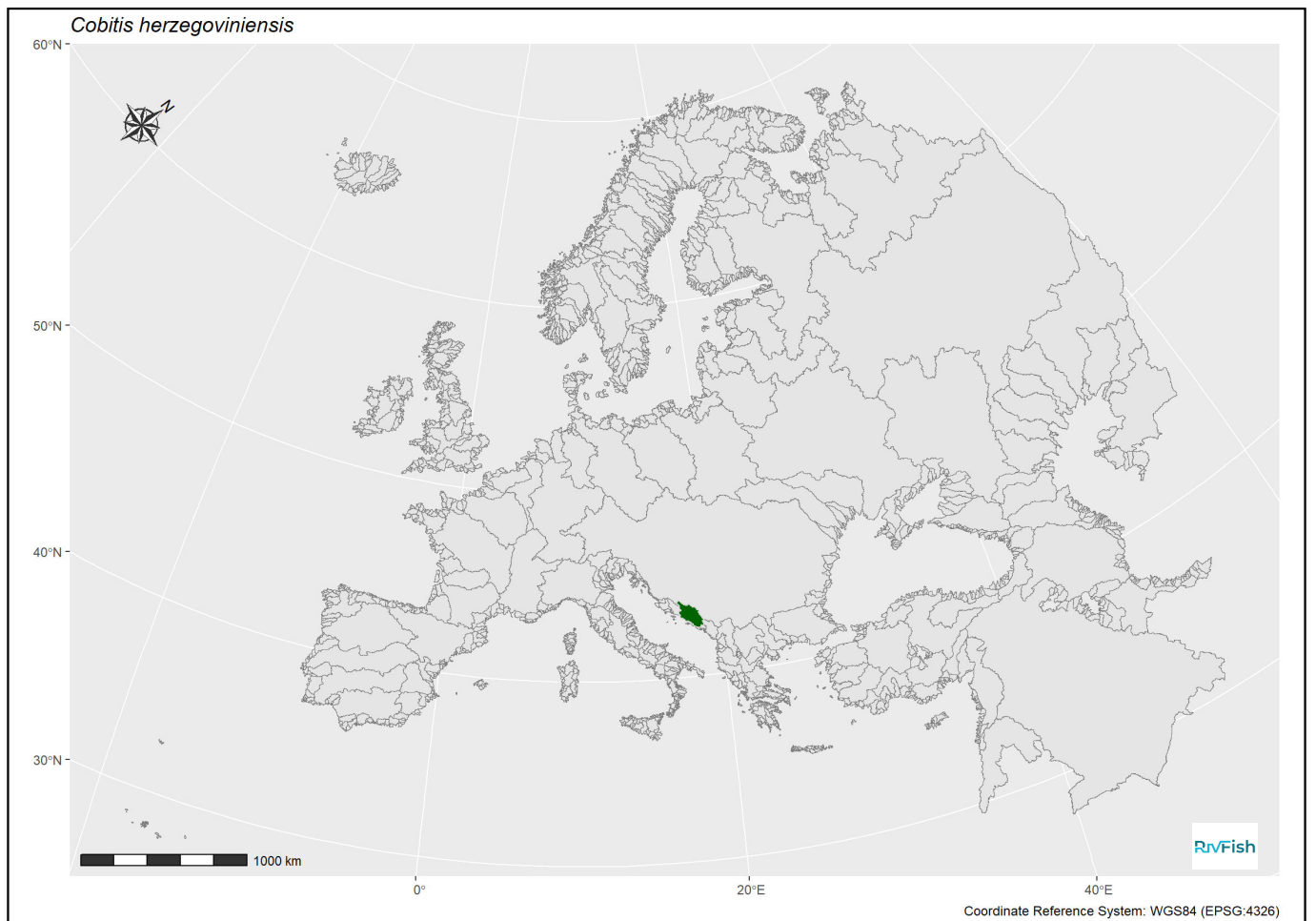
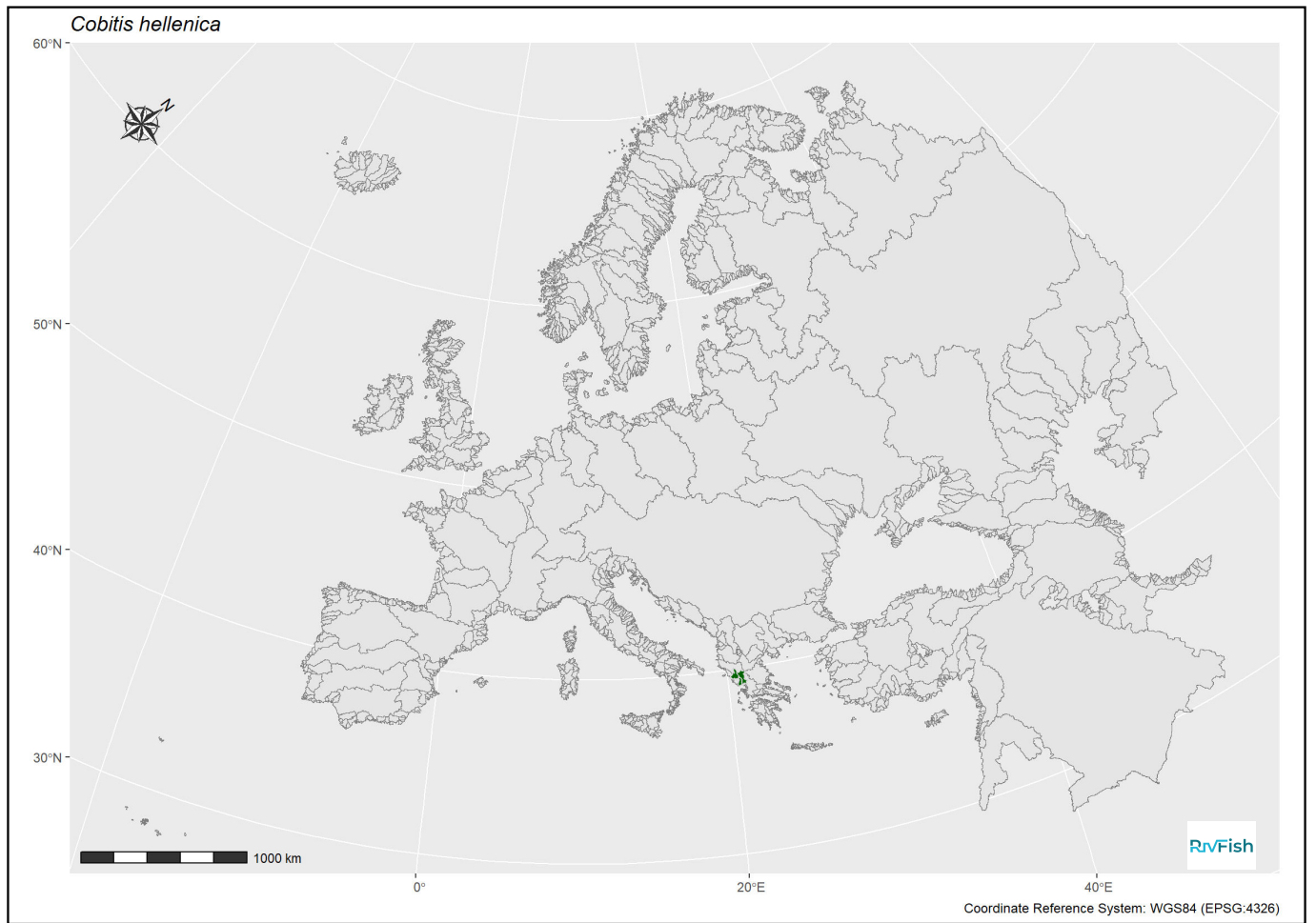


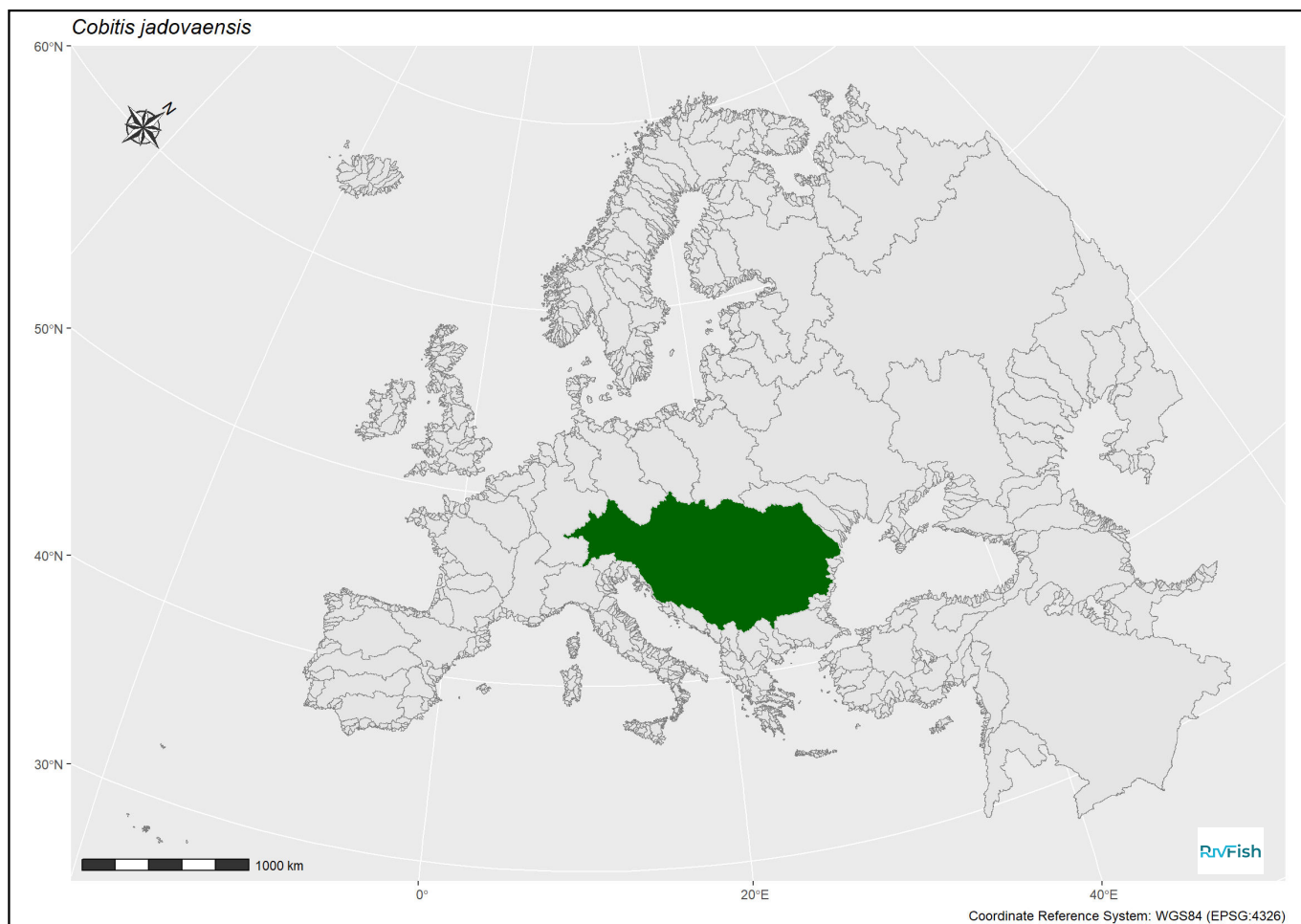
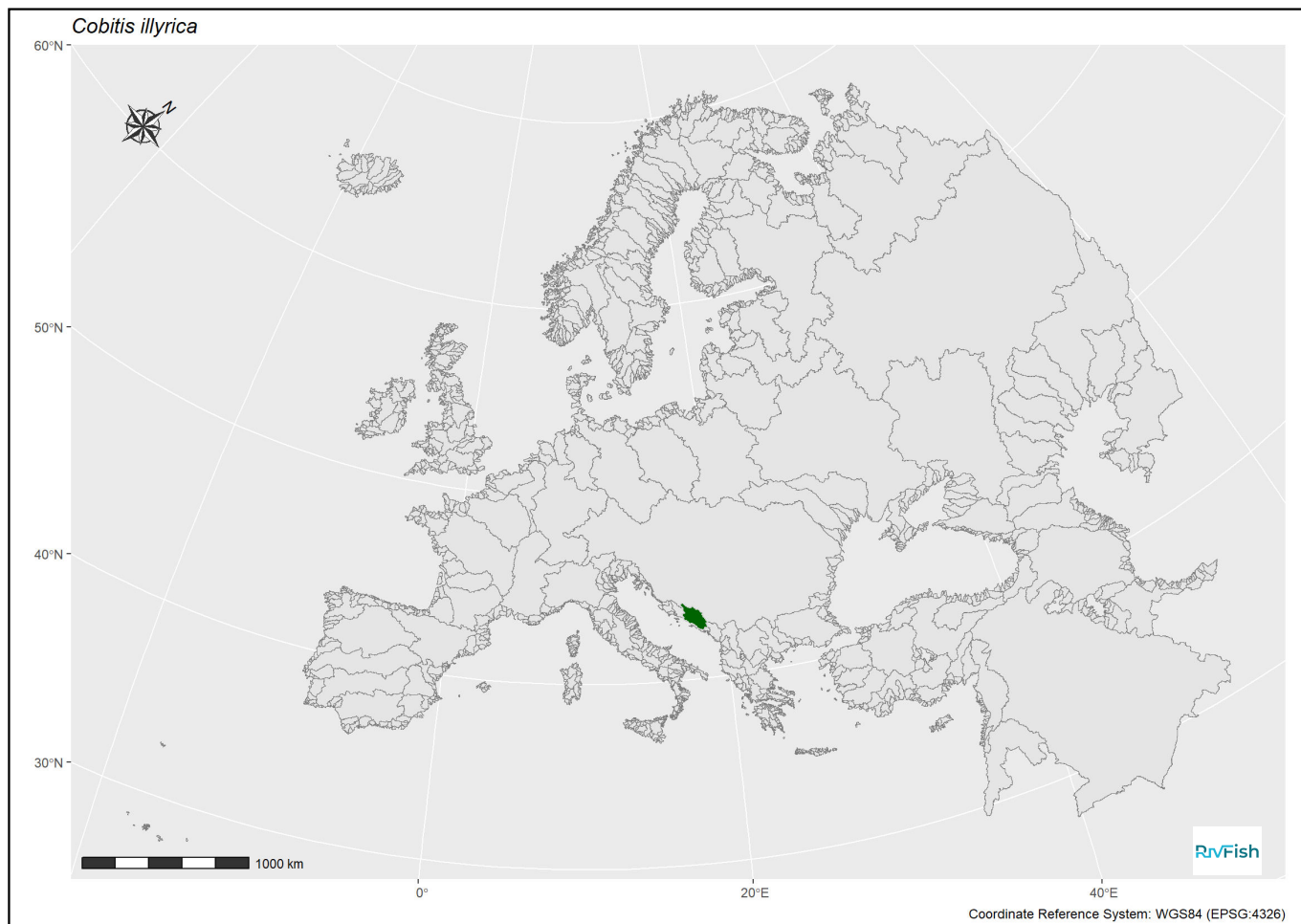
Cobitis elongatoides



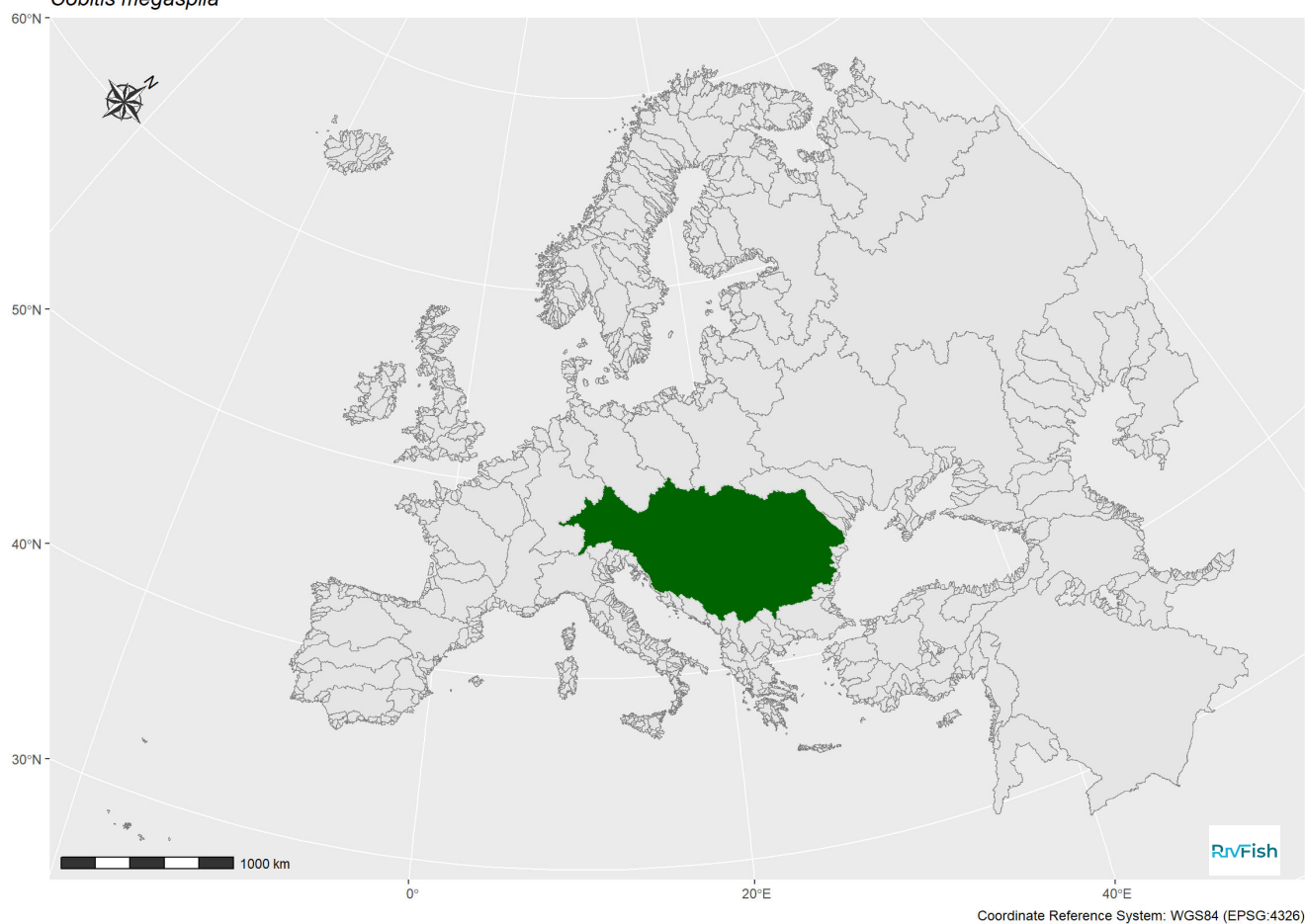
Cobitis evreni



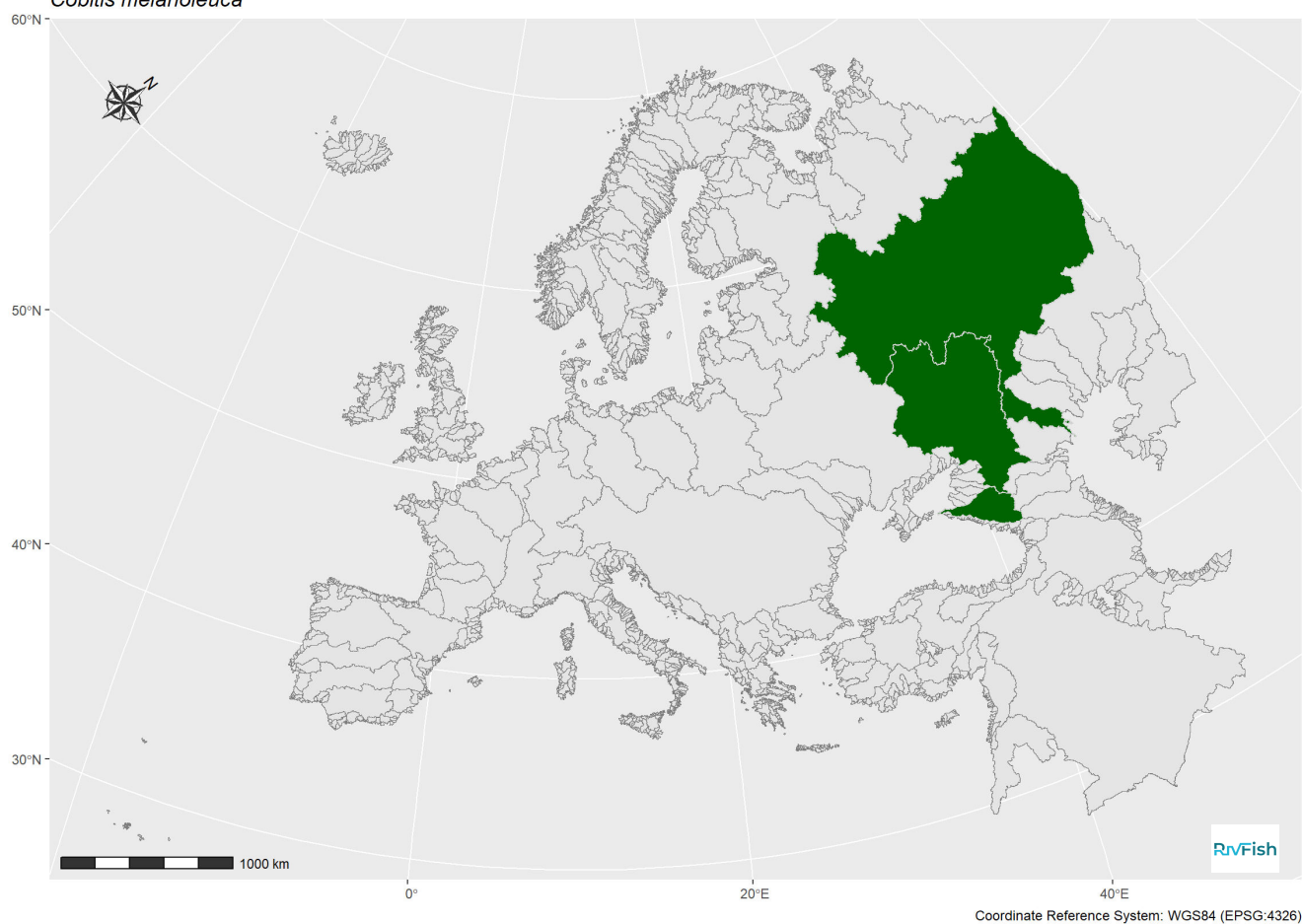




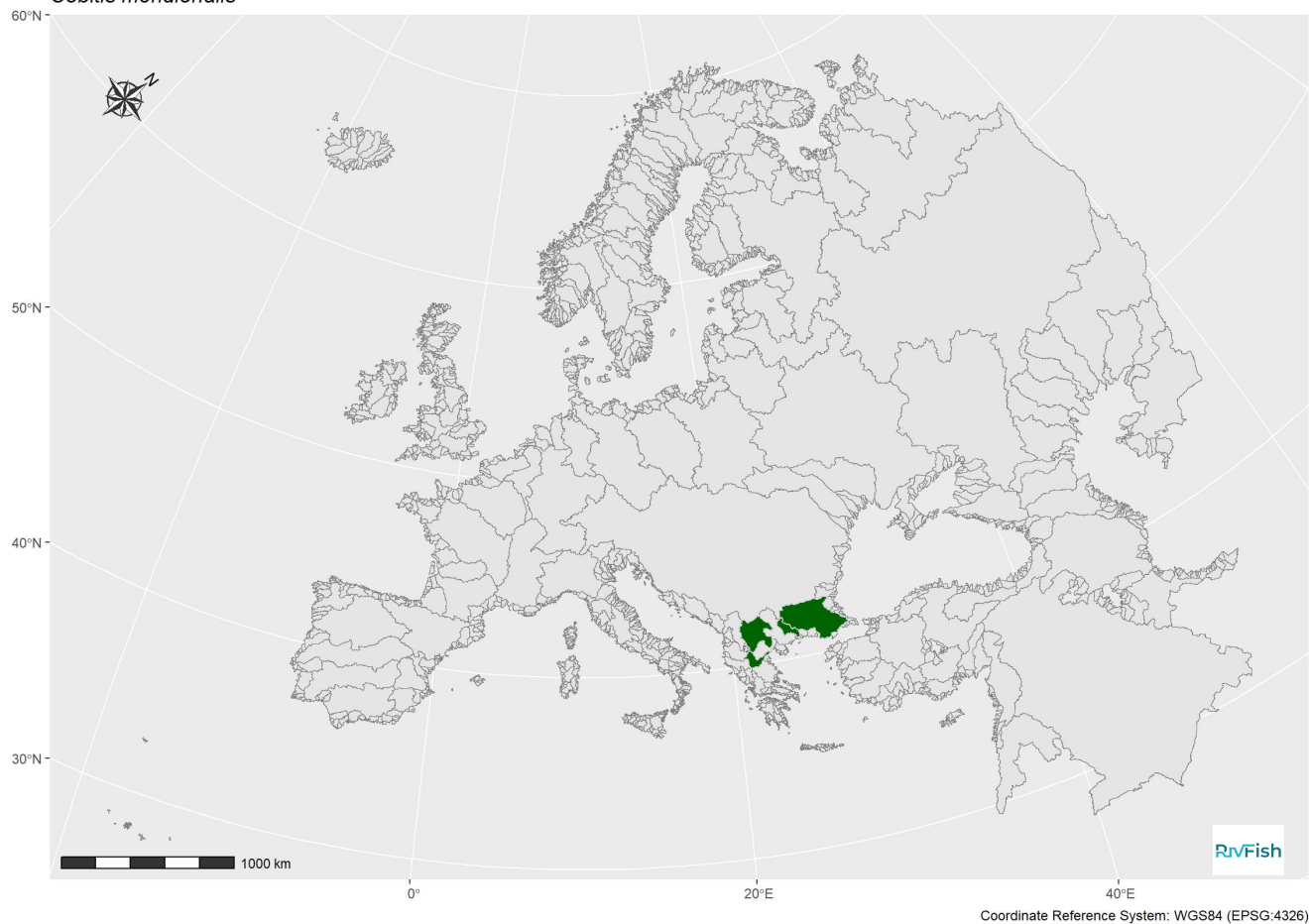
Cobitis megaspila



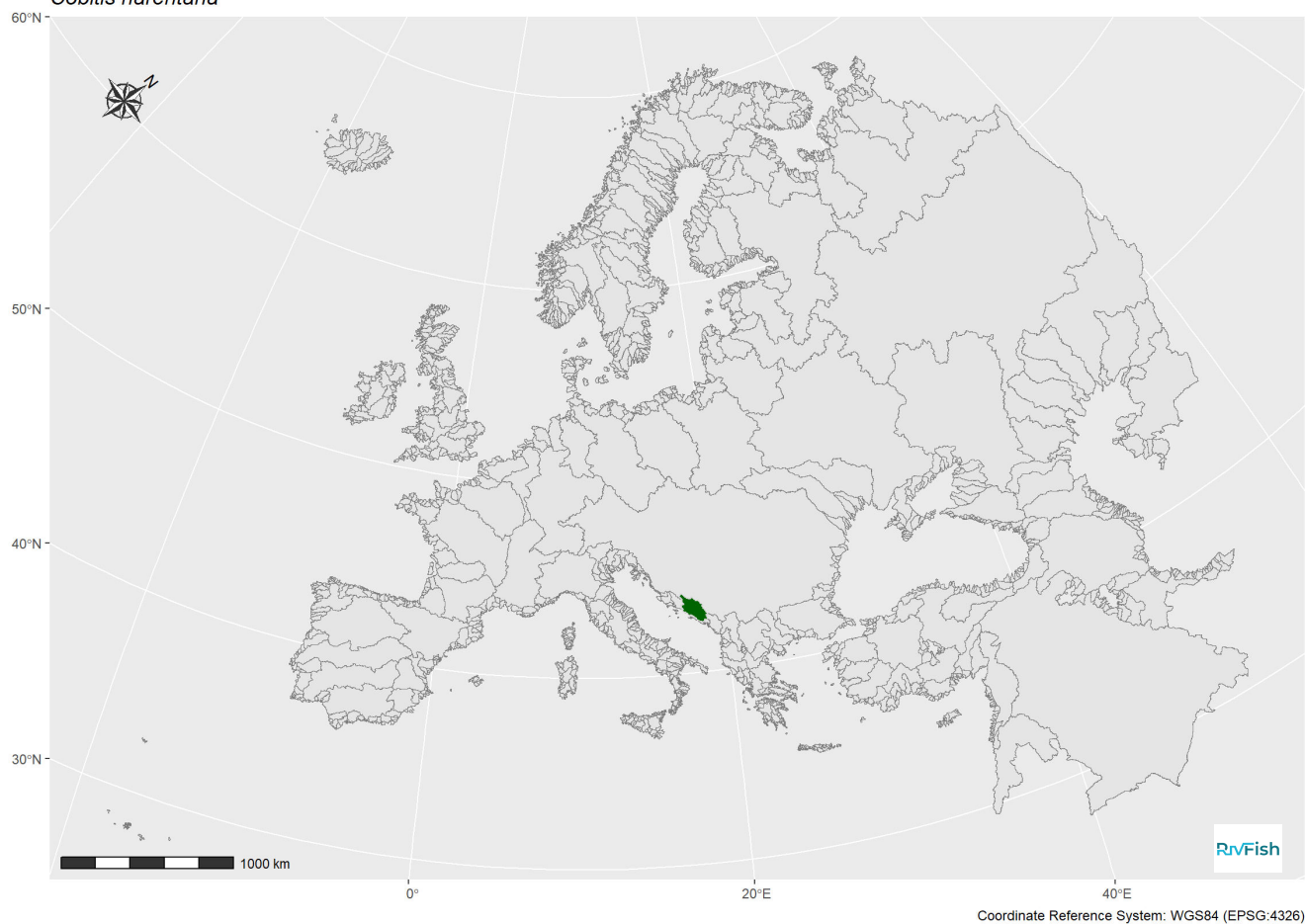
Cobitis melanoleuca



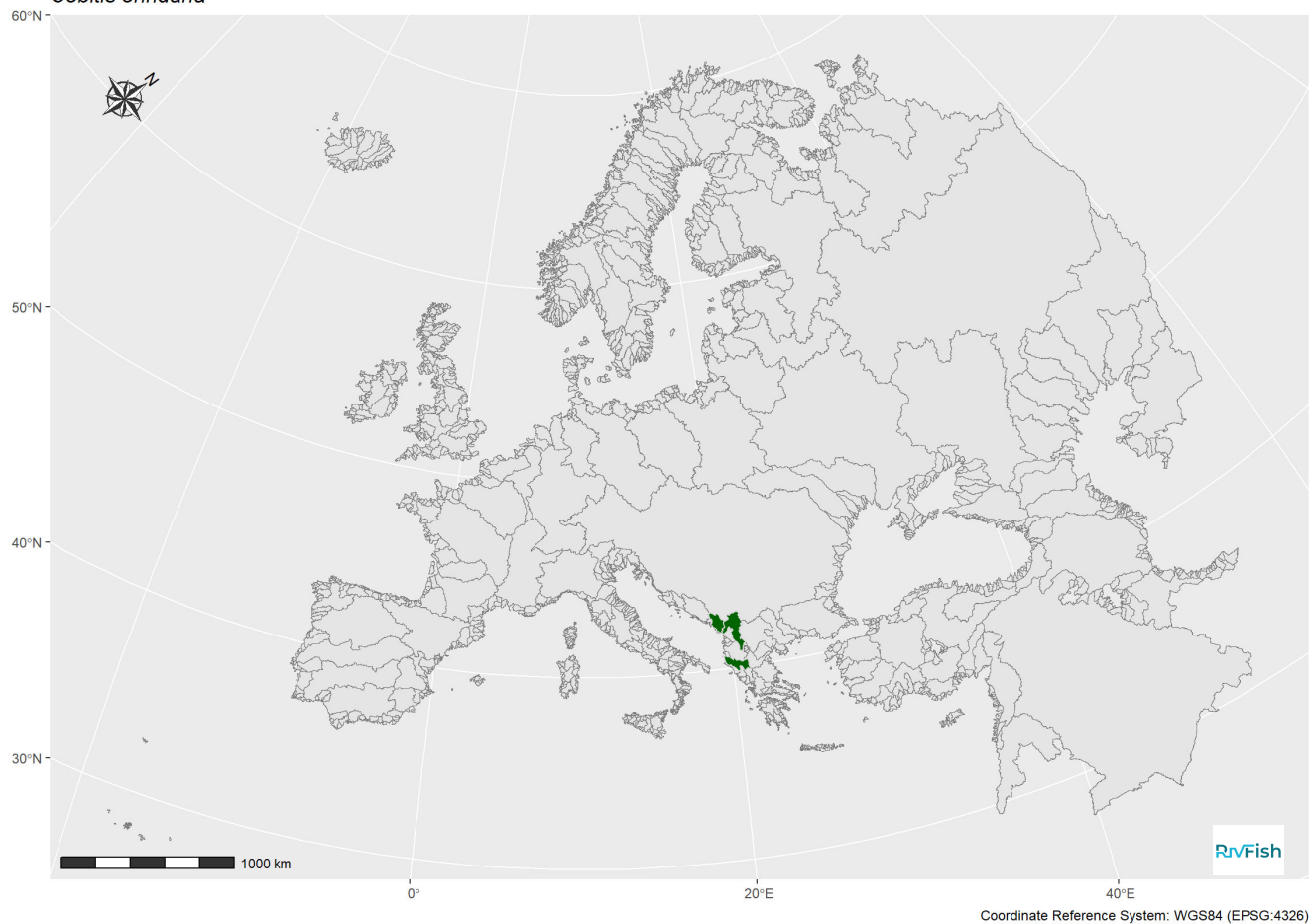
Cobitis meridionalis



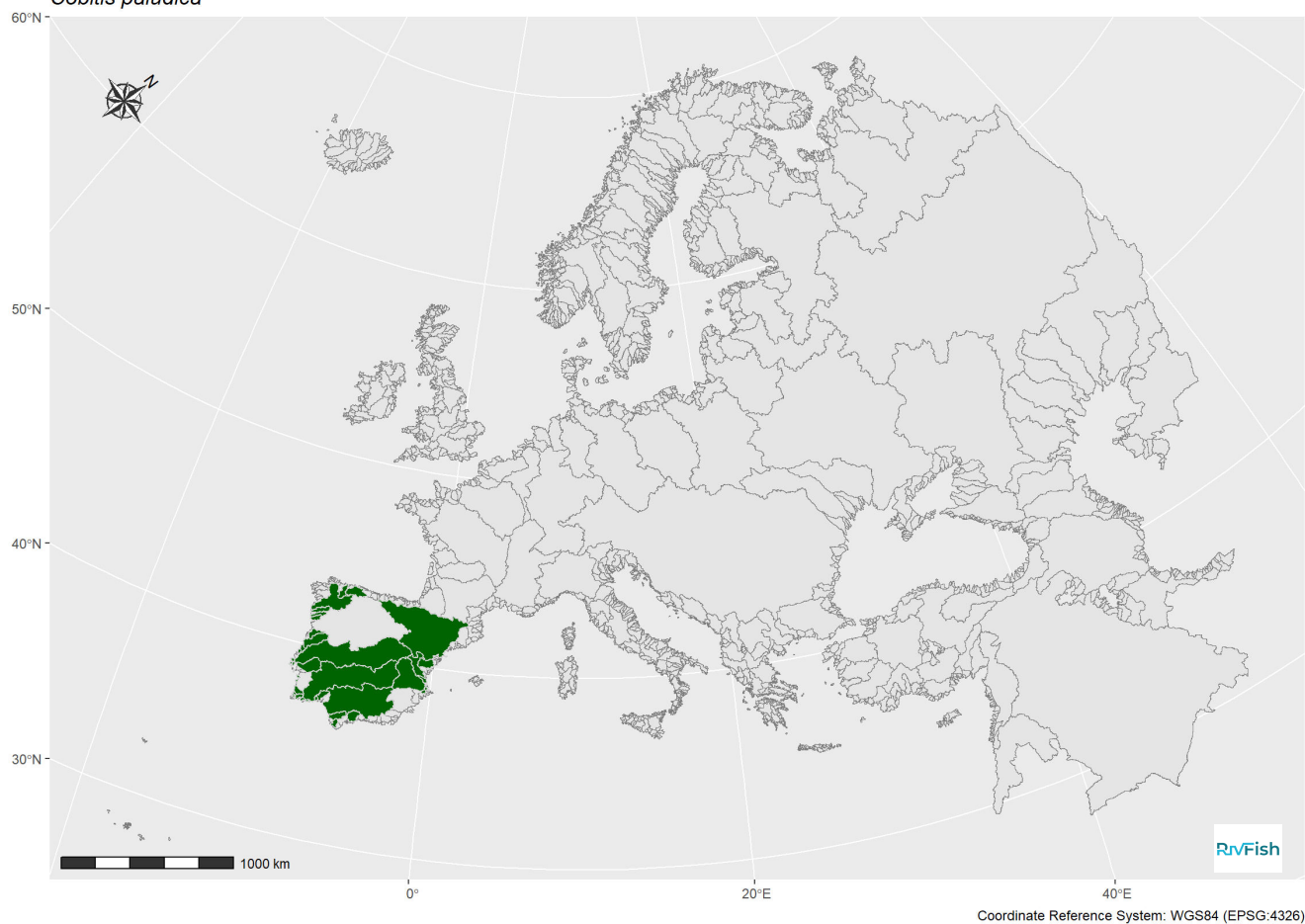
Cobitis narentana

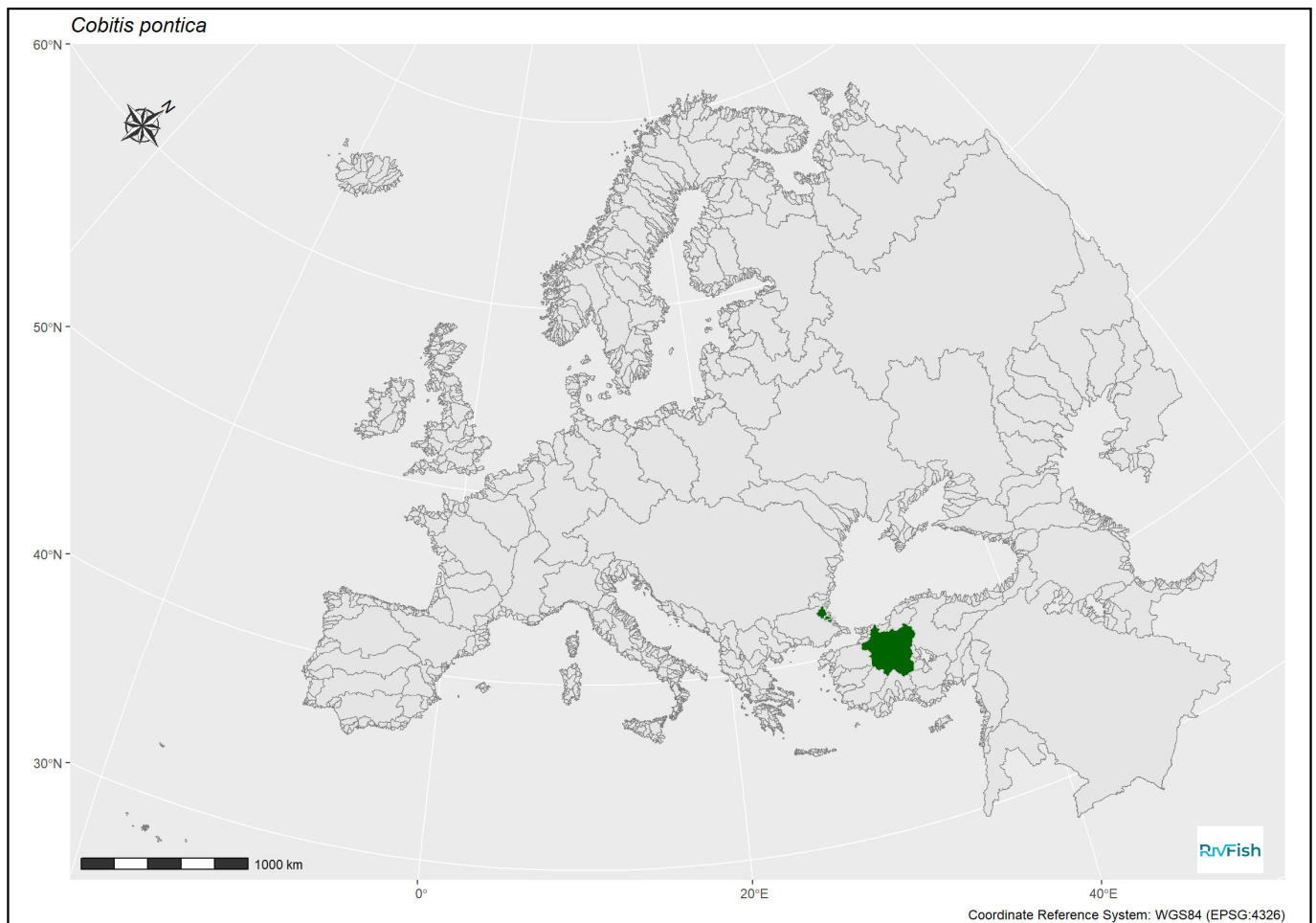
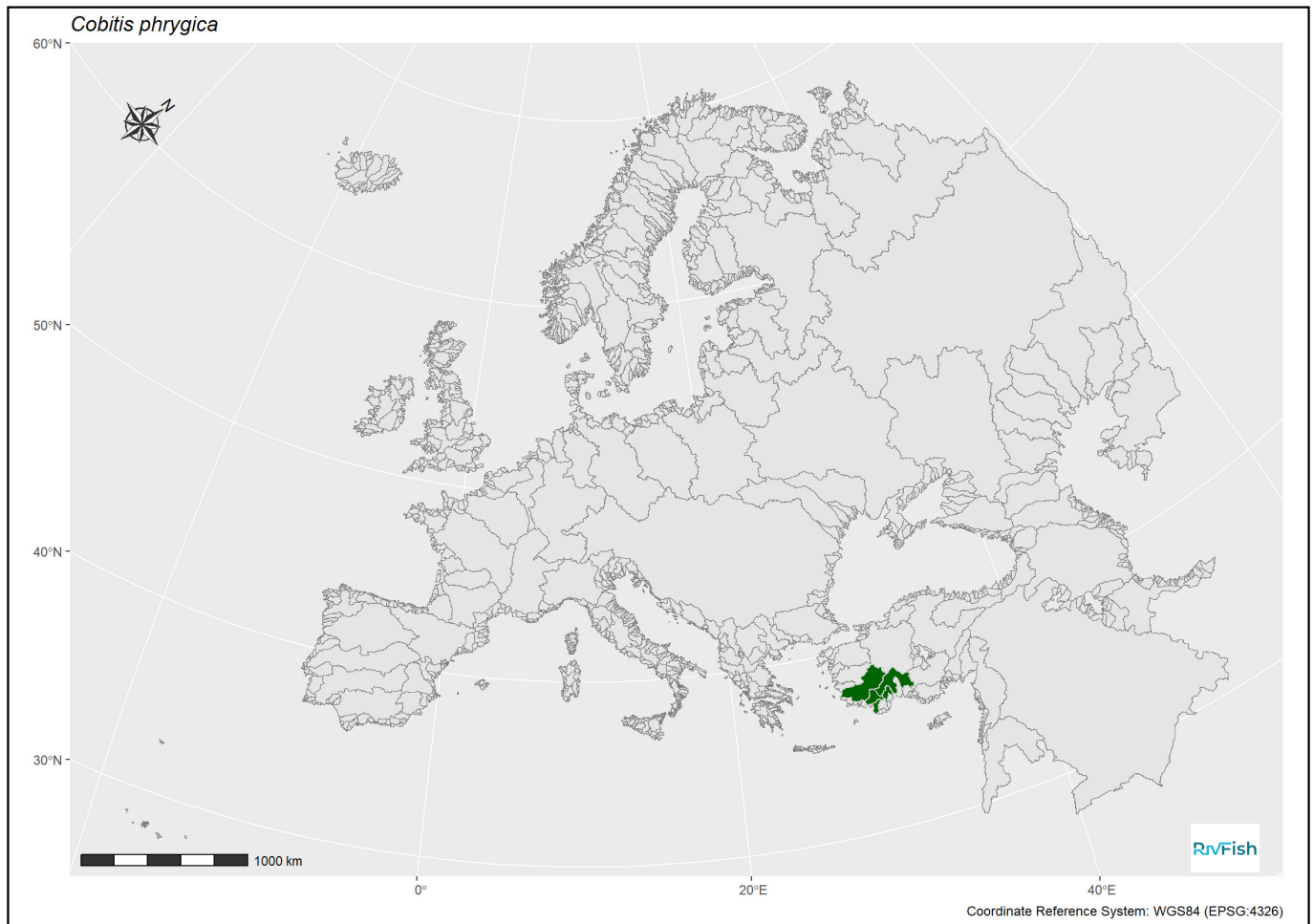


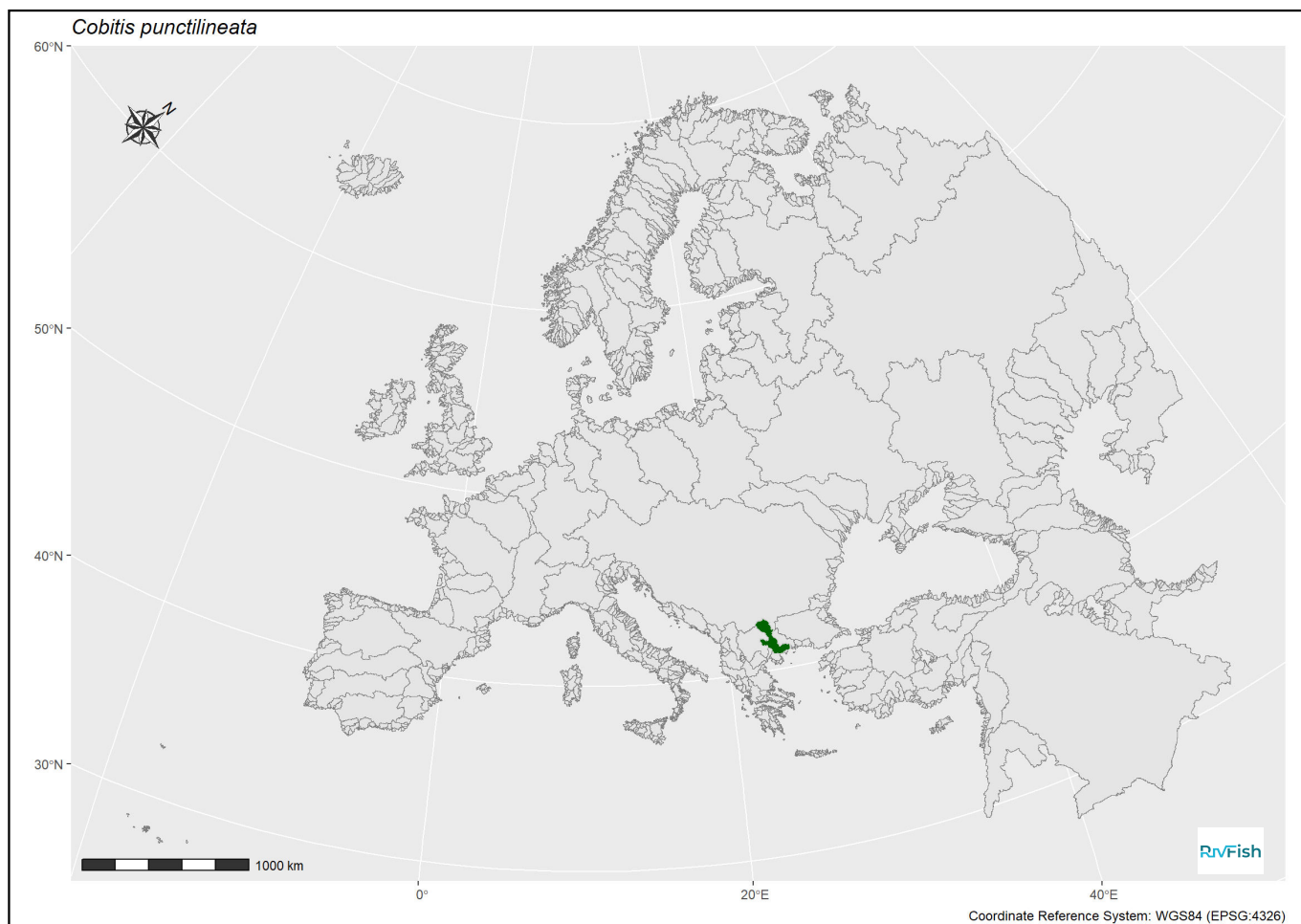
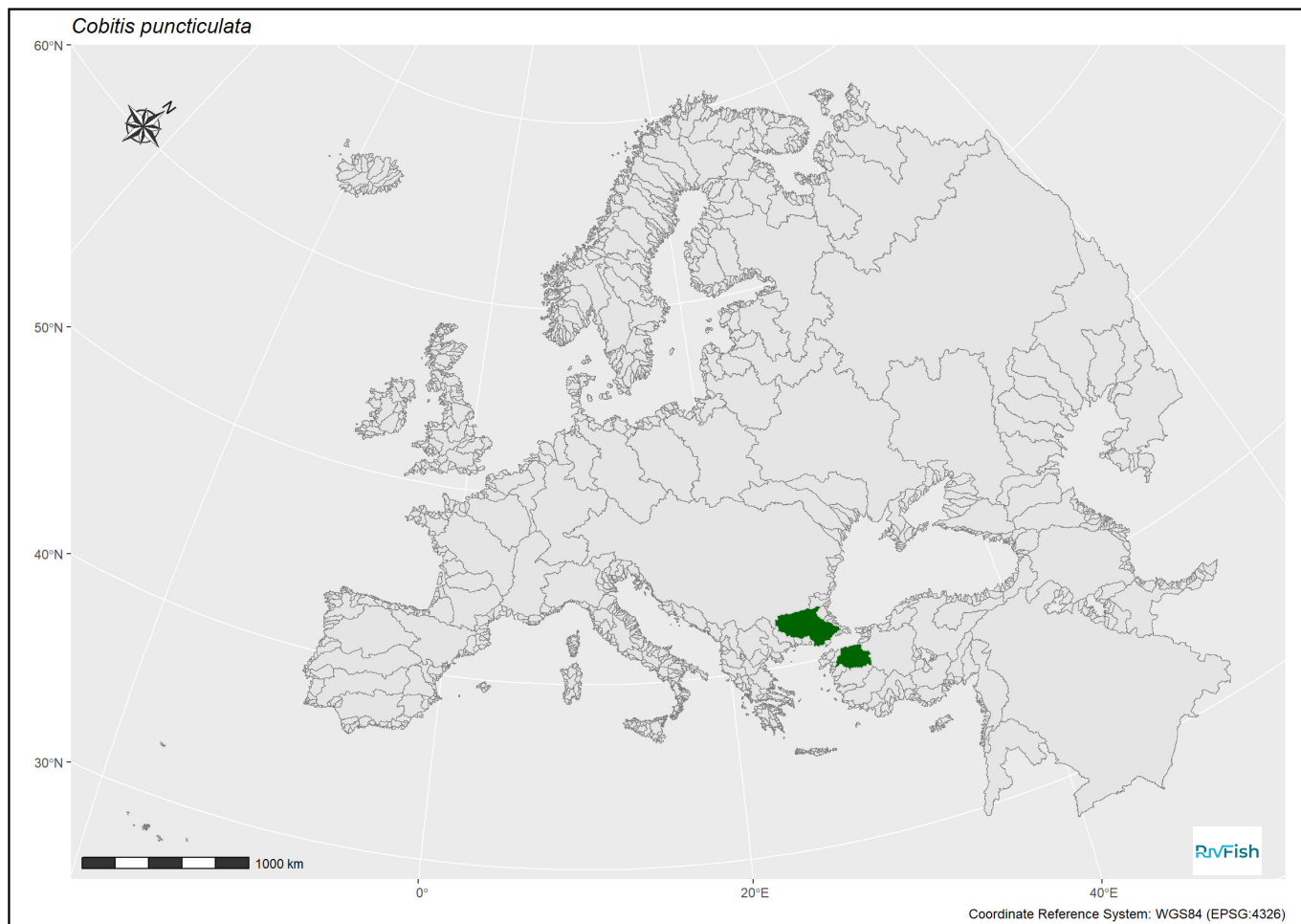
Cobitis ohridana

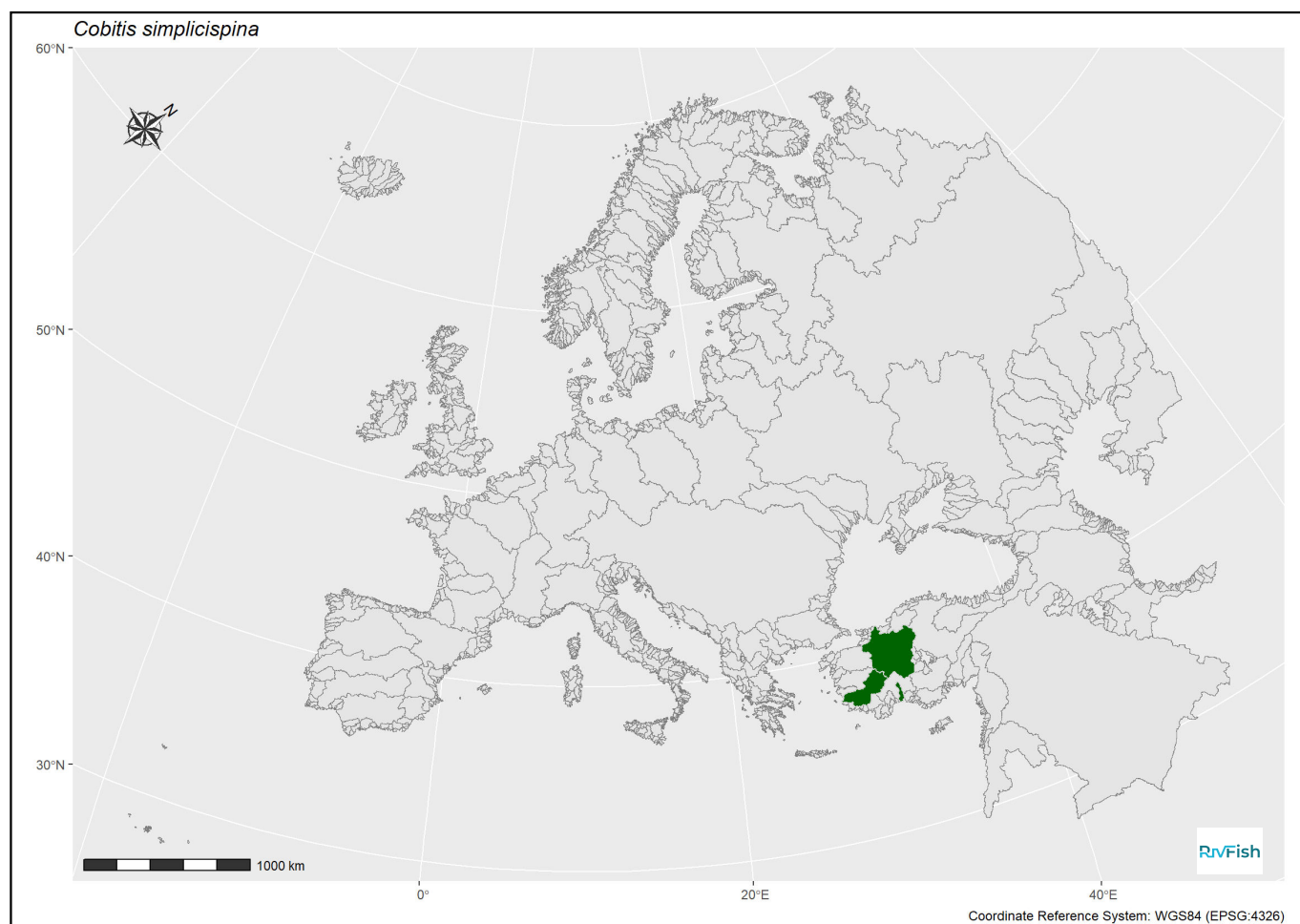
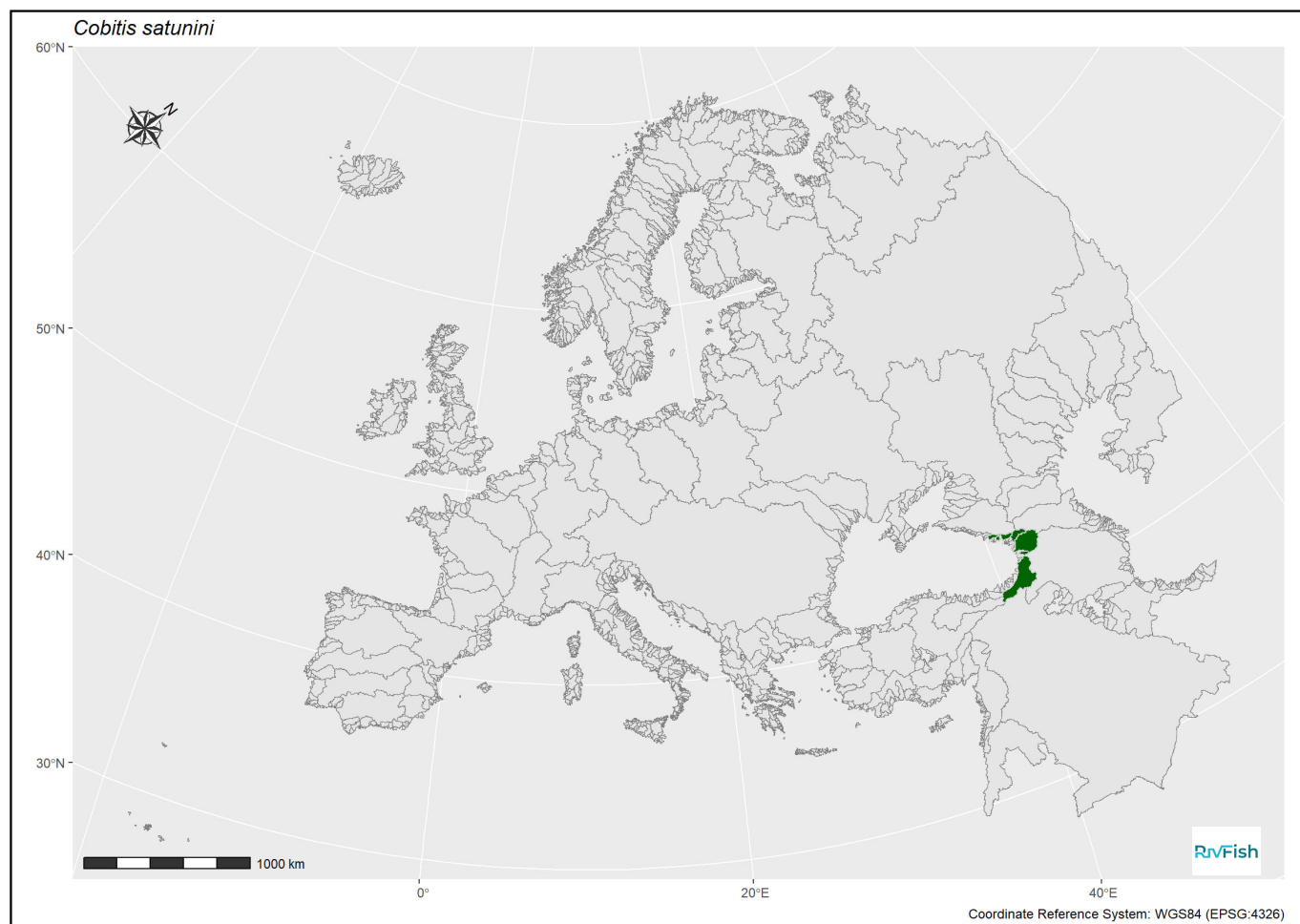


Cobitis paludica







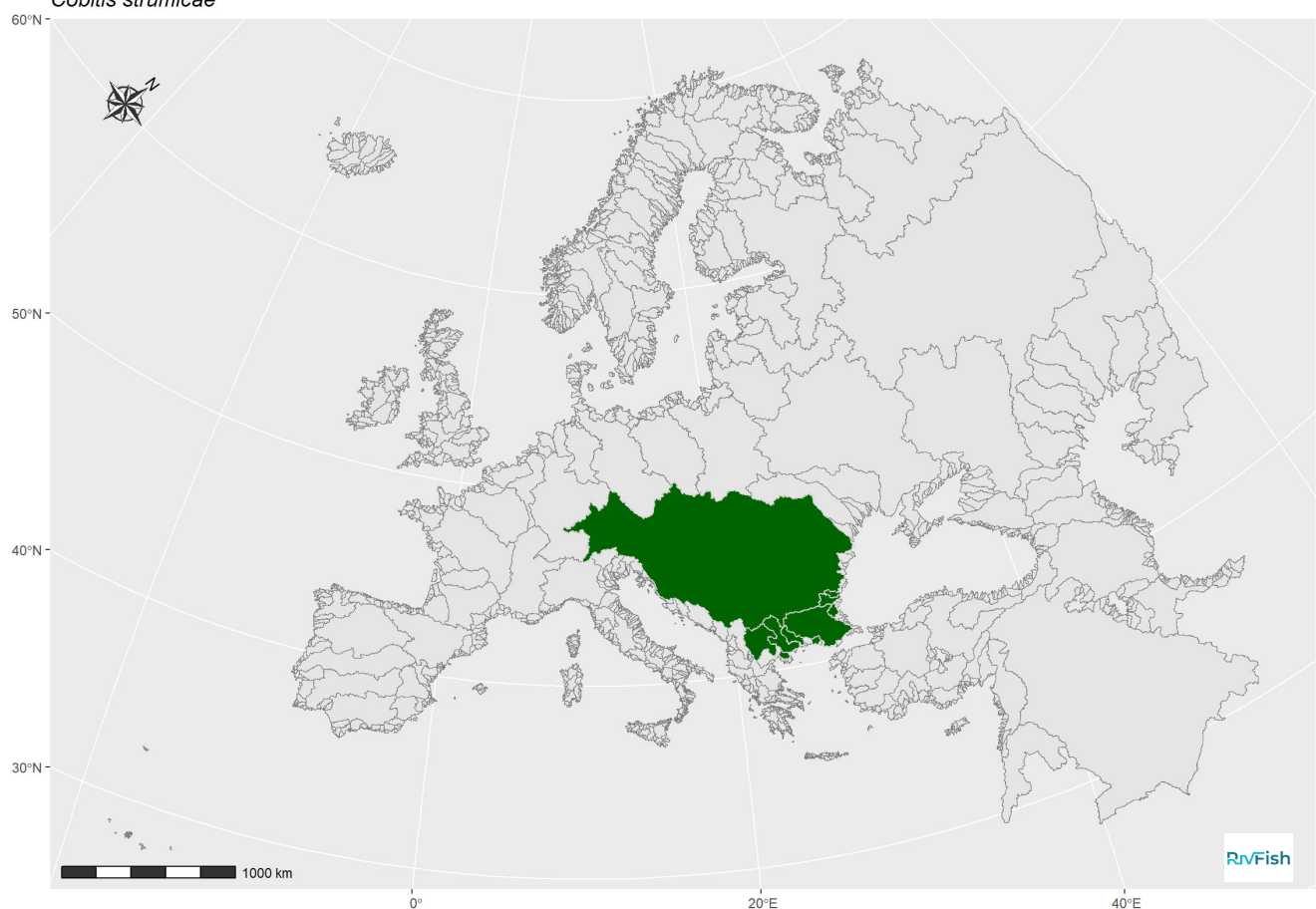


Cobitis stephanidisi

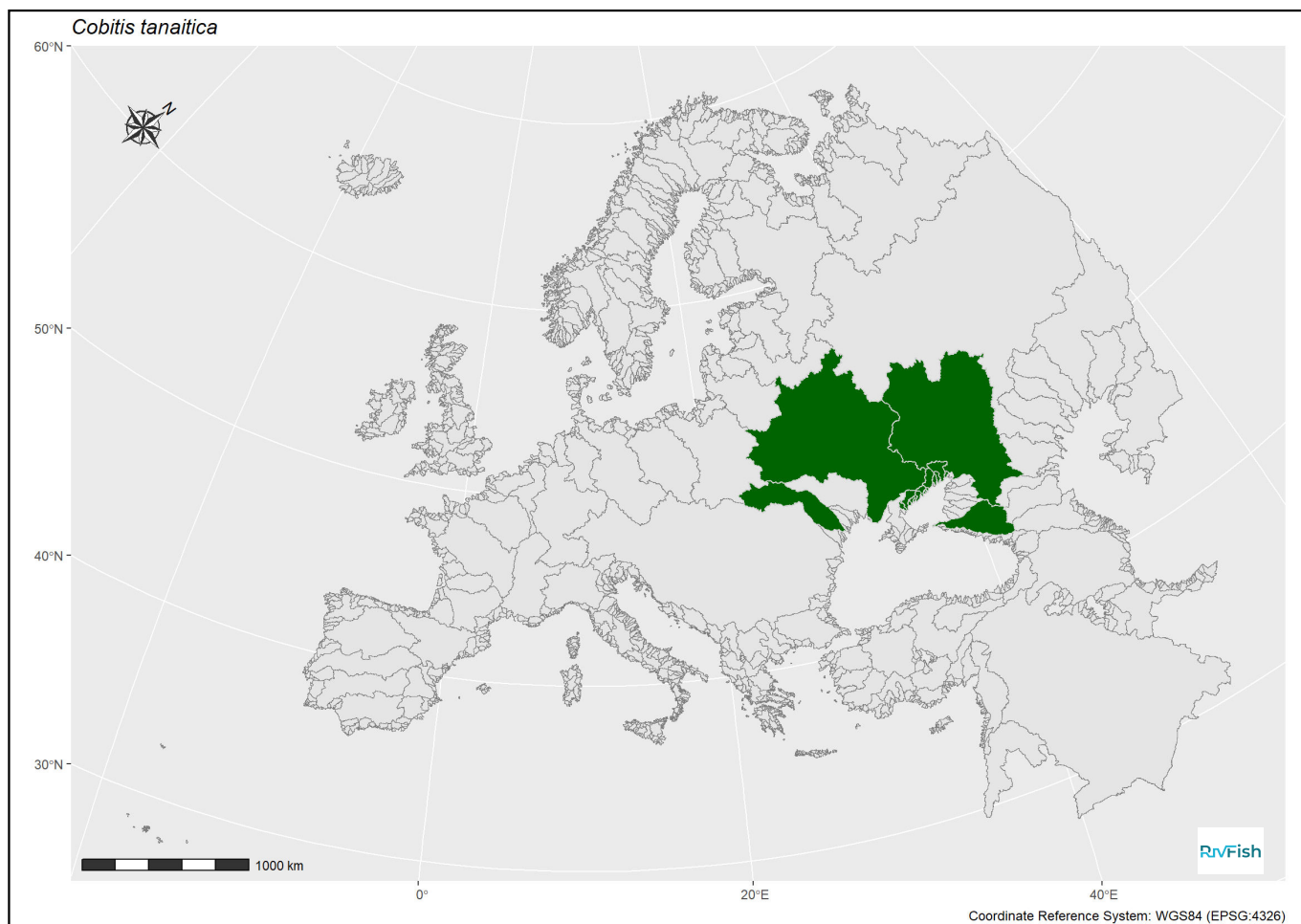
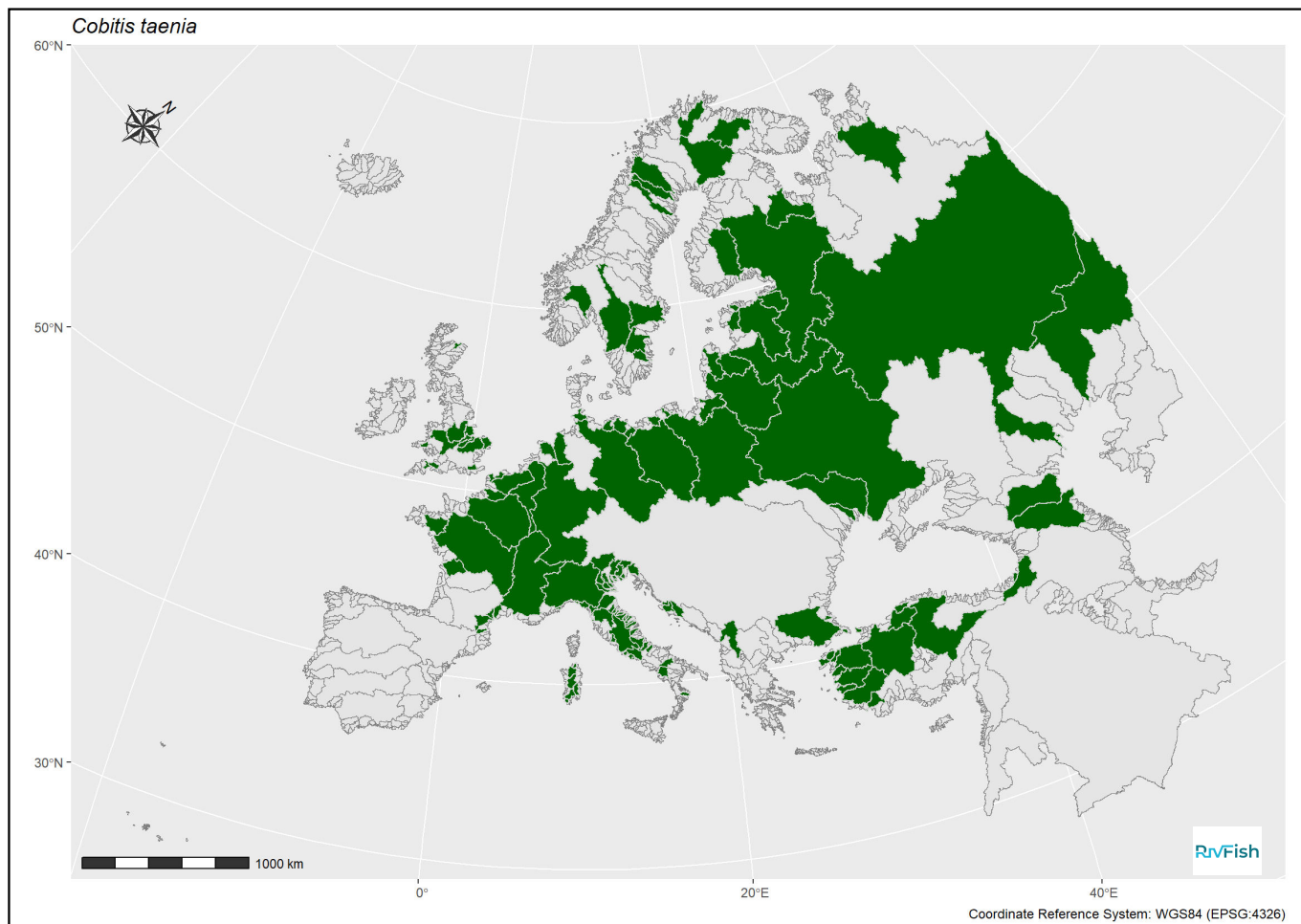


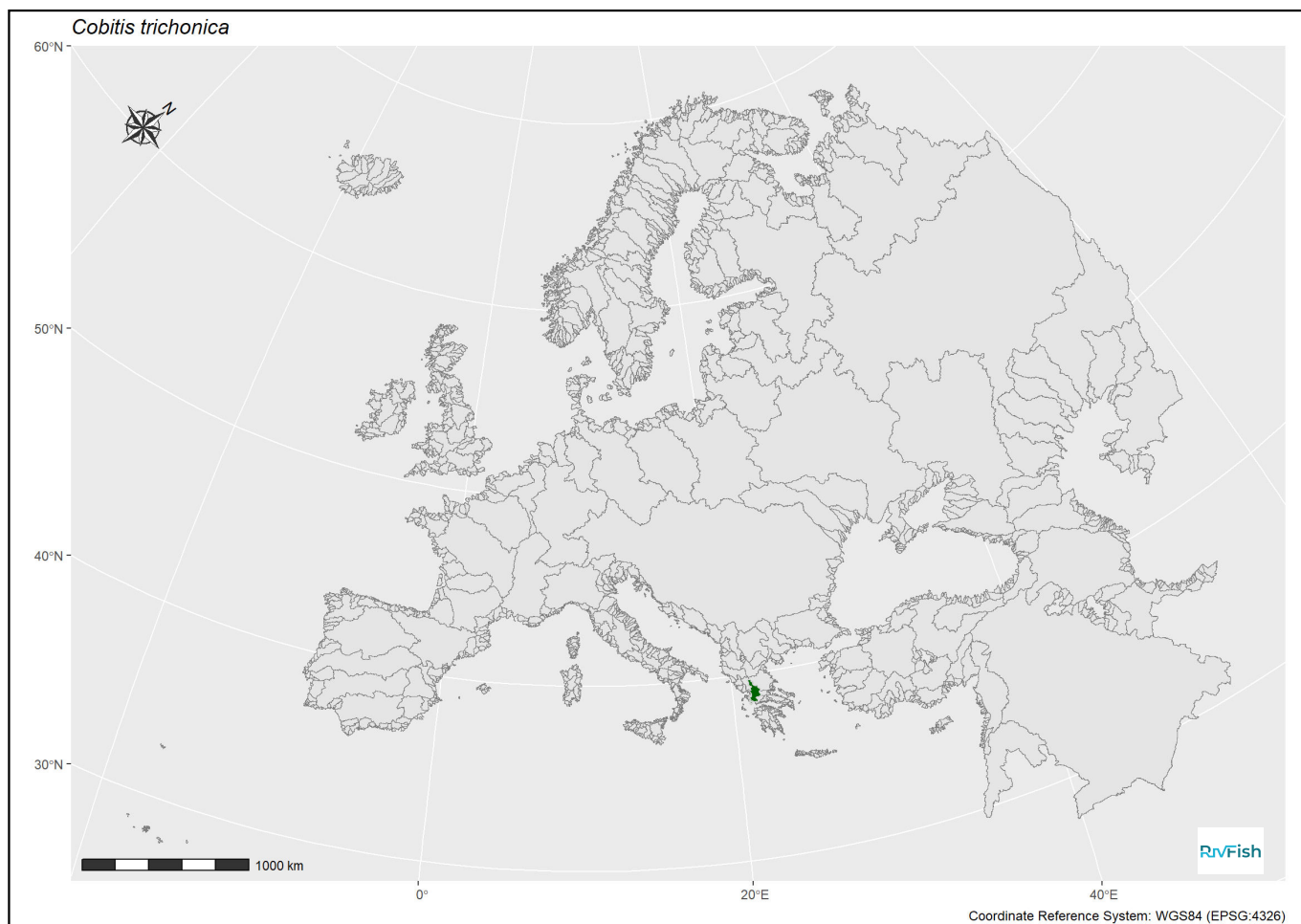
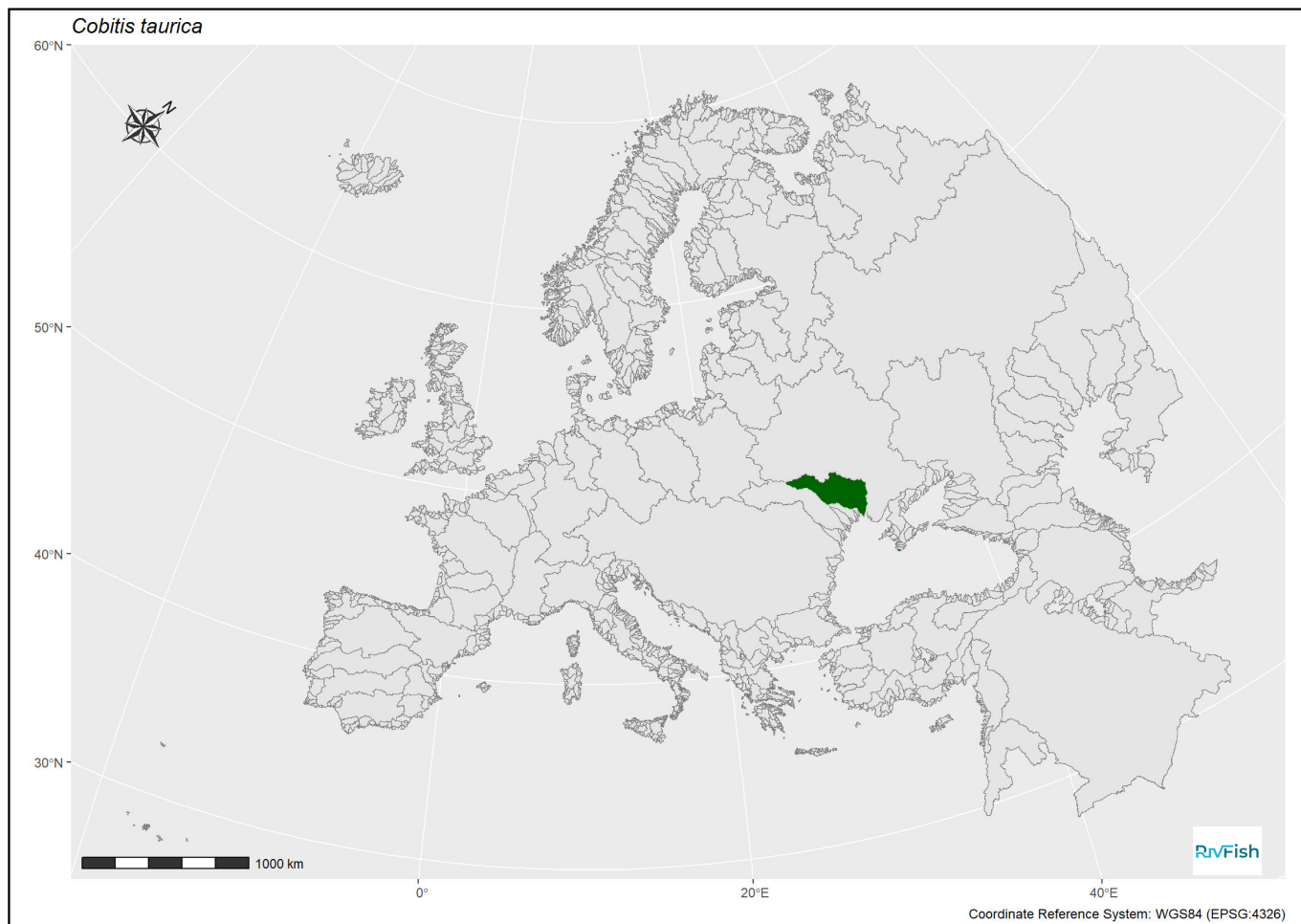
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Cobitis strumicae

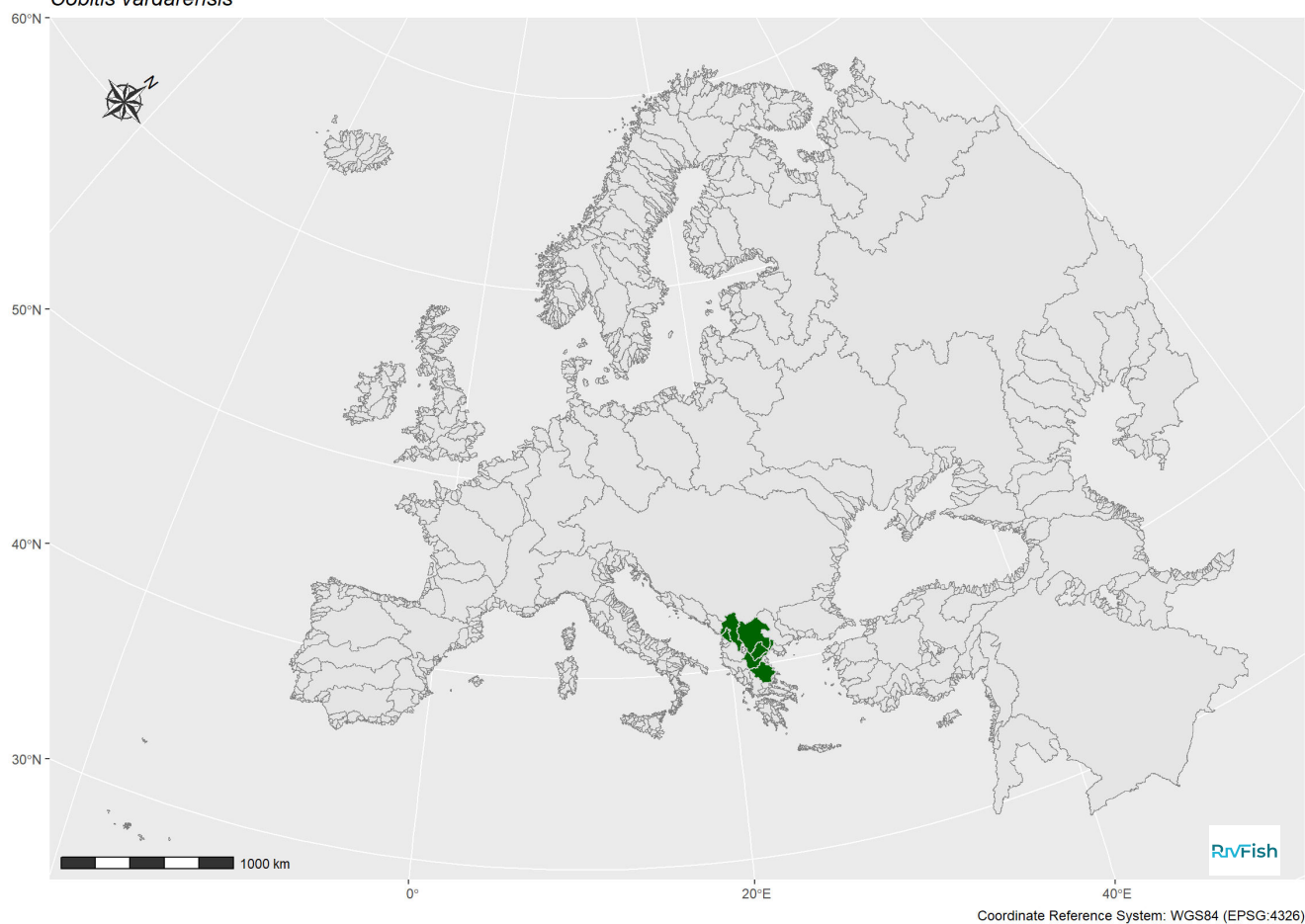


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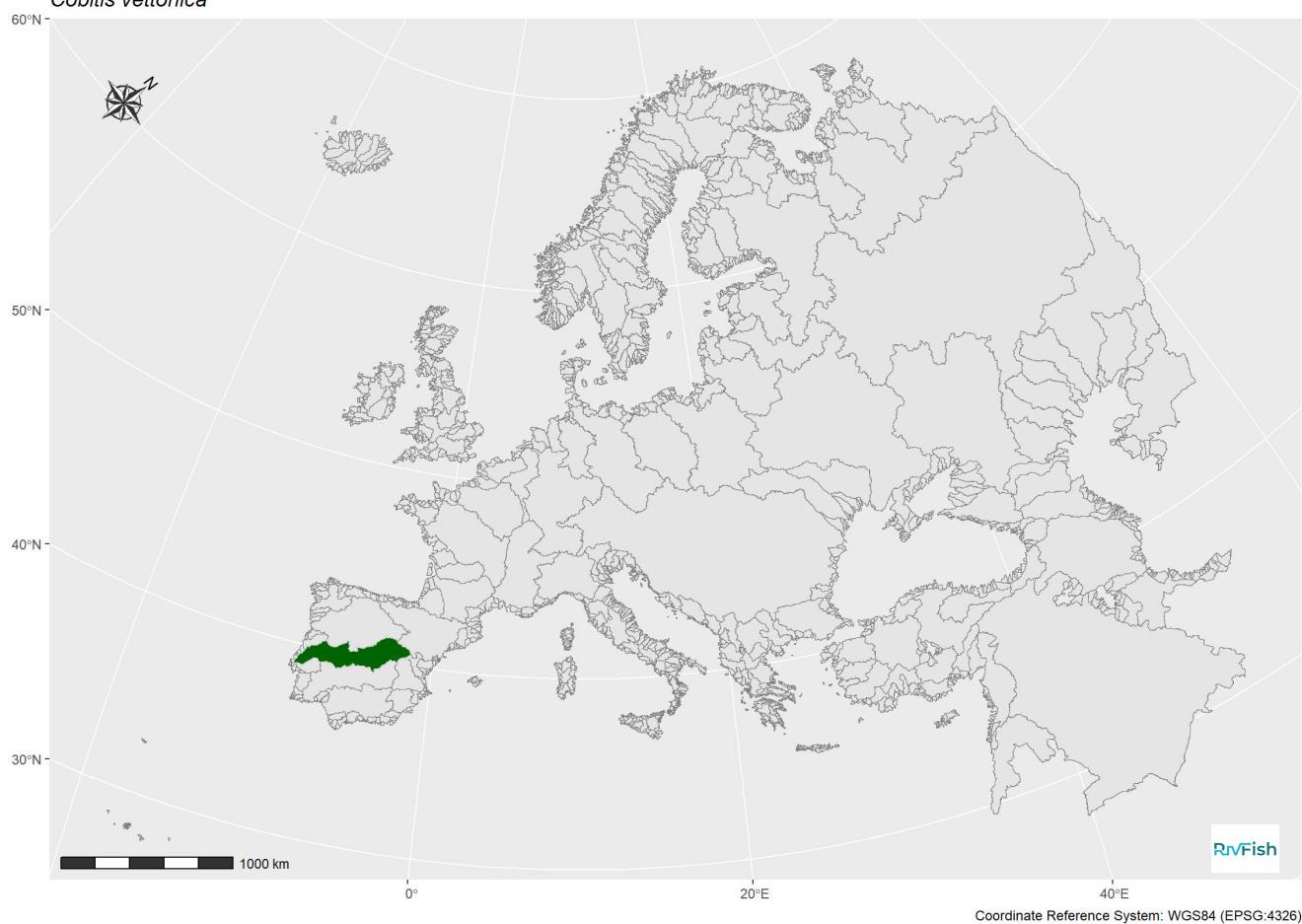




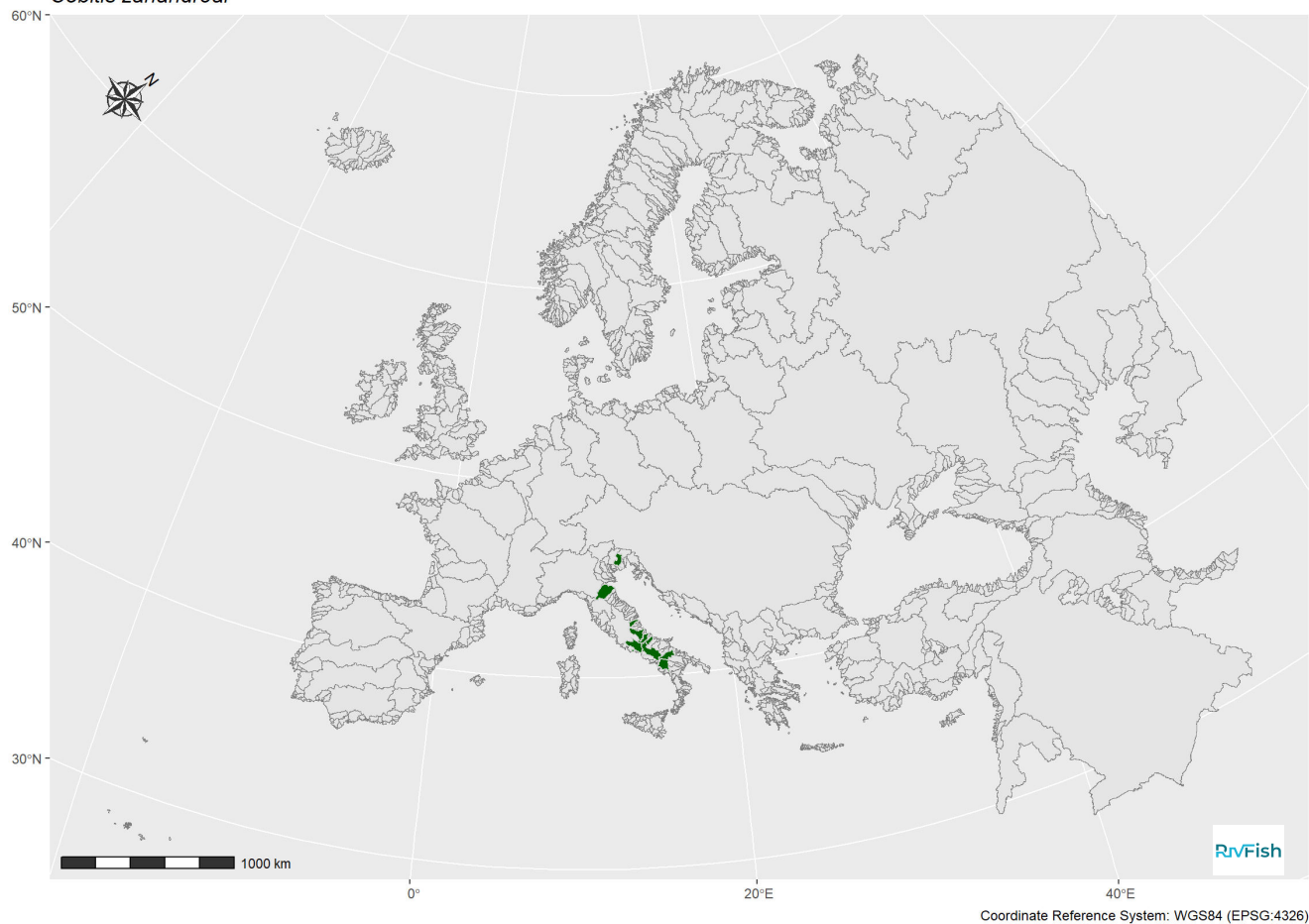
Cobitis vardarensis



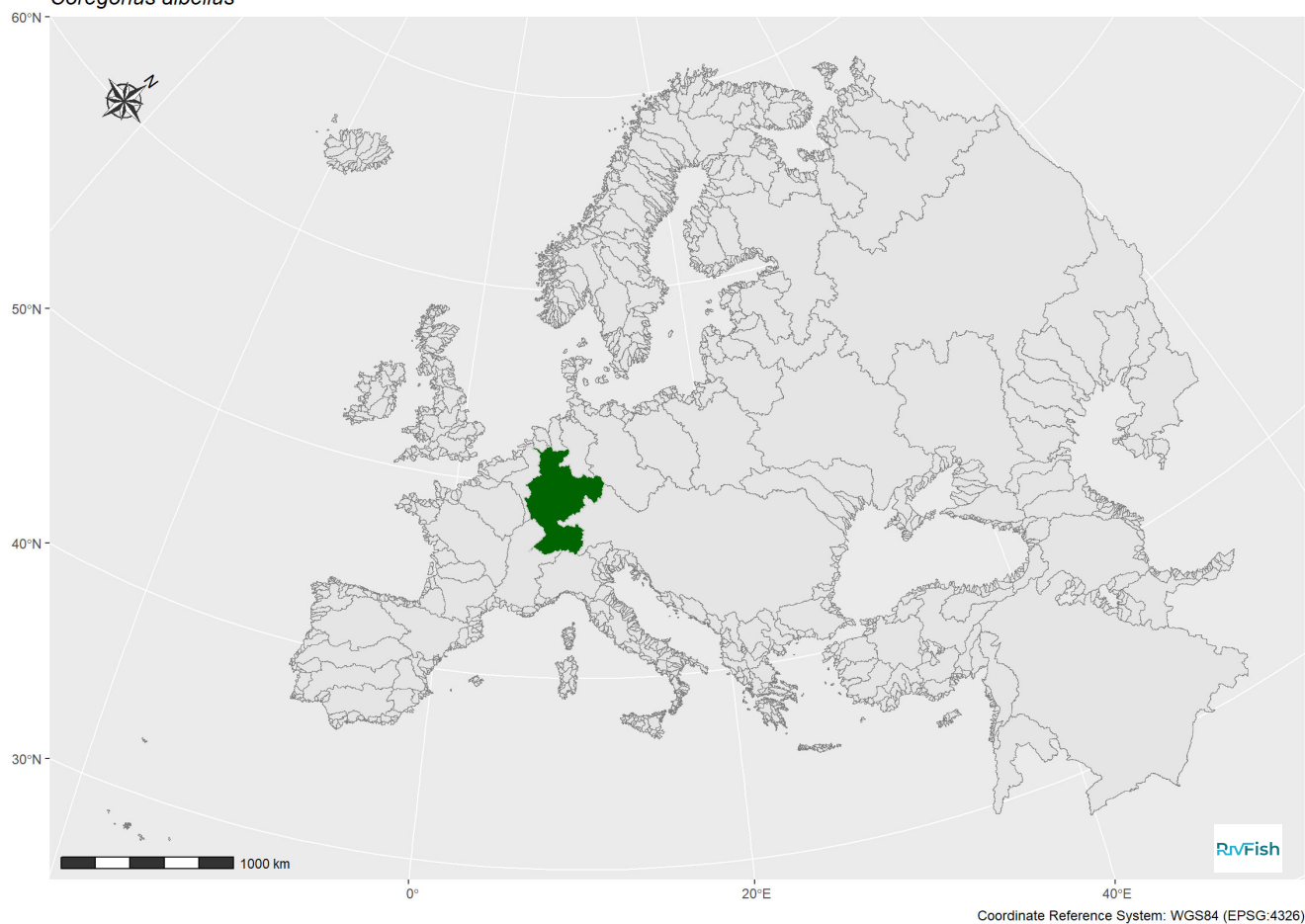
Cobitis vettonica

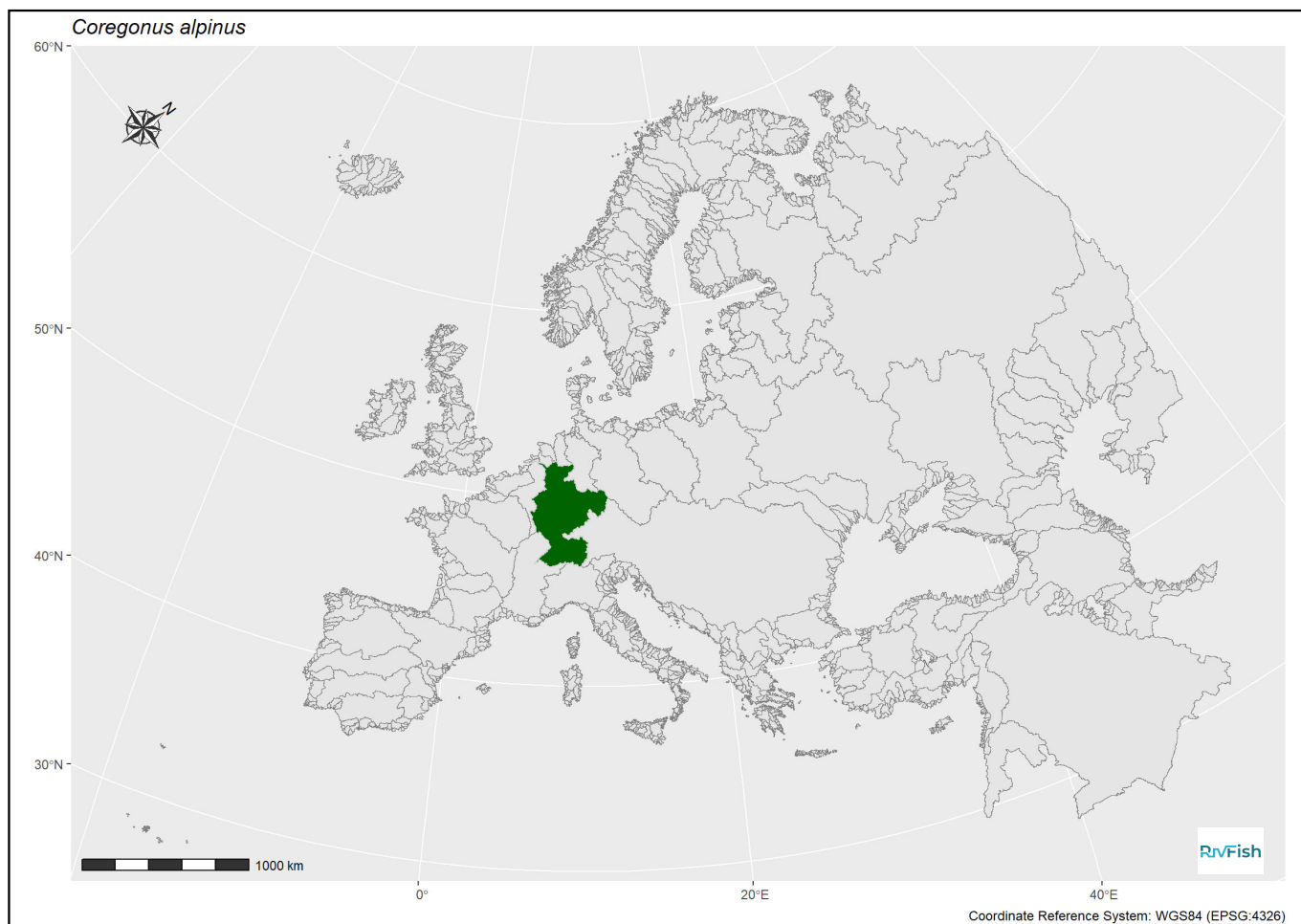
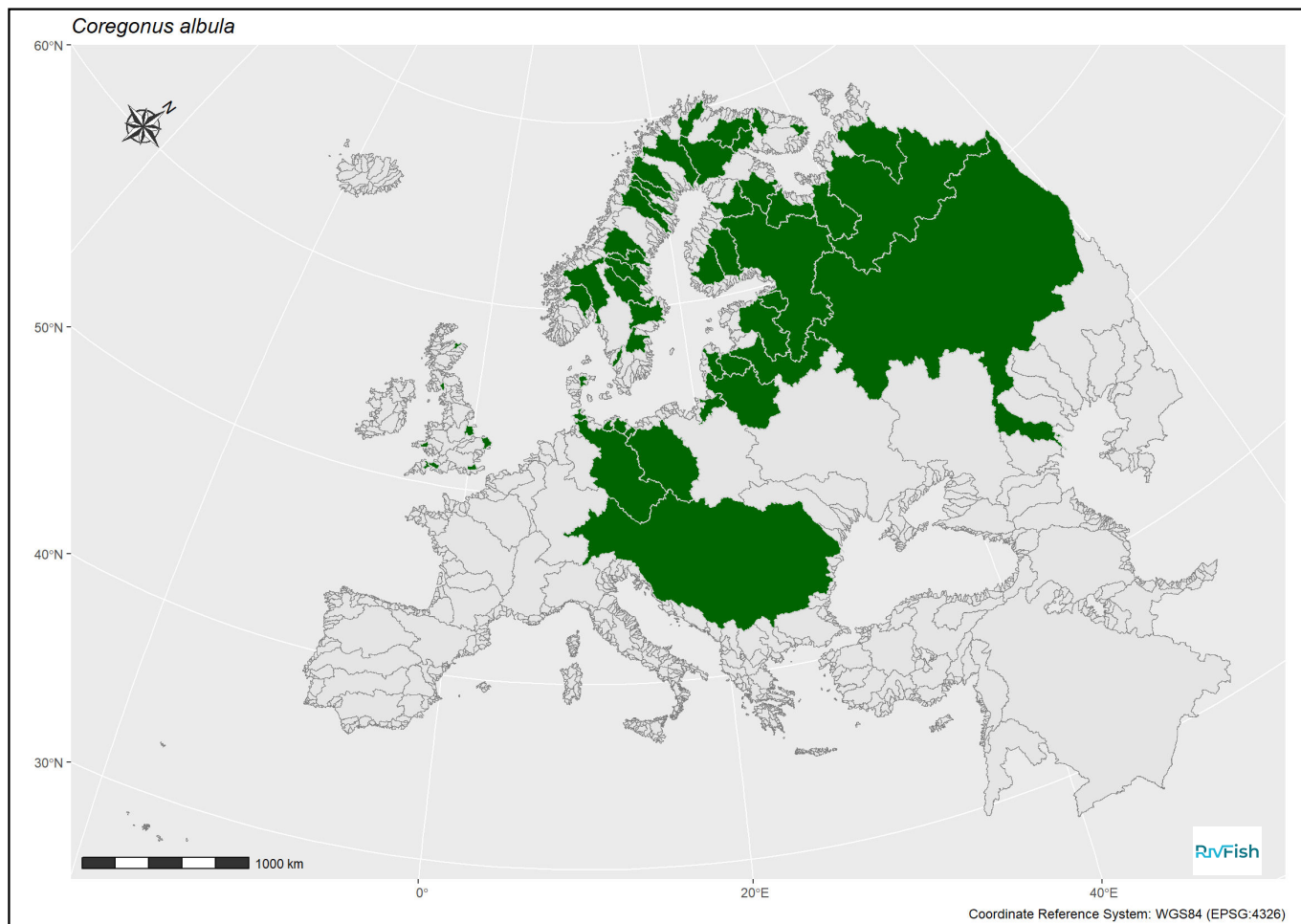


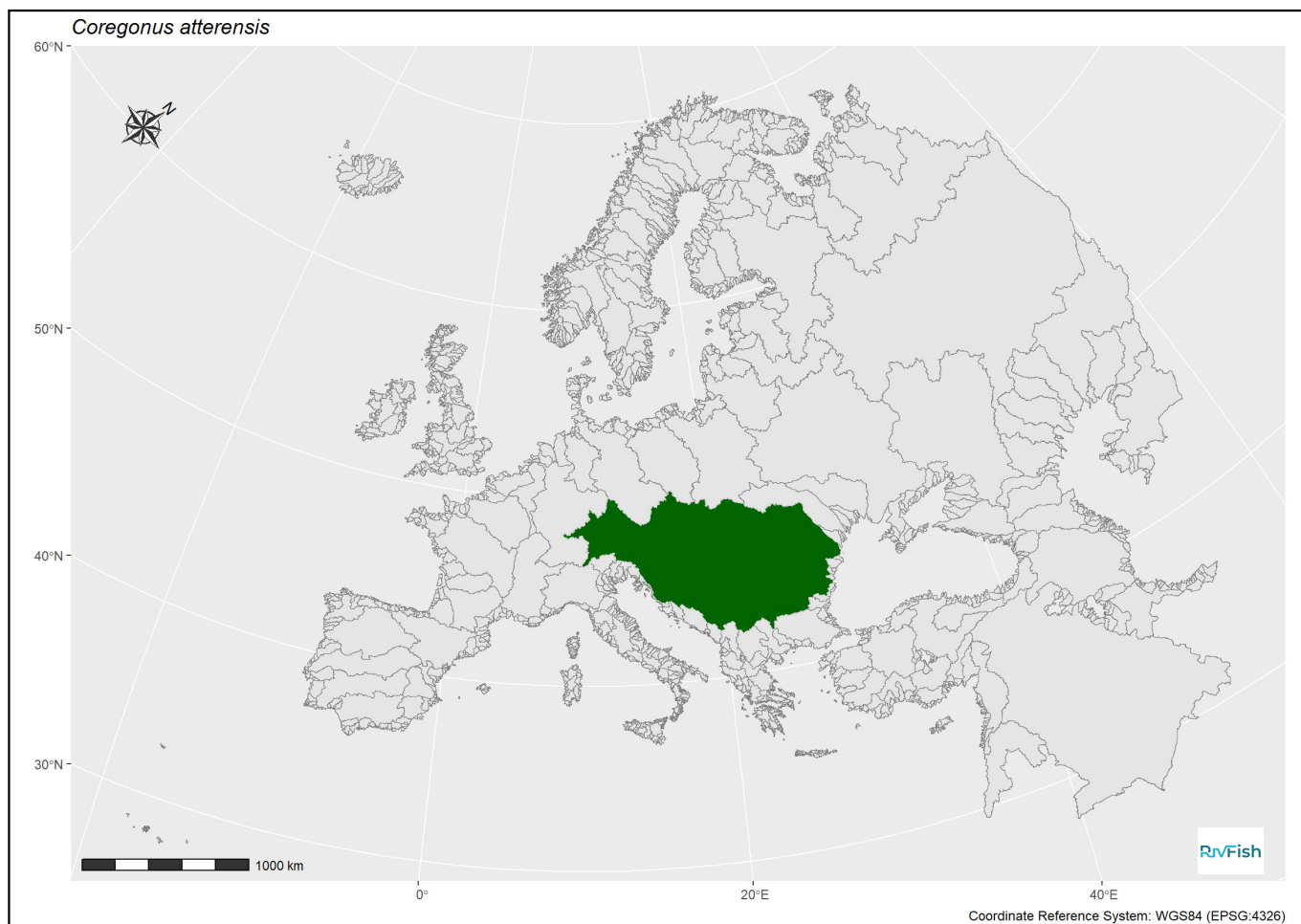
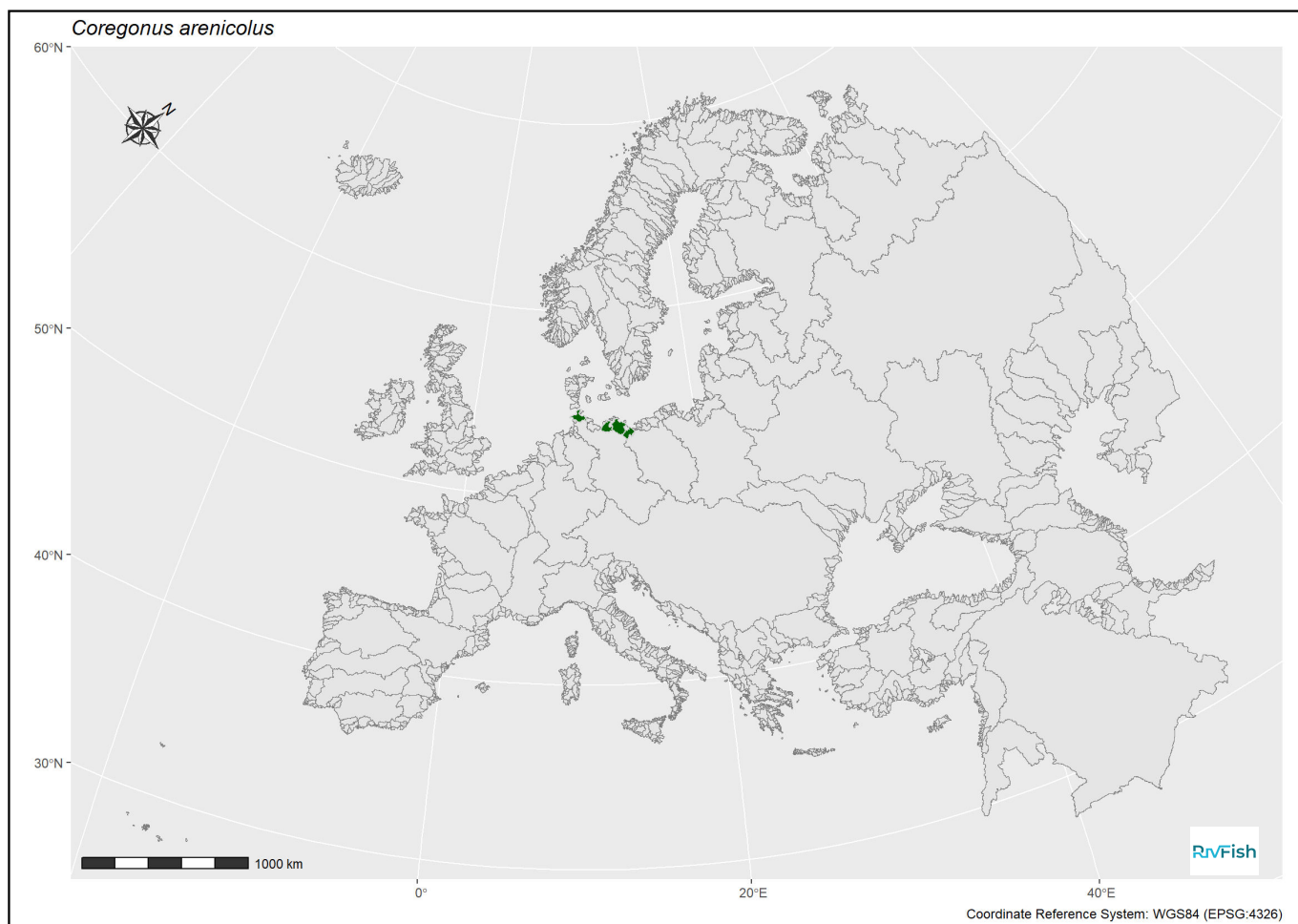
Cobitis zanandreae

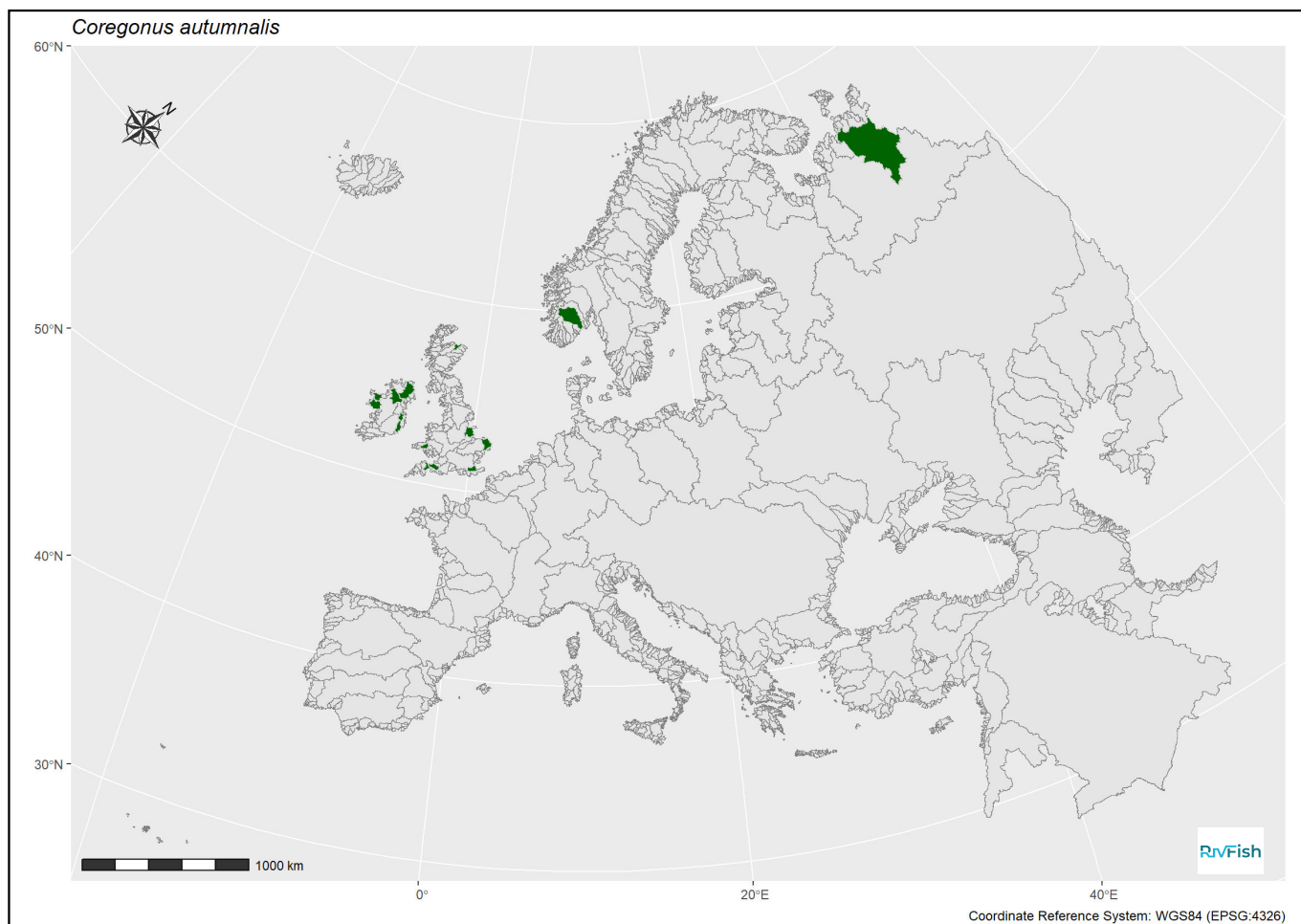
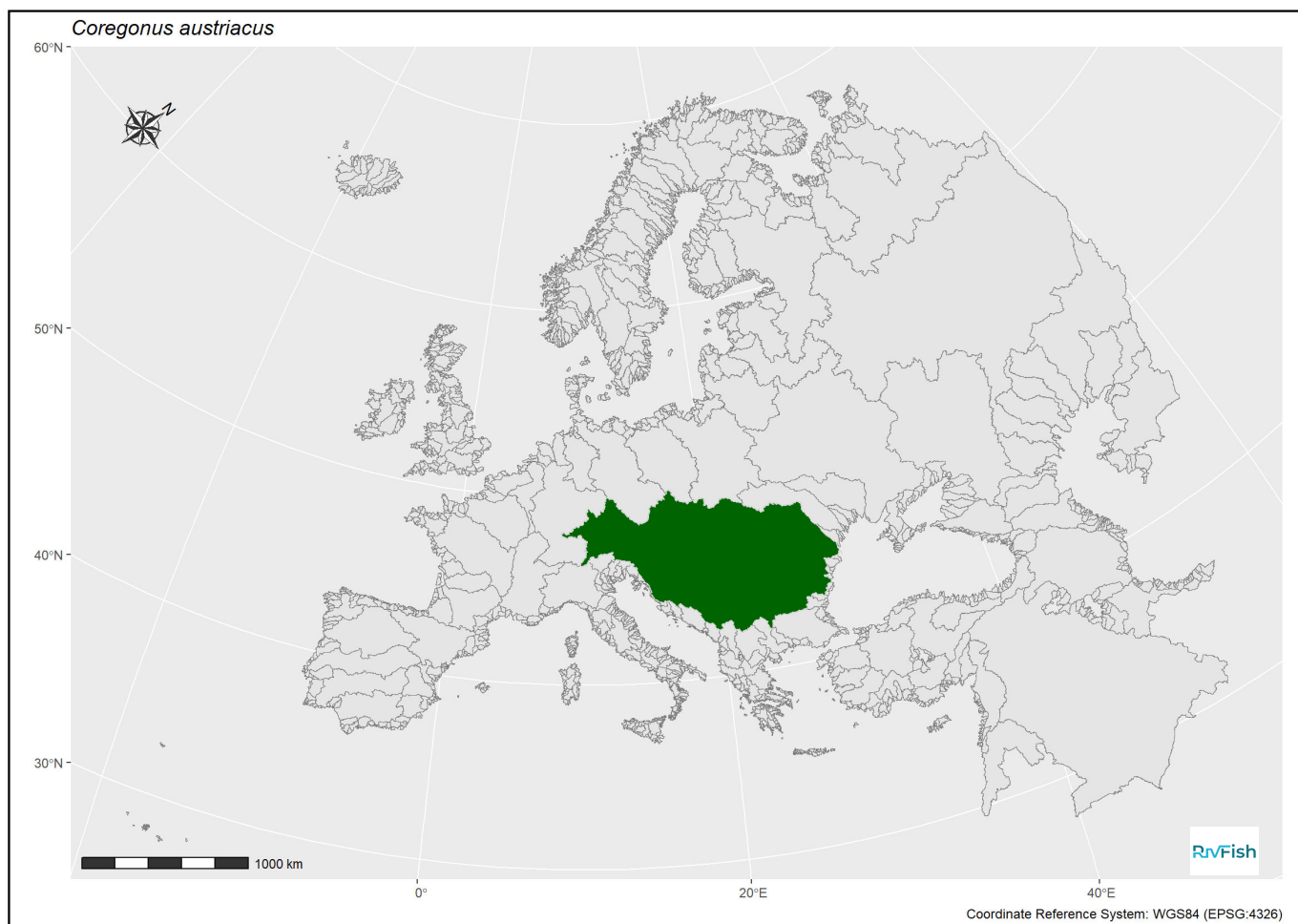


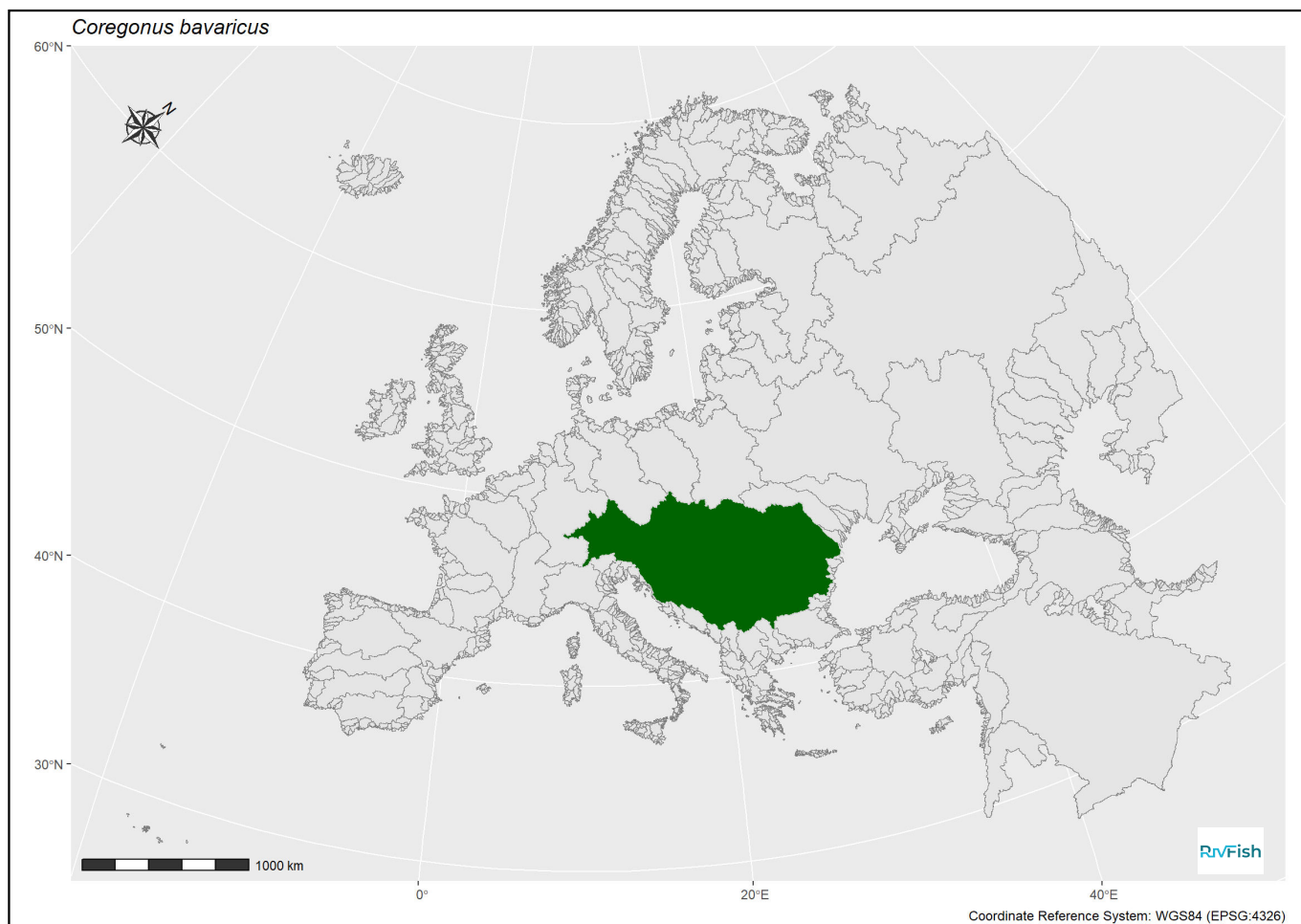
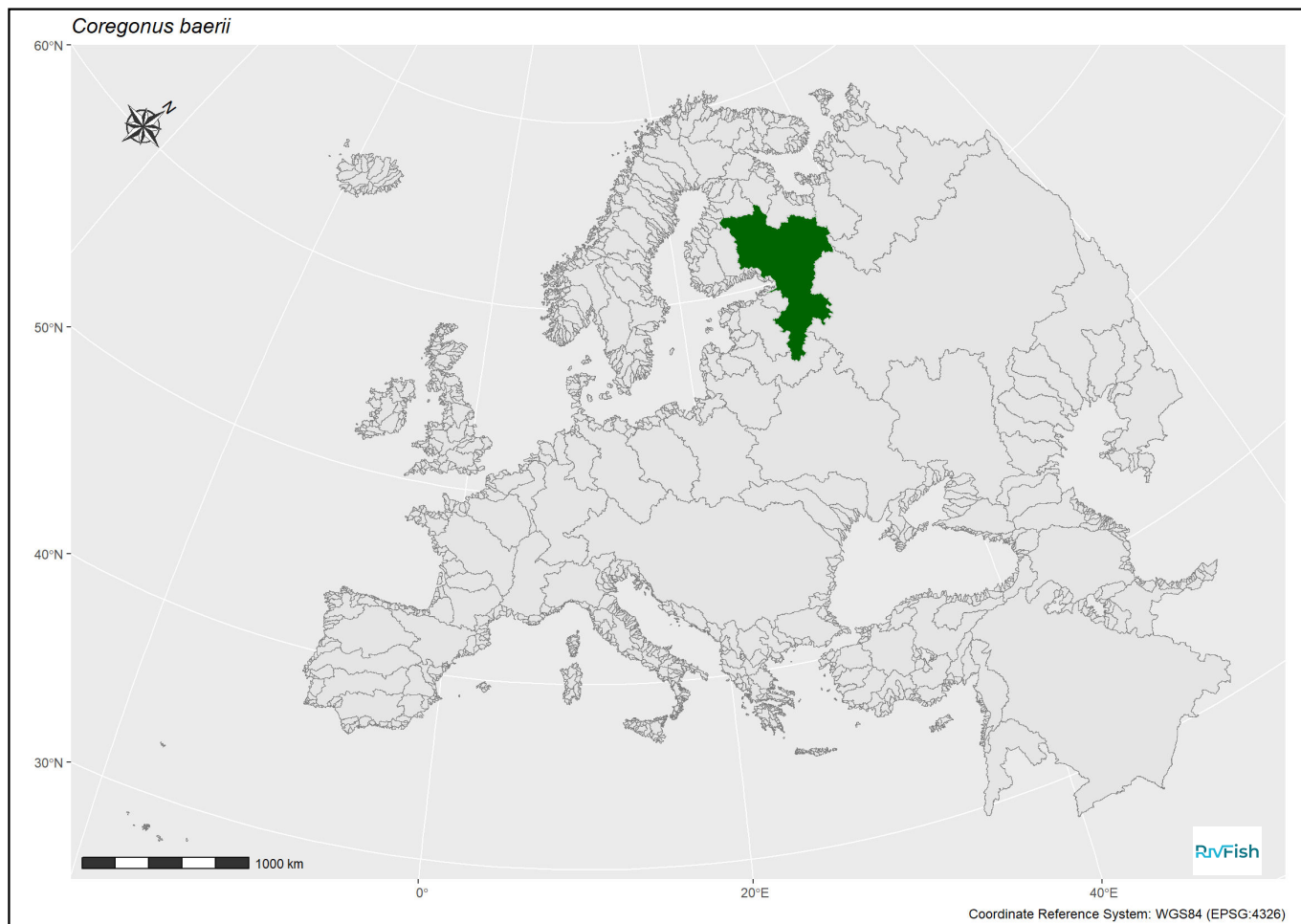
Coregonus albellus

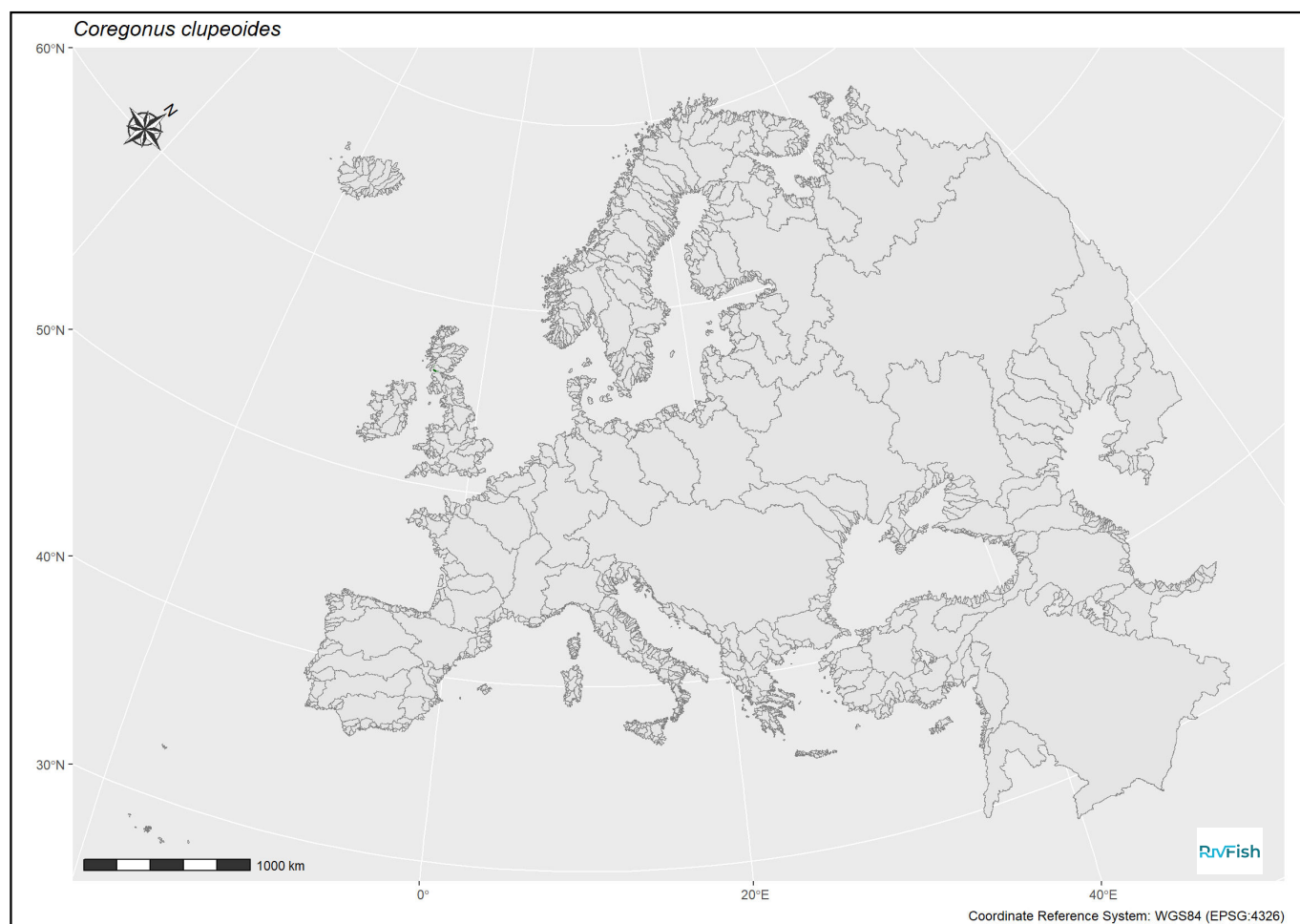
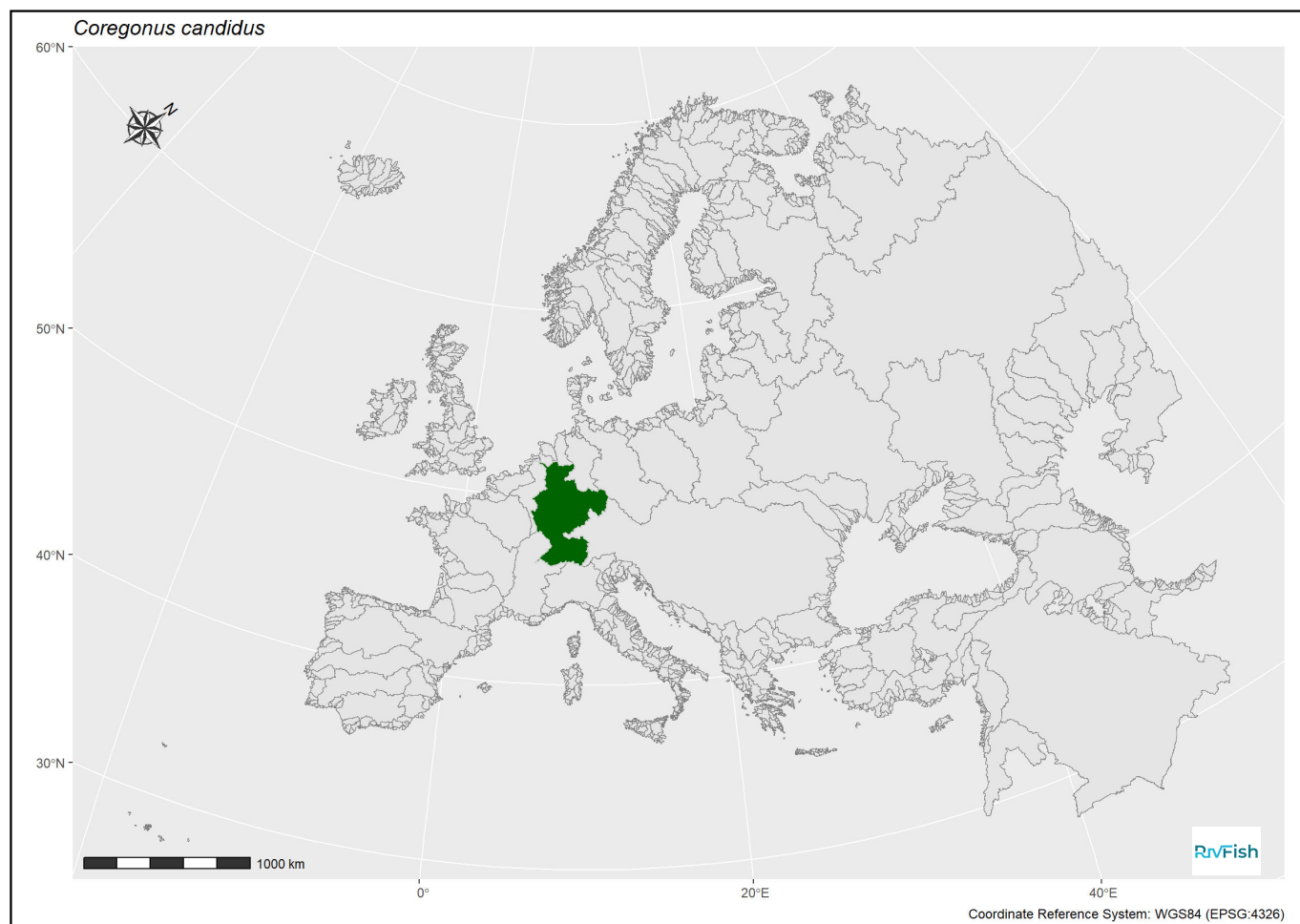


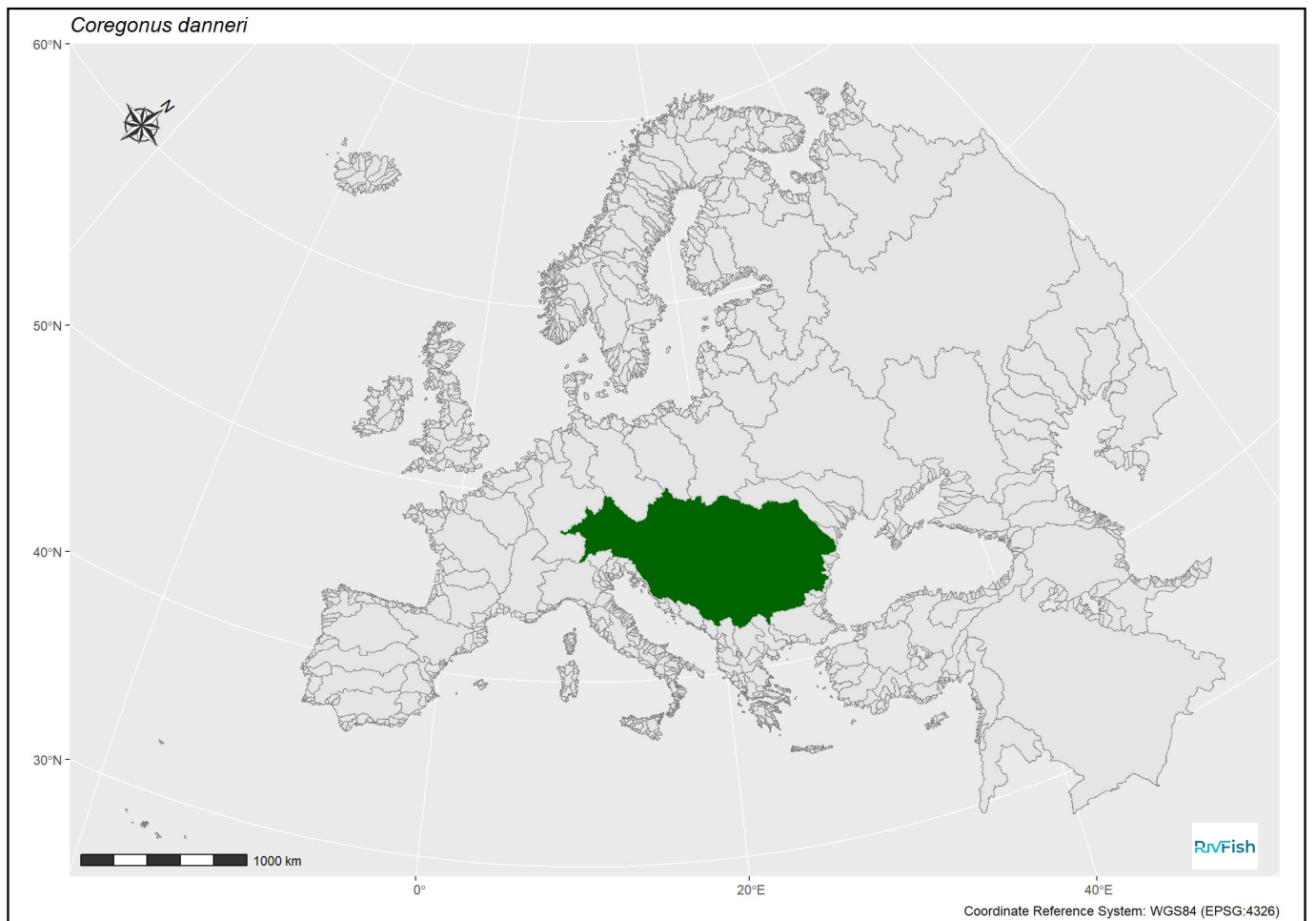
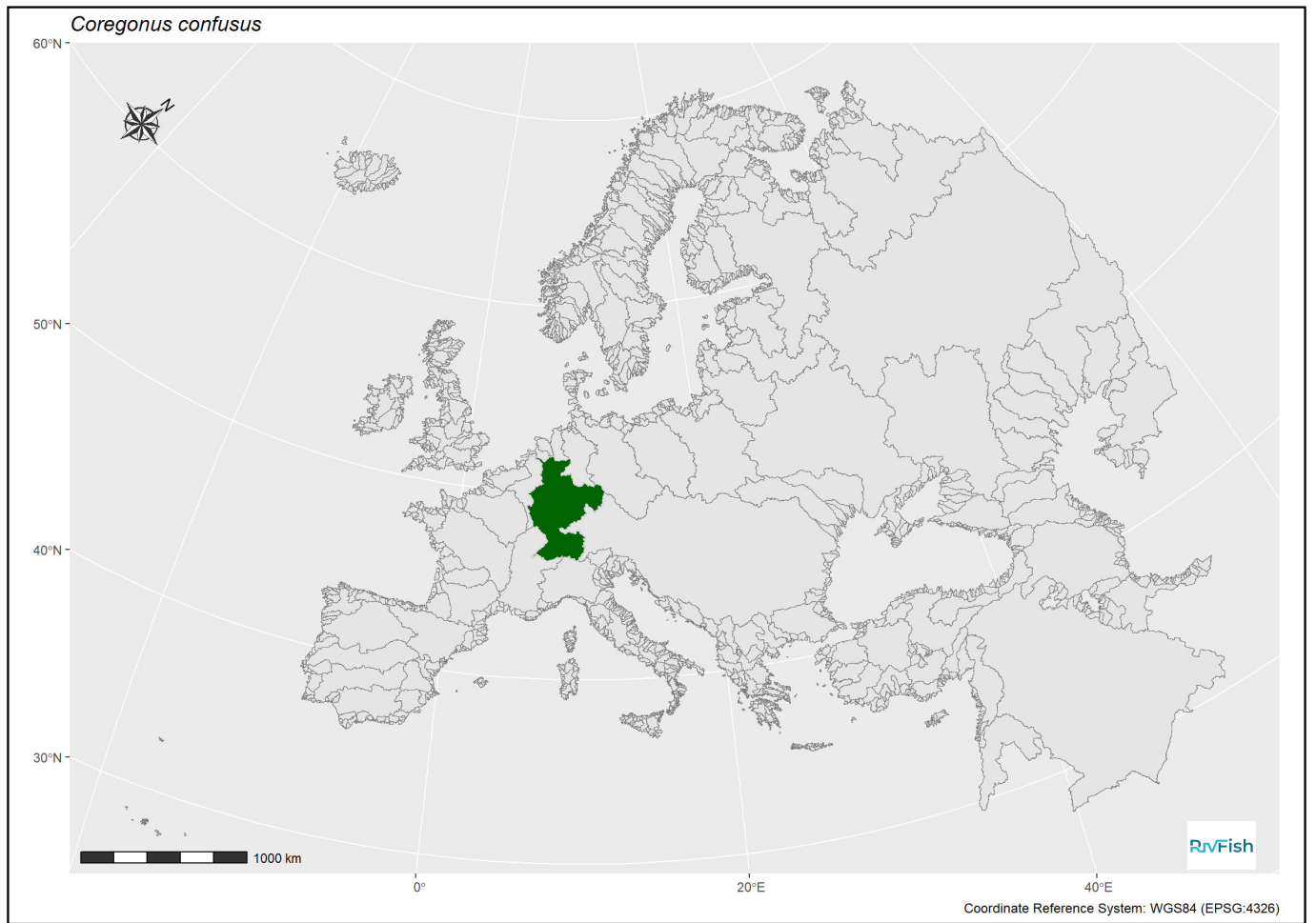




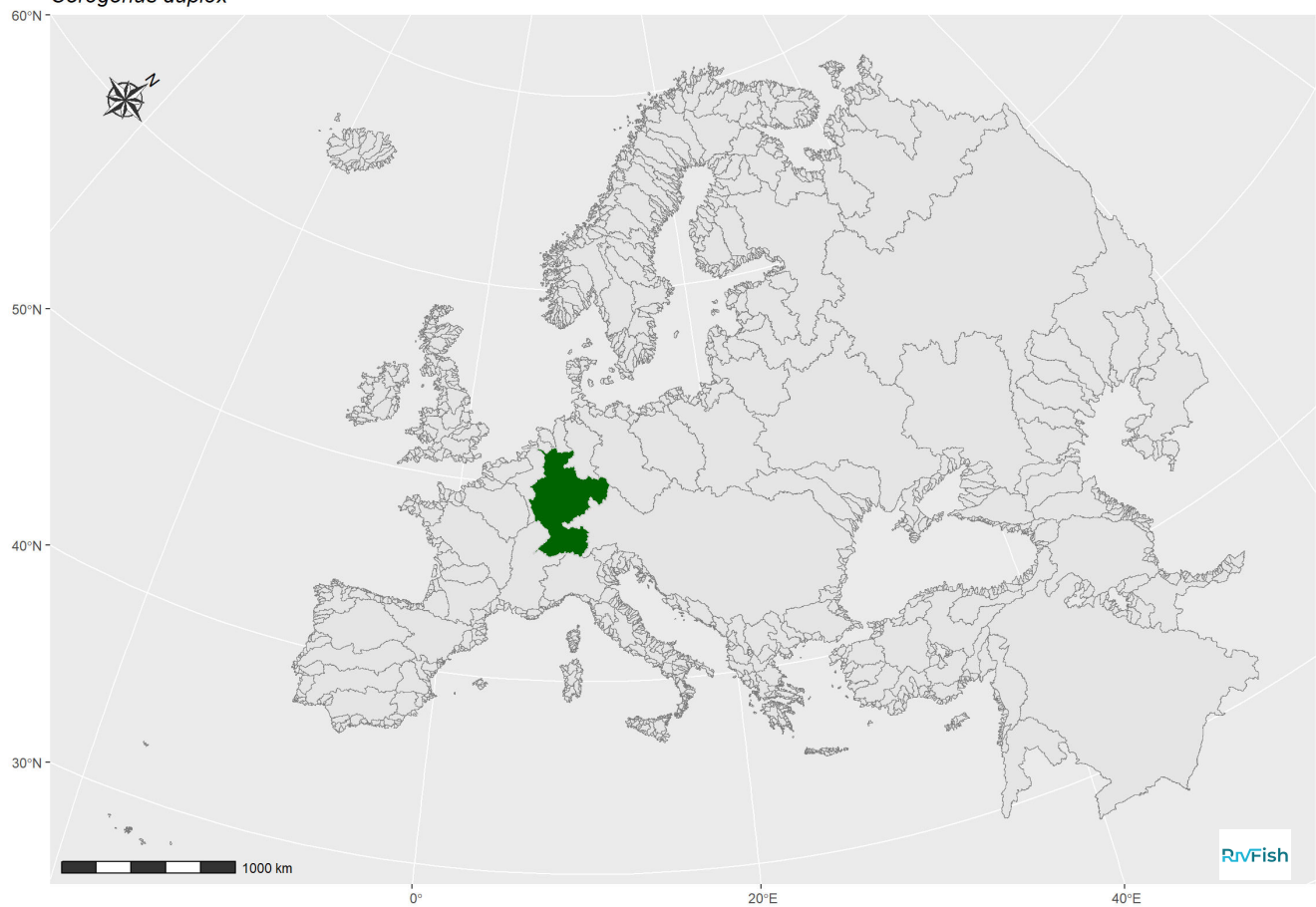






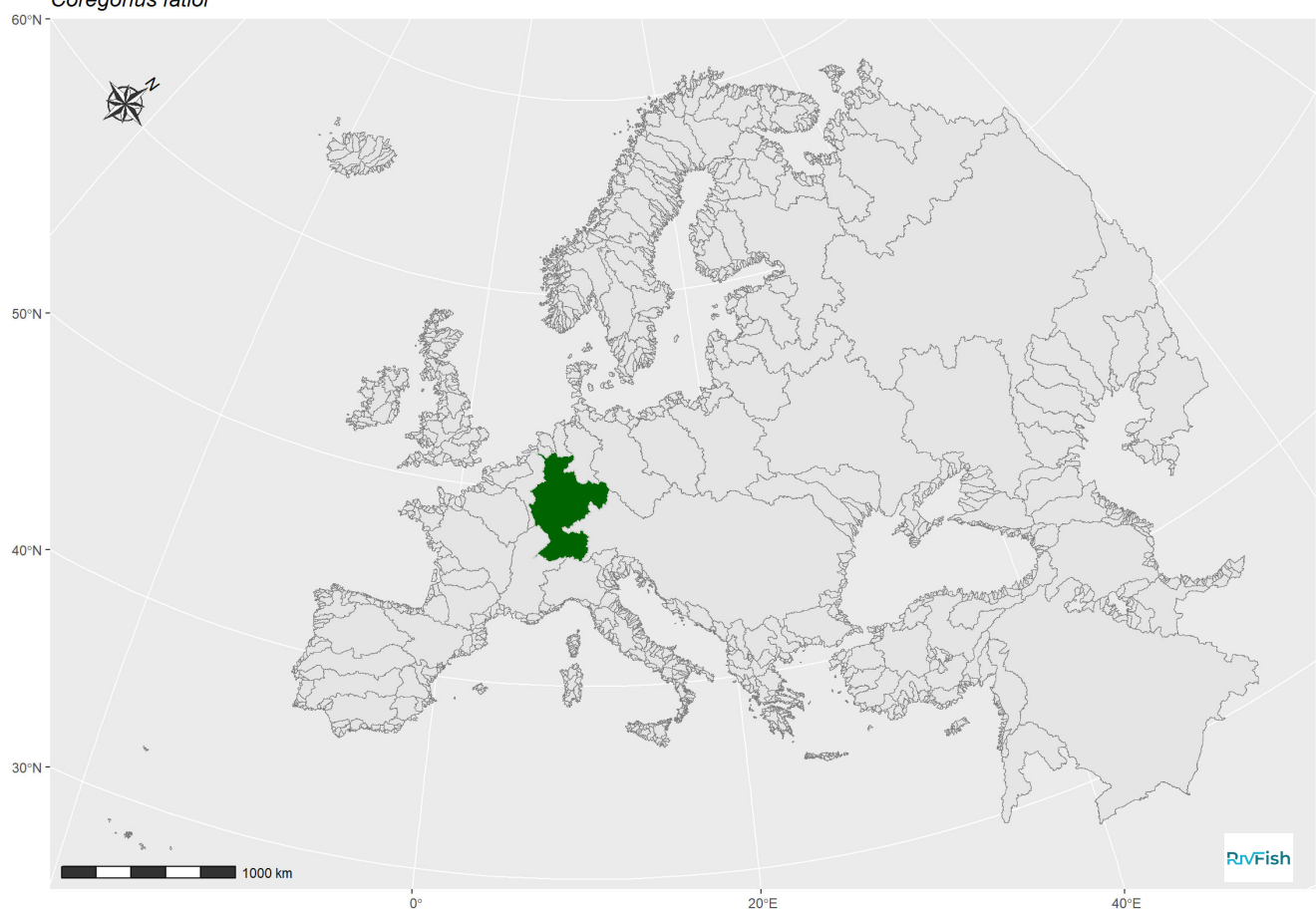


Coregonus duplex

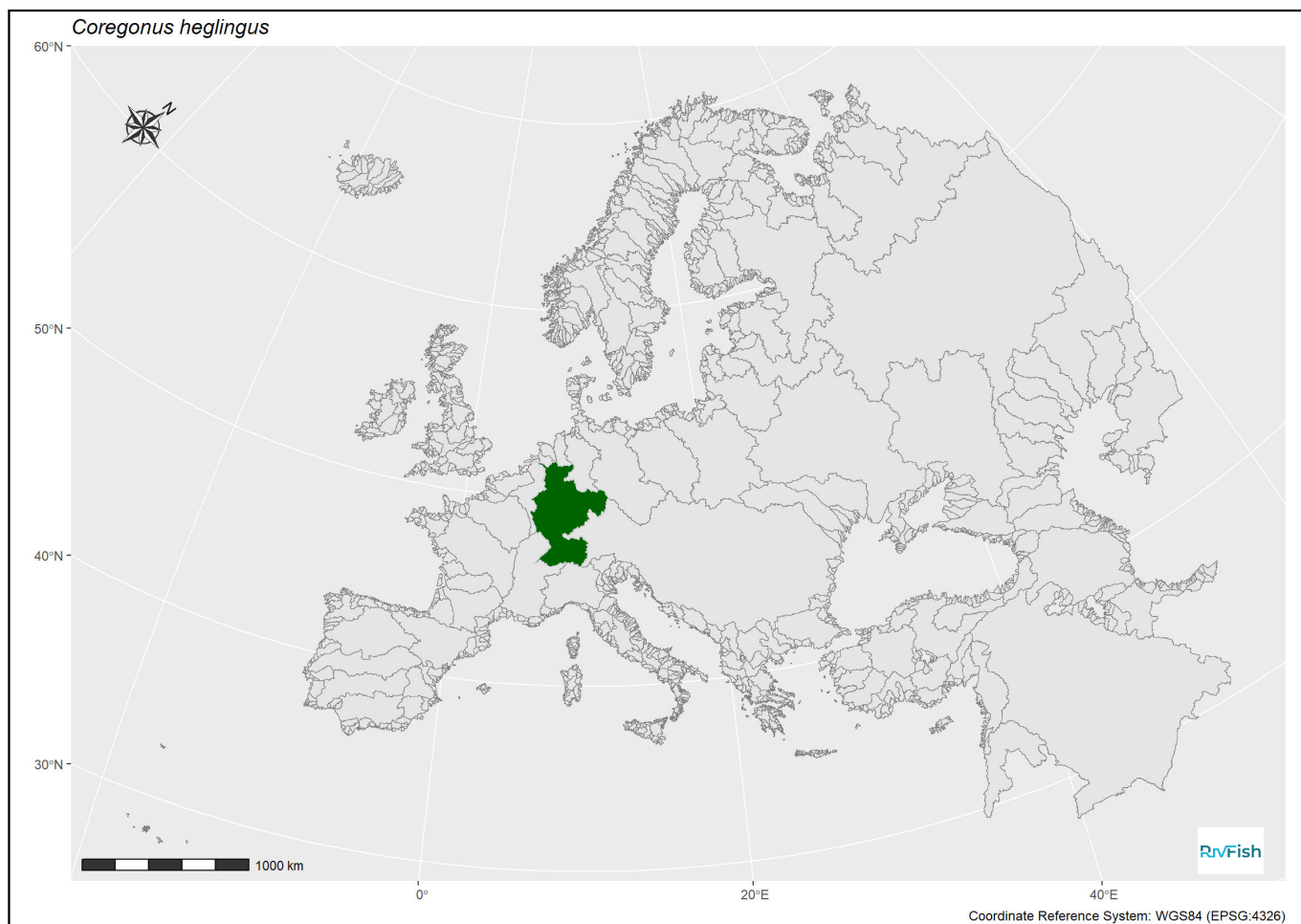
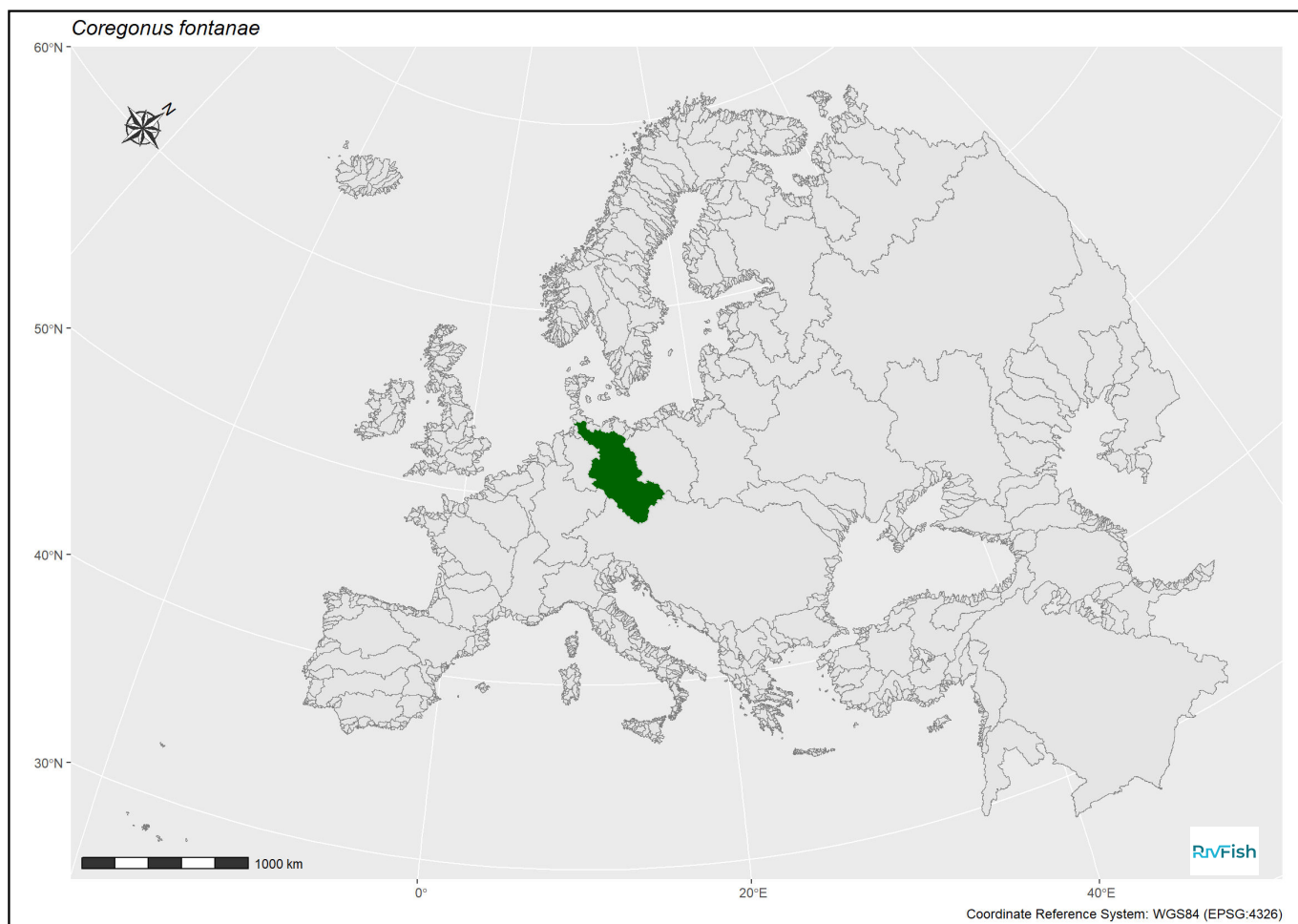


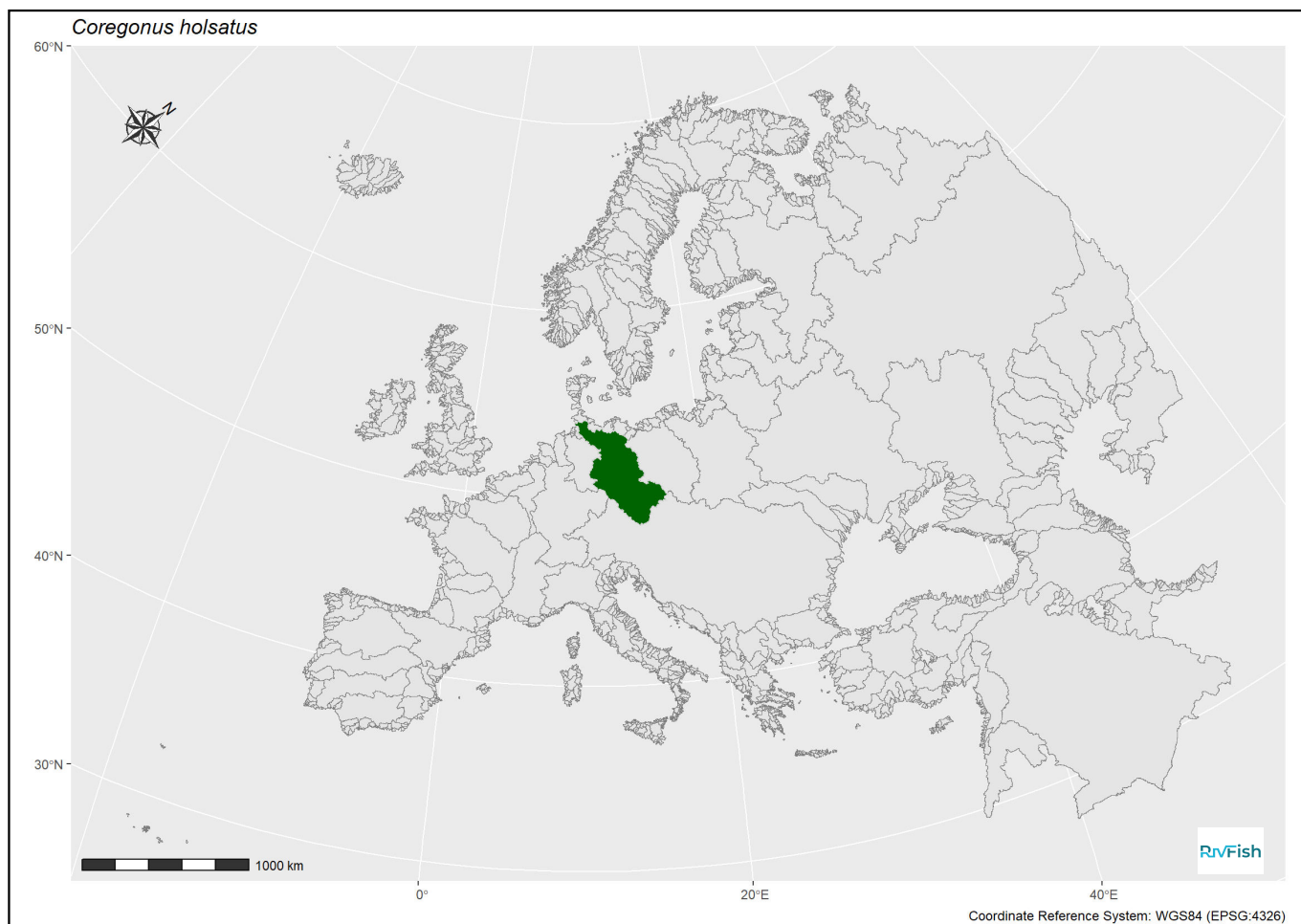
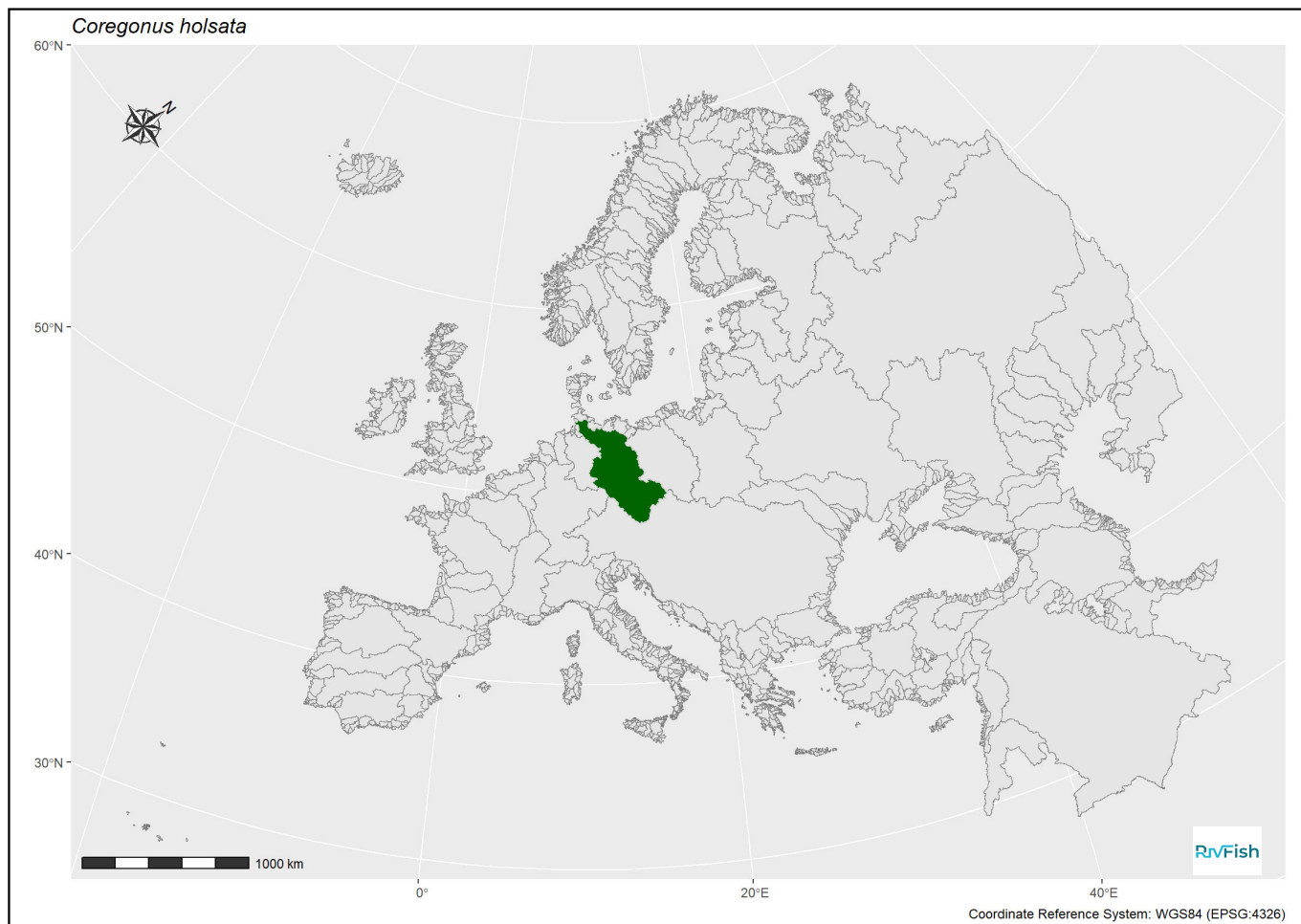
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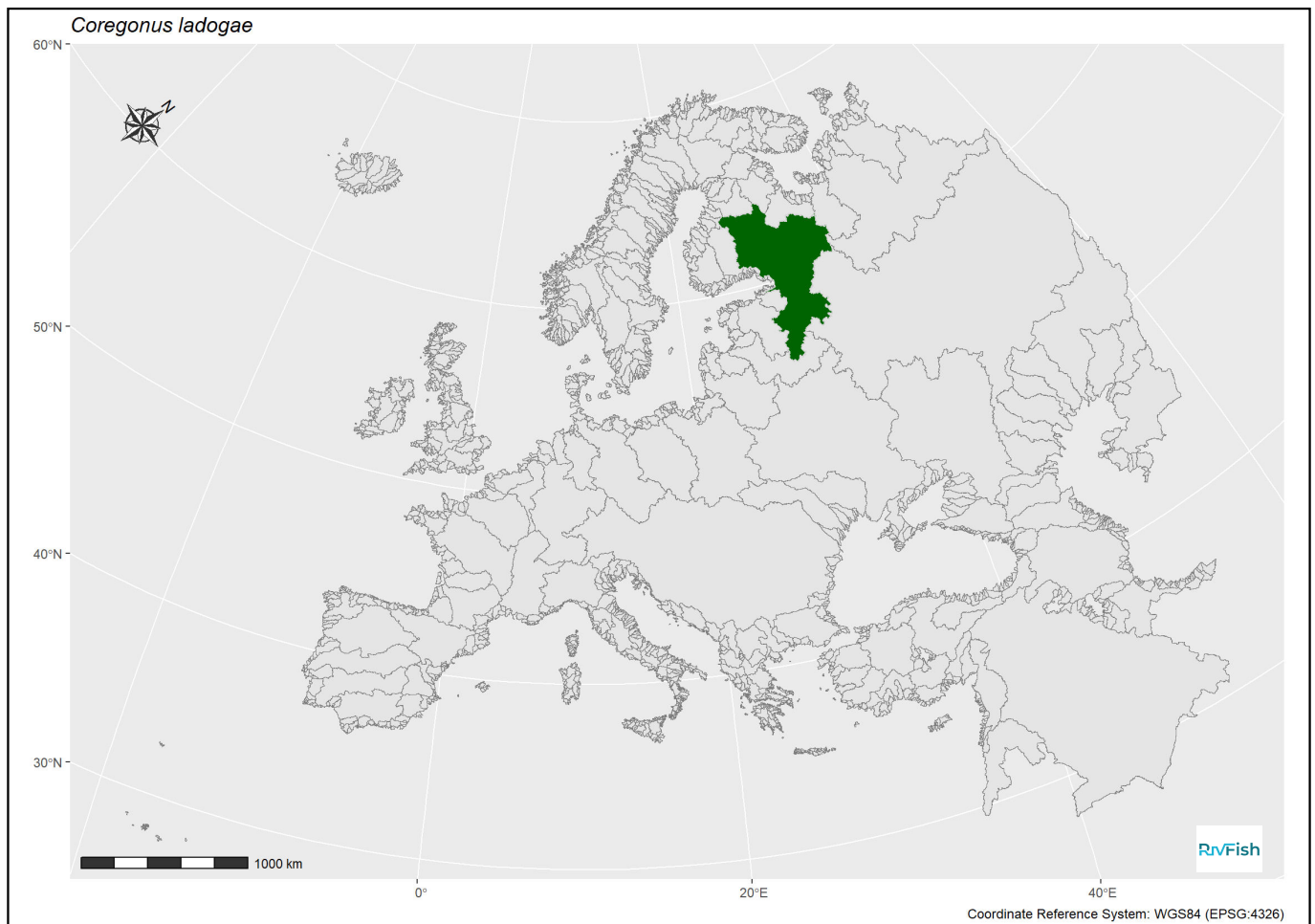
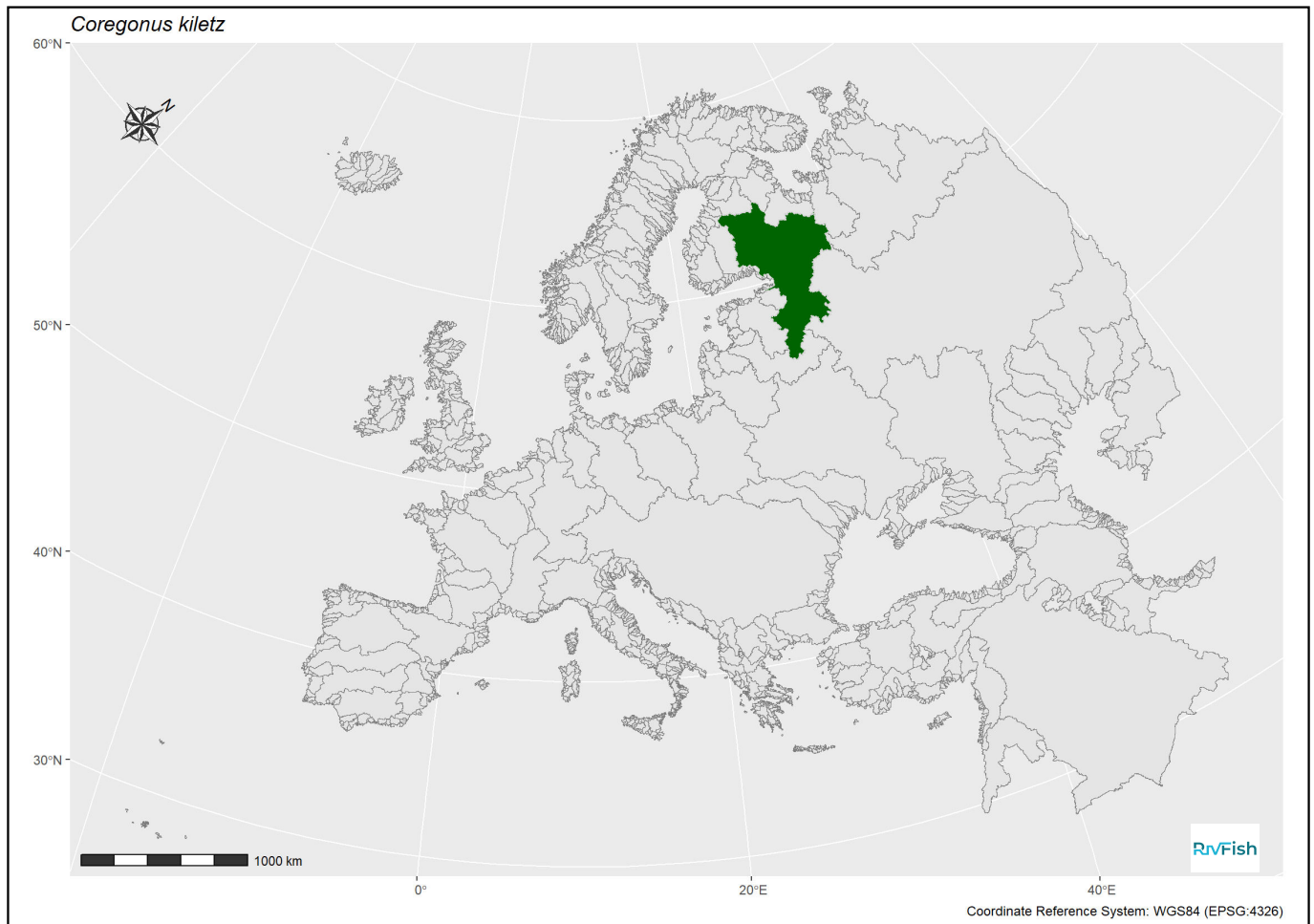
Coregonus fatoi

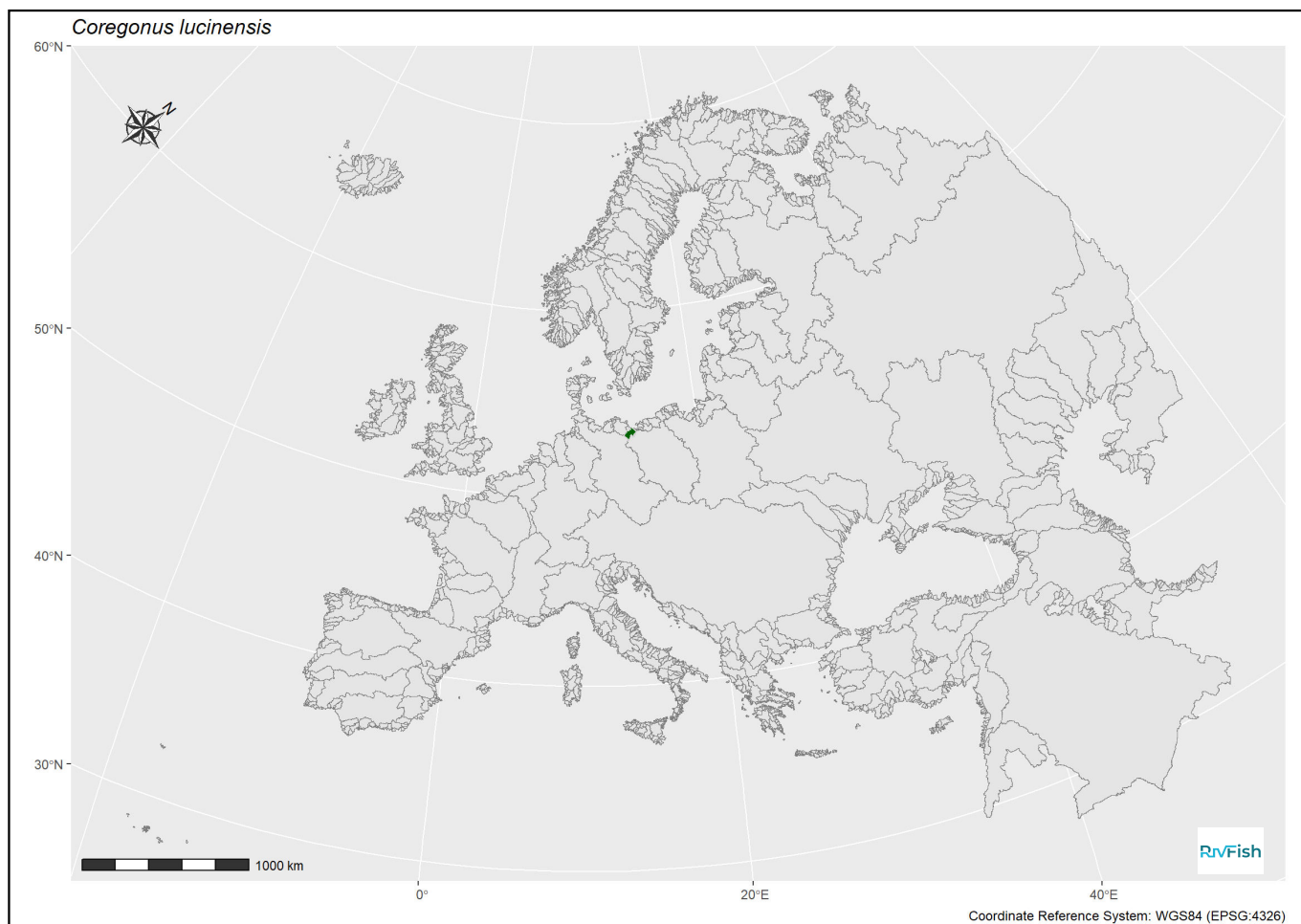
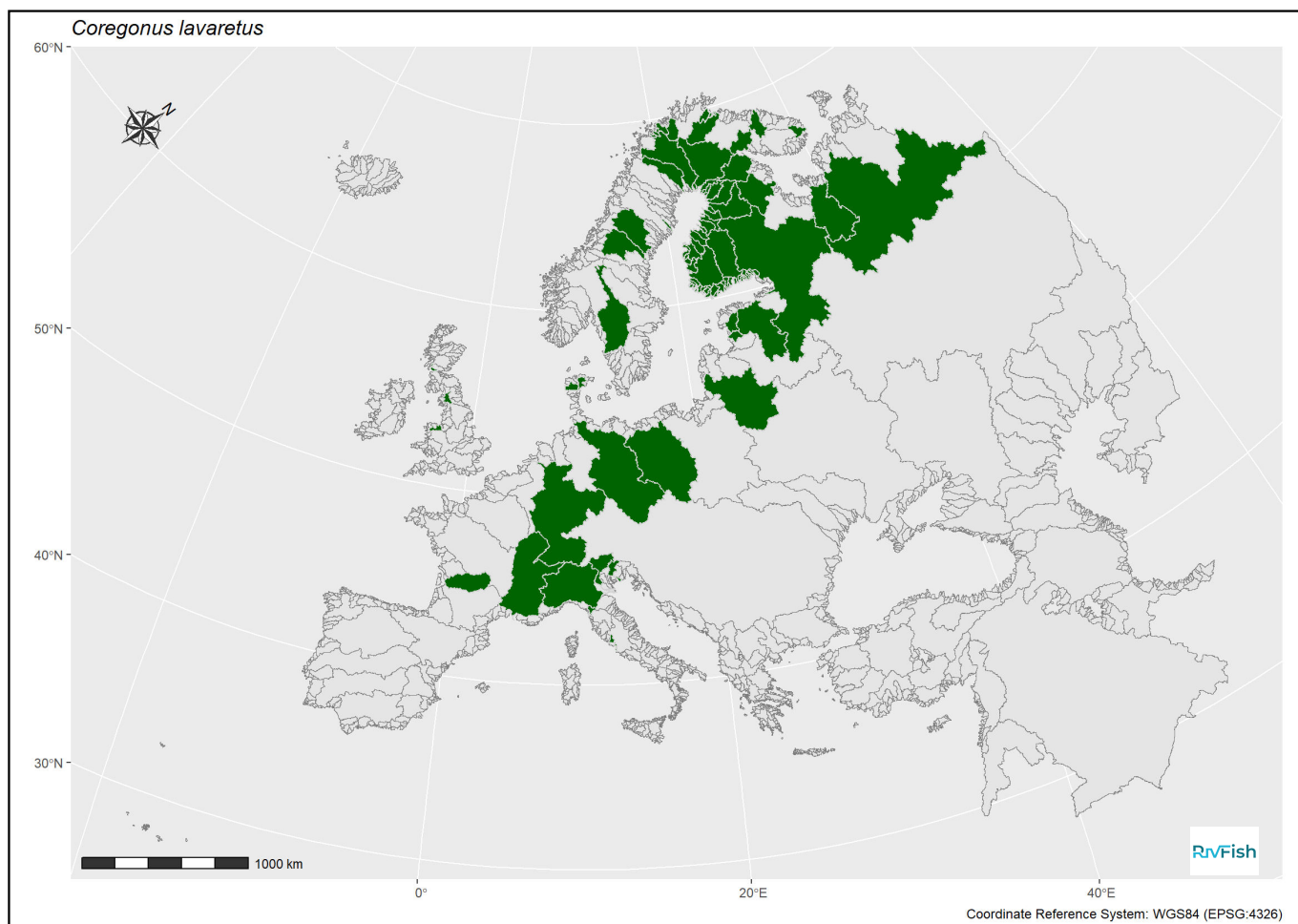


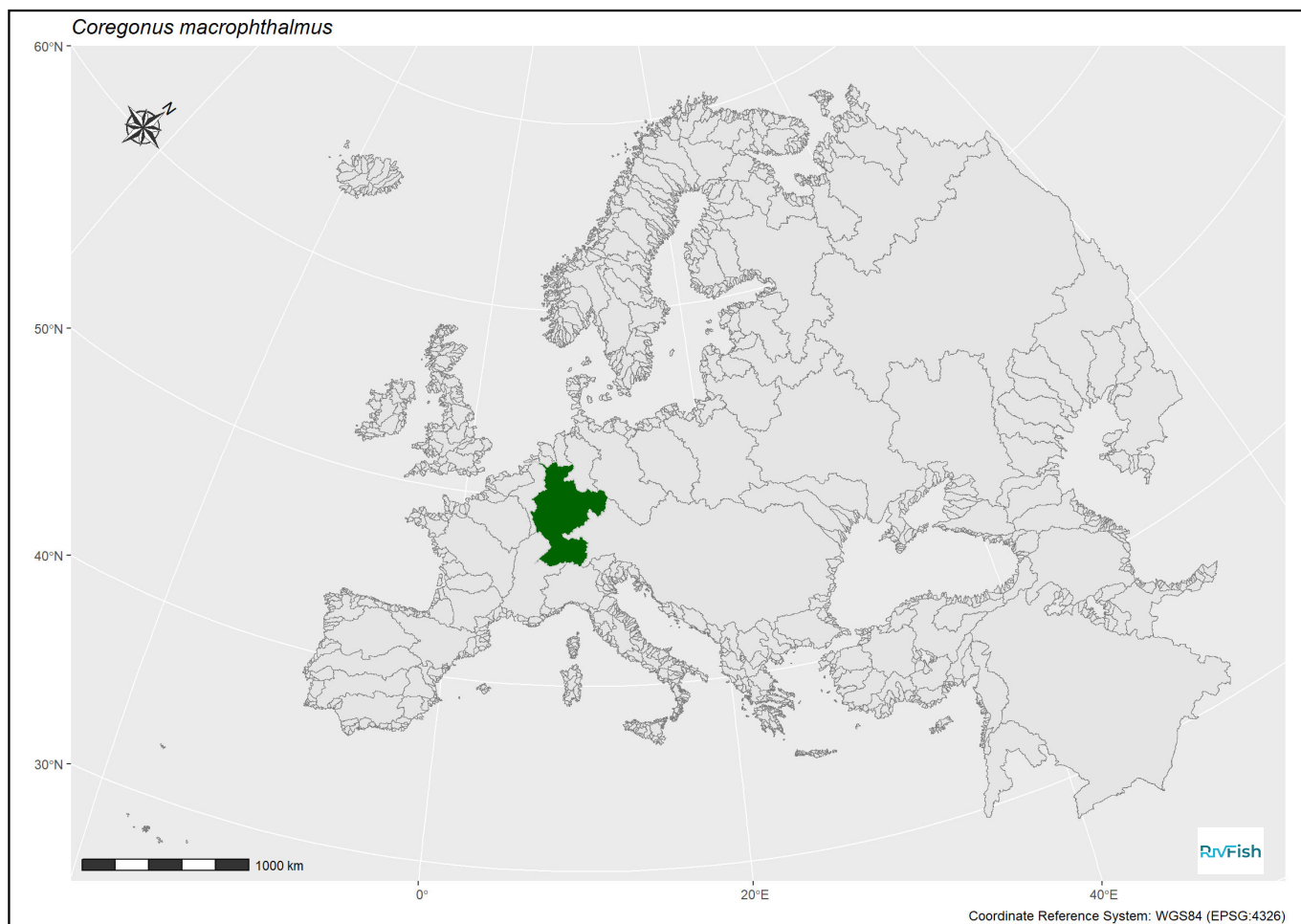
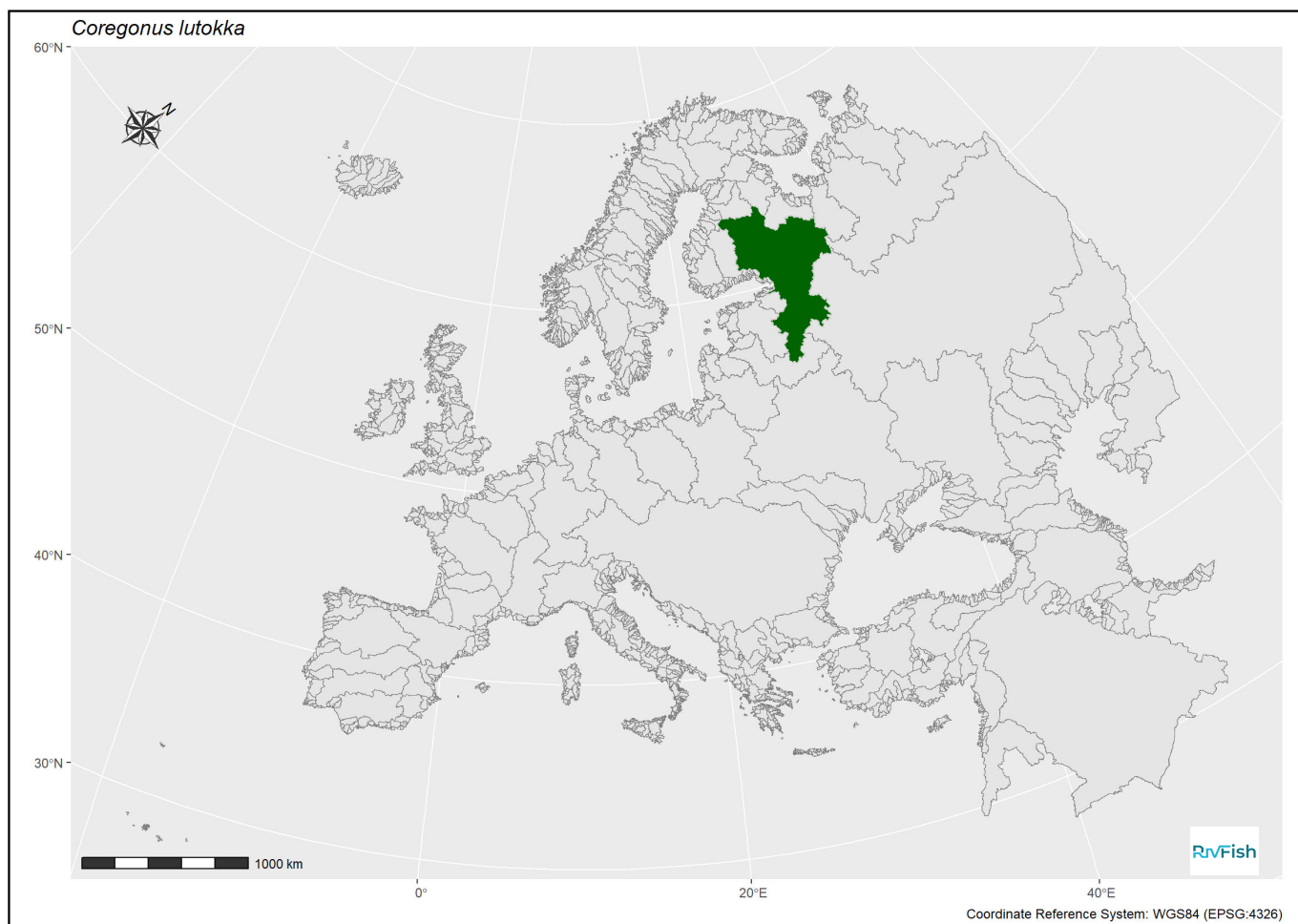
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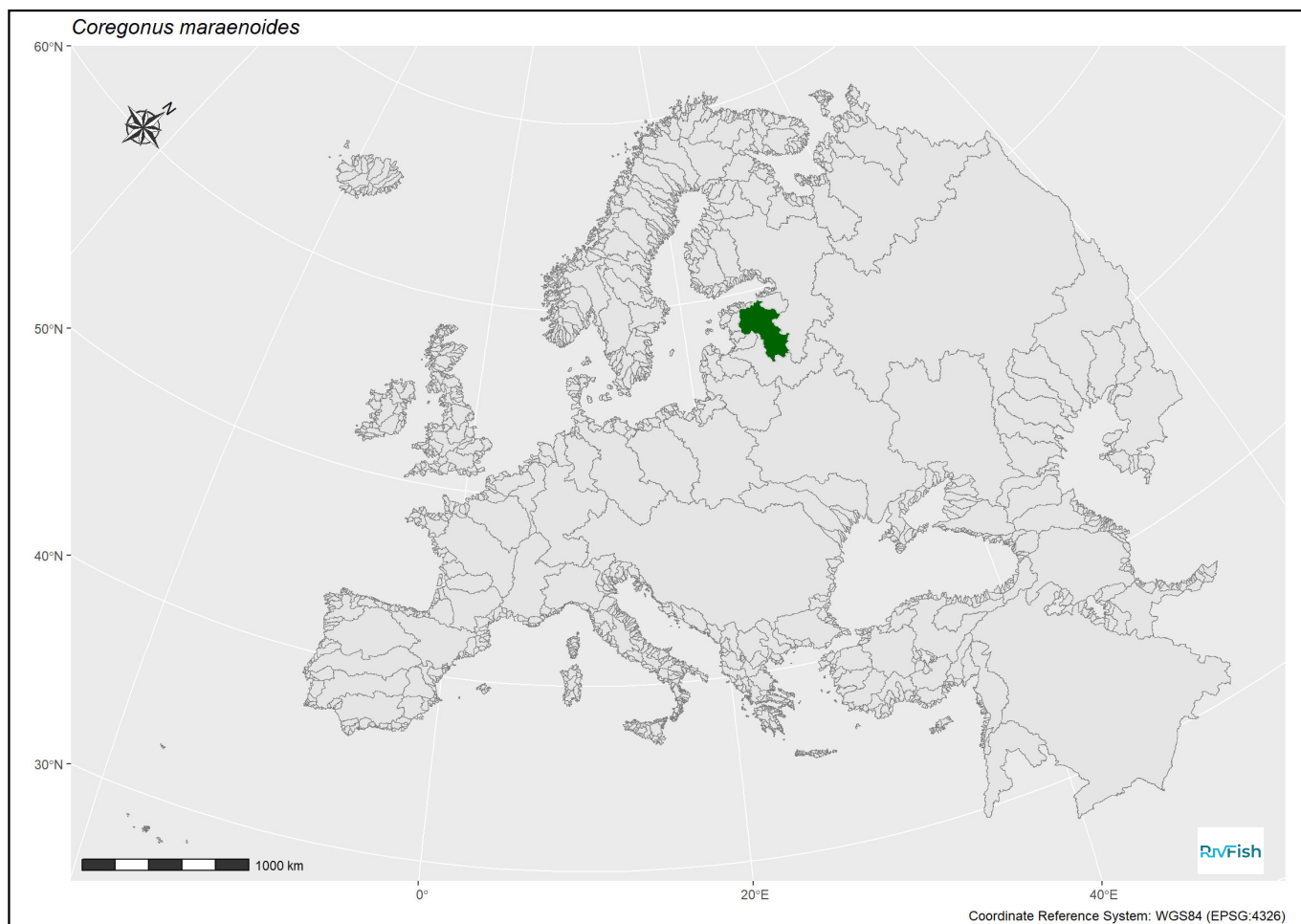
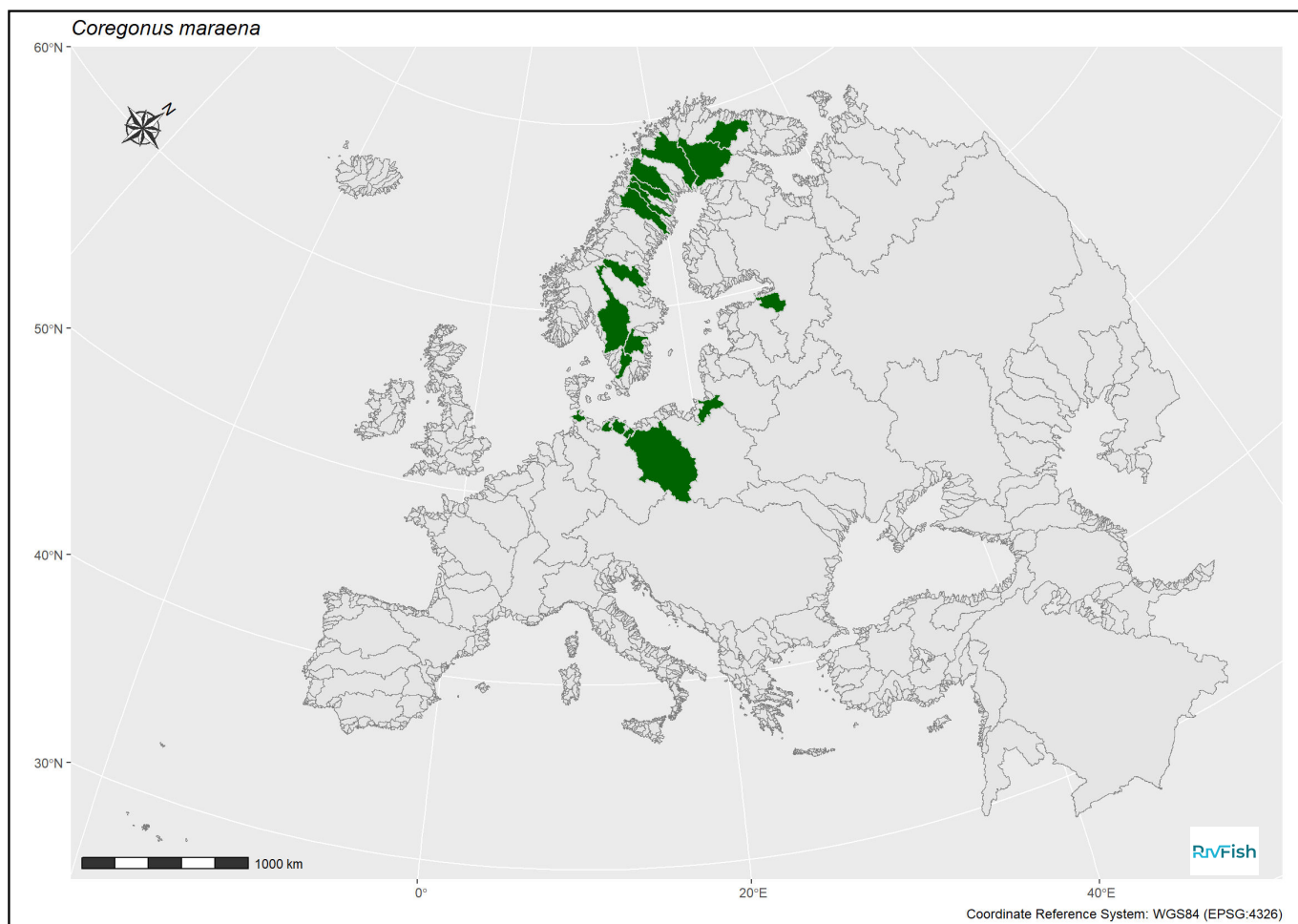


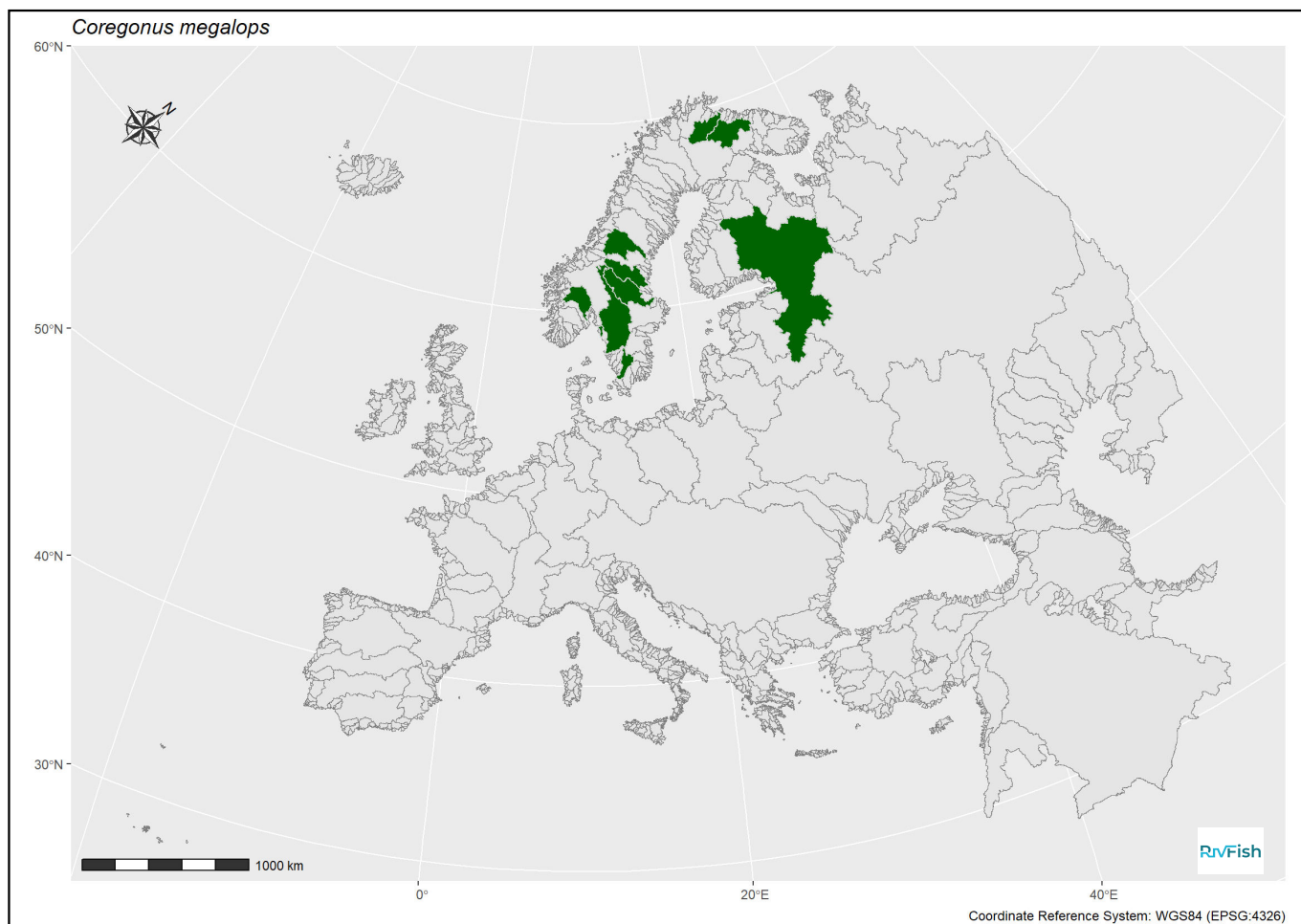
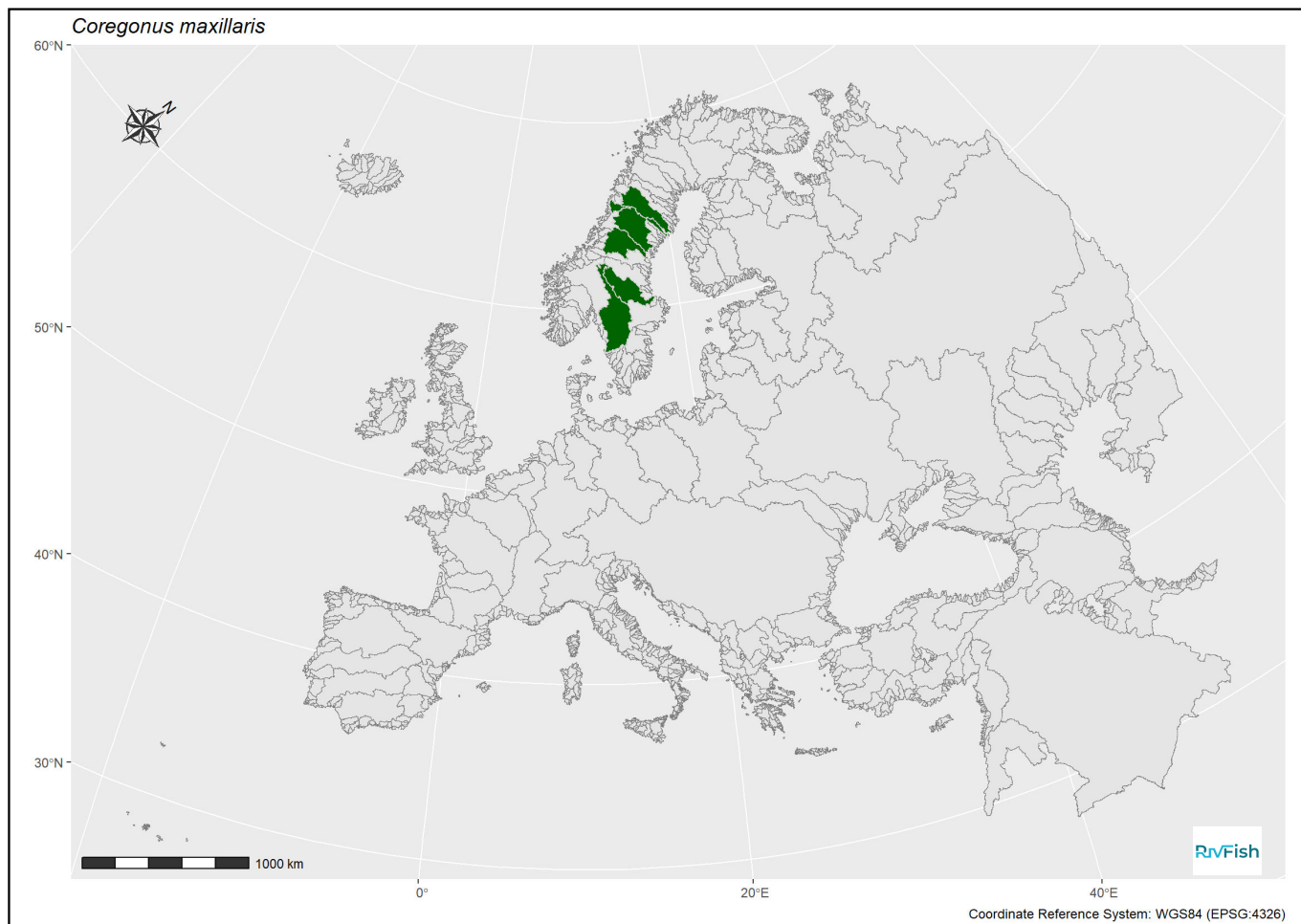


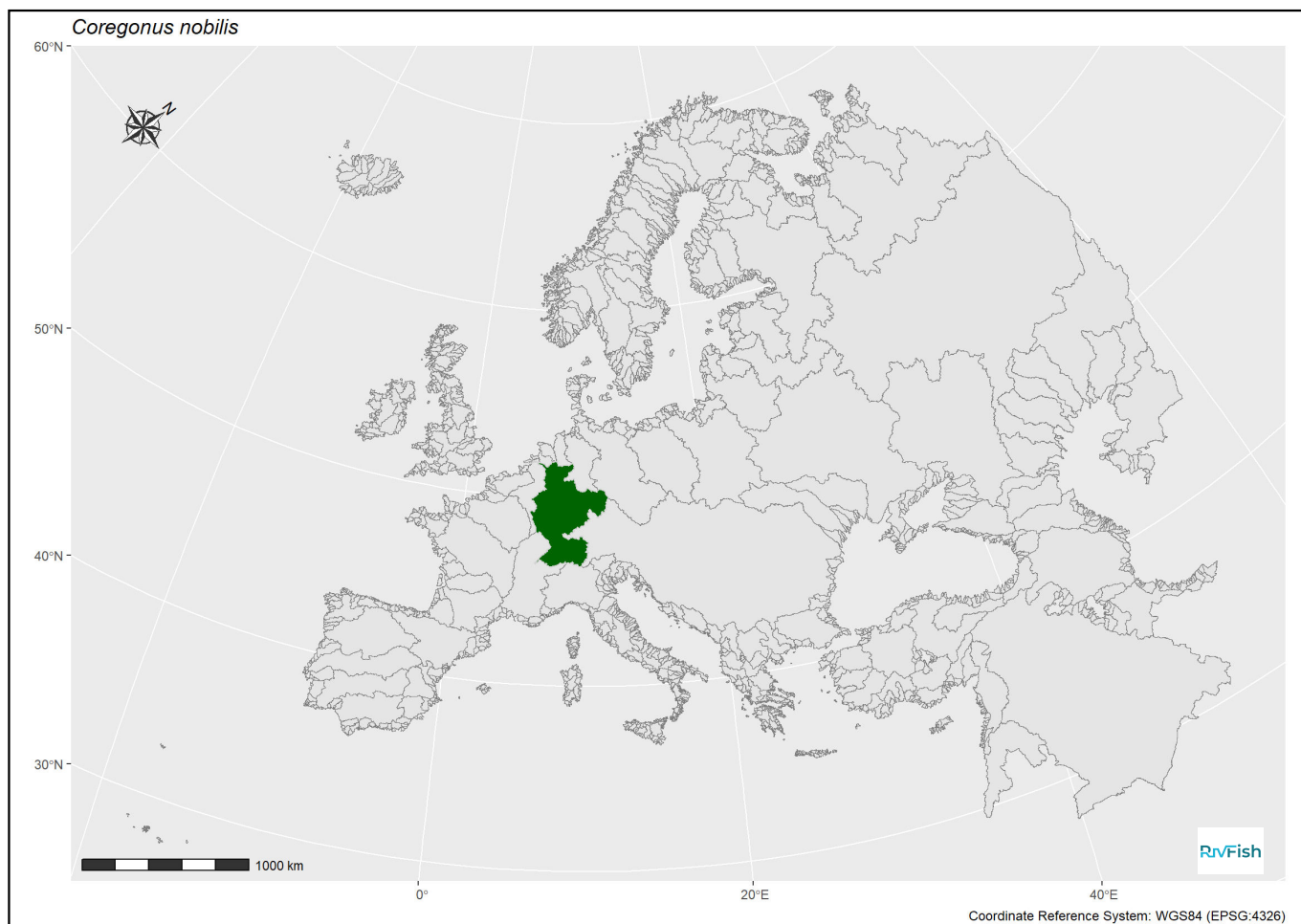
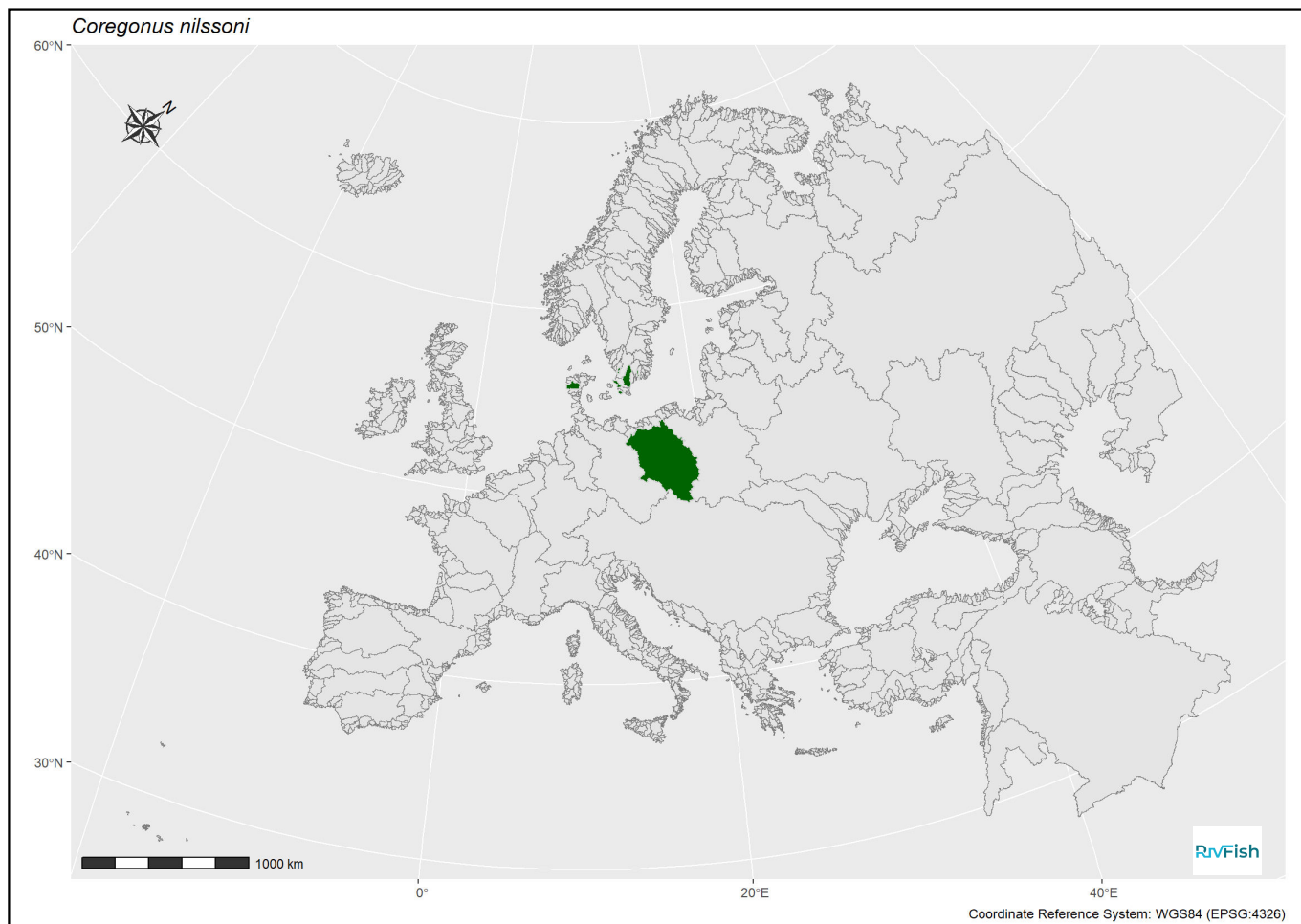


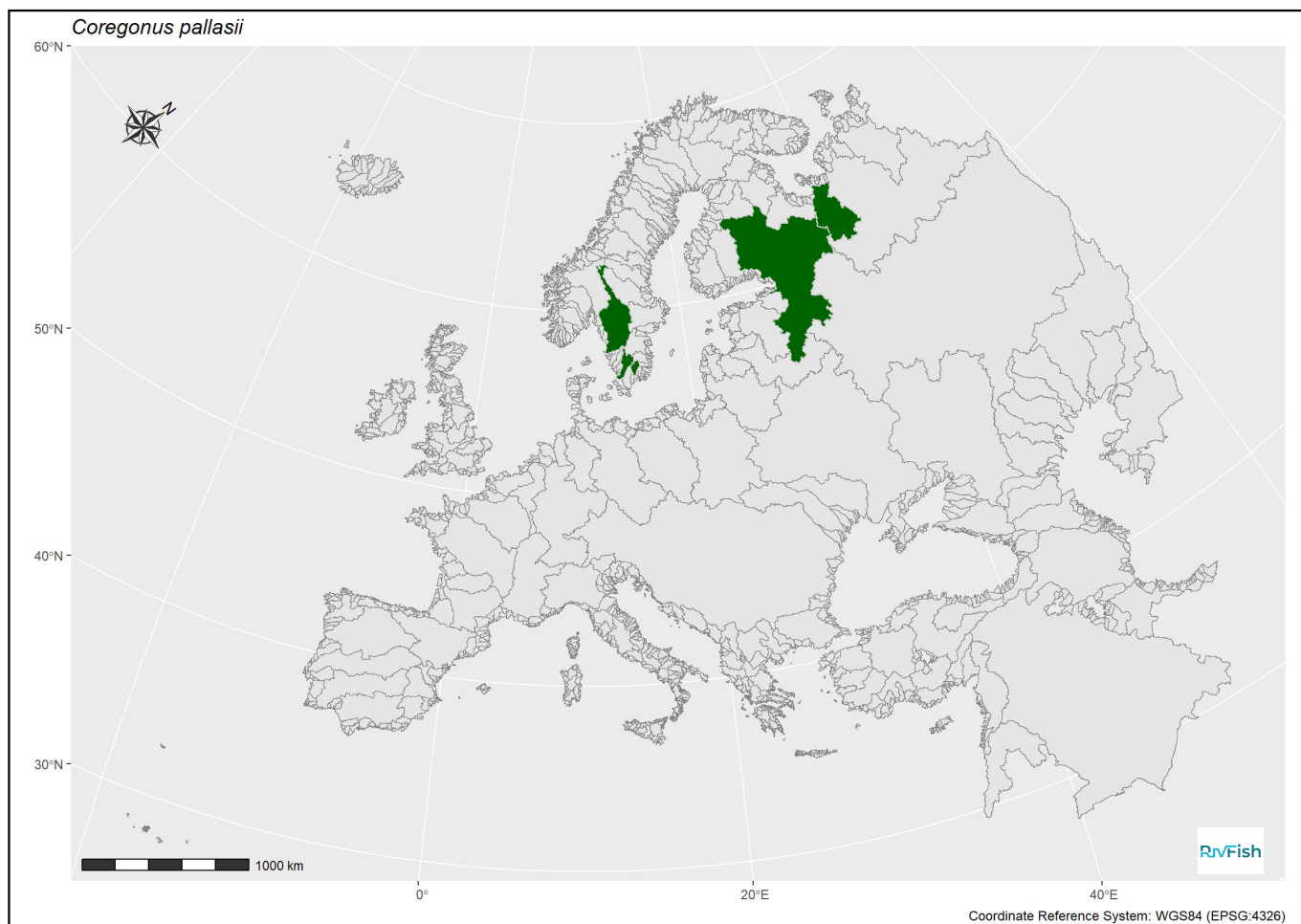
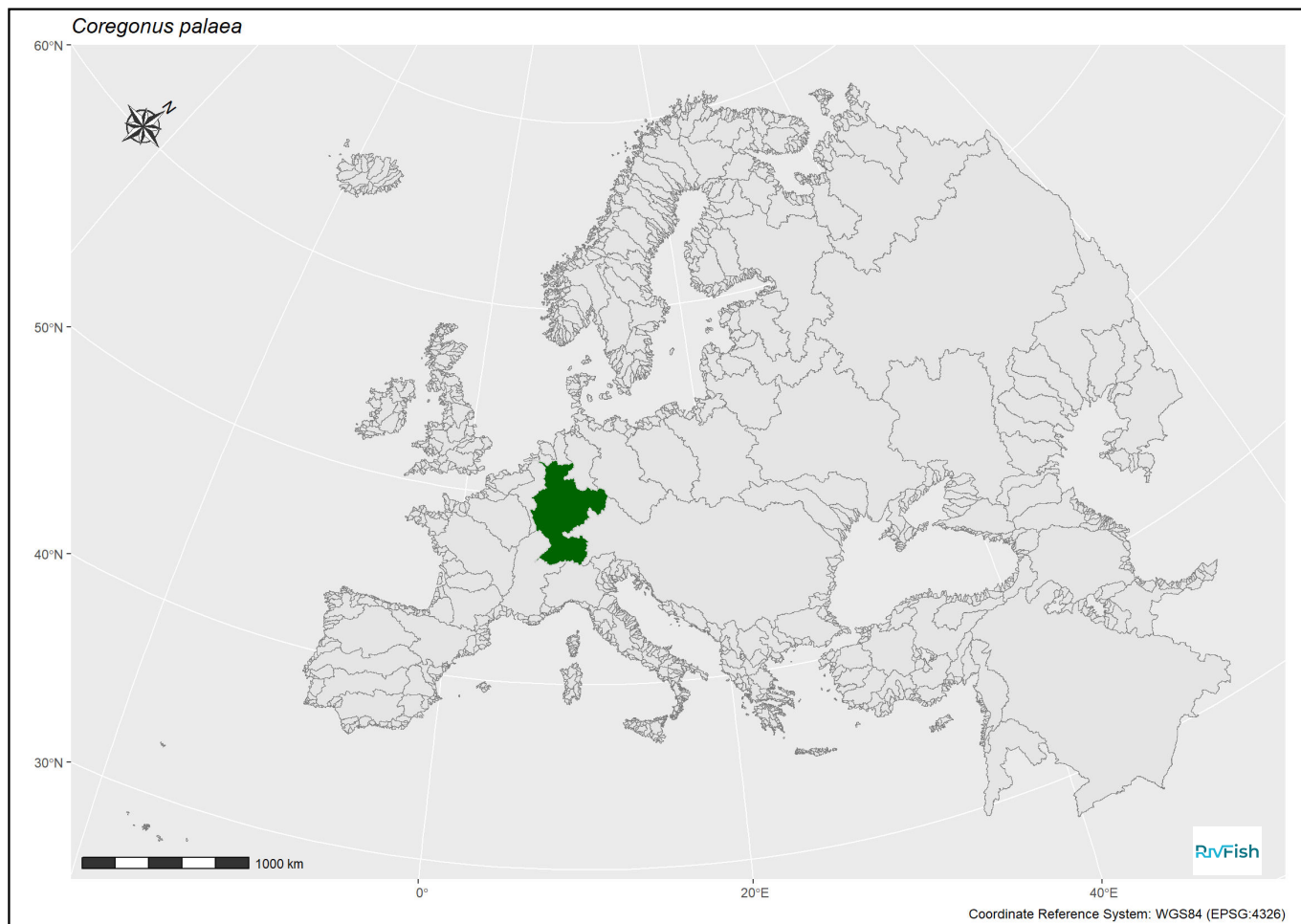


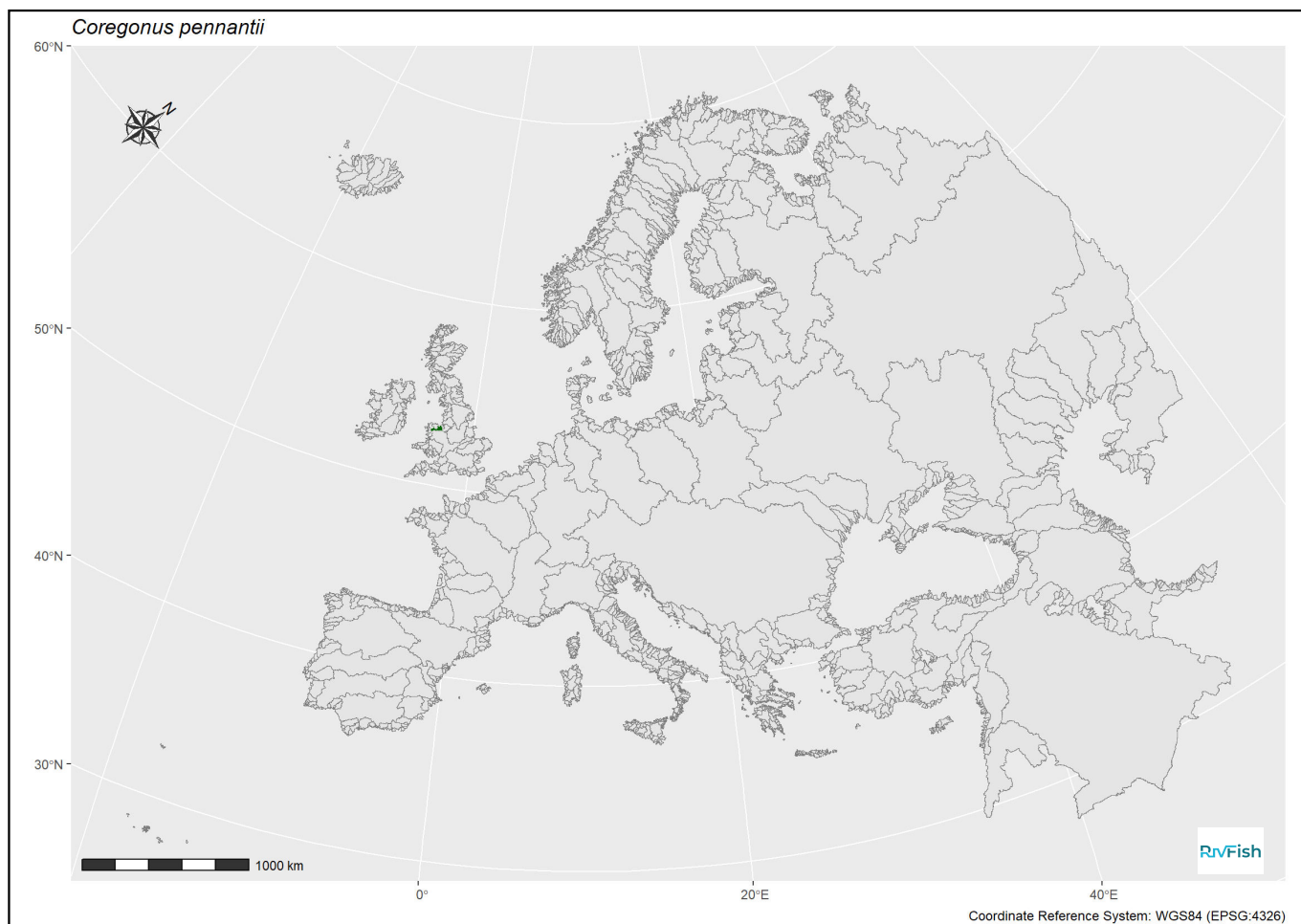
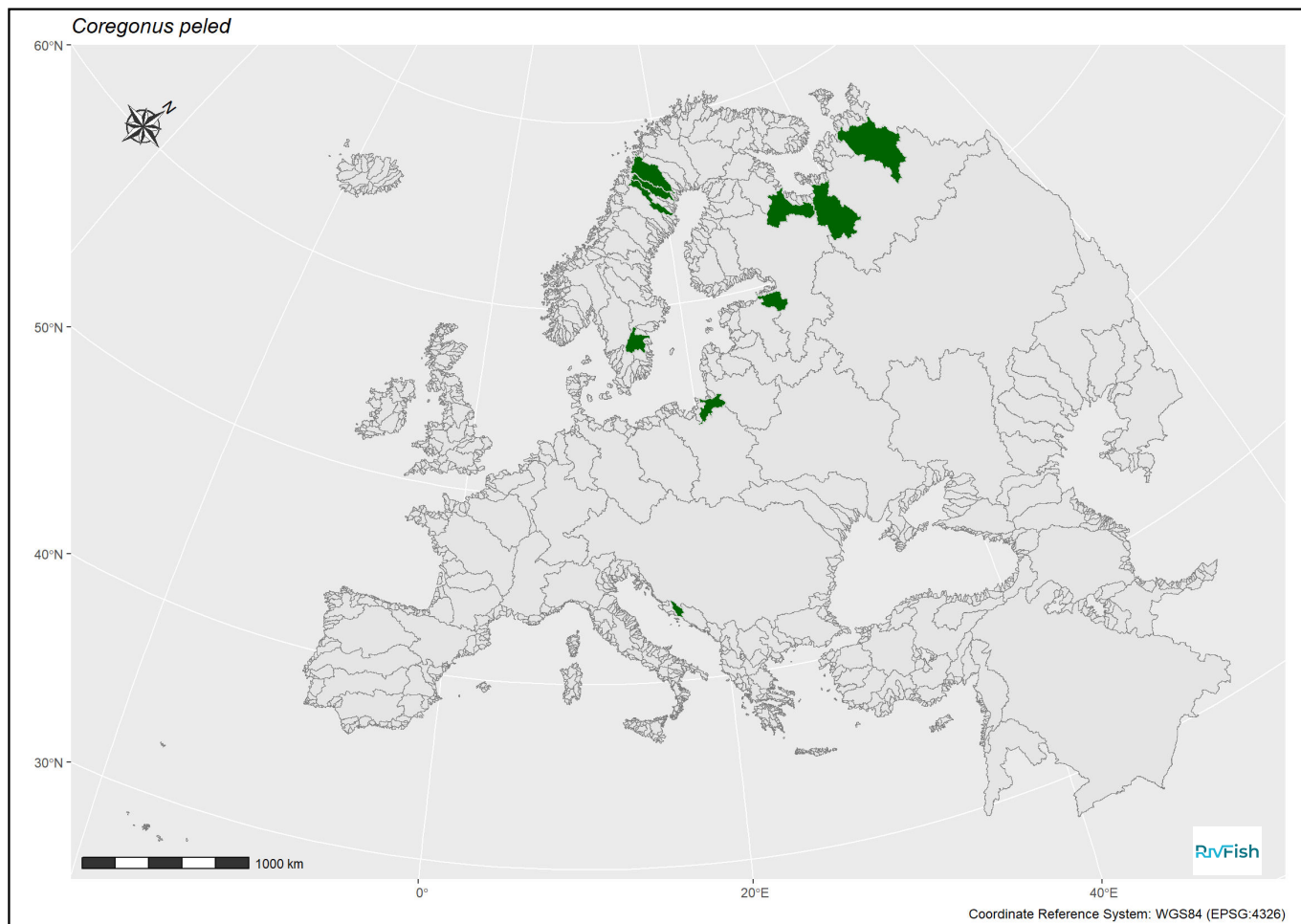


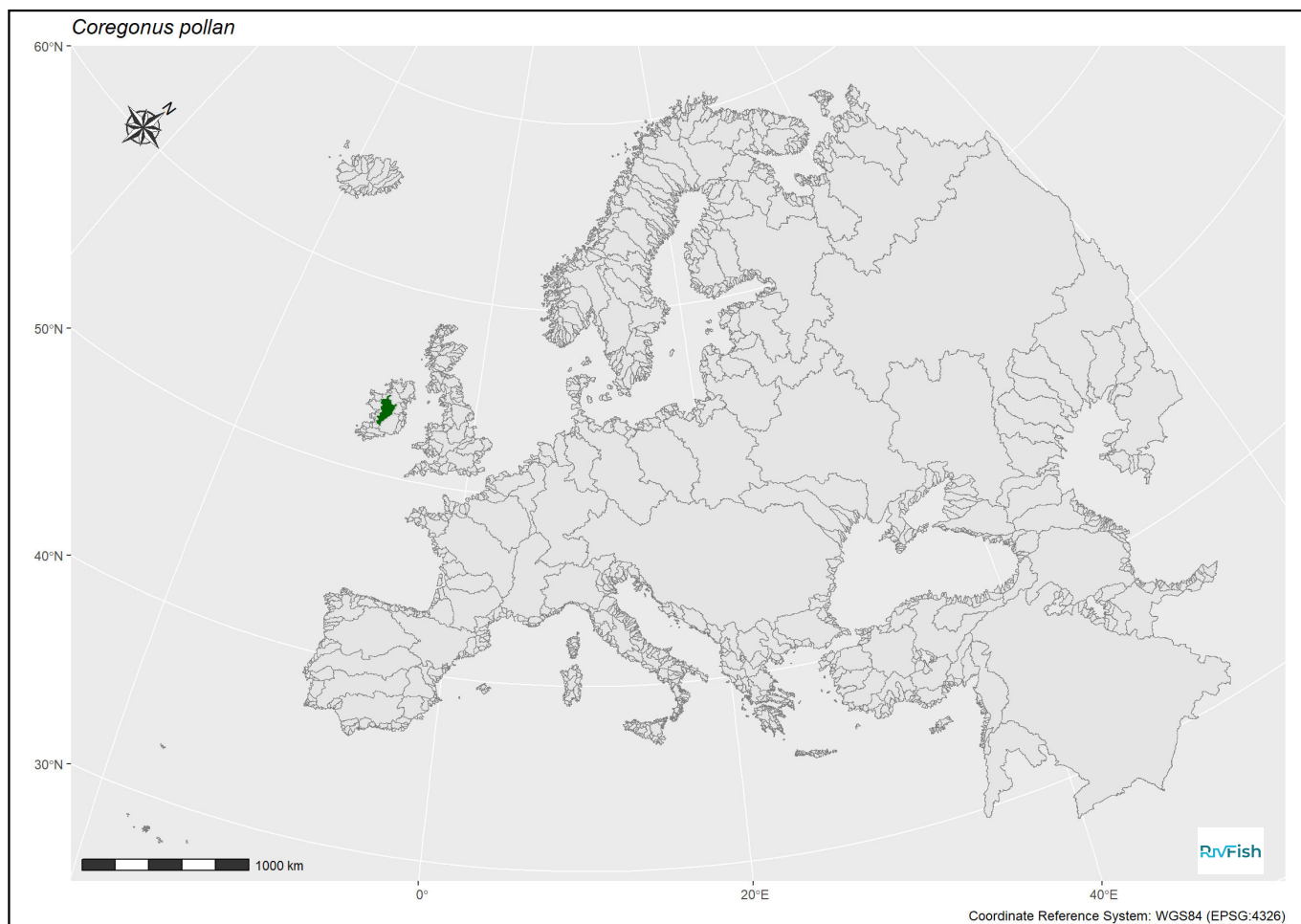
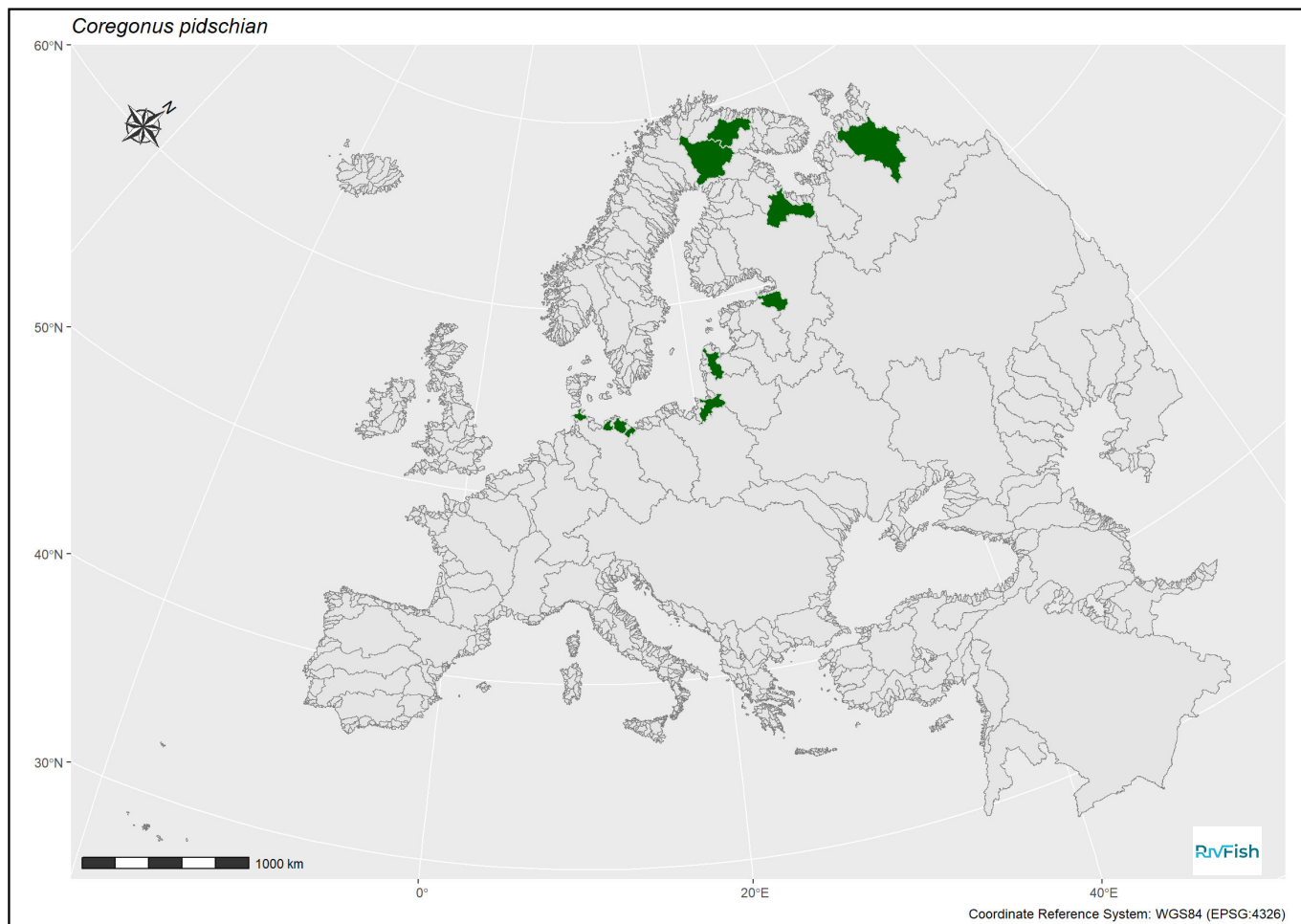


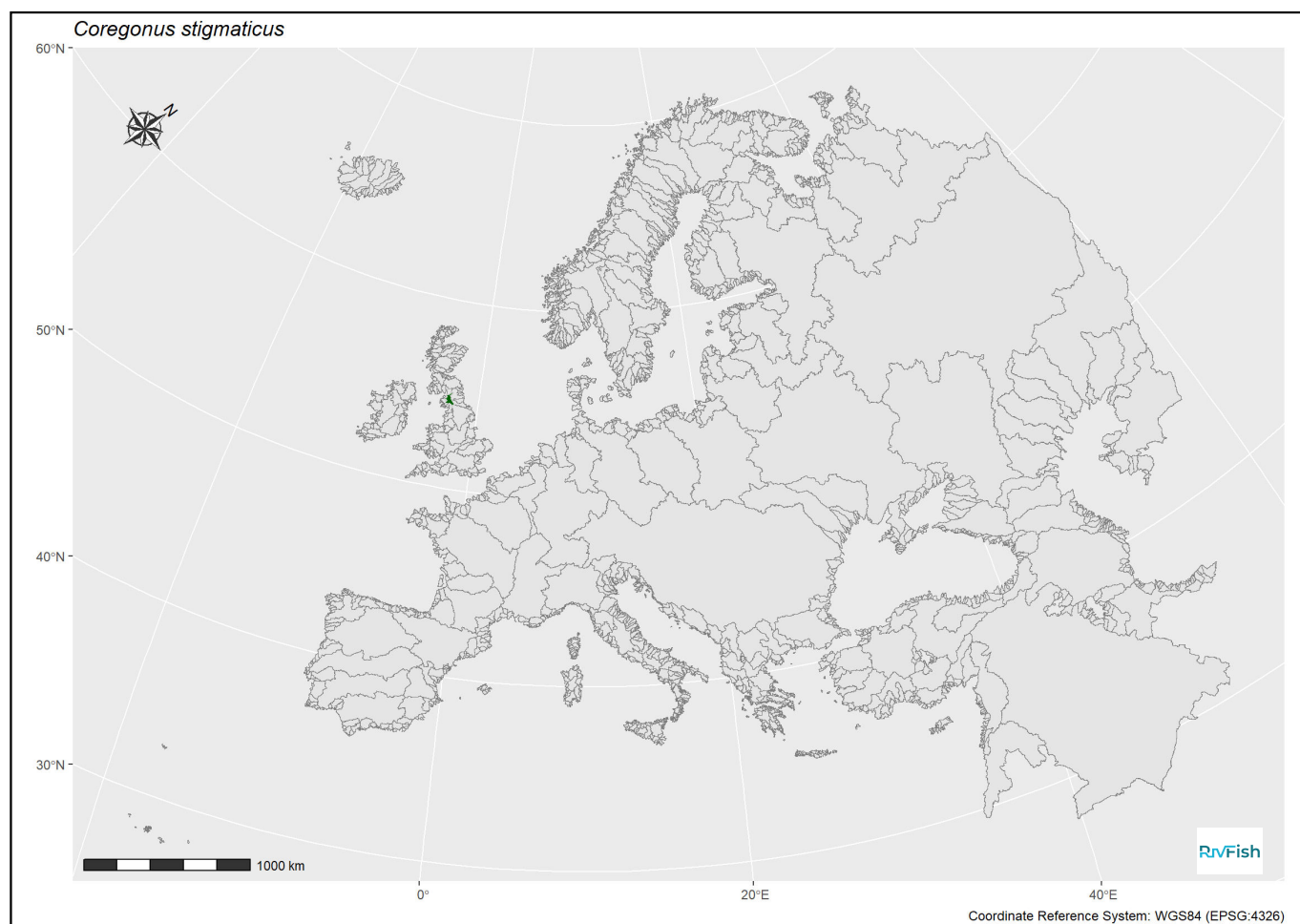
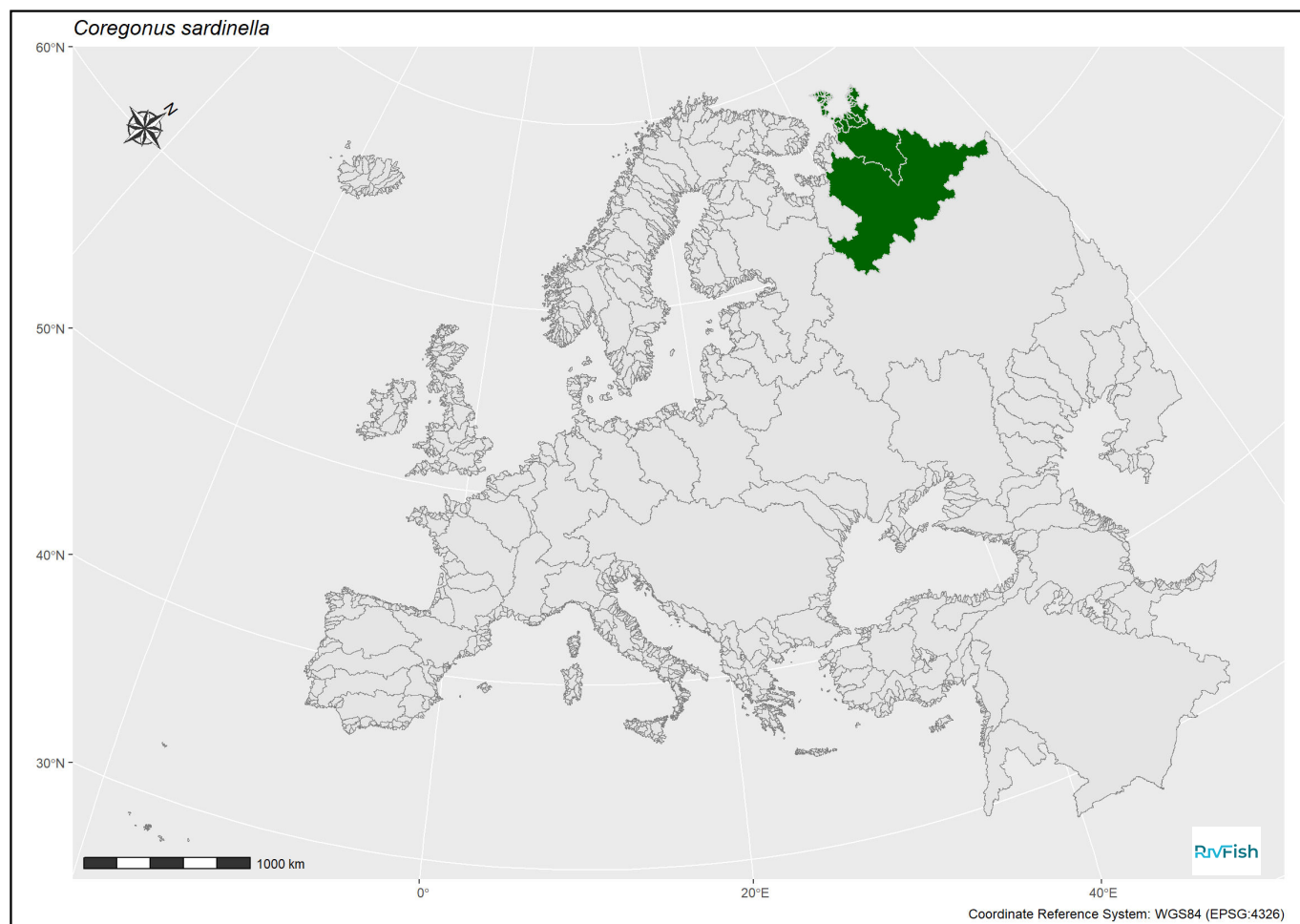


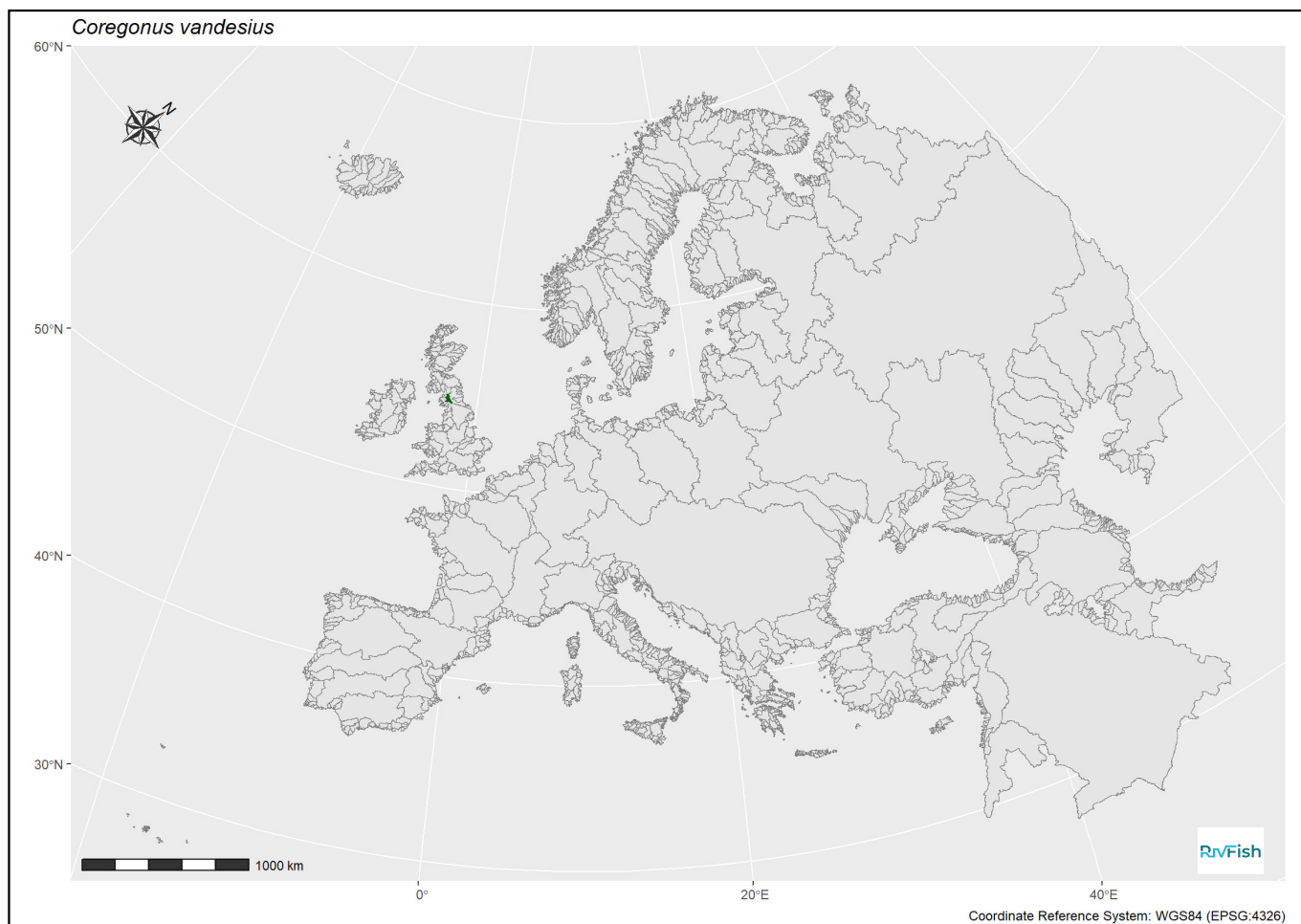
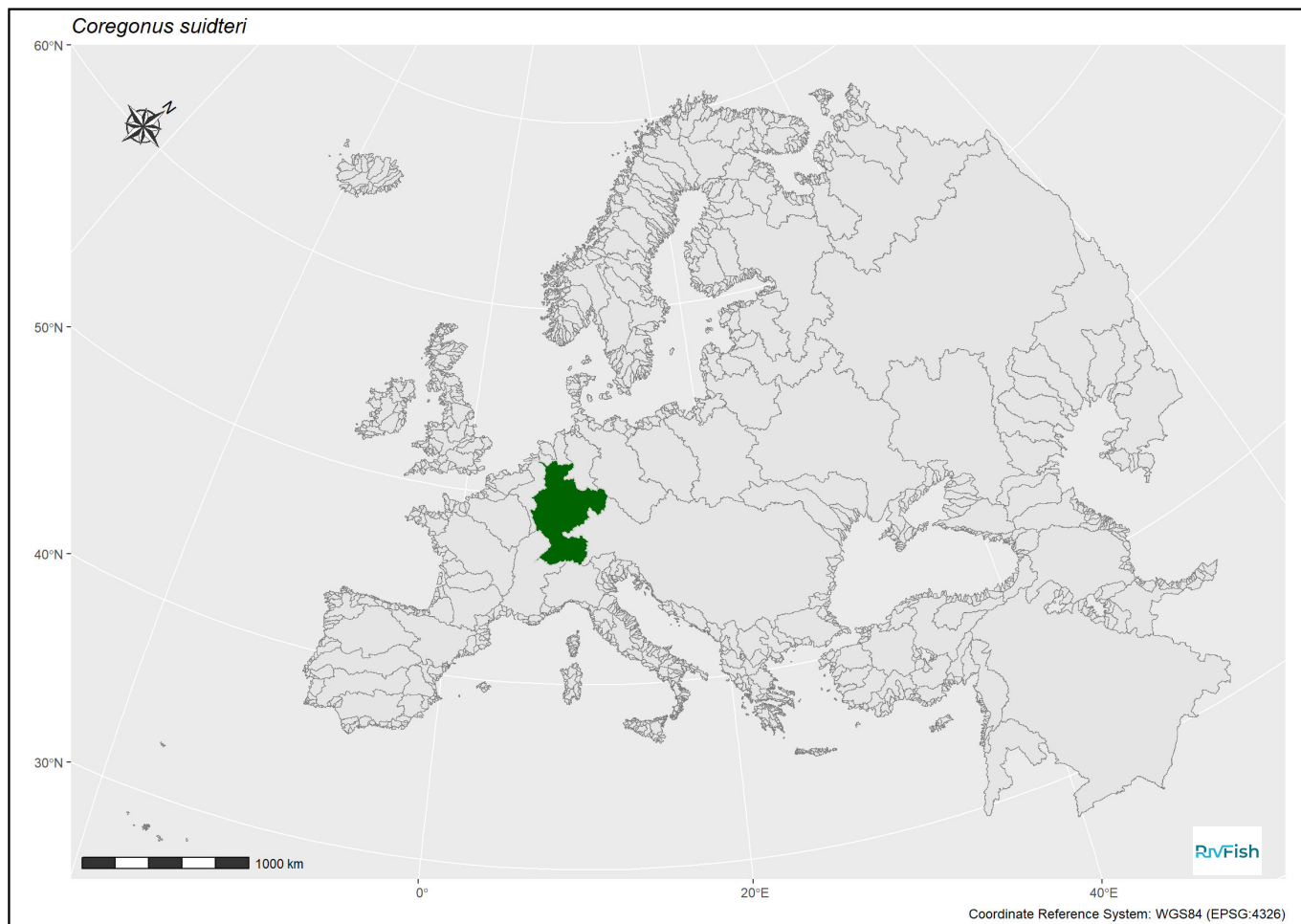


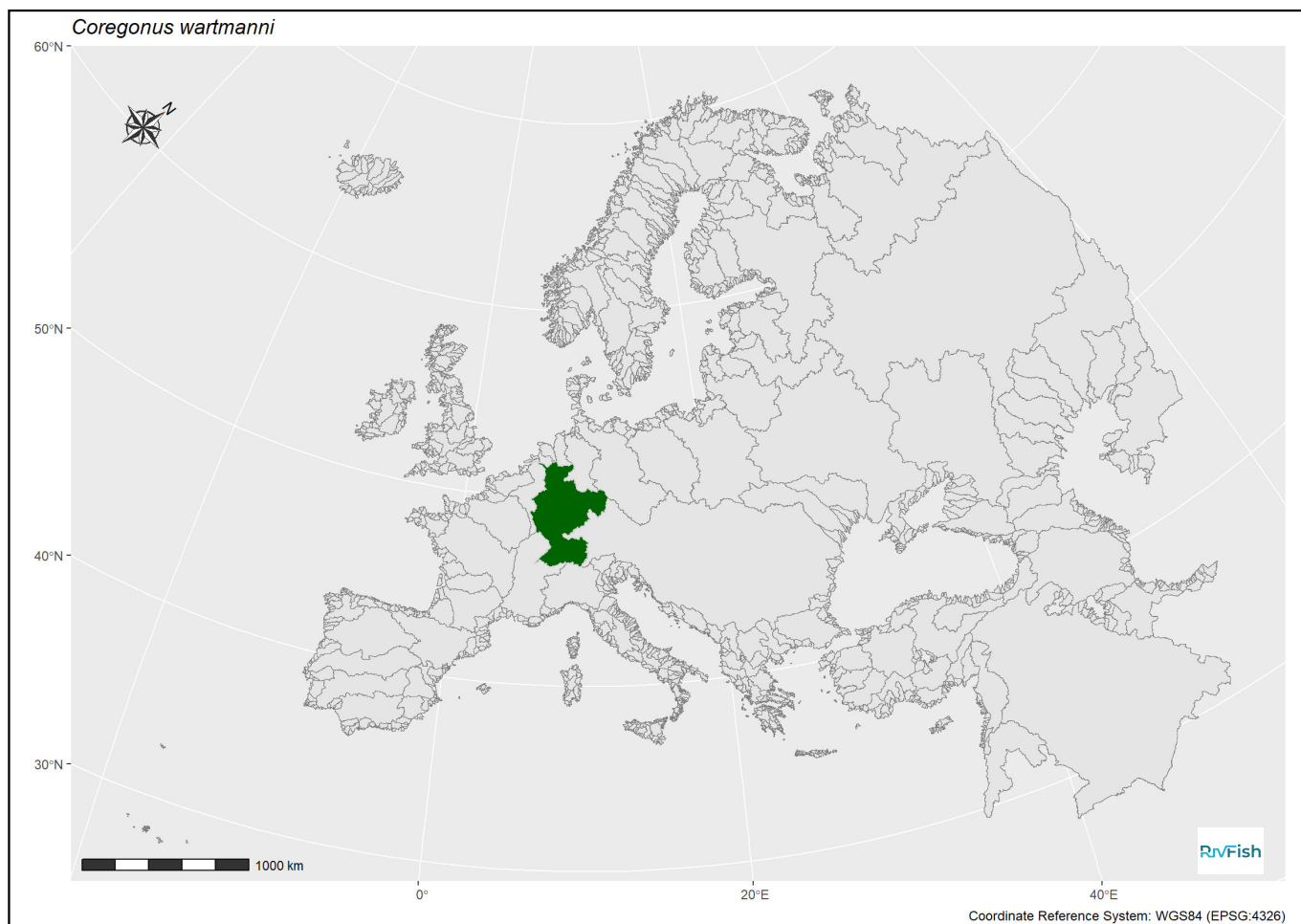
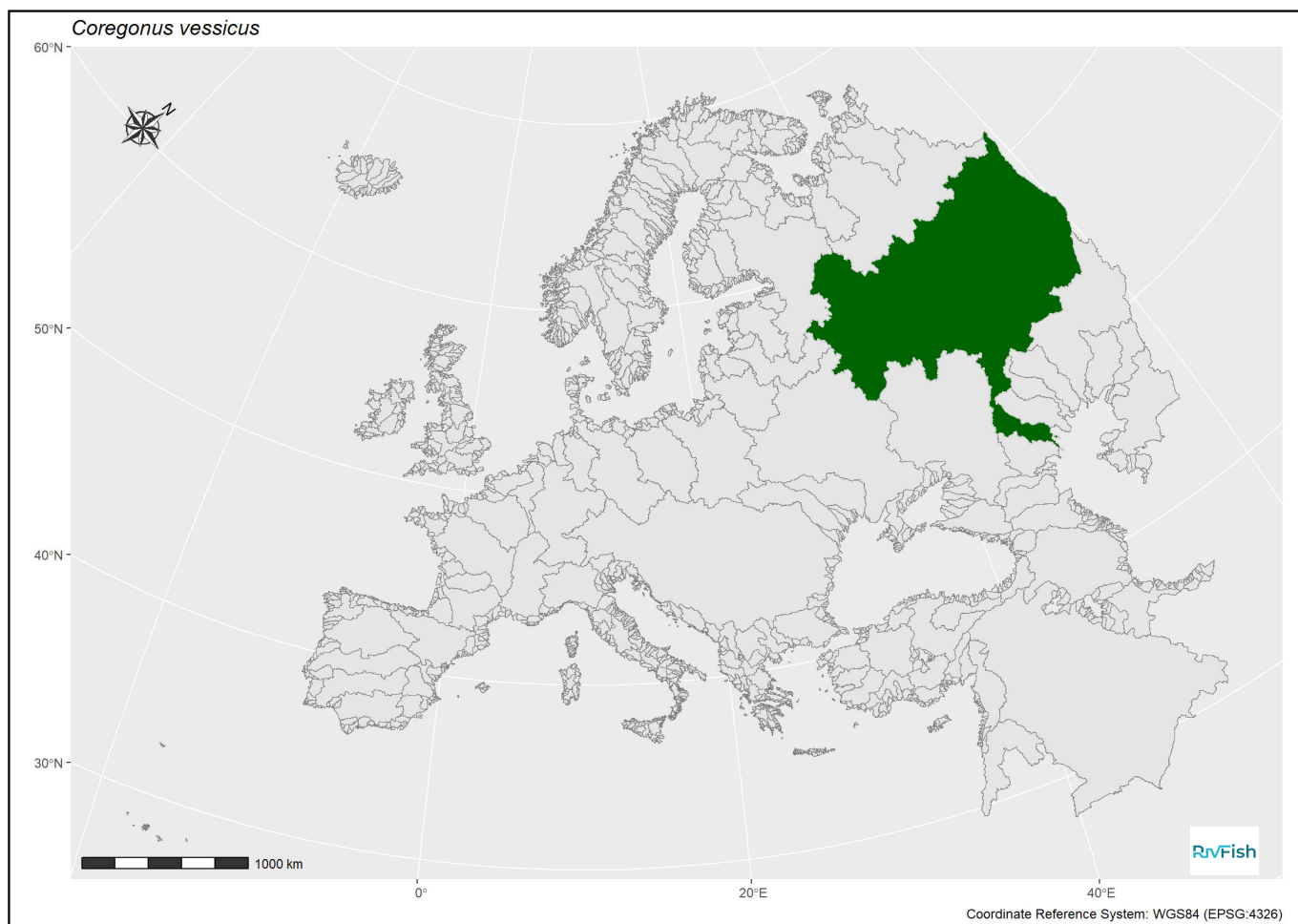


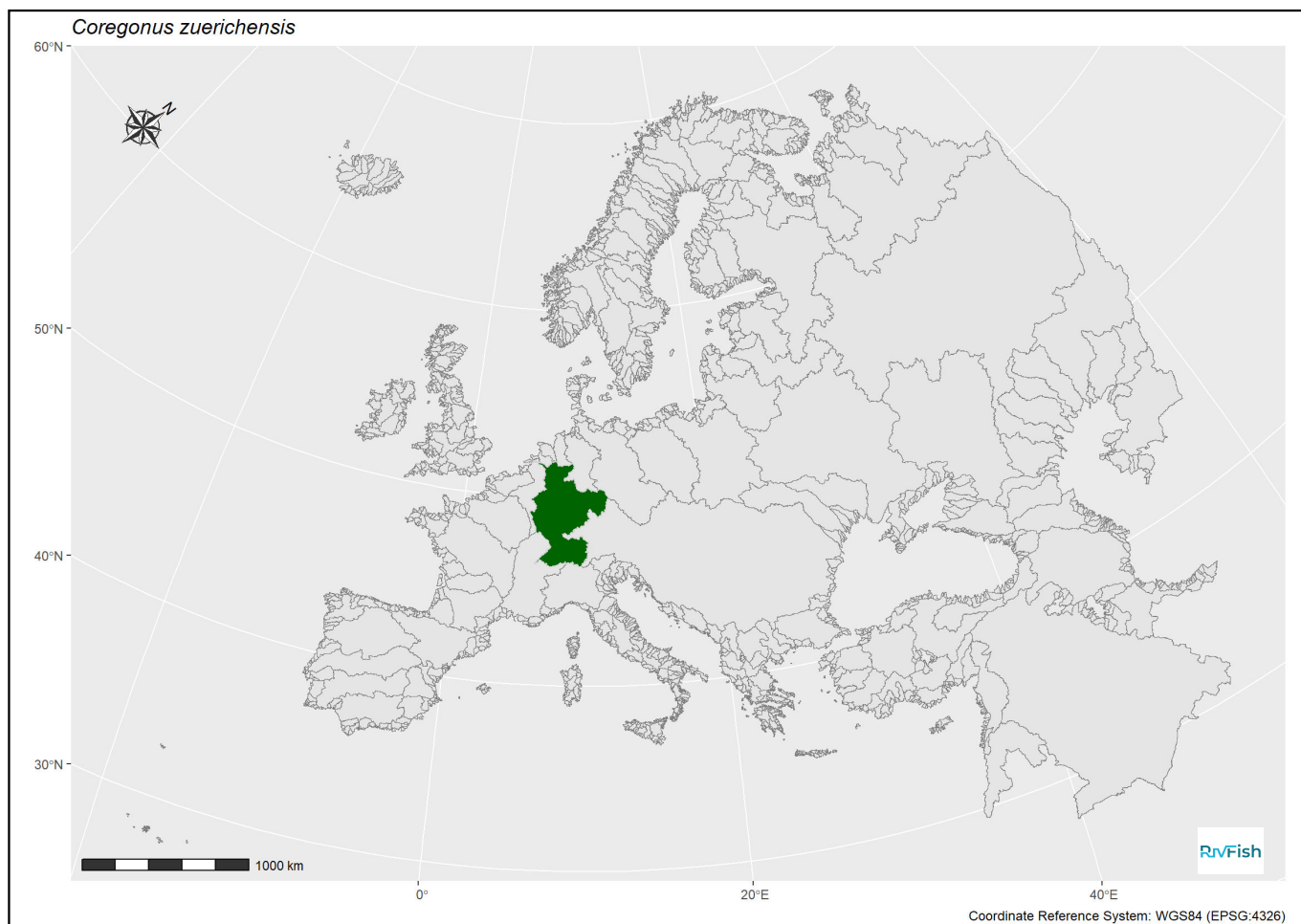
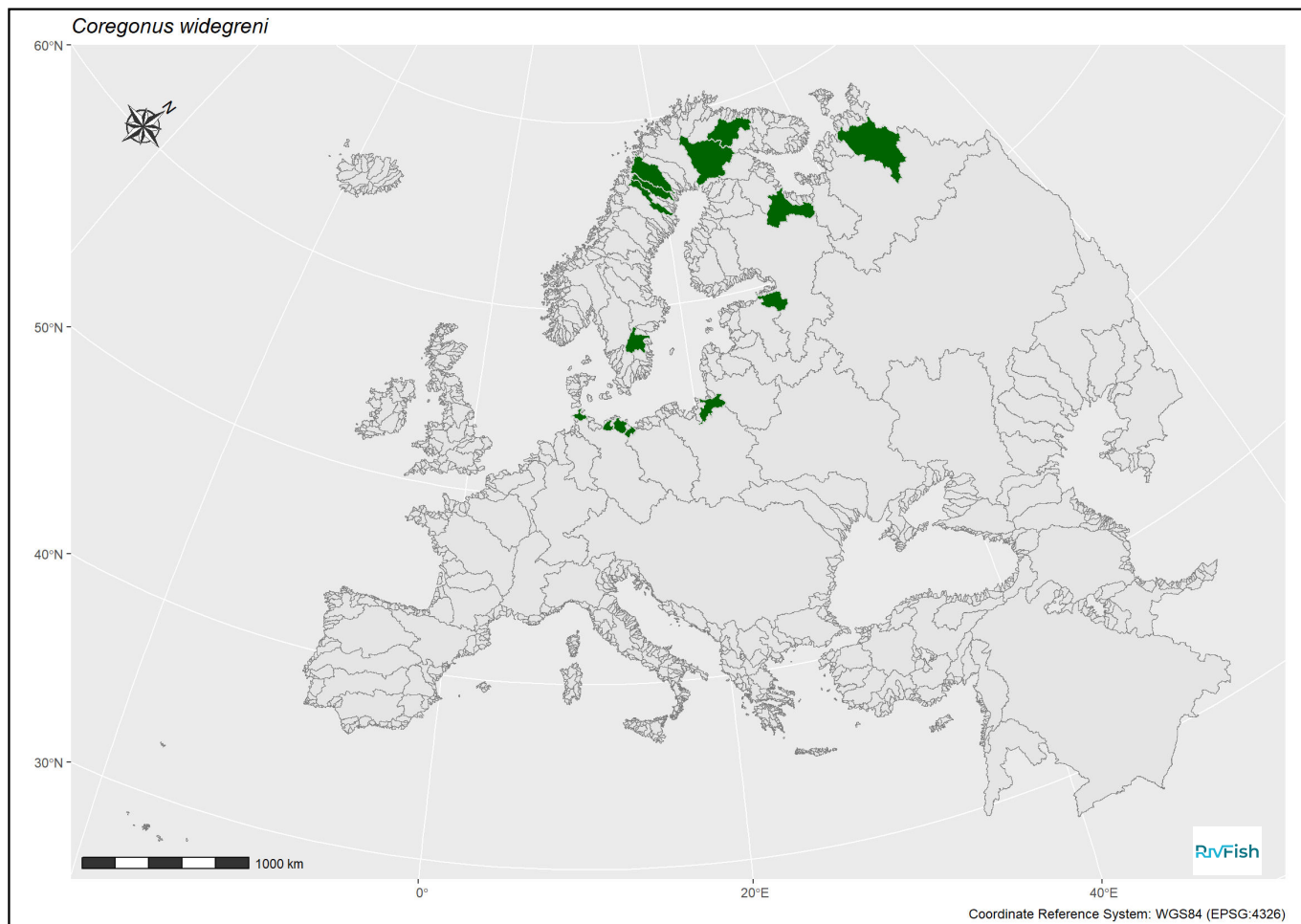


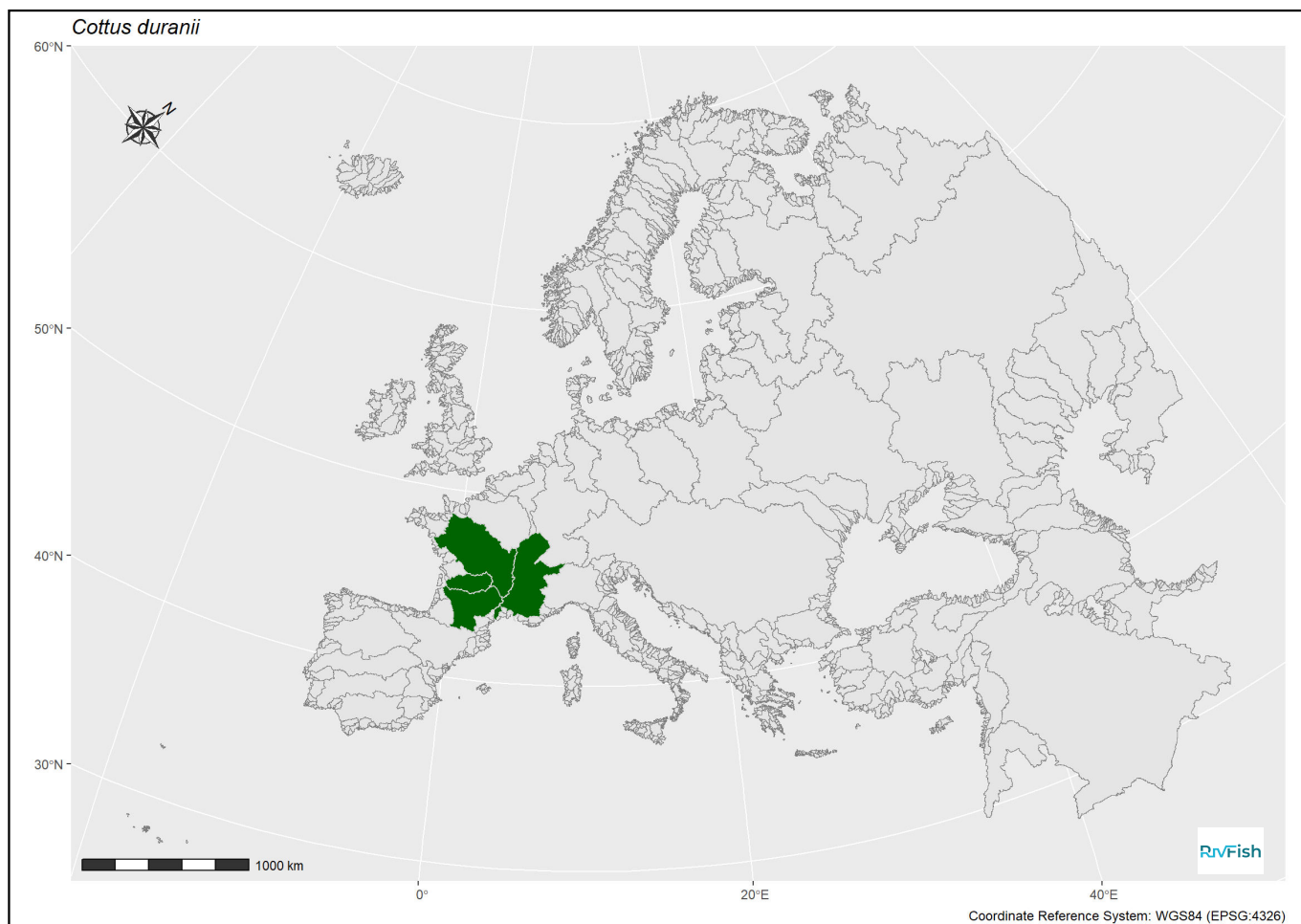
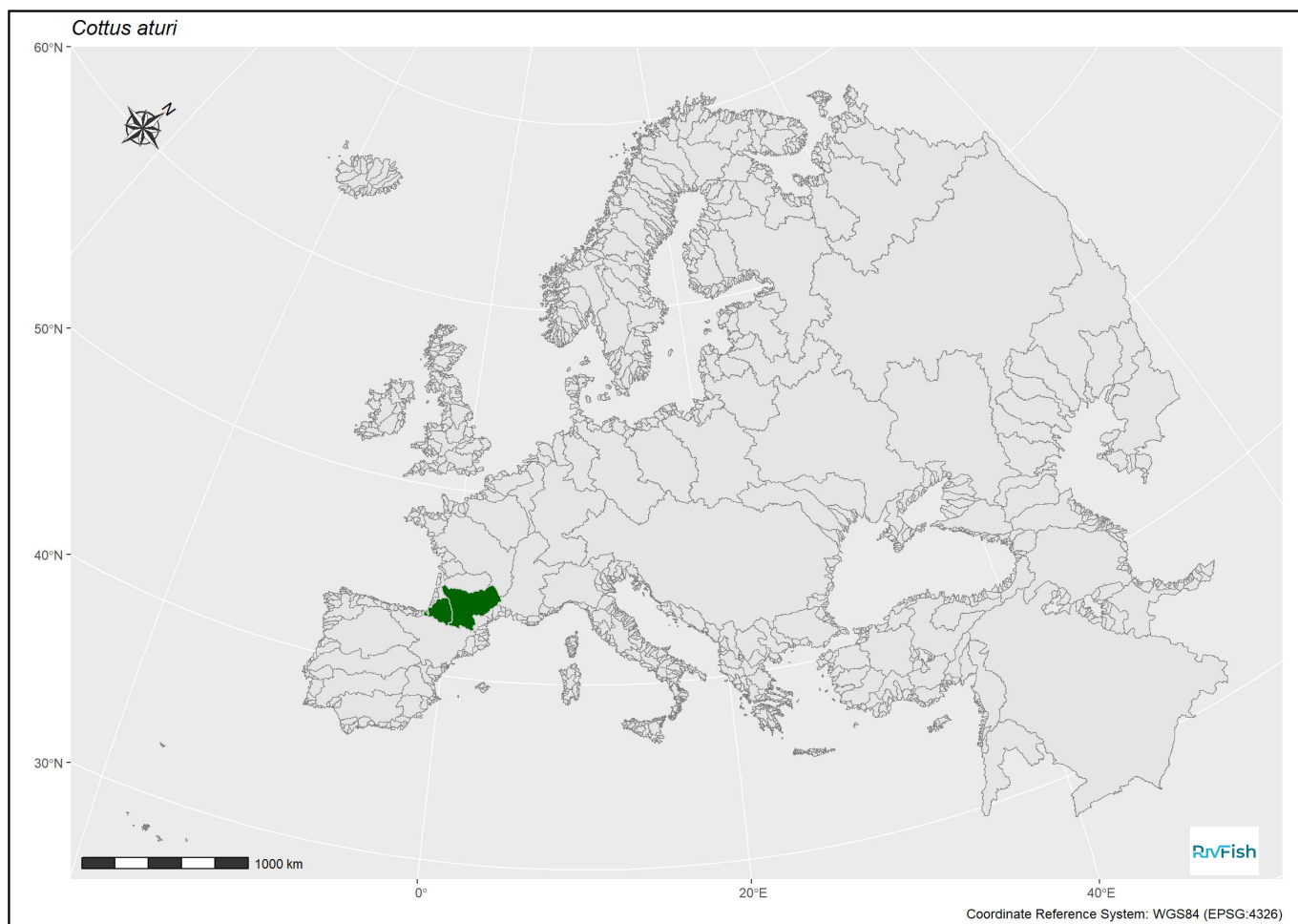


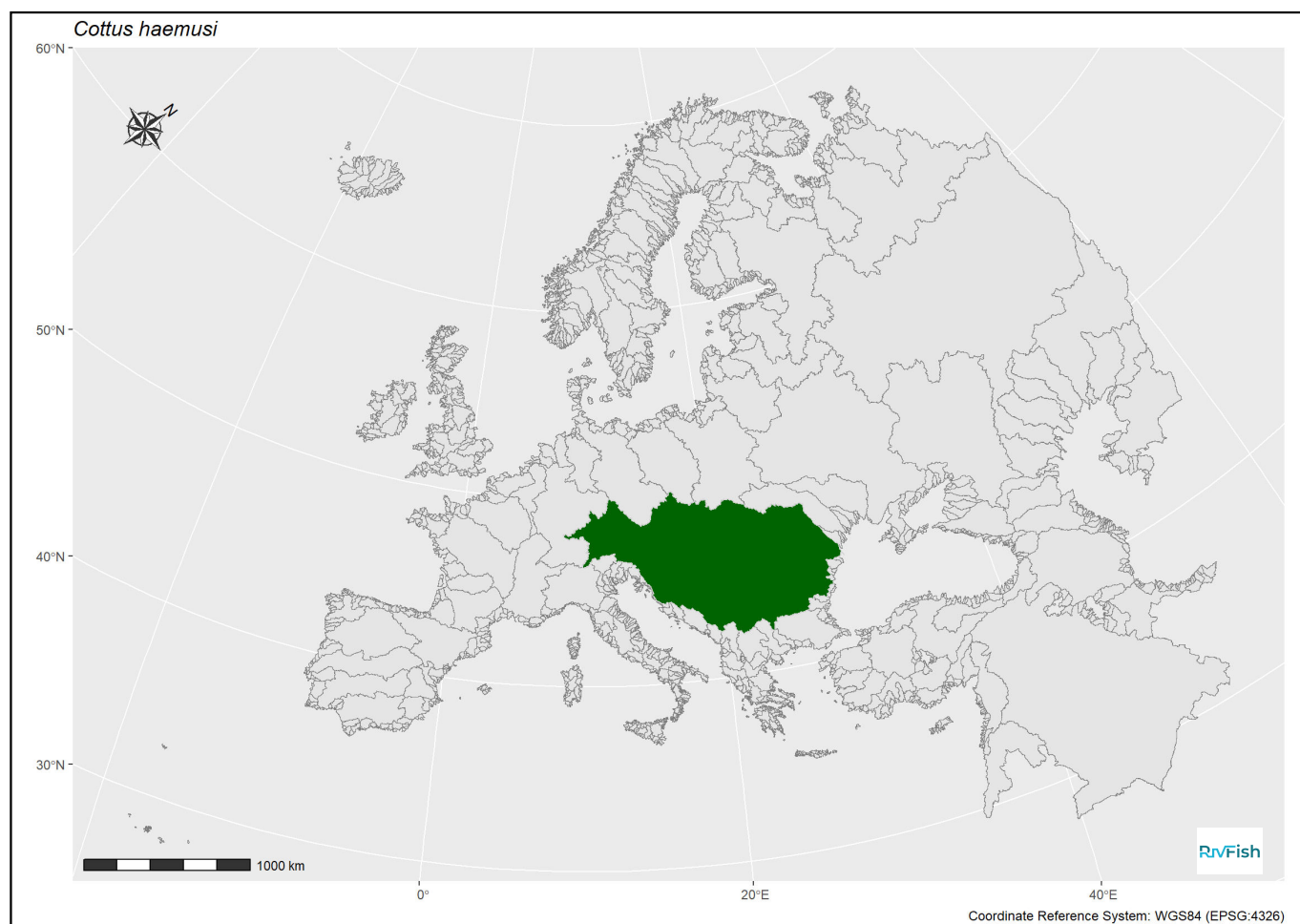
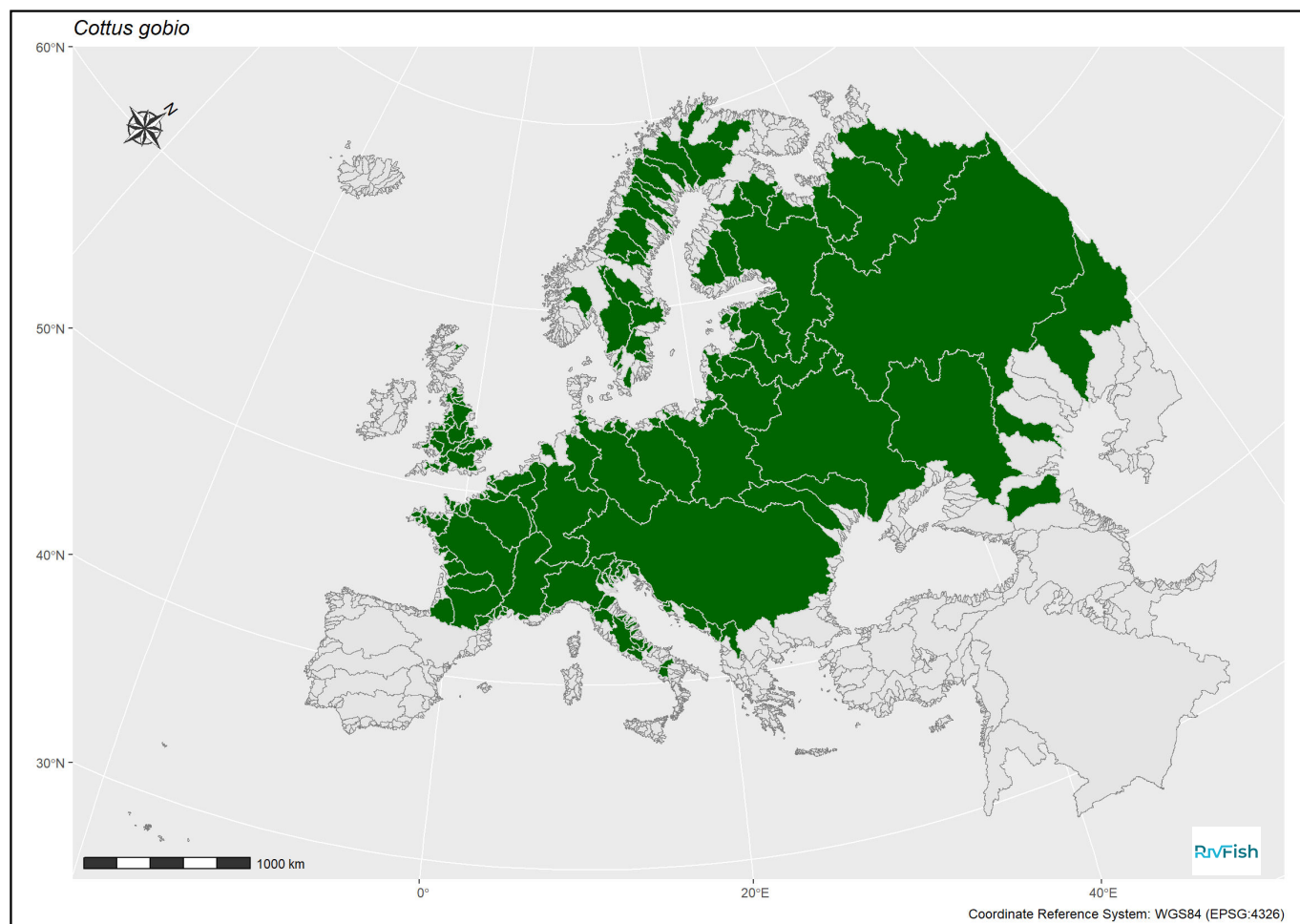


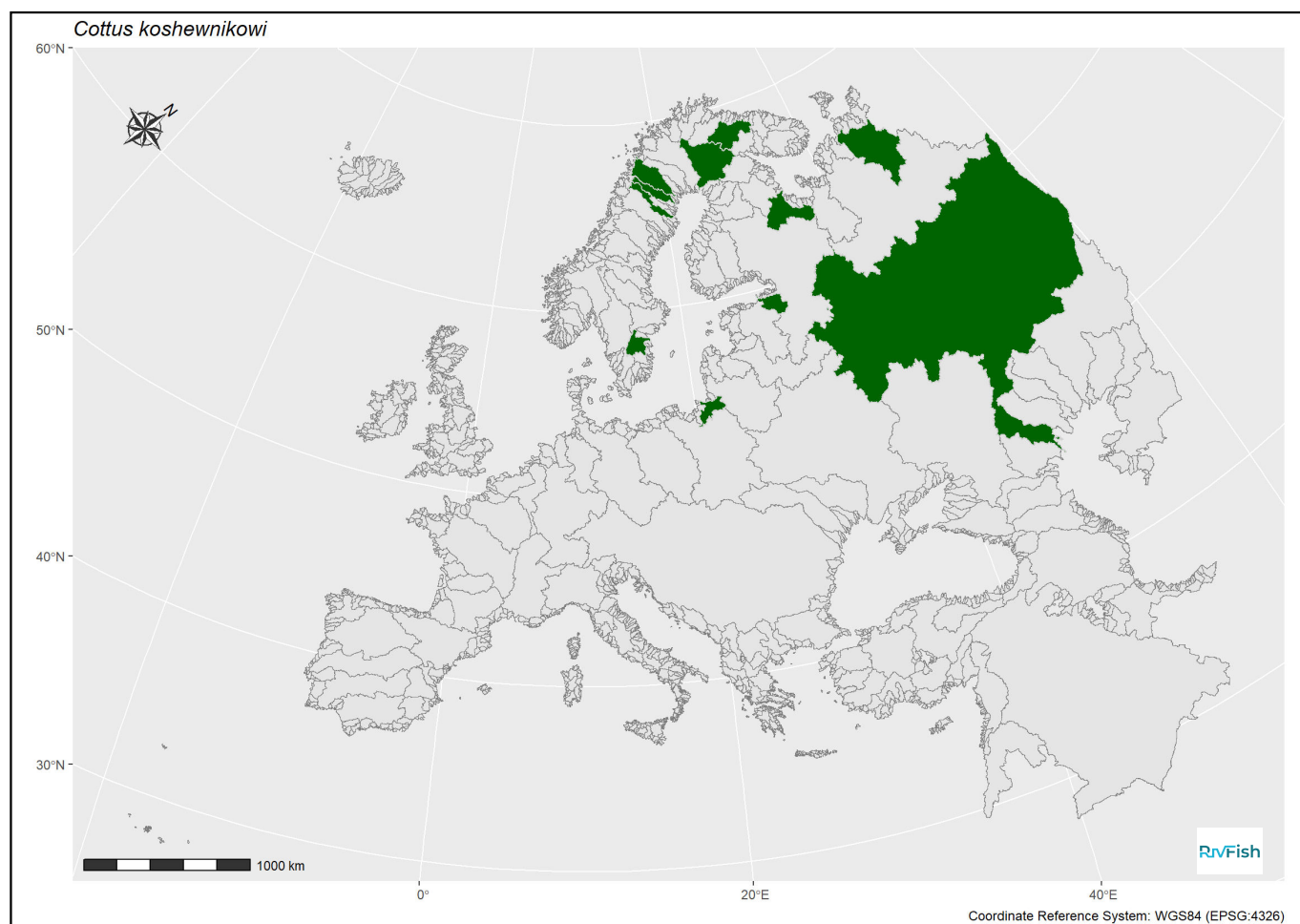
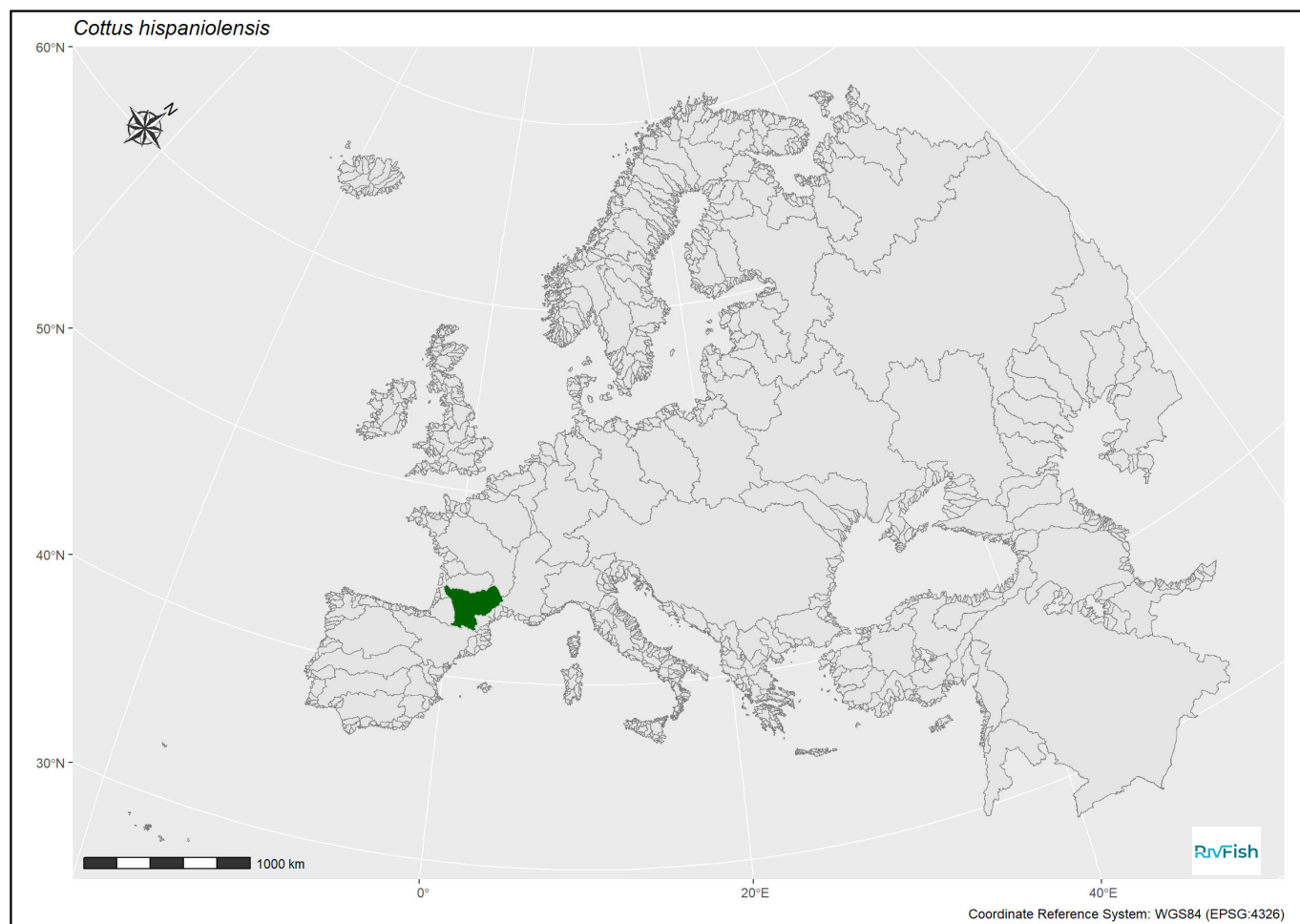


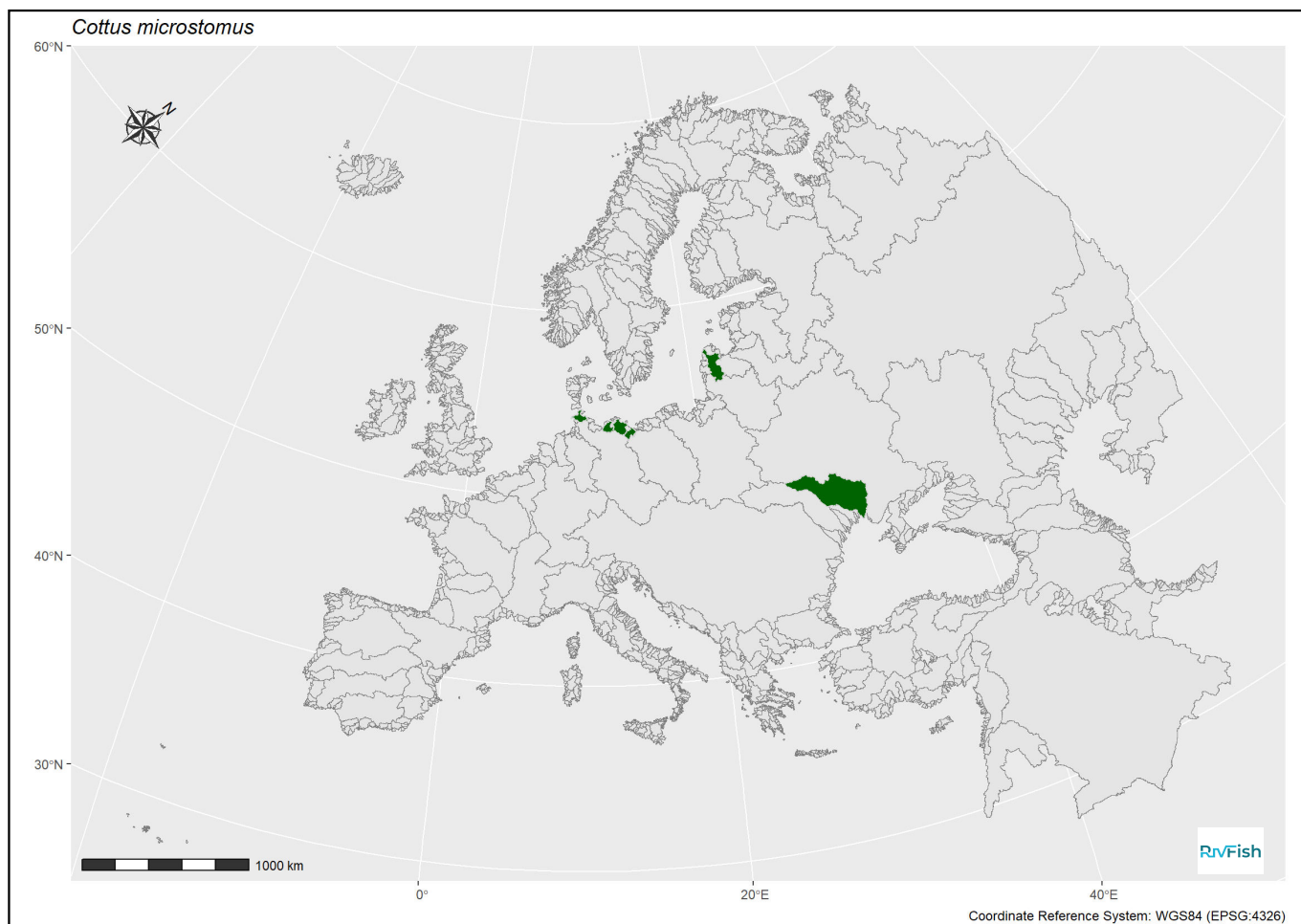
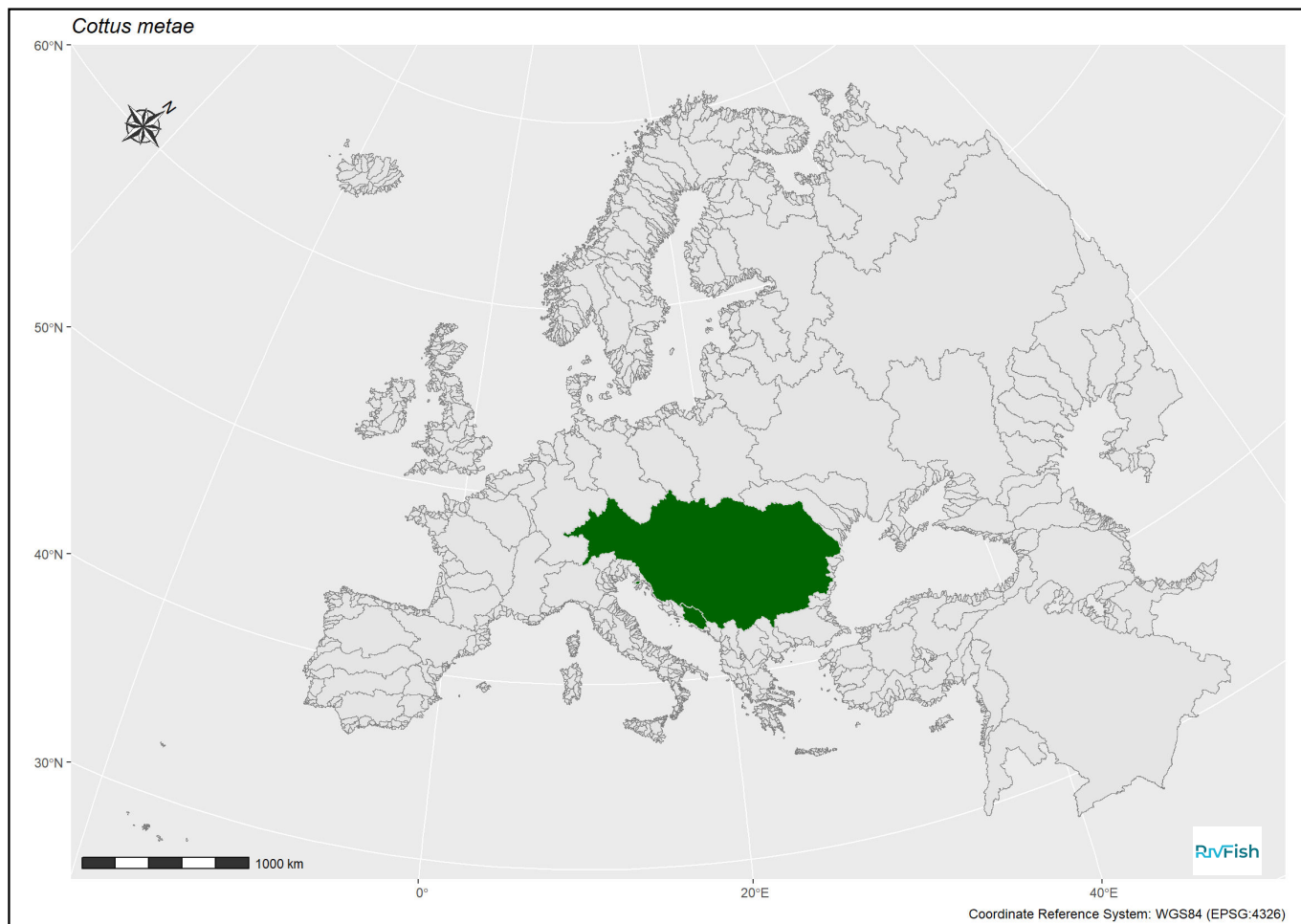


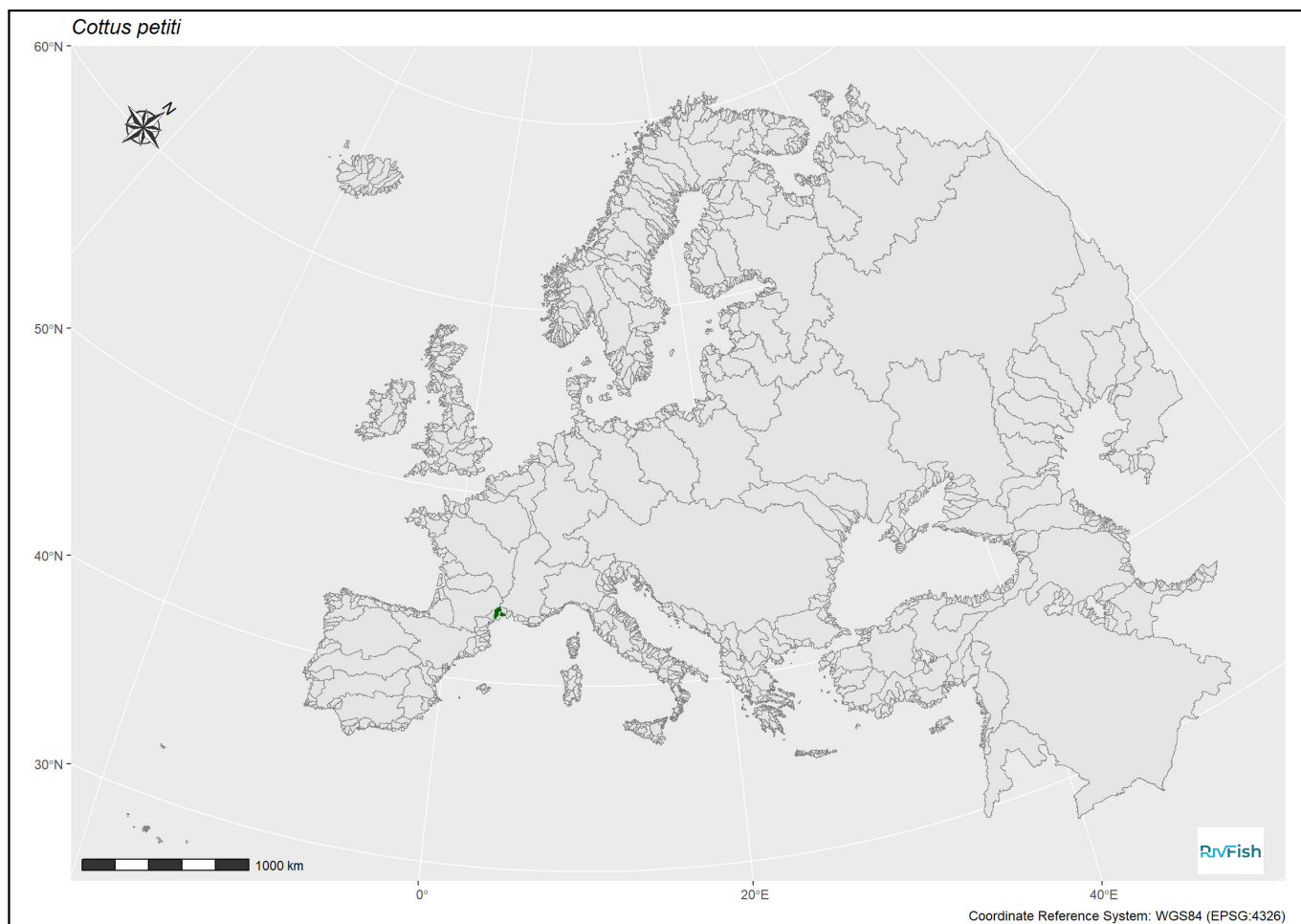
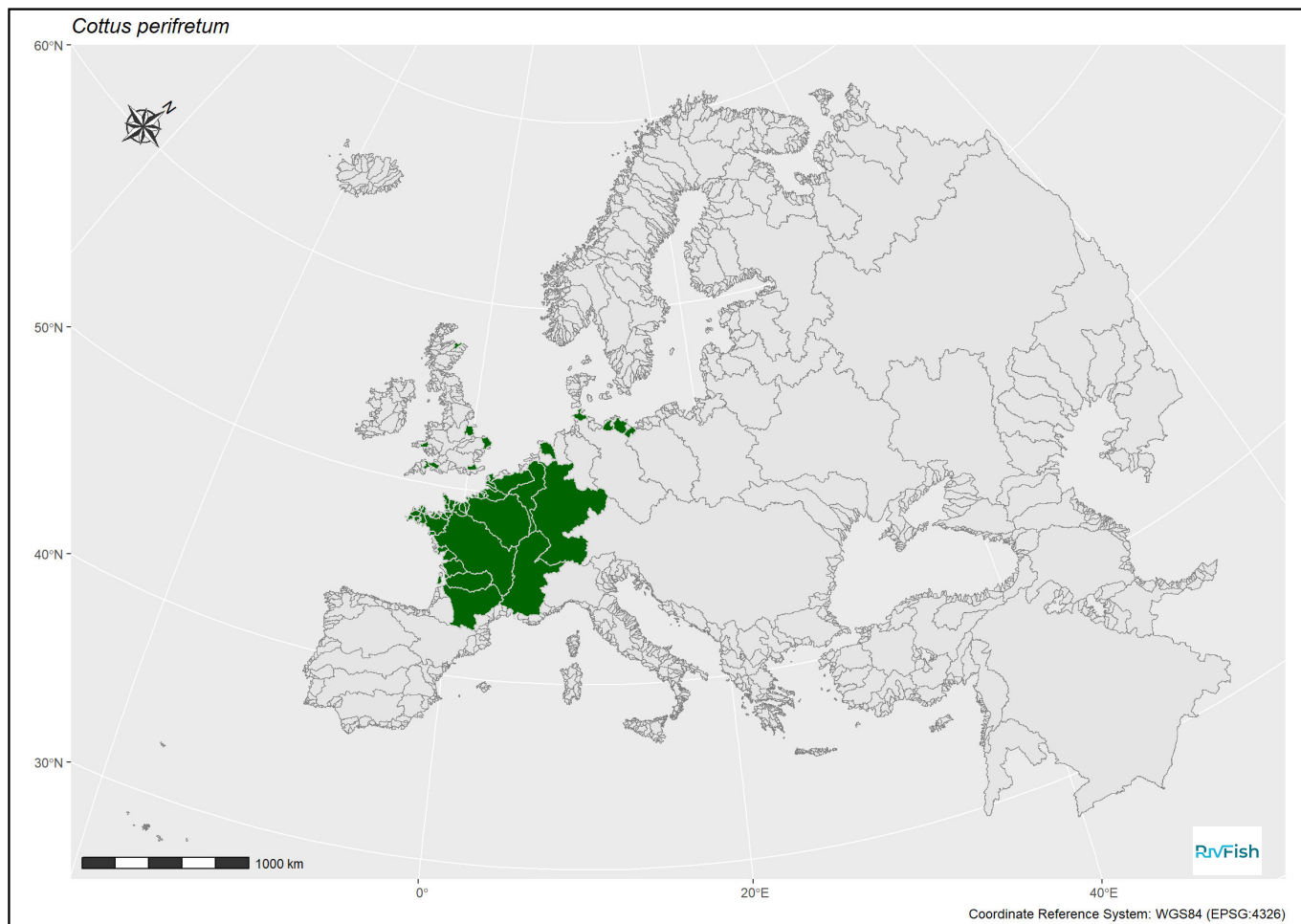


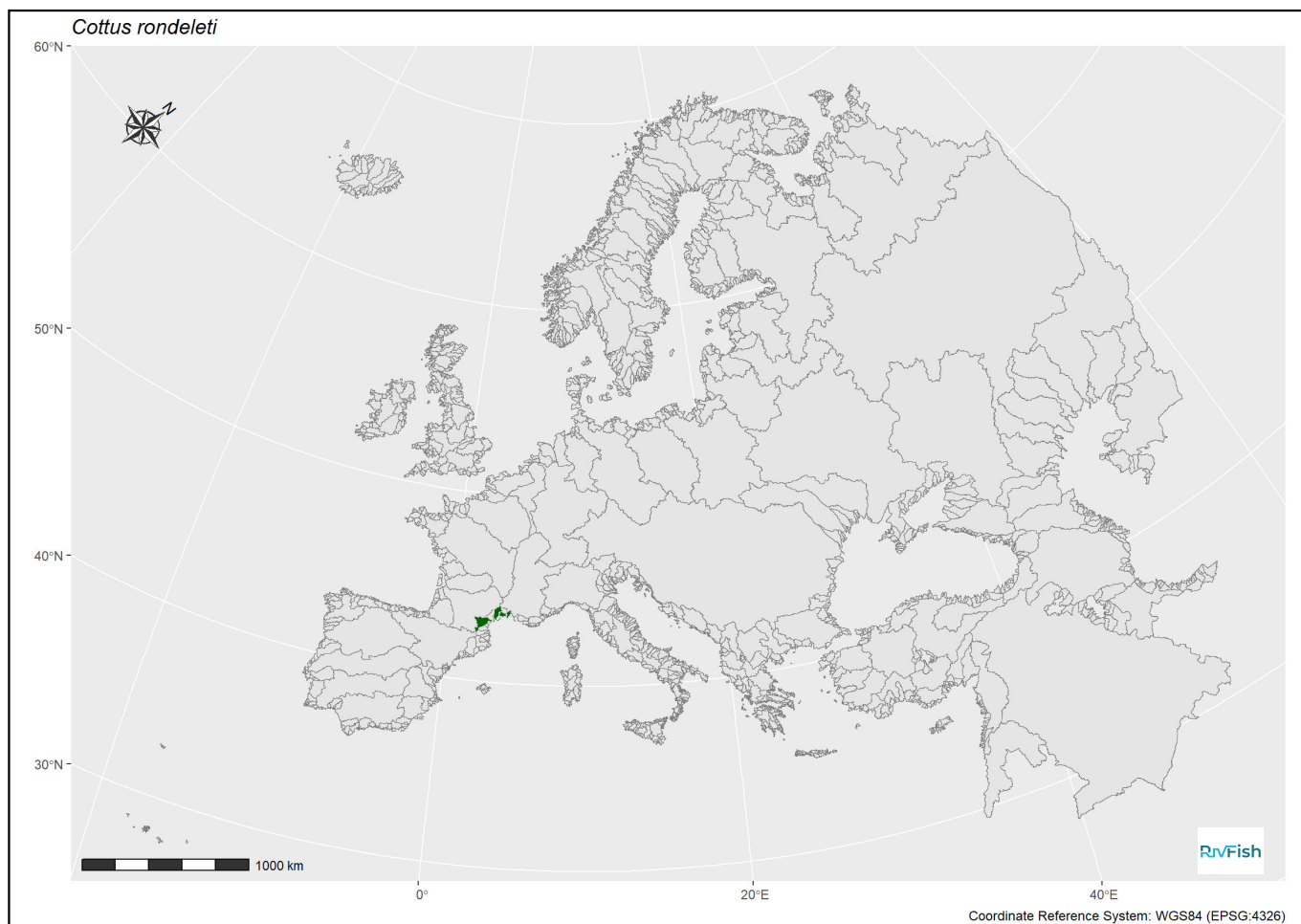
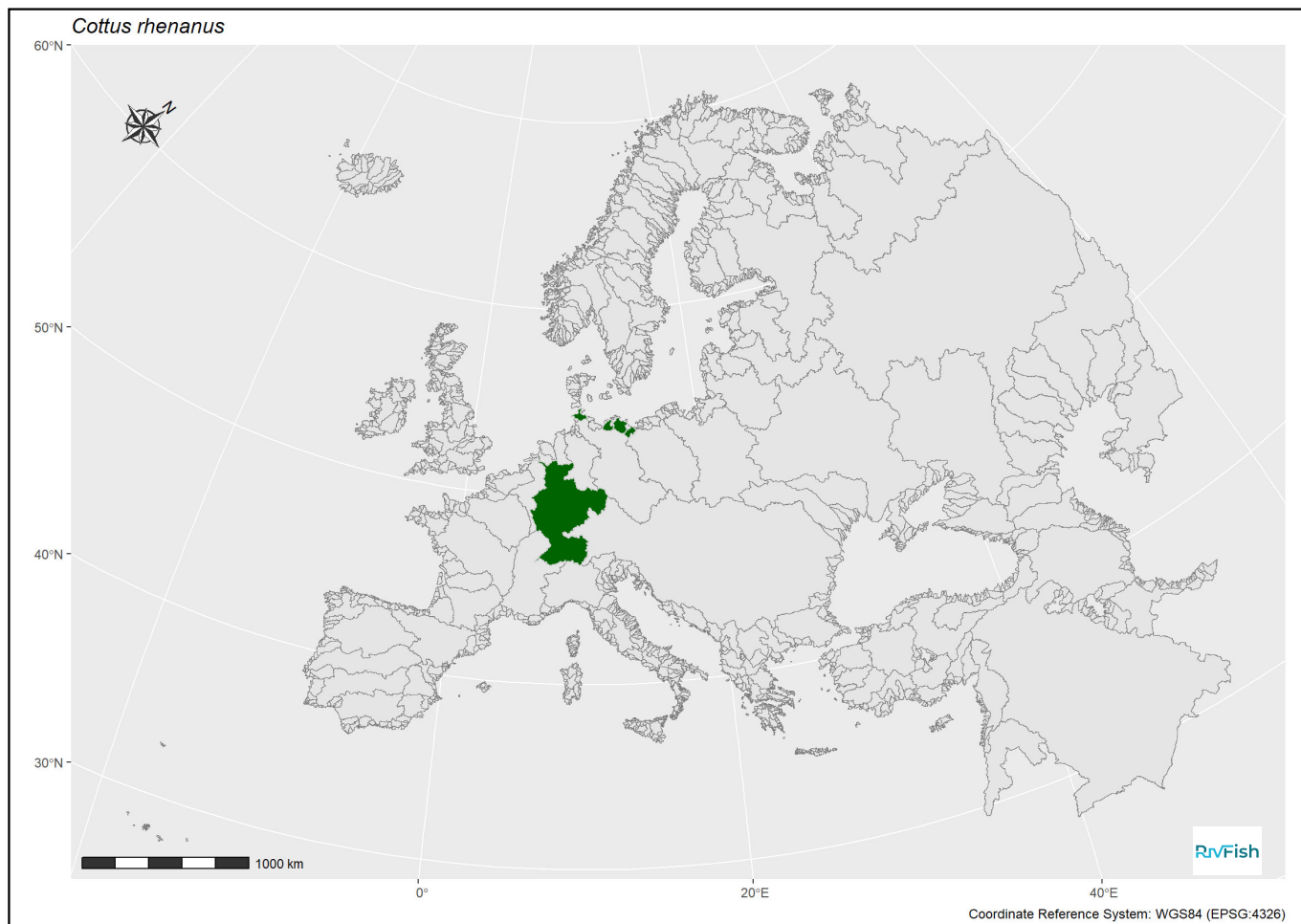


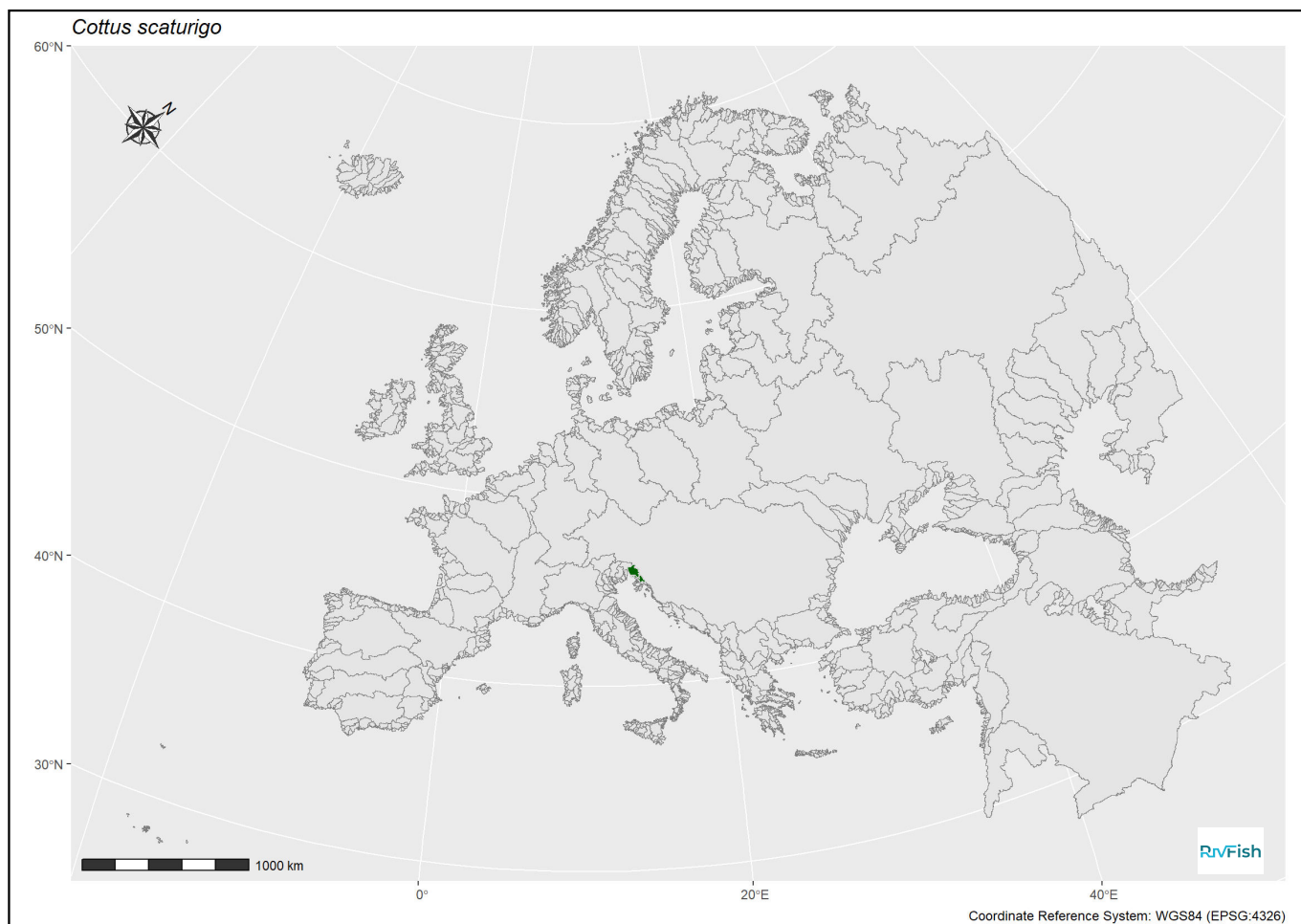
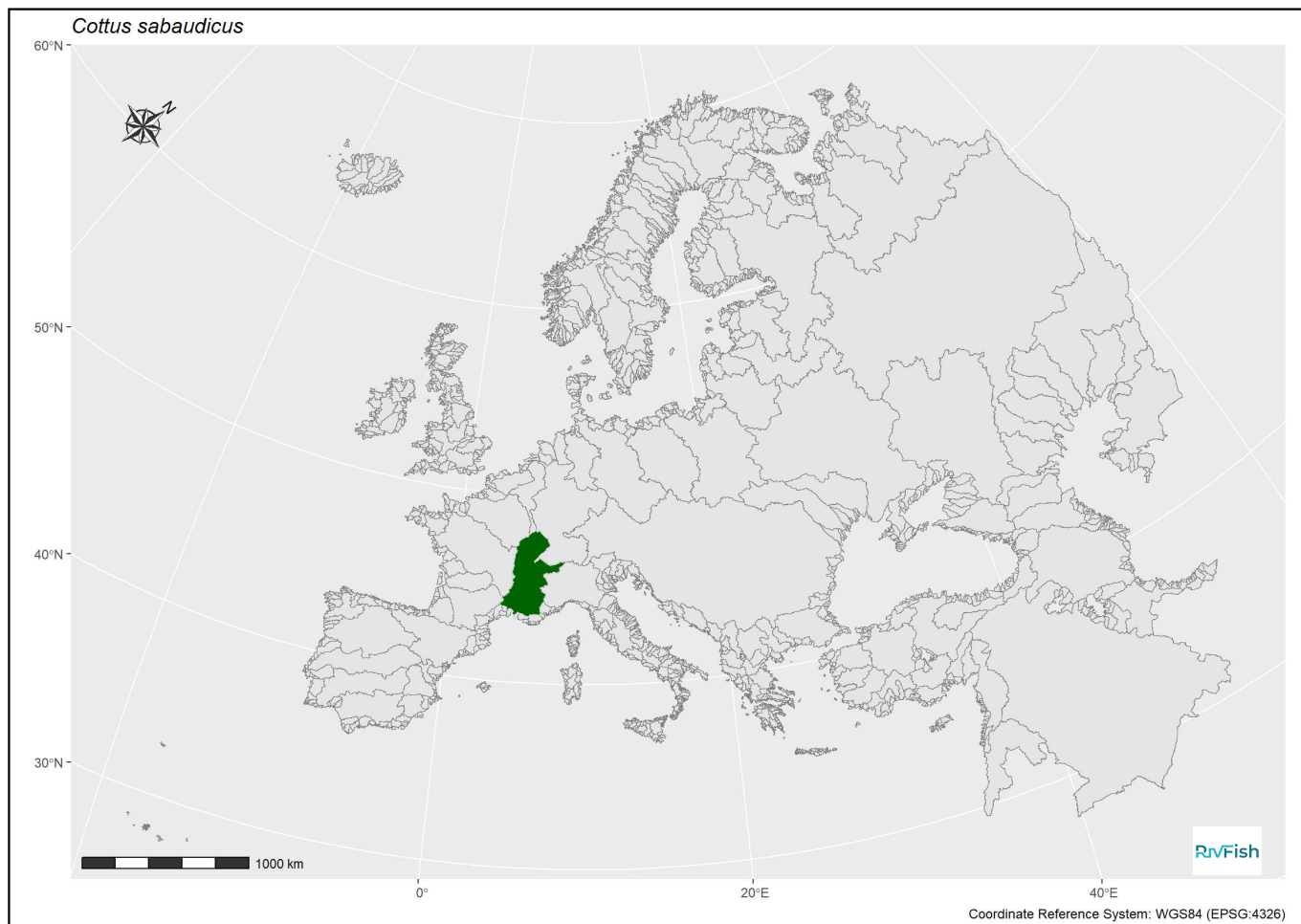


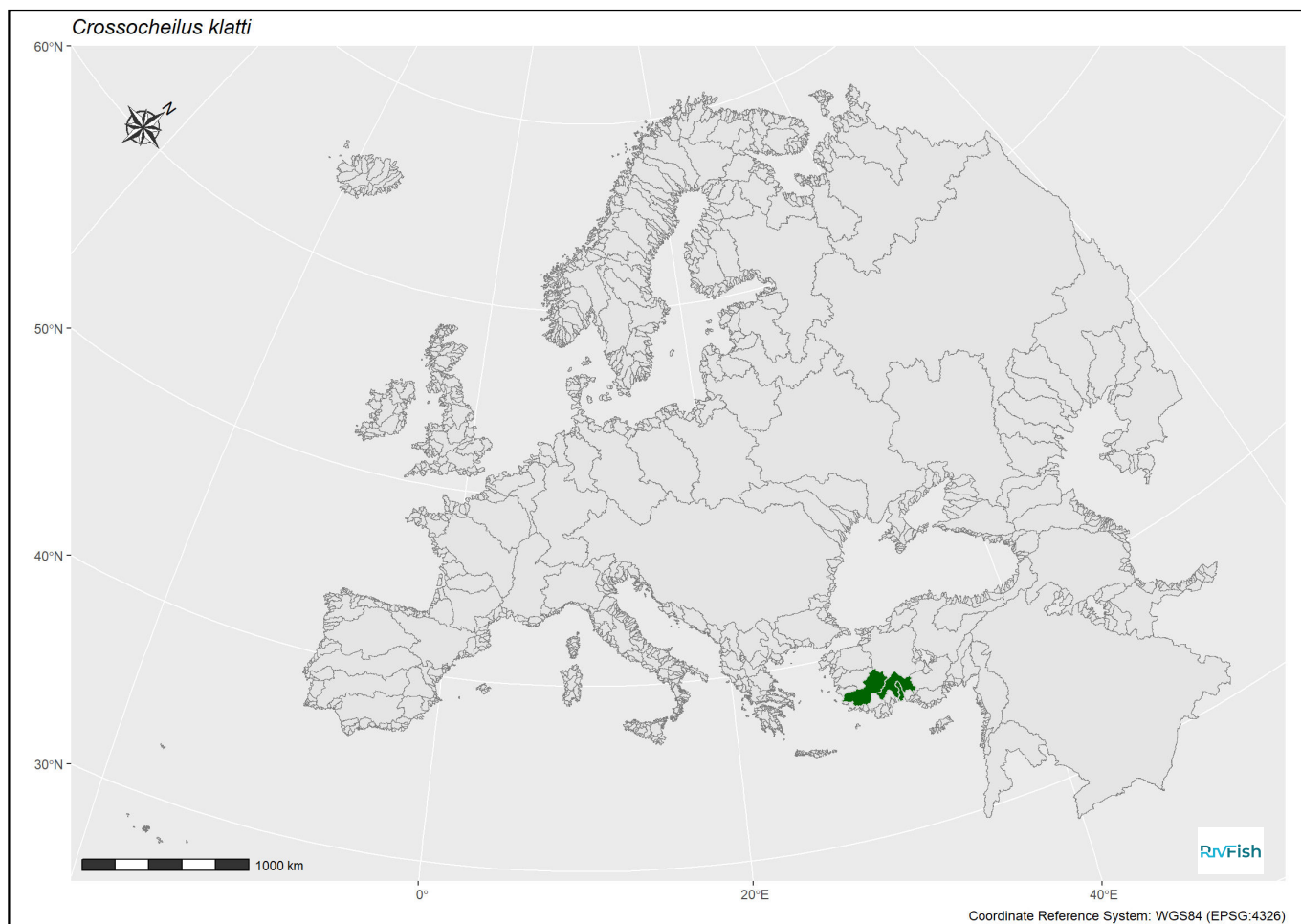
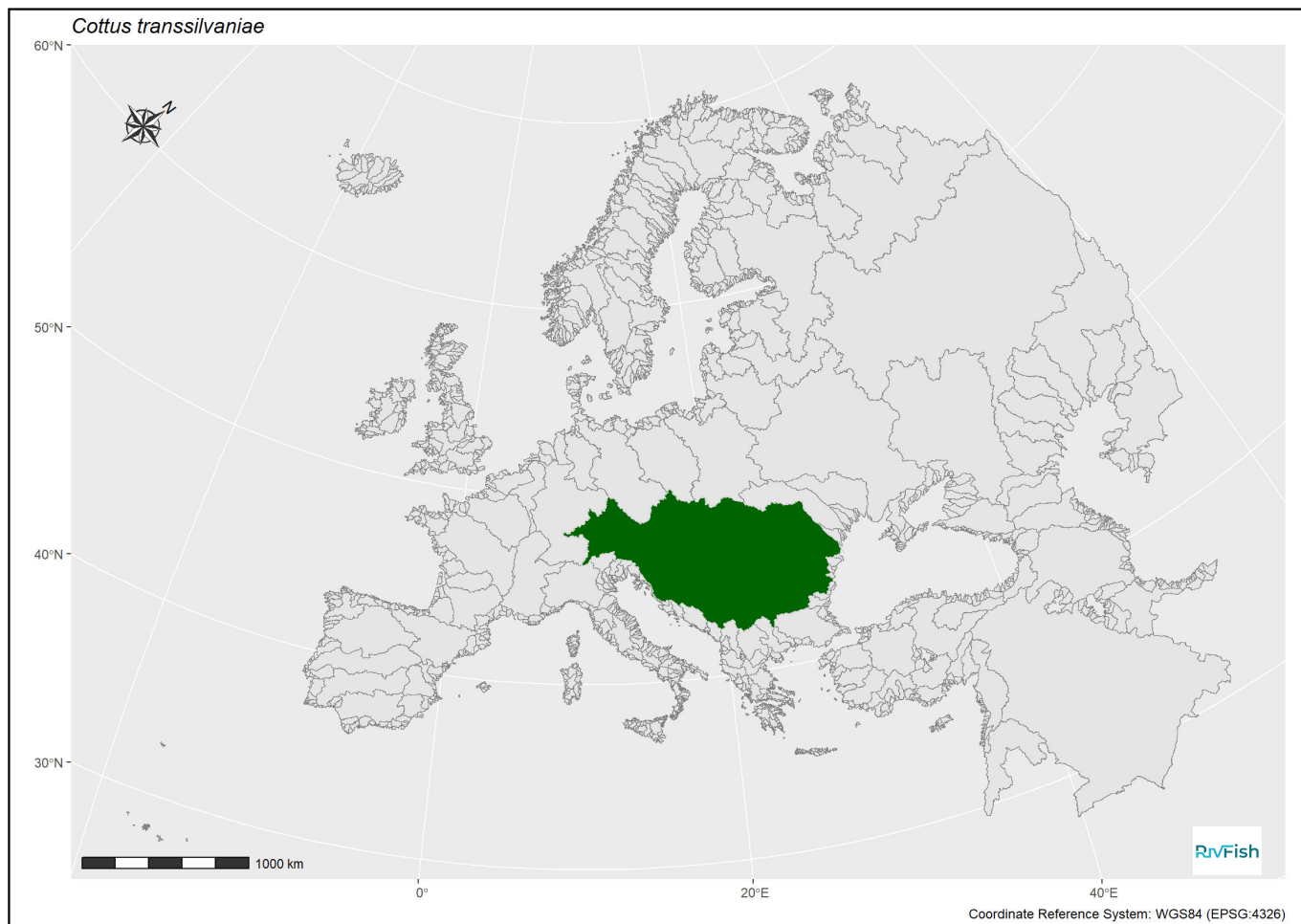




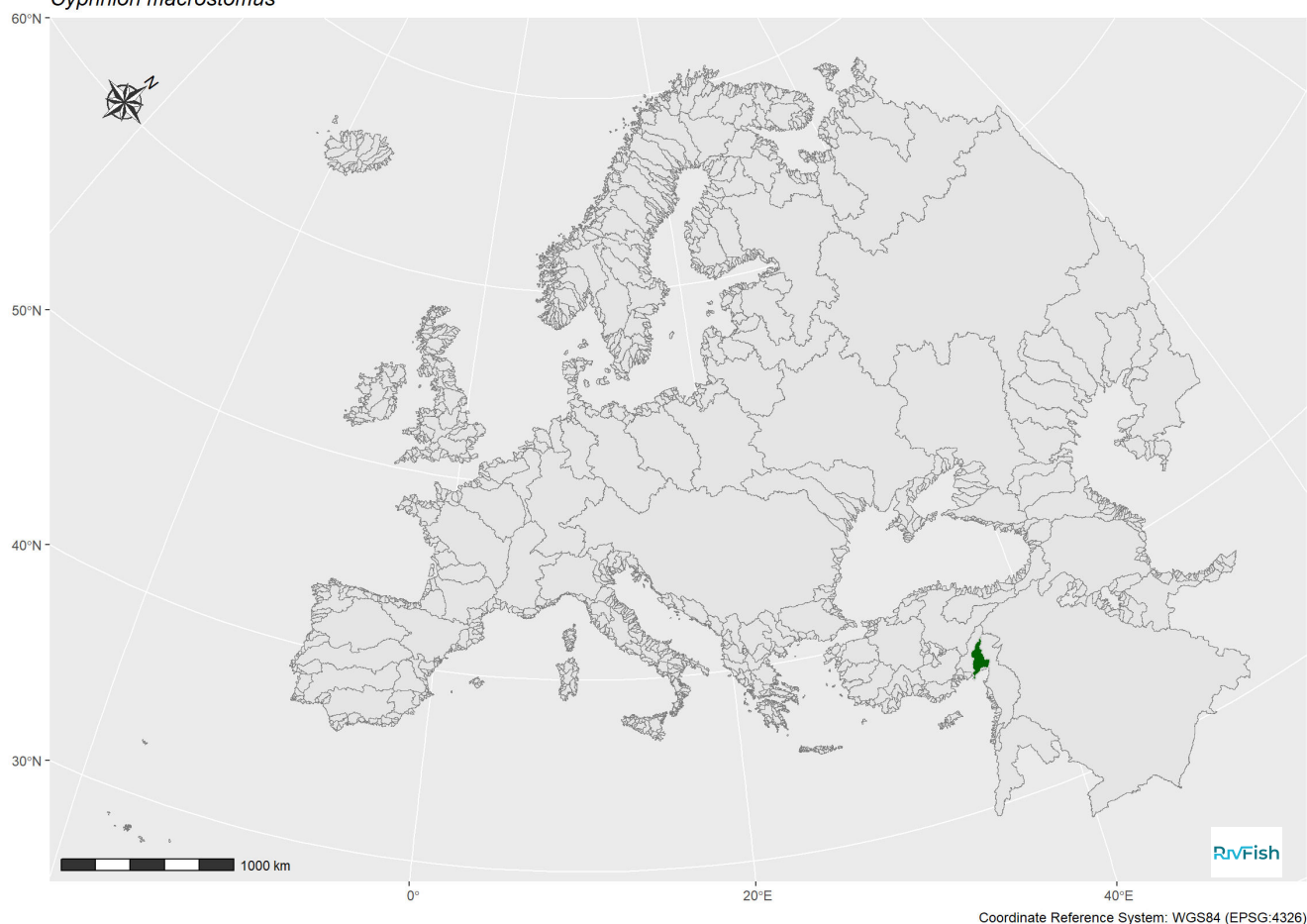




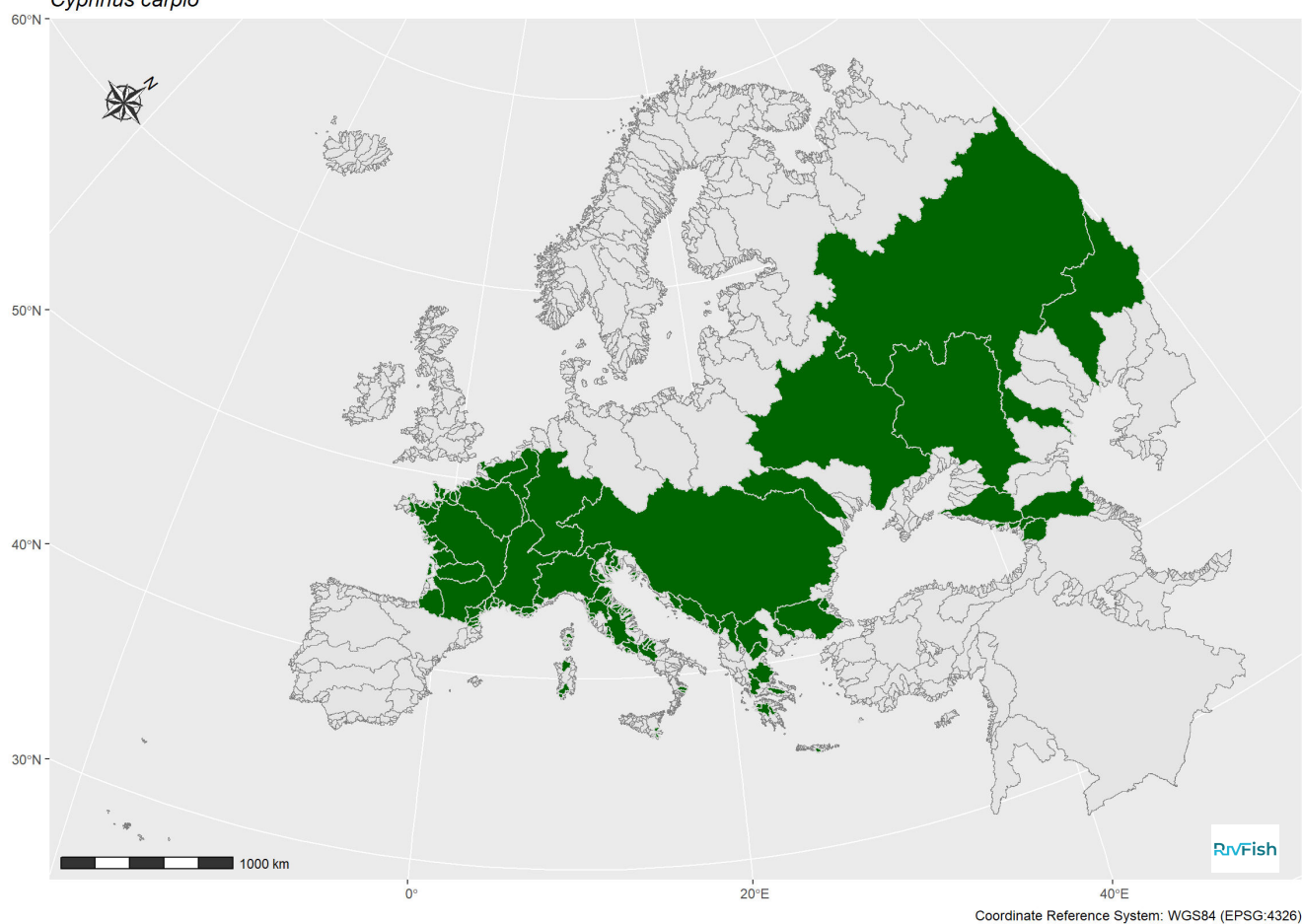




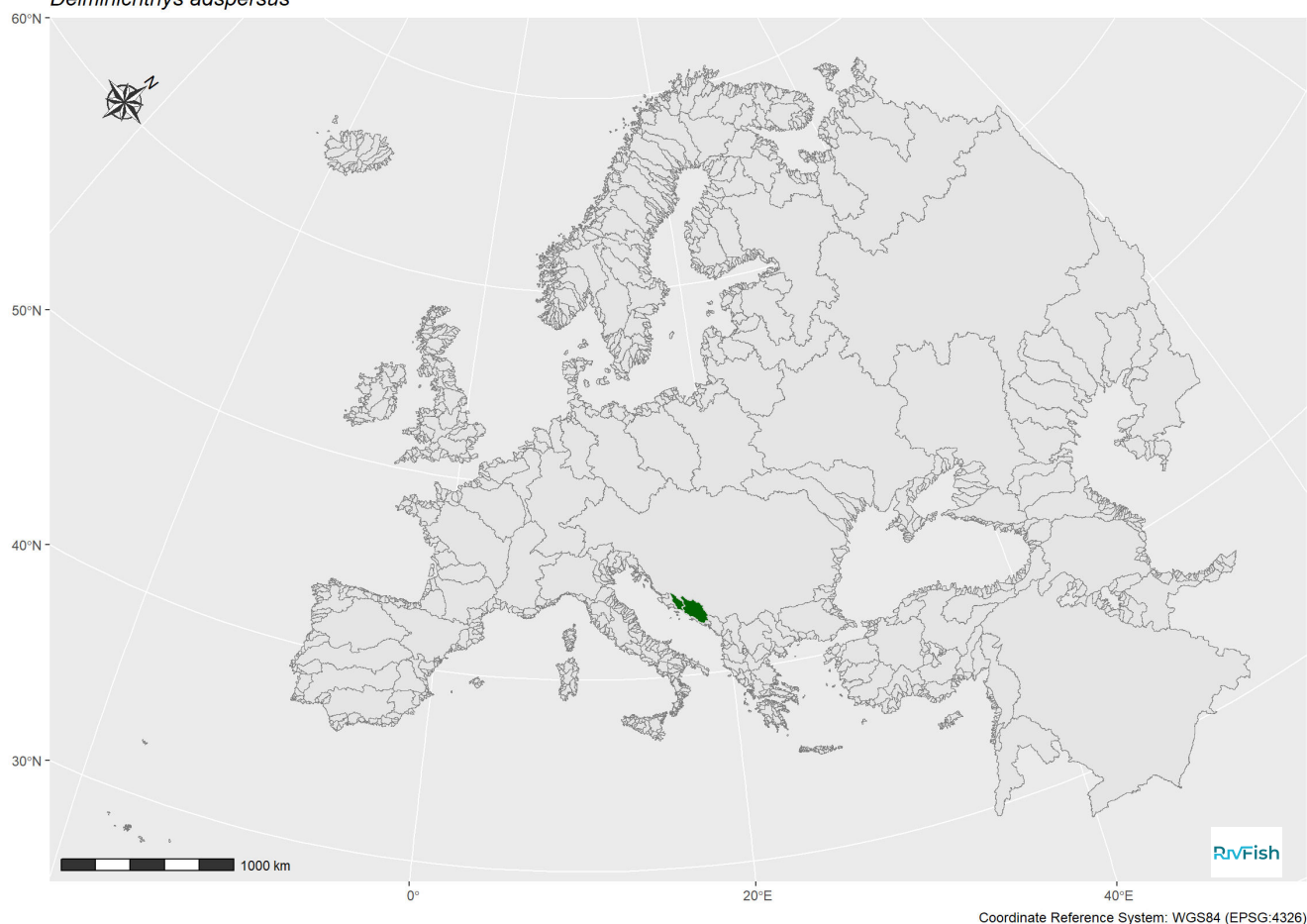
Cyprinion macrostomus



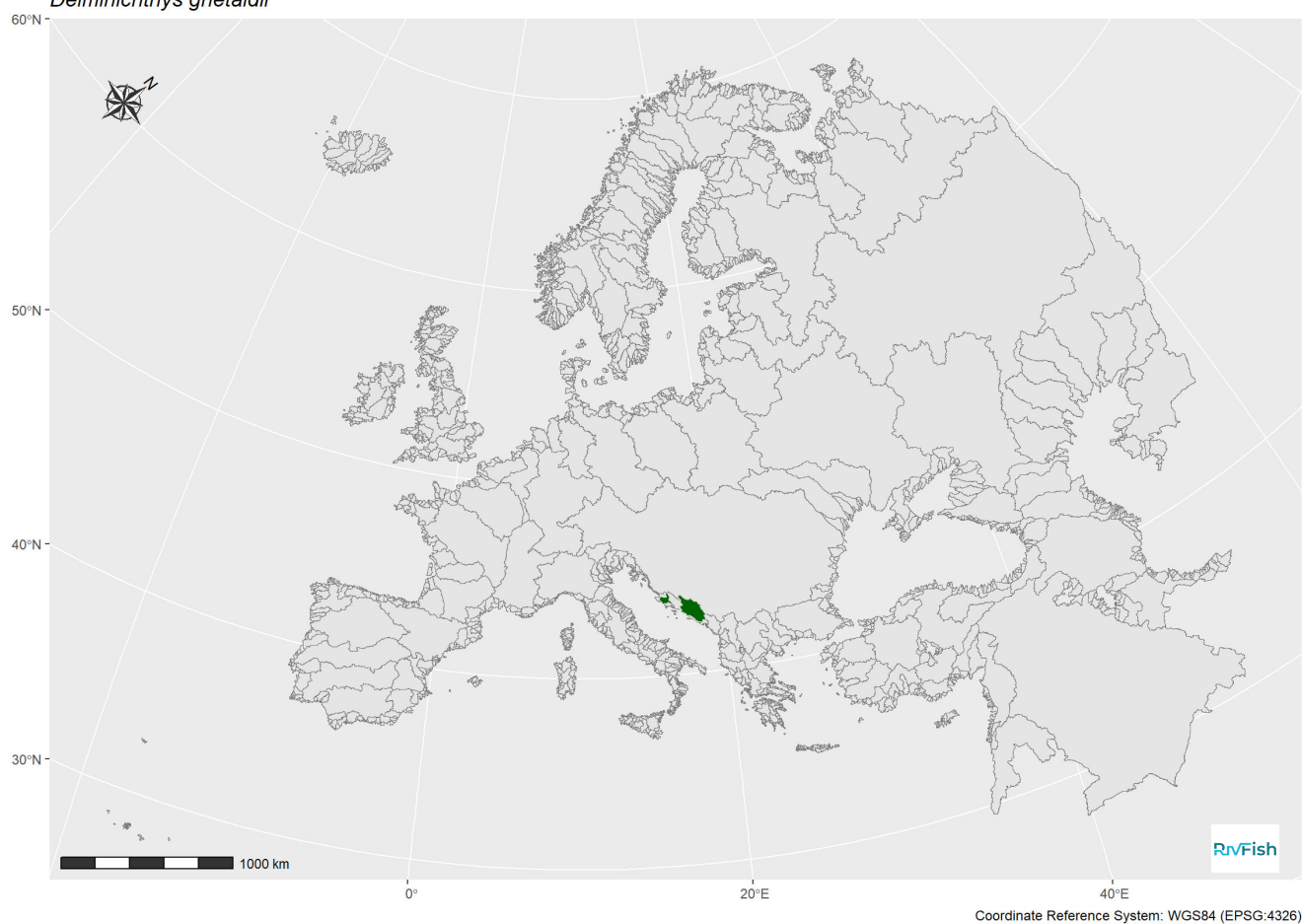
Cyprinus carpio



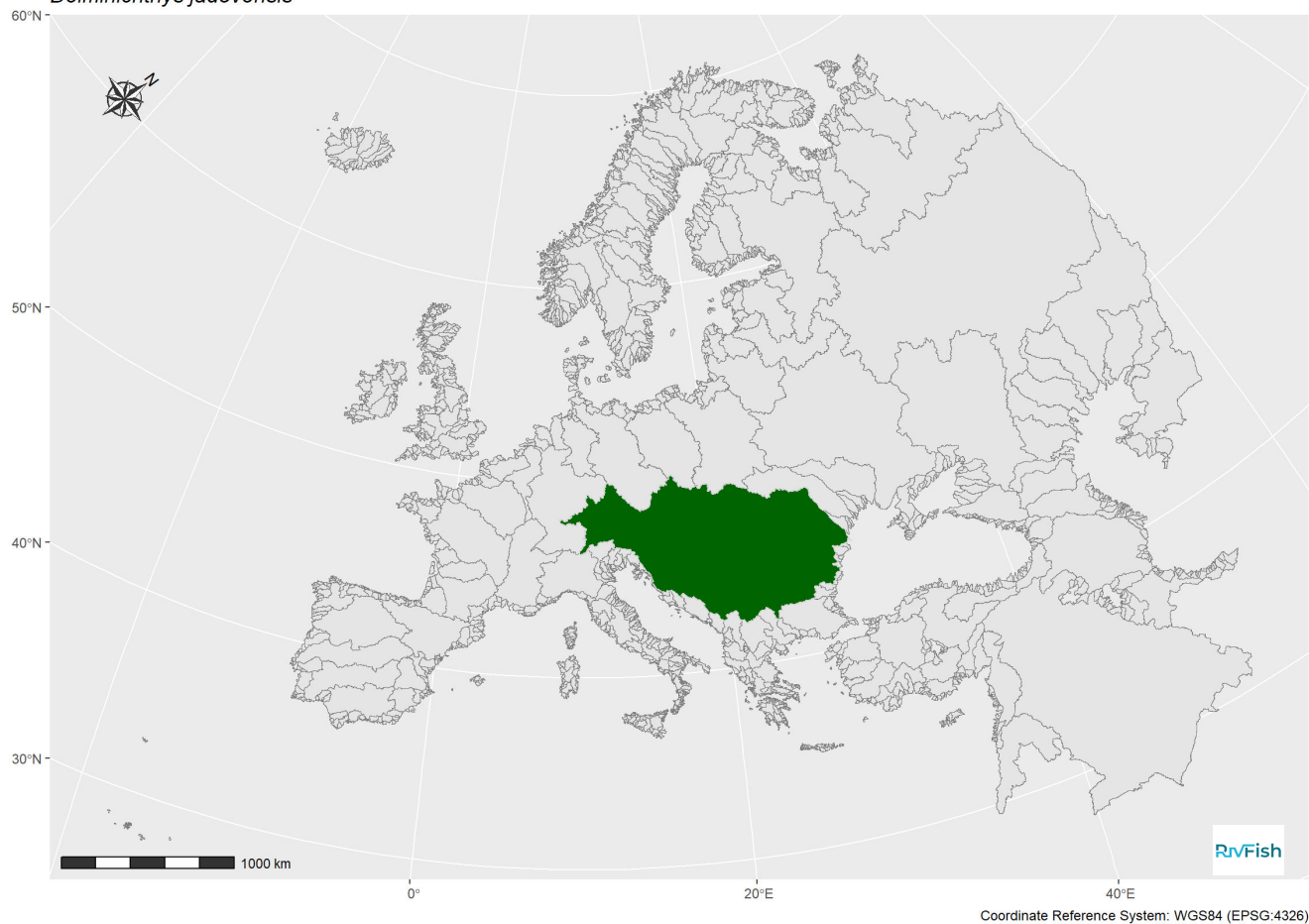
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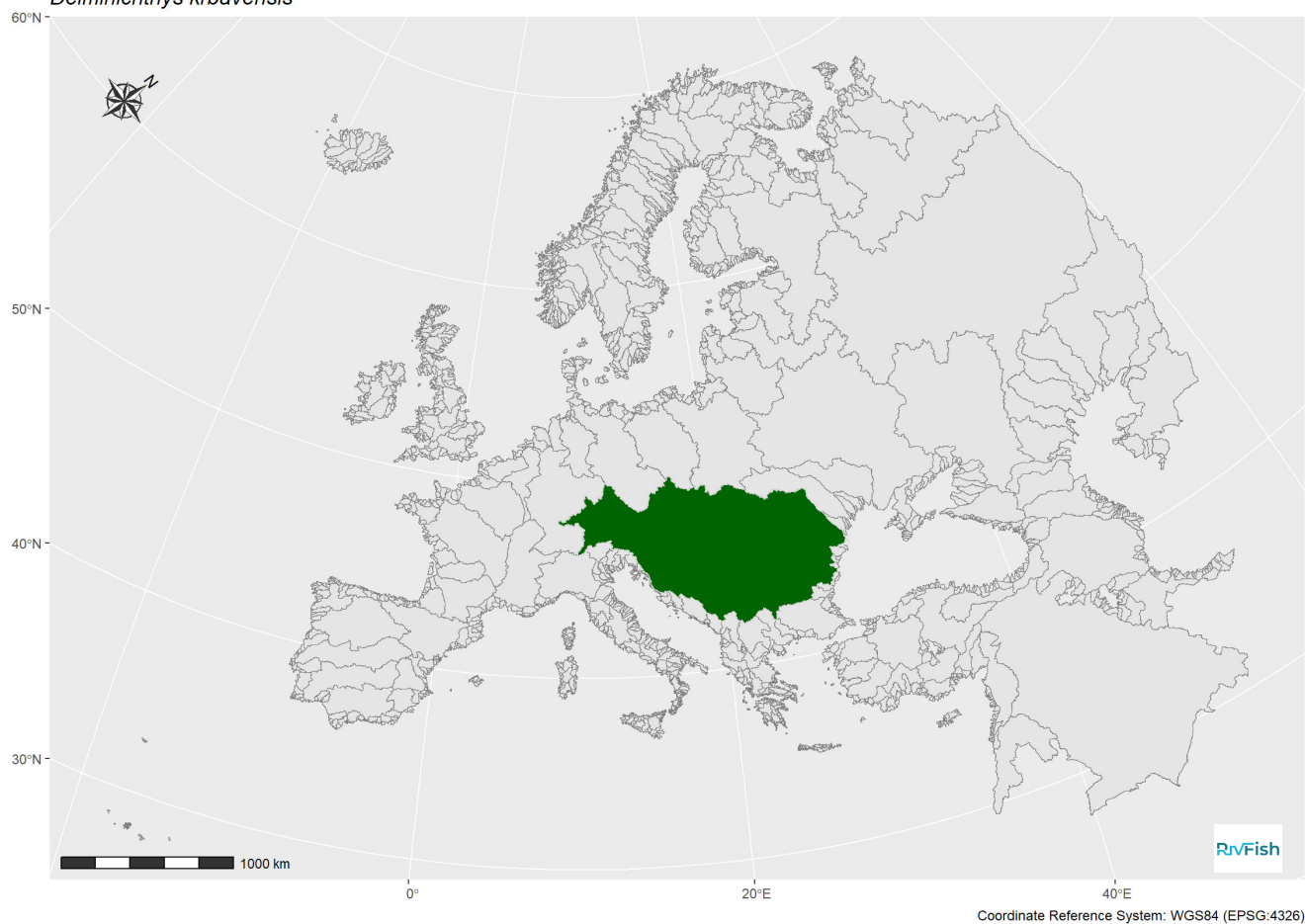
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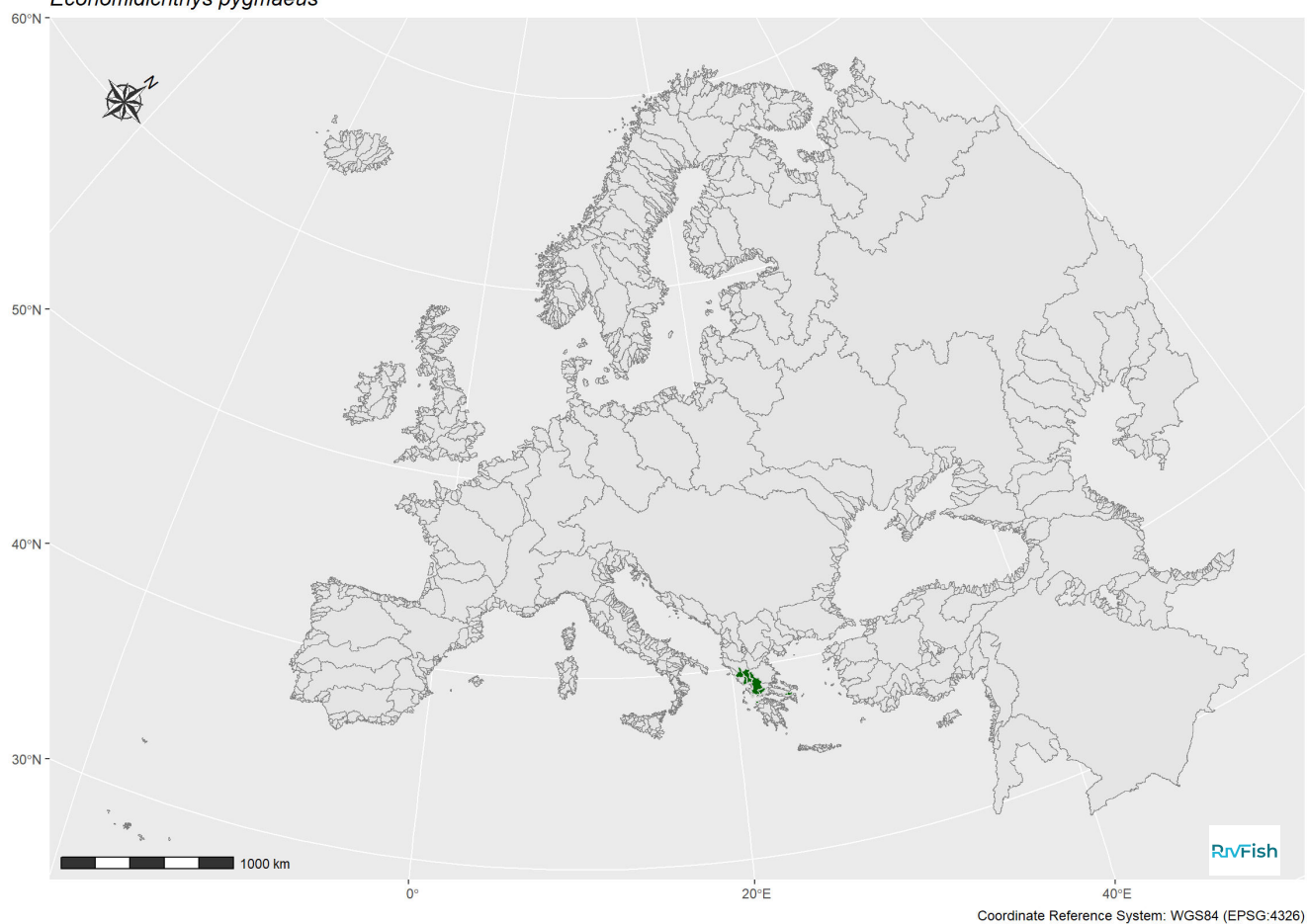
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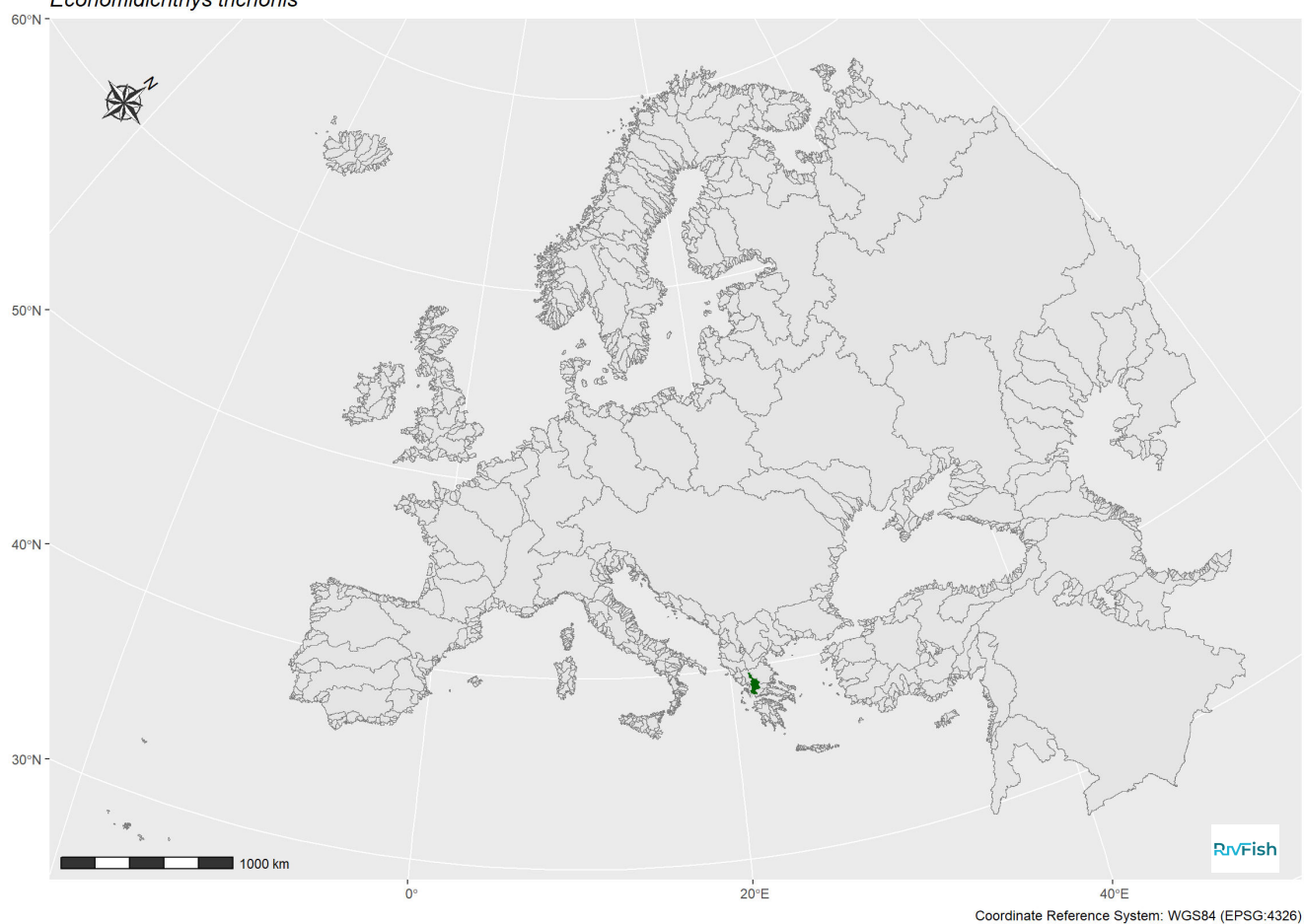
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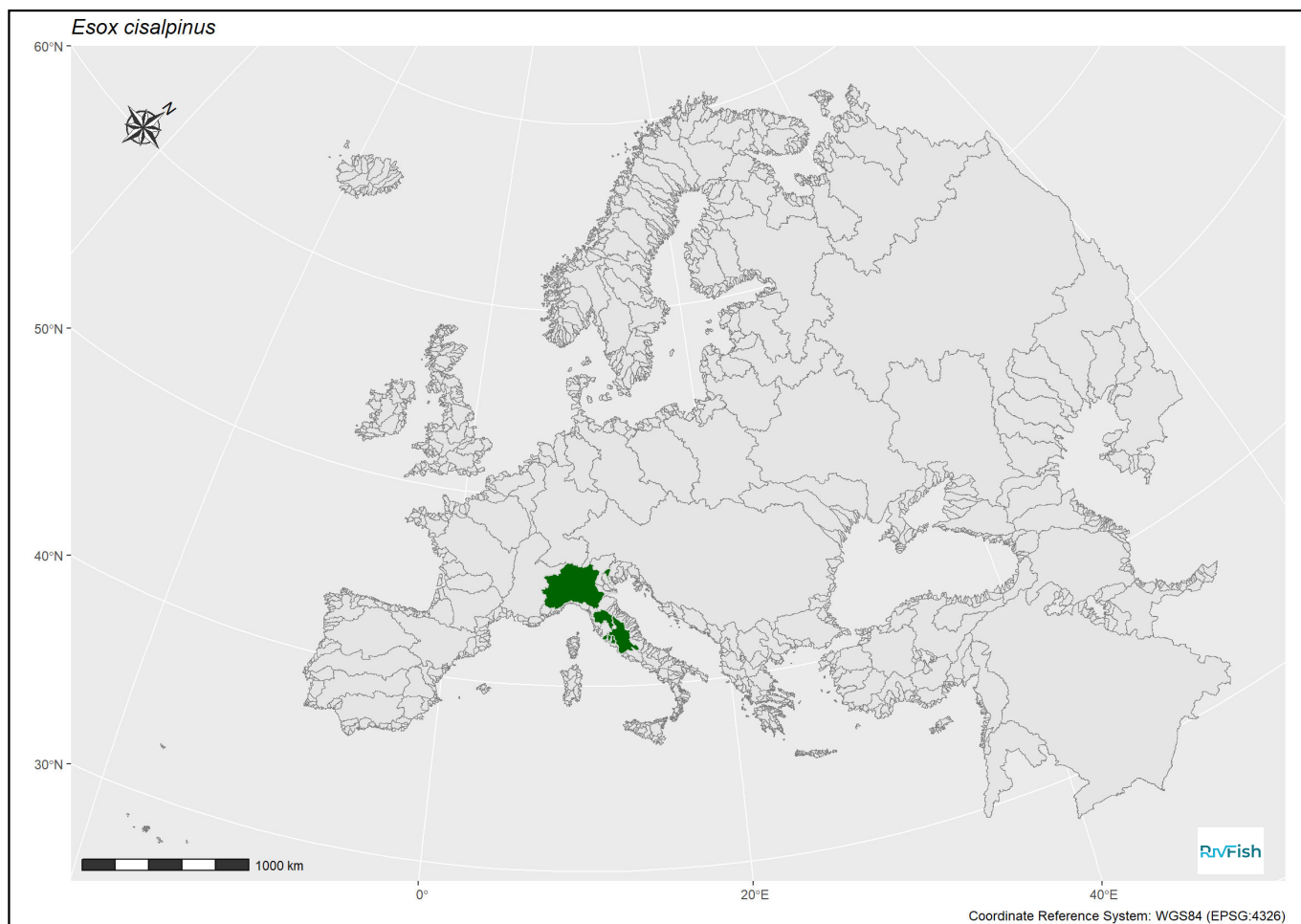
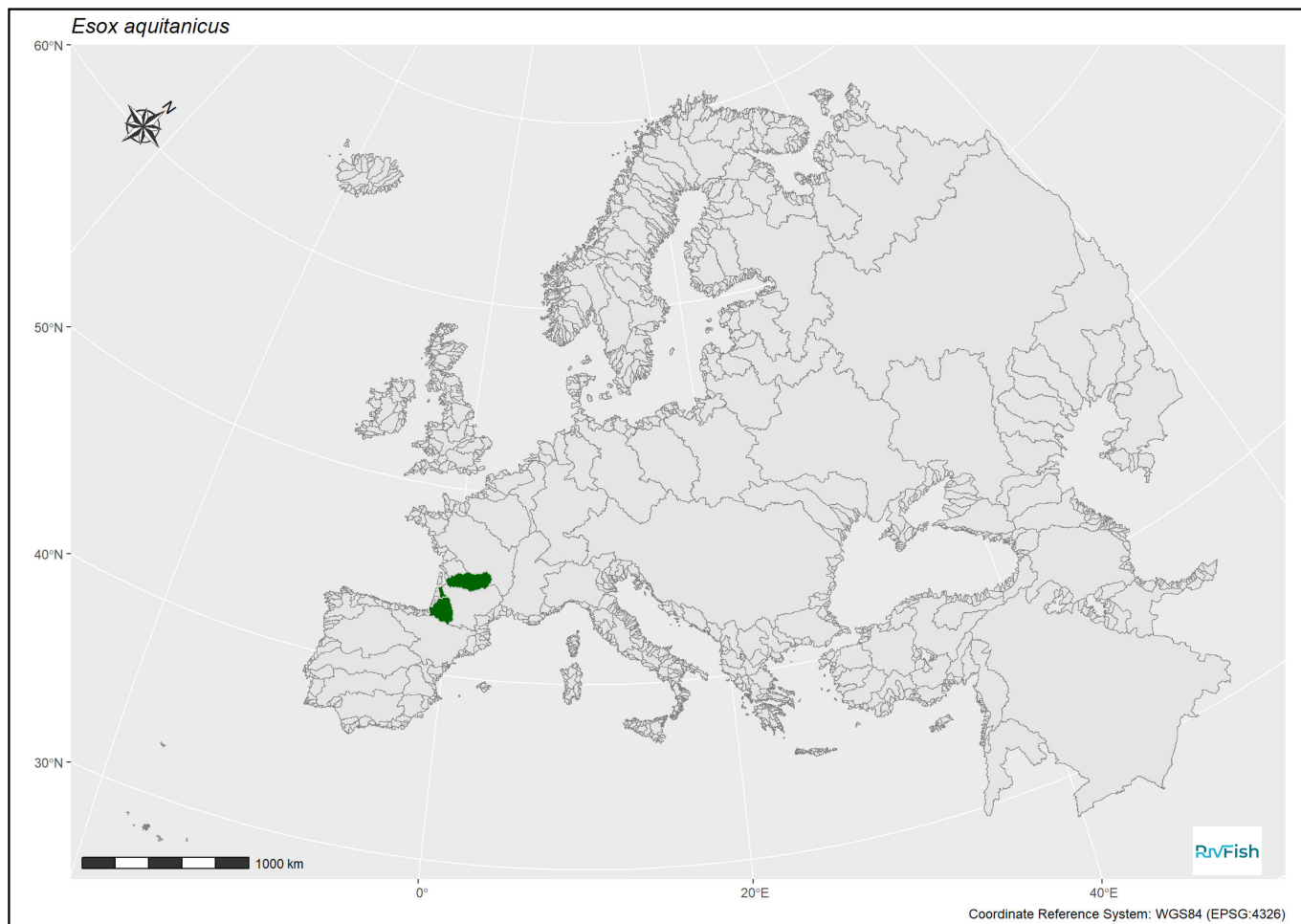


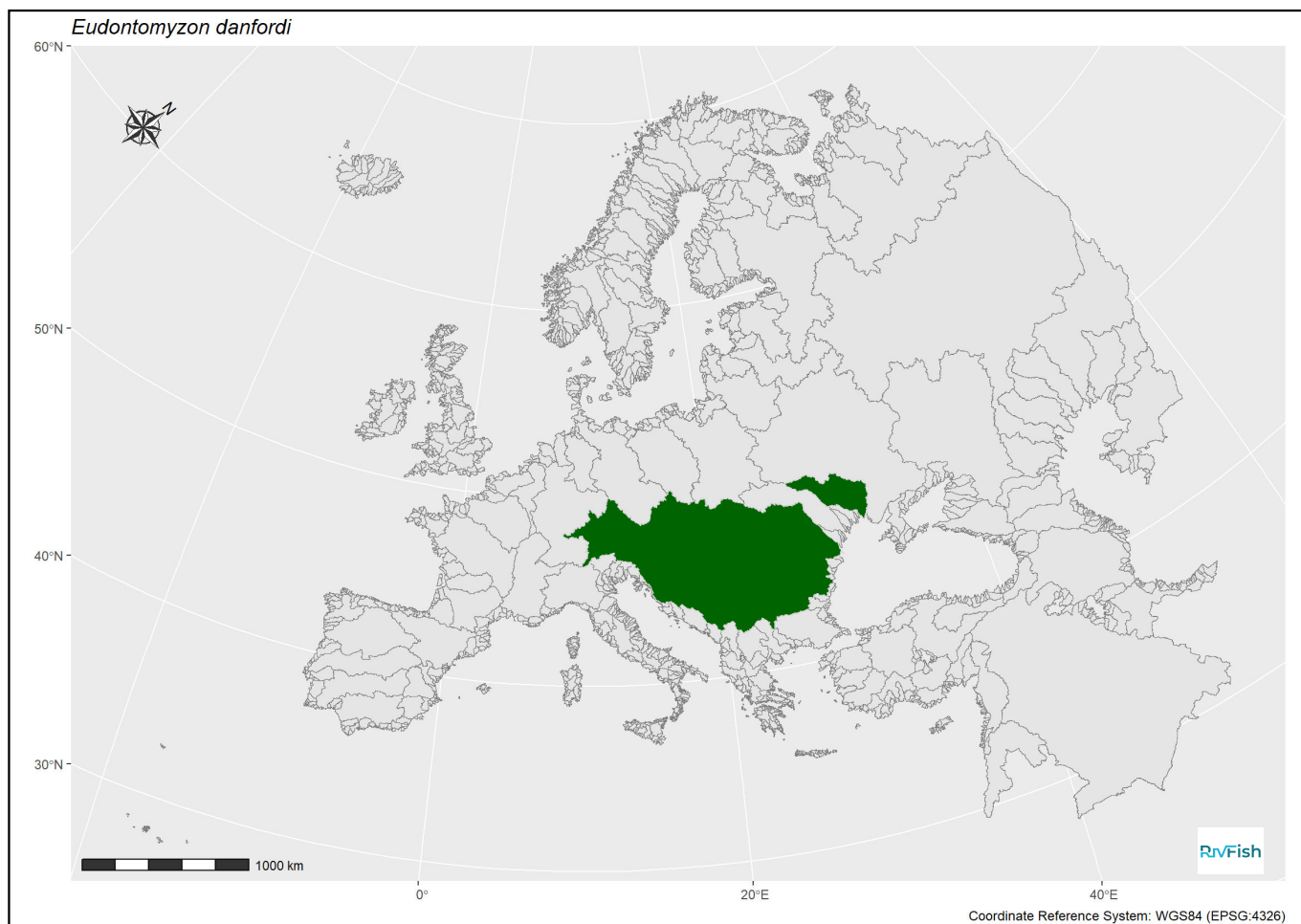
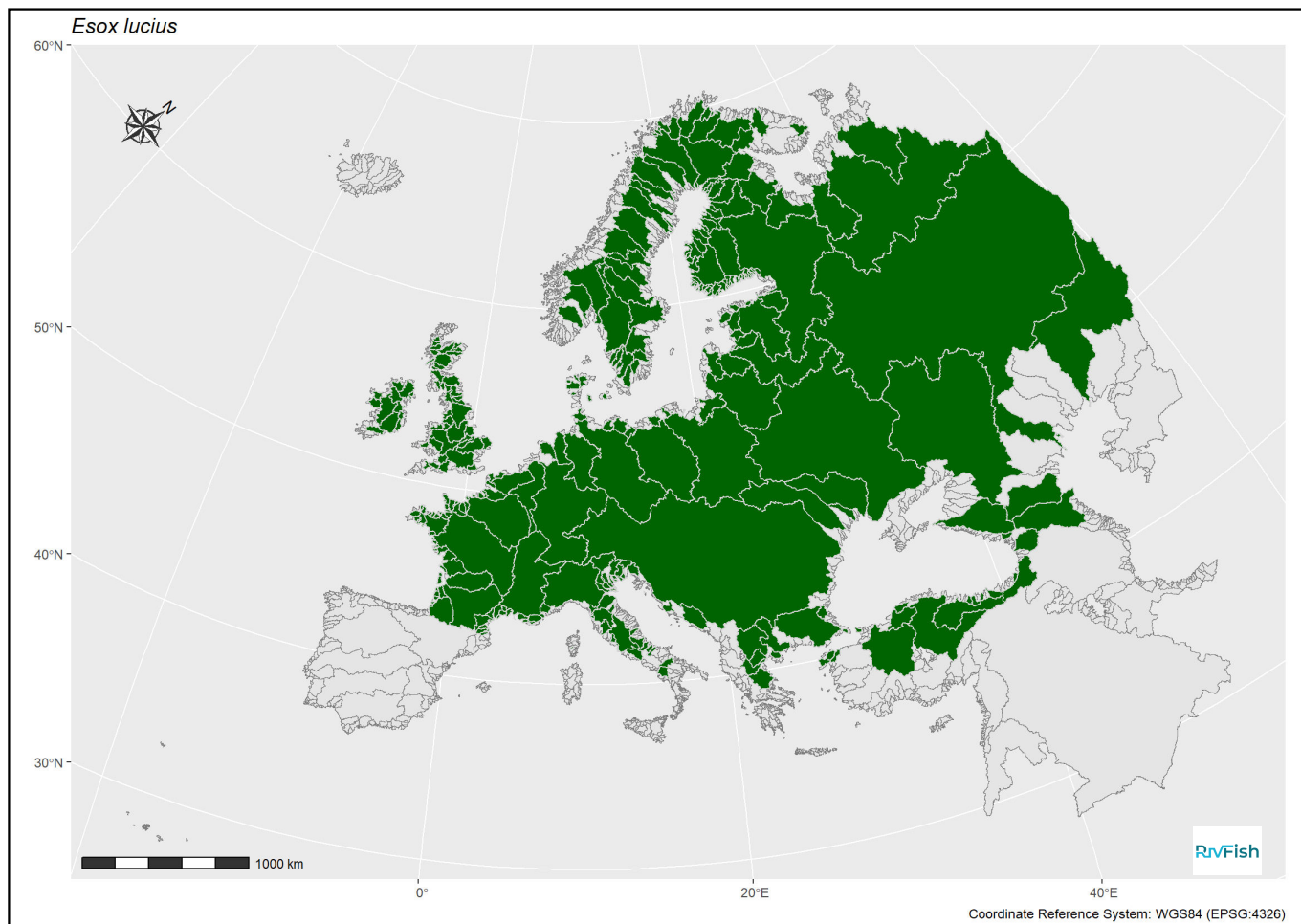
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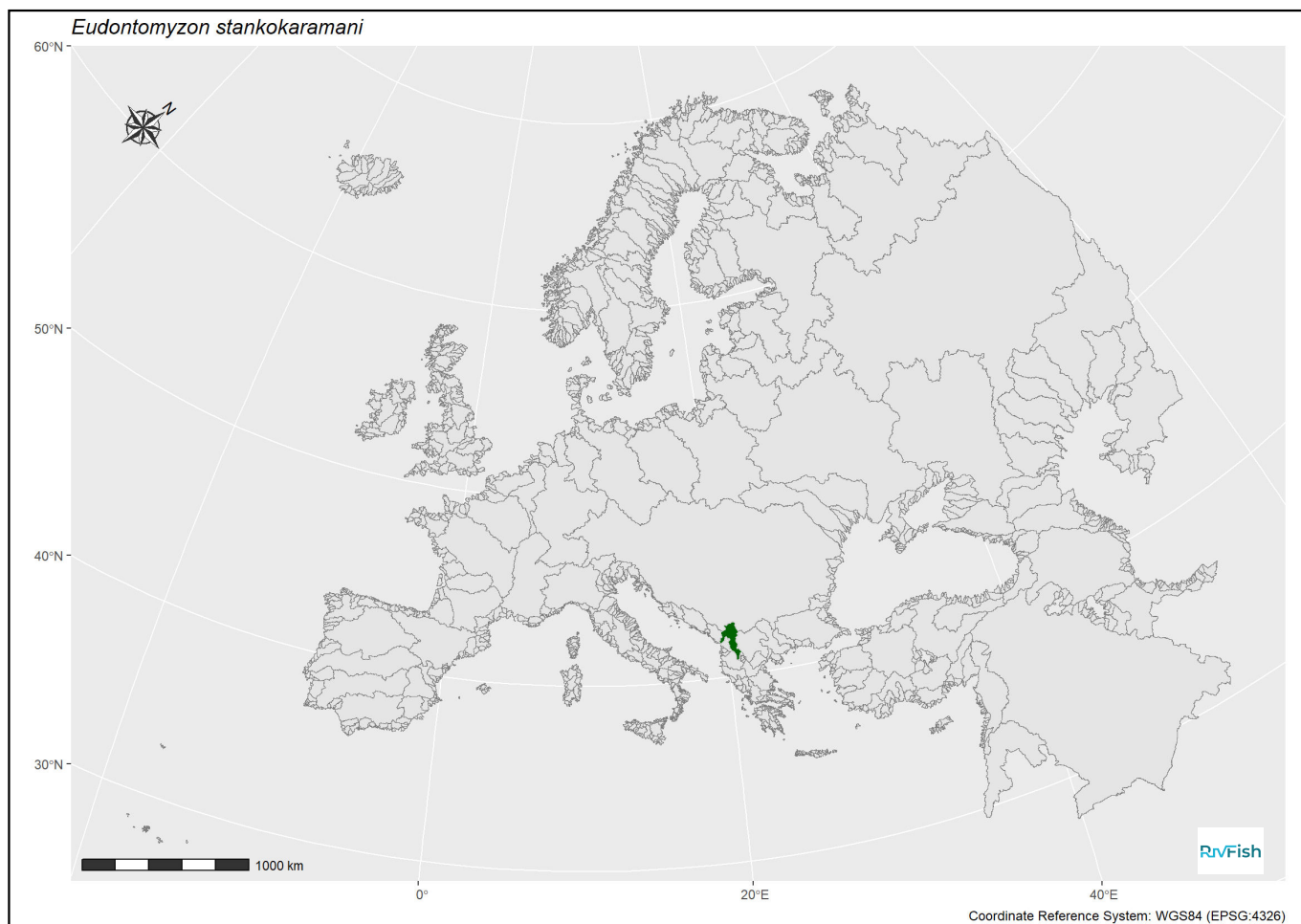
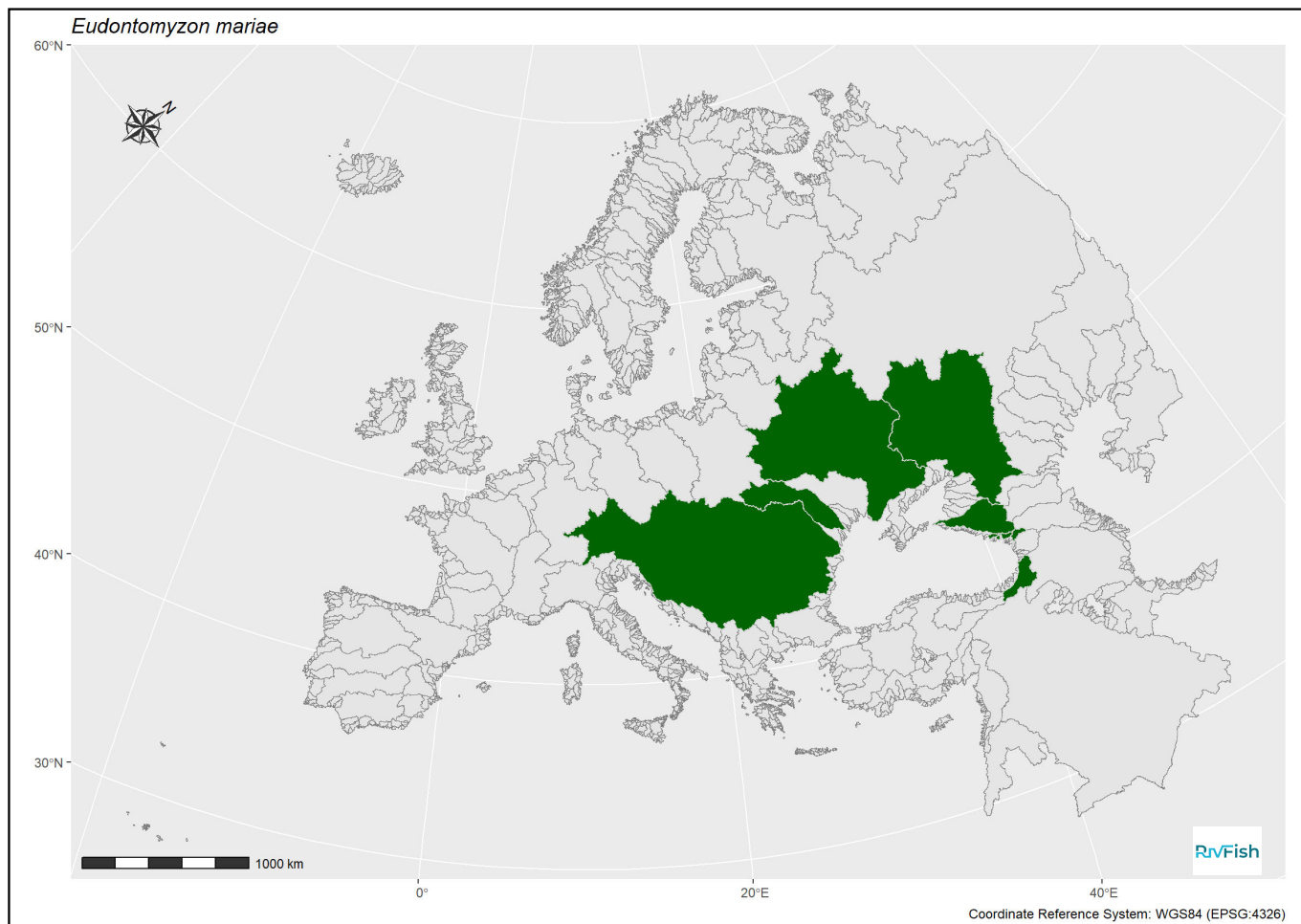


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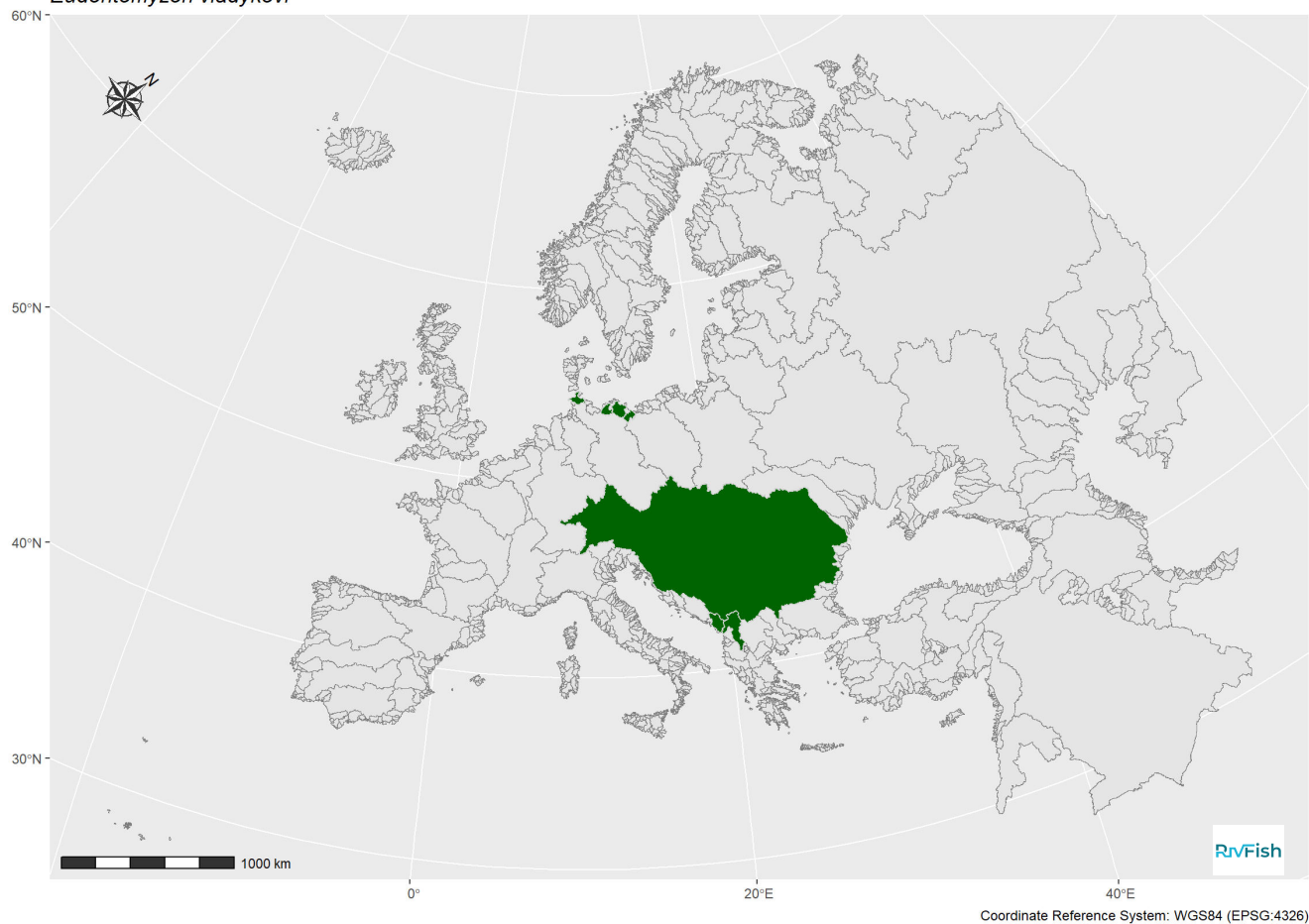




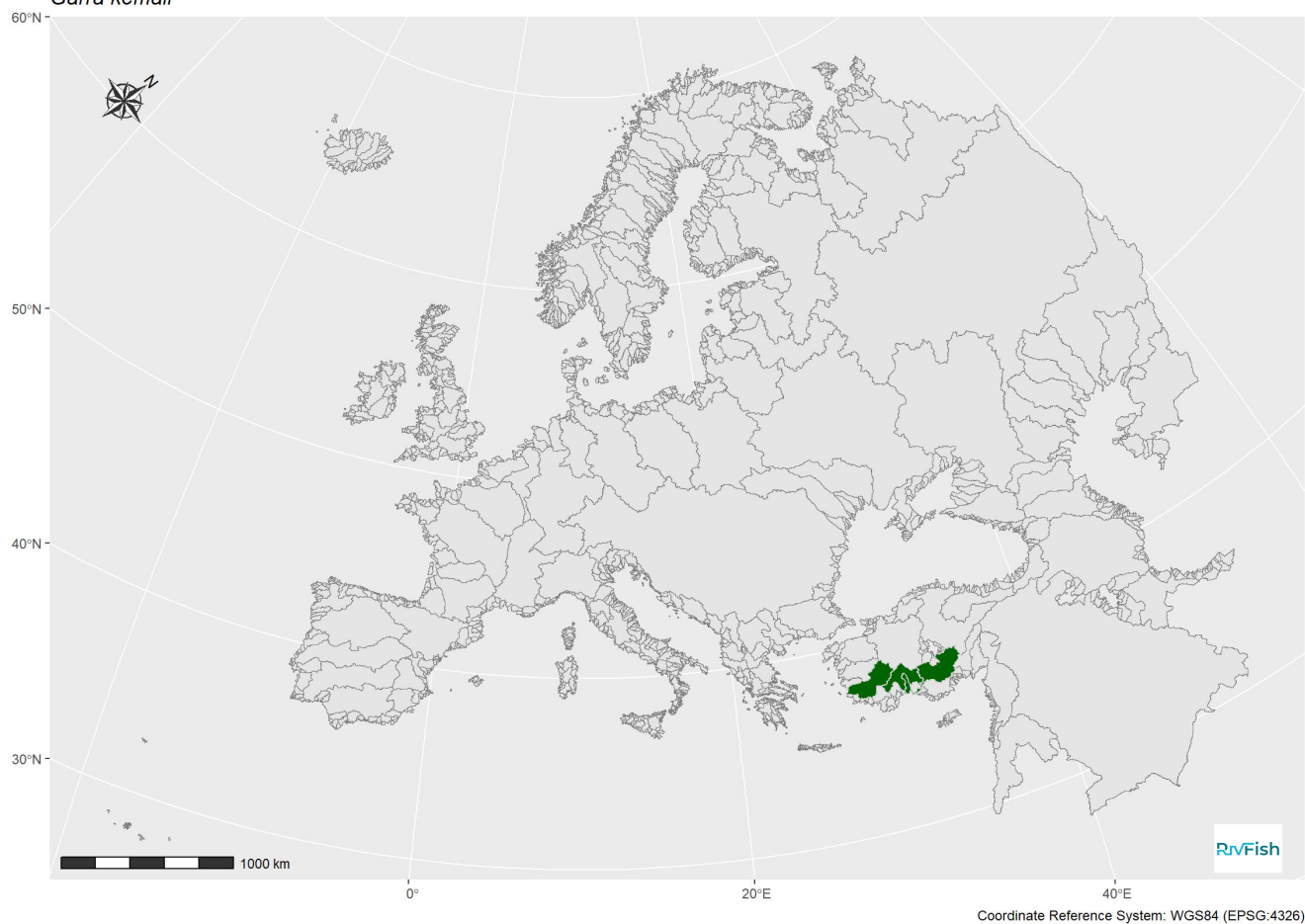


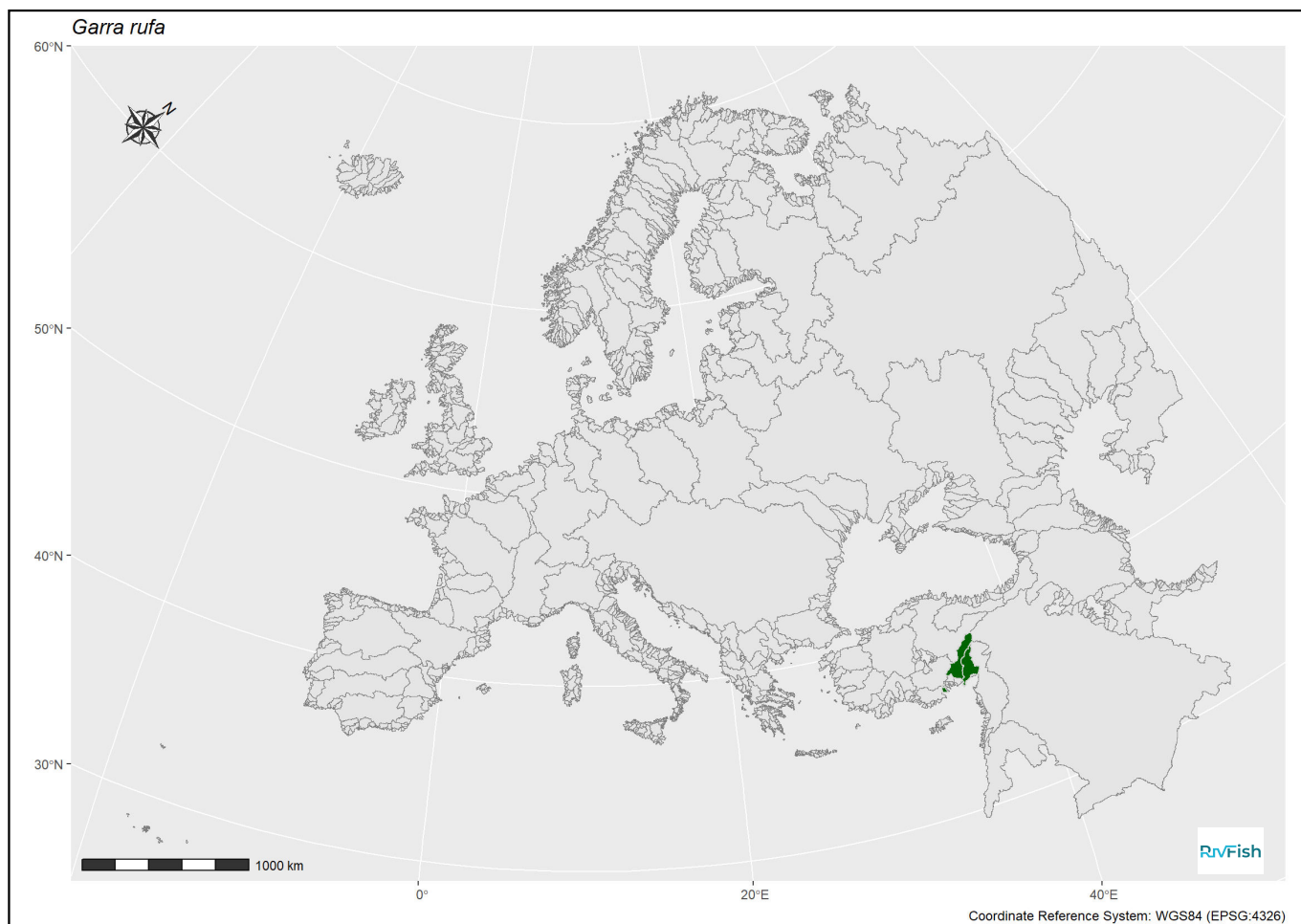
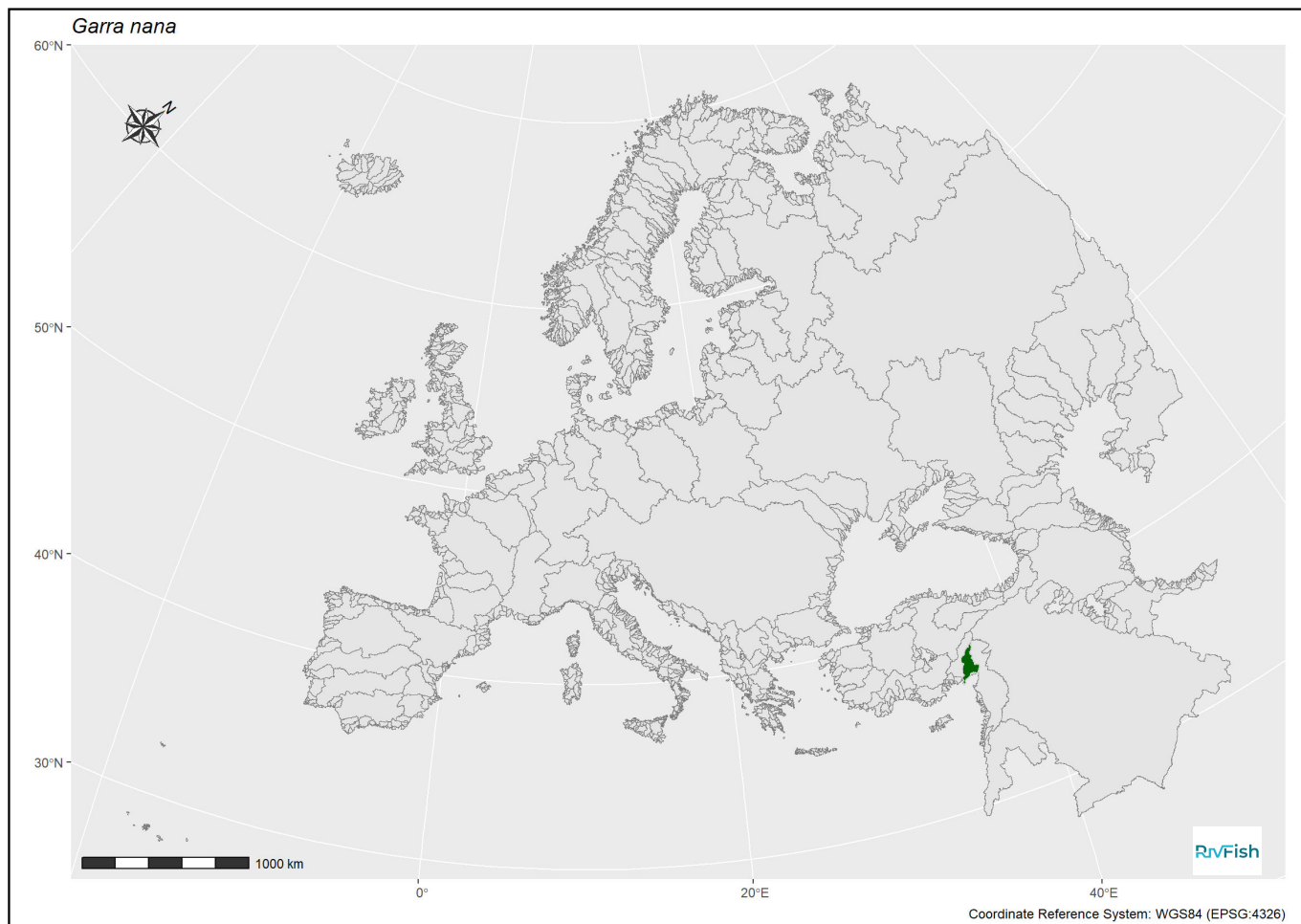


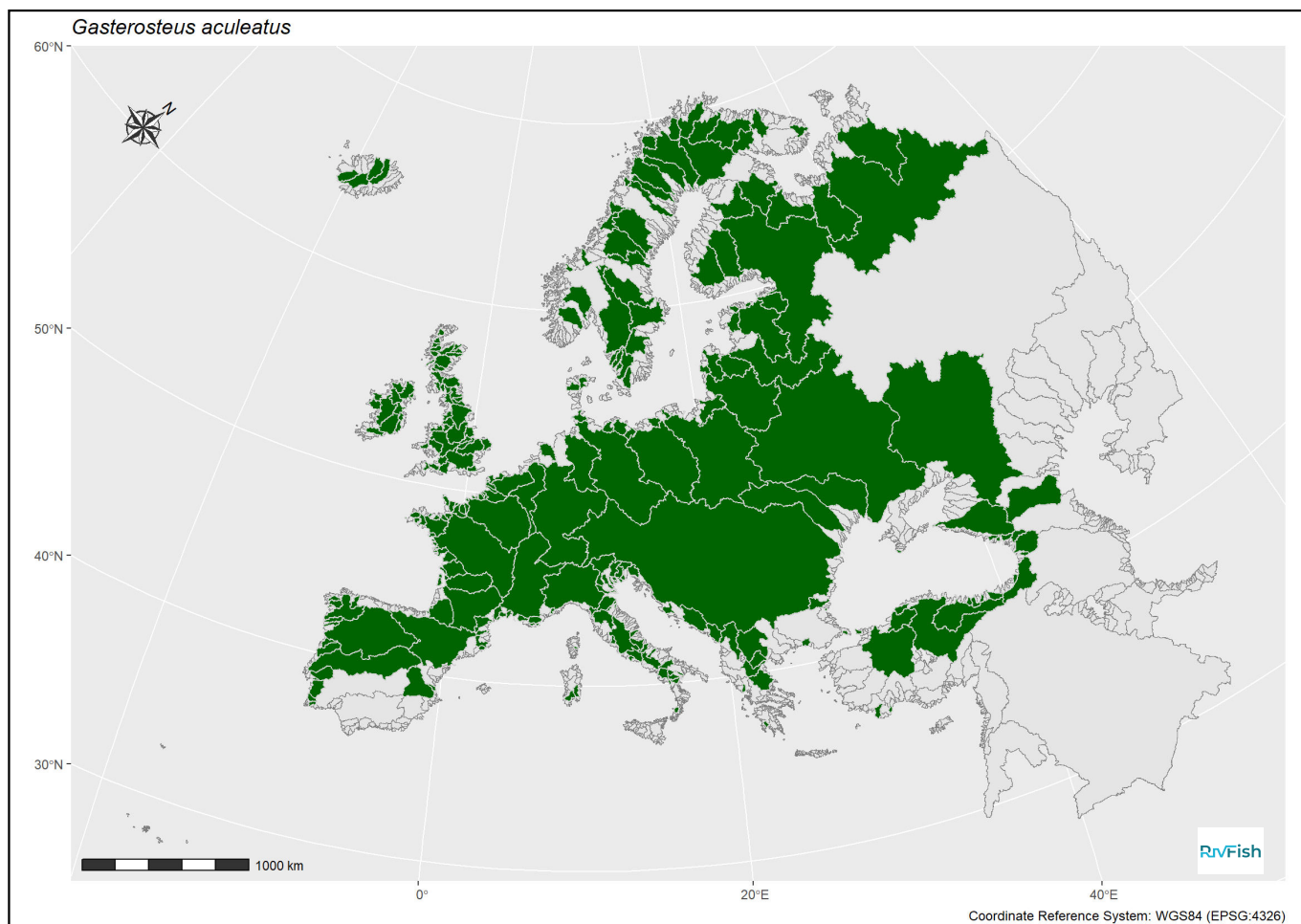
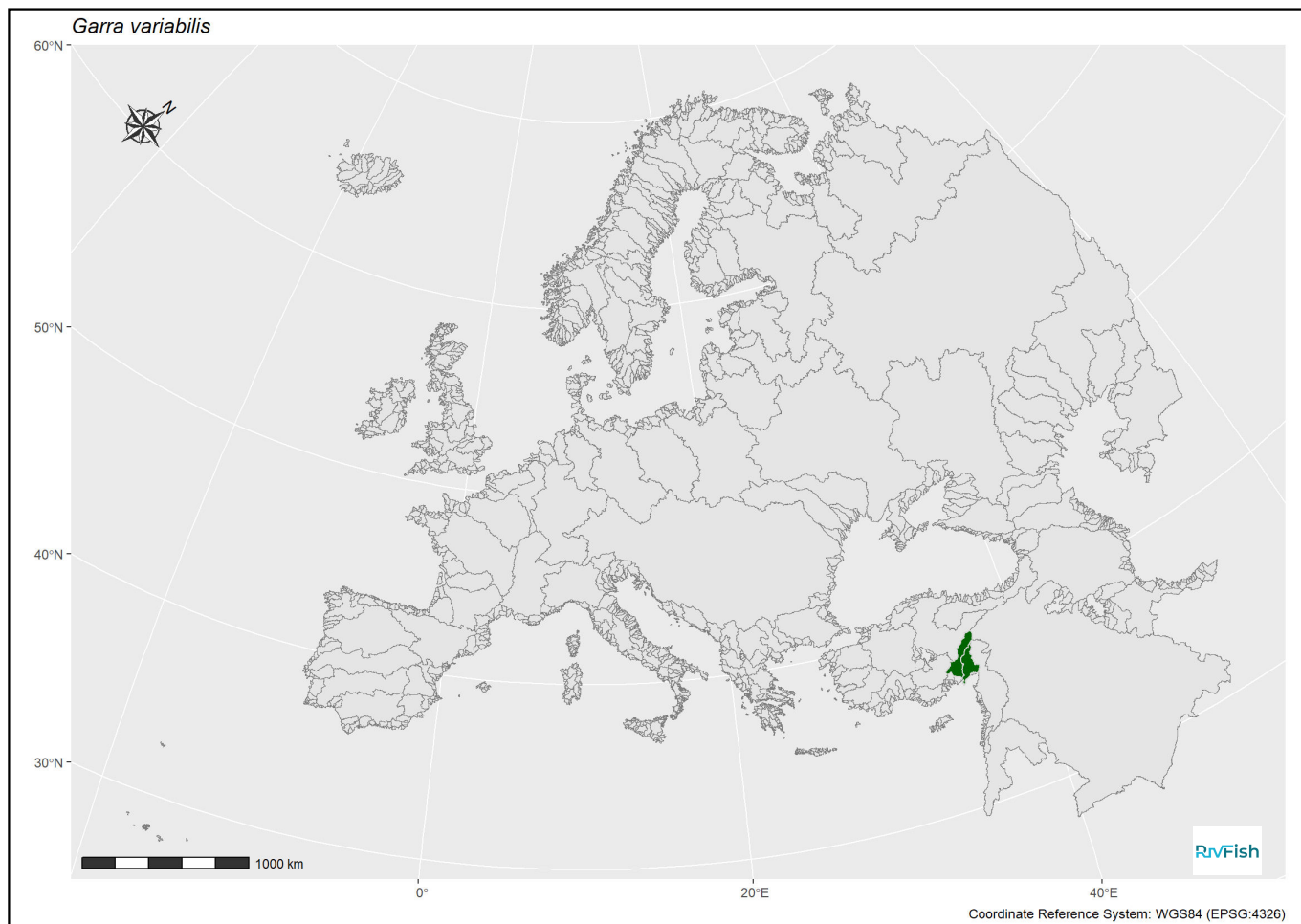
Eudontomyzon vladkovi



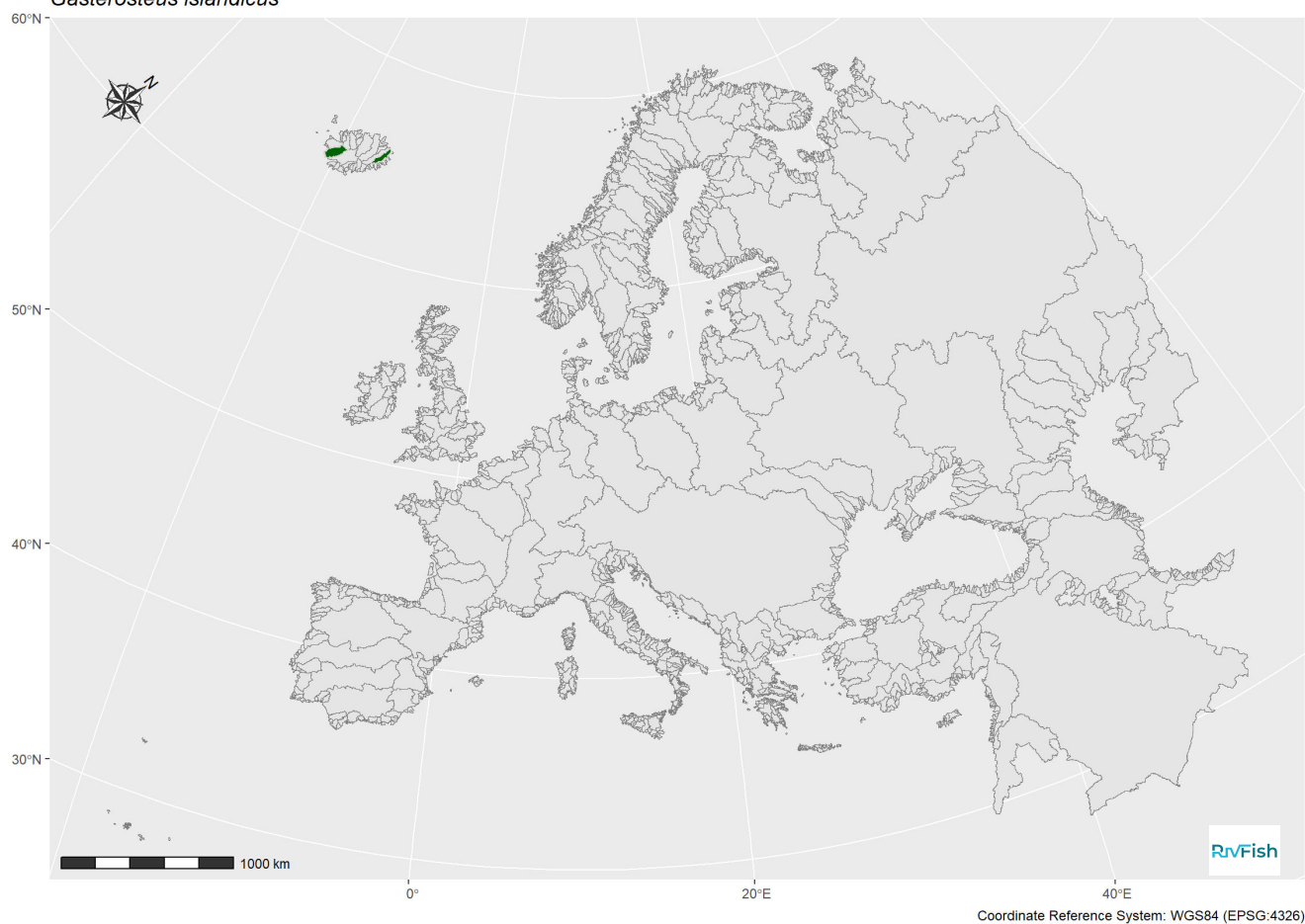
Garra kemali



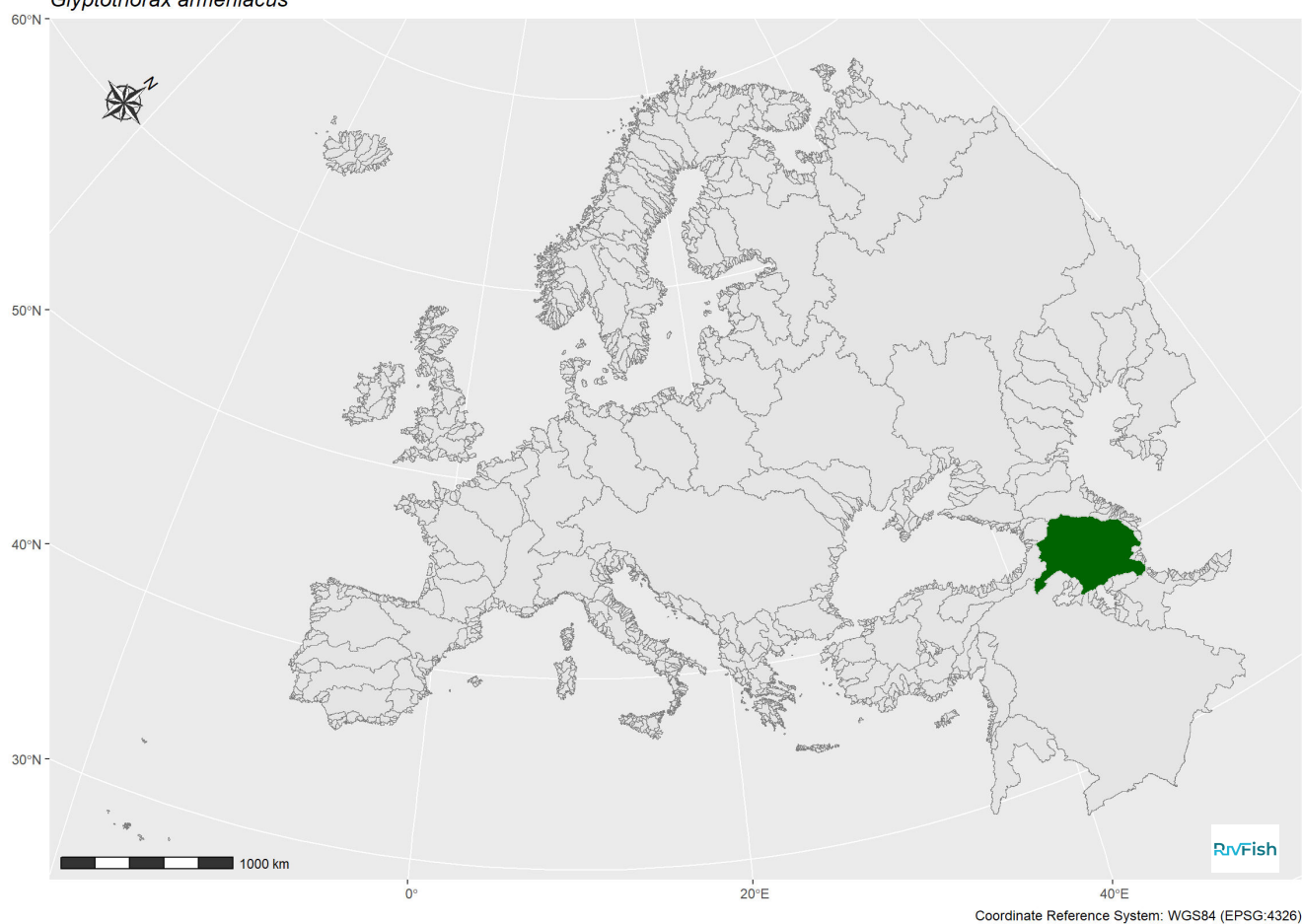


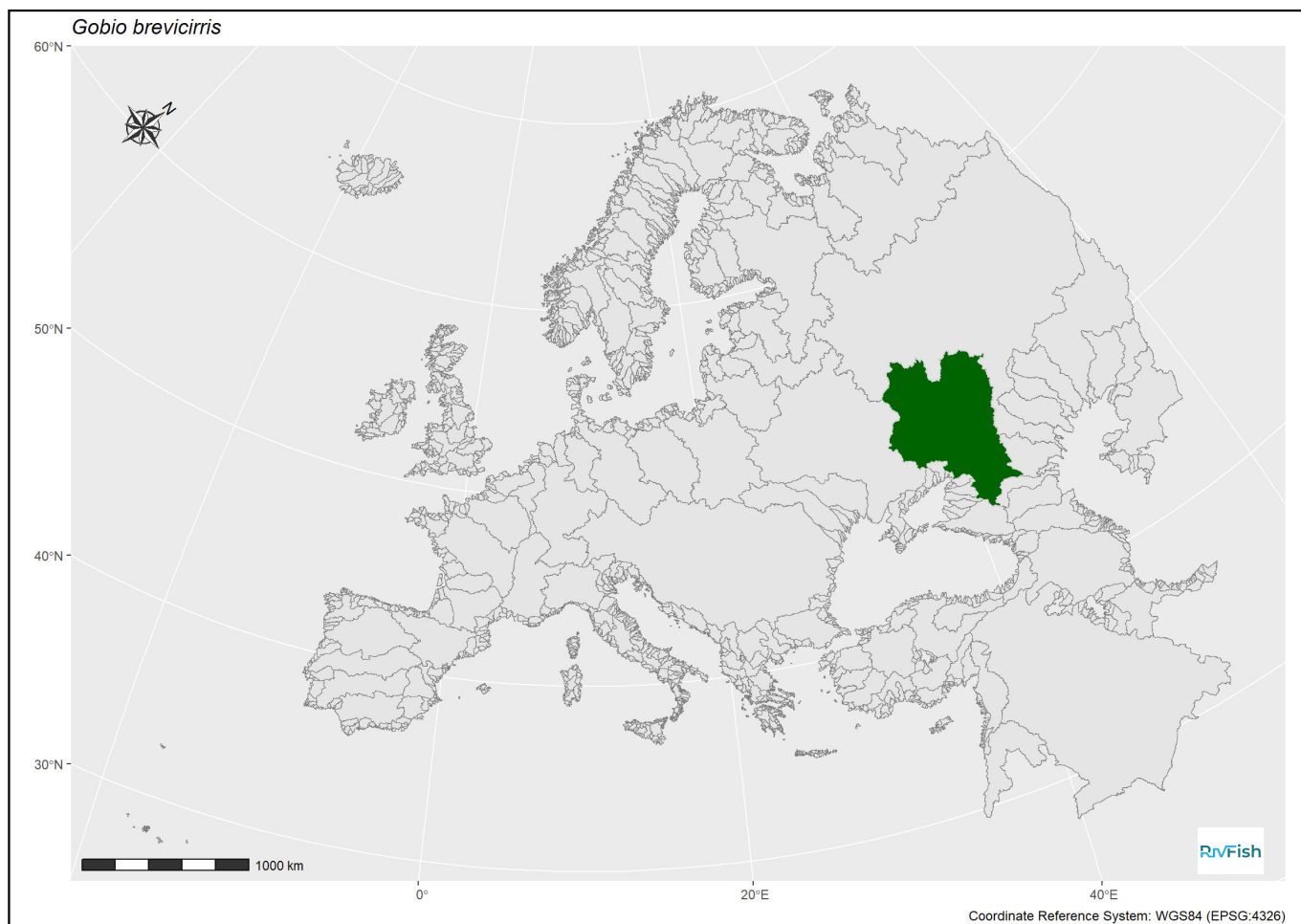
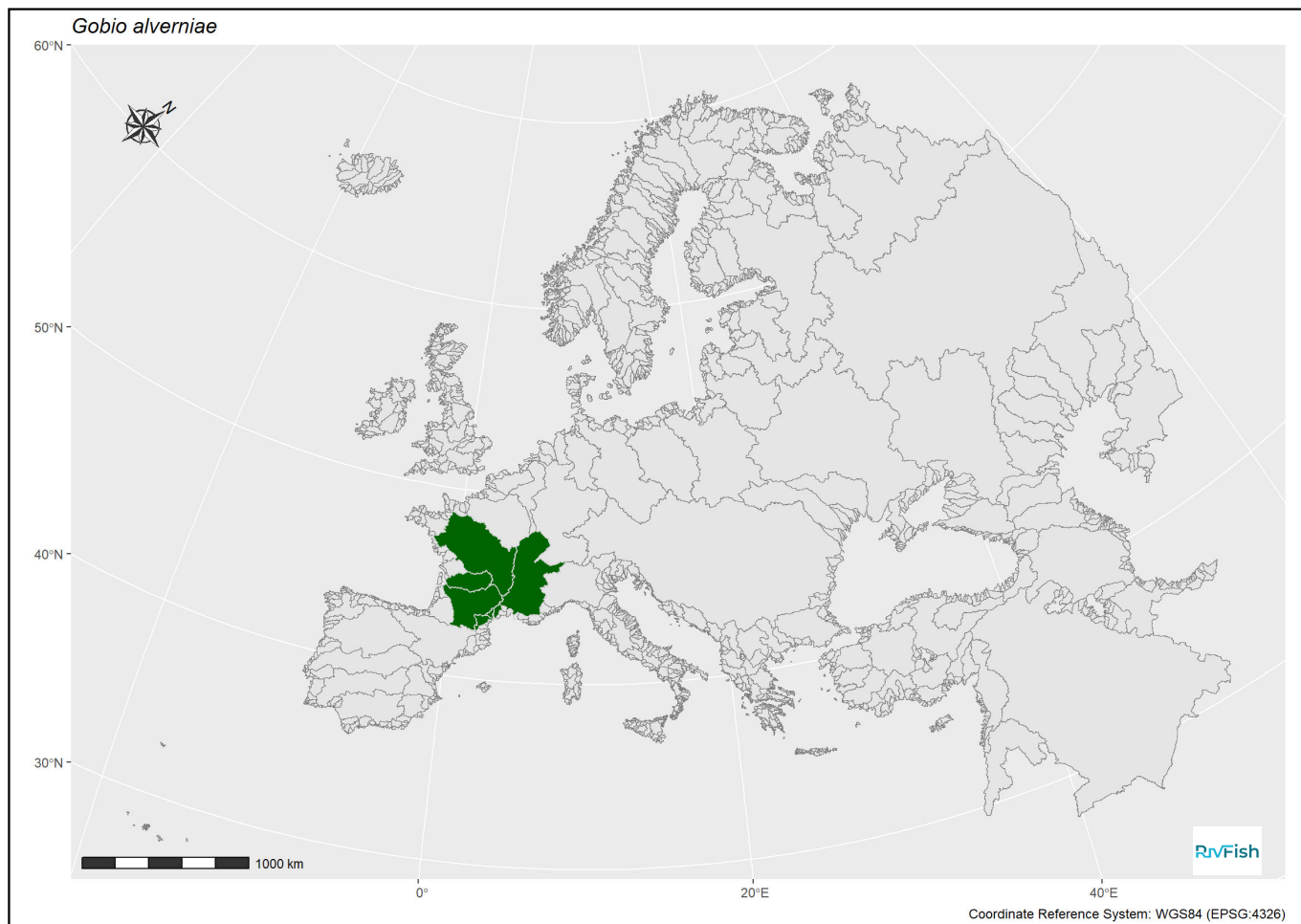


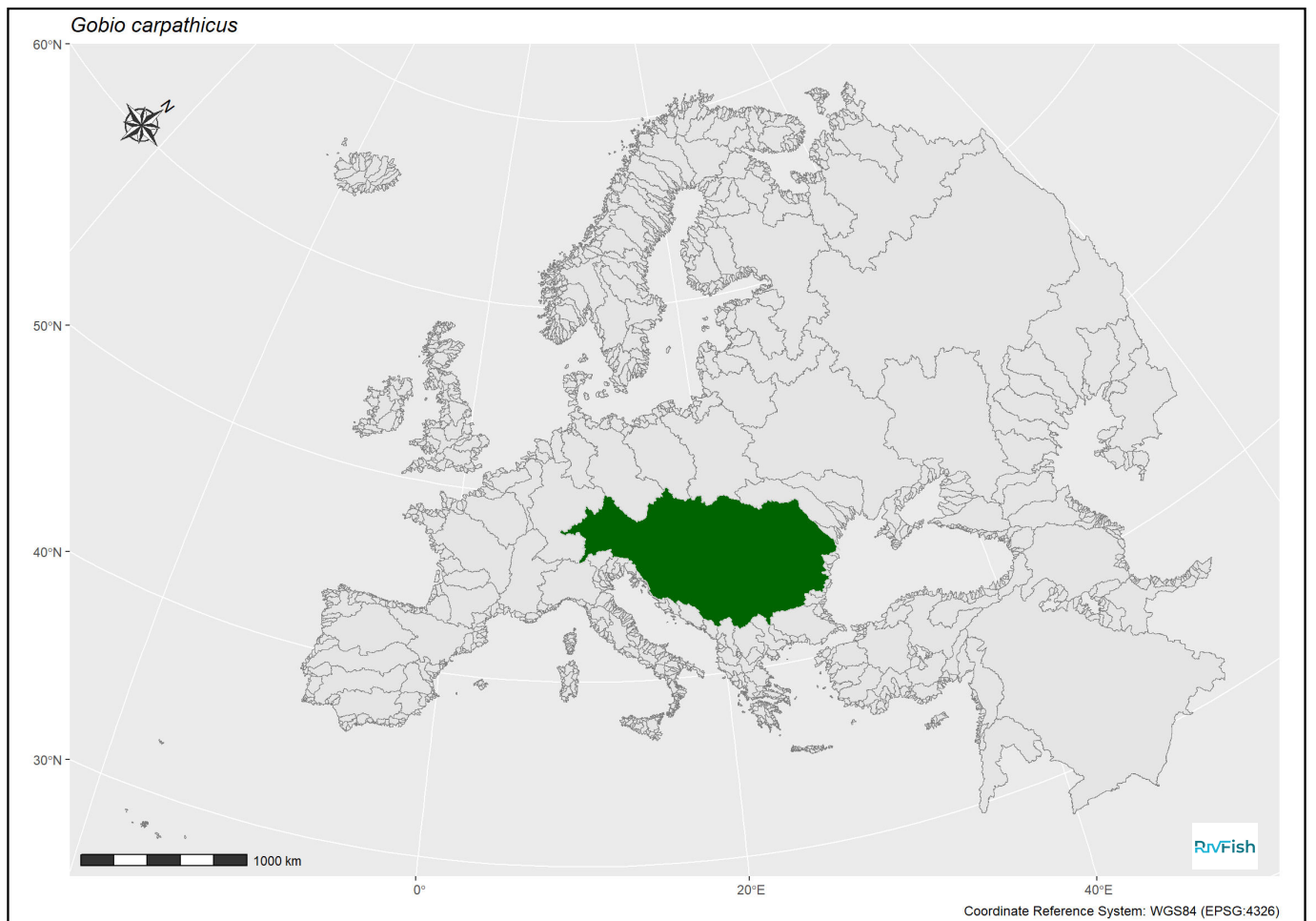
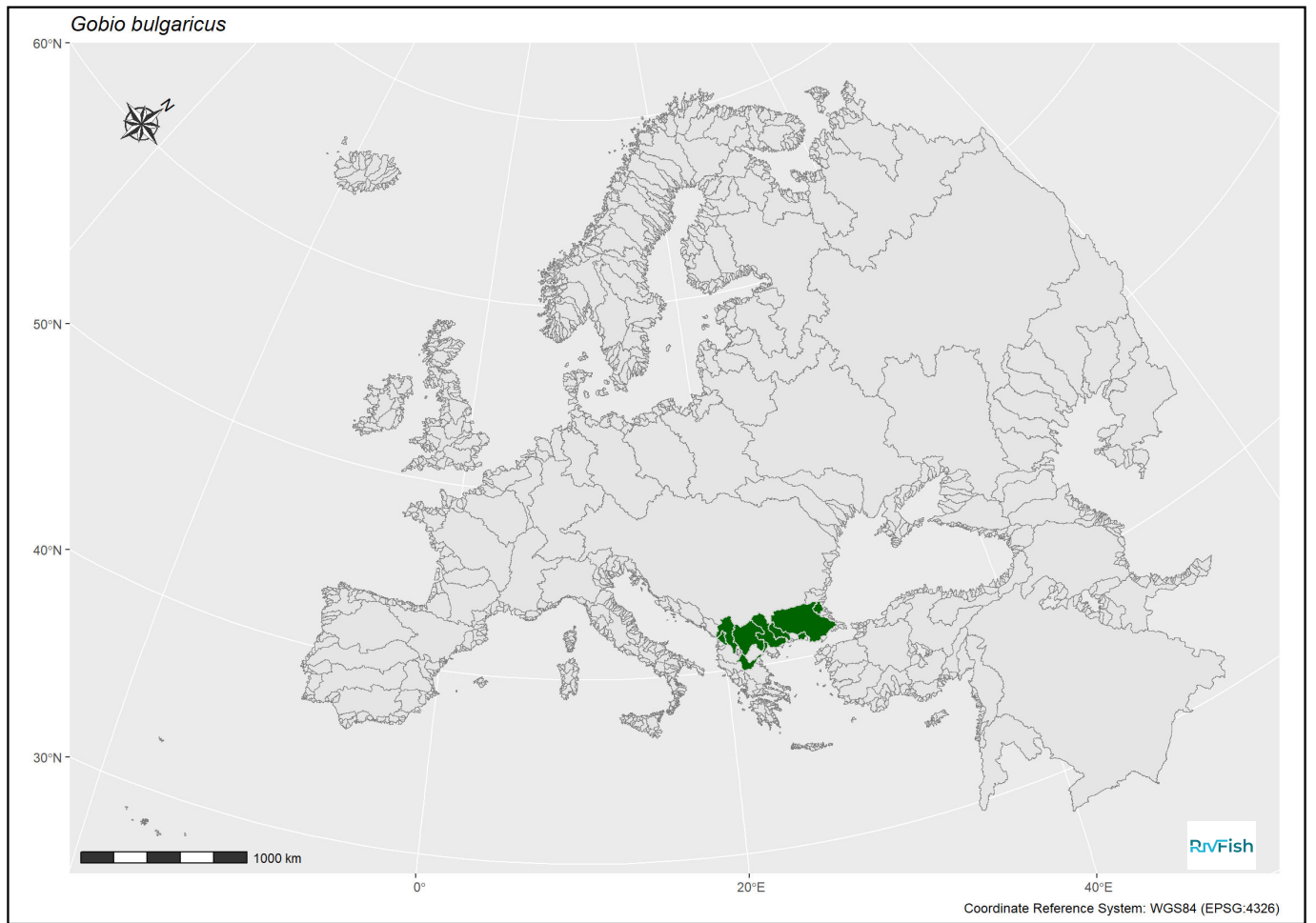
Gasterosteus islandicus

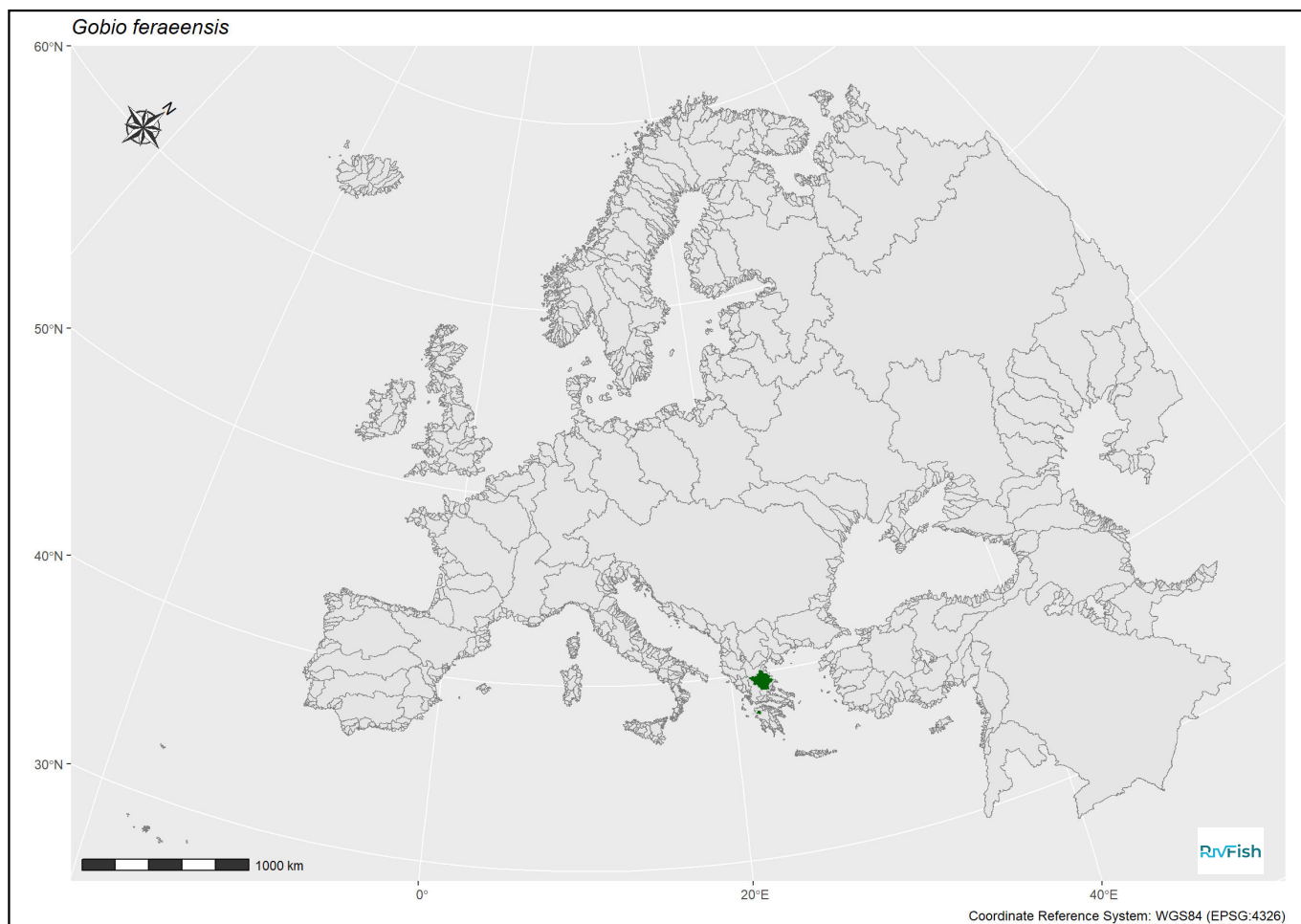
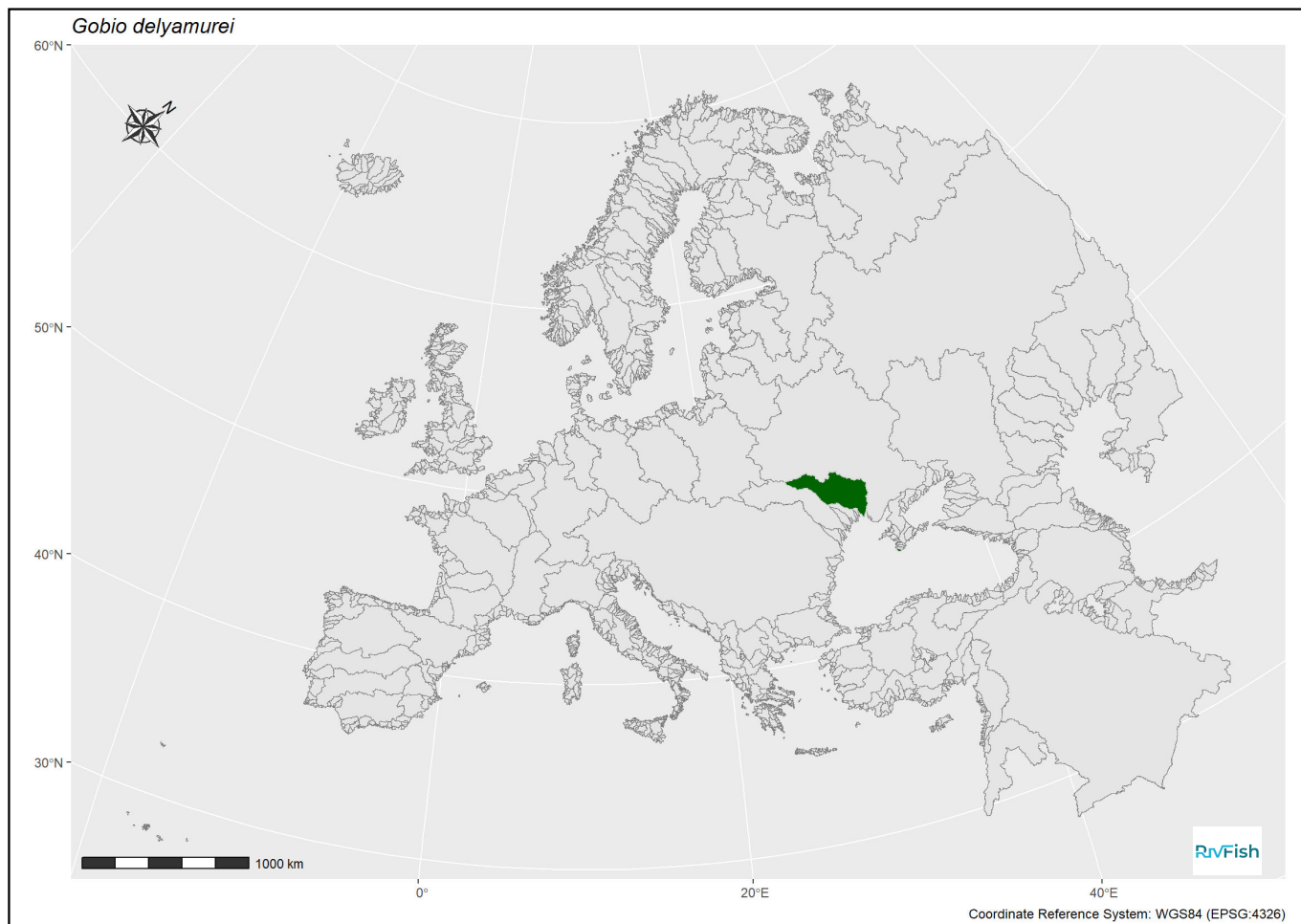


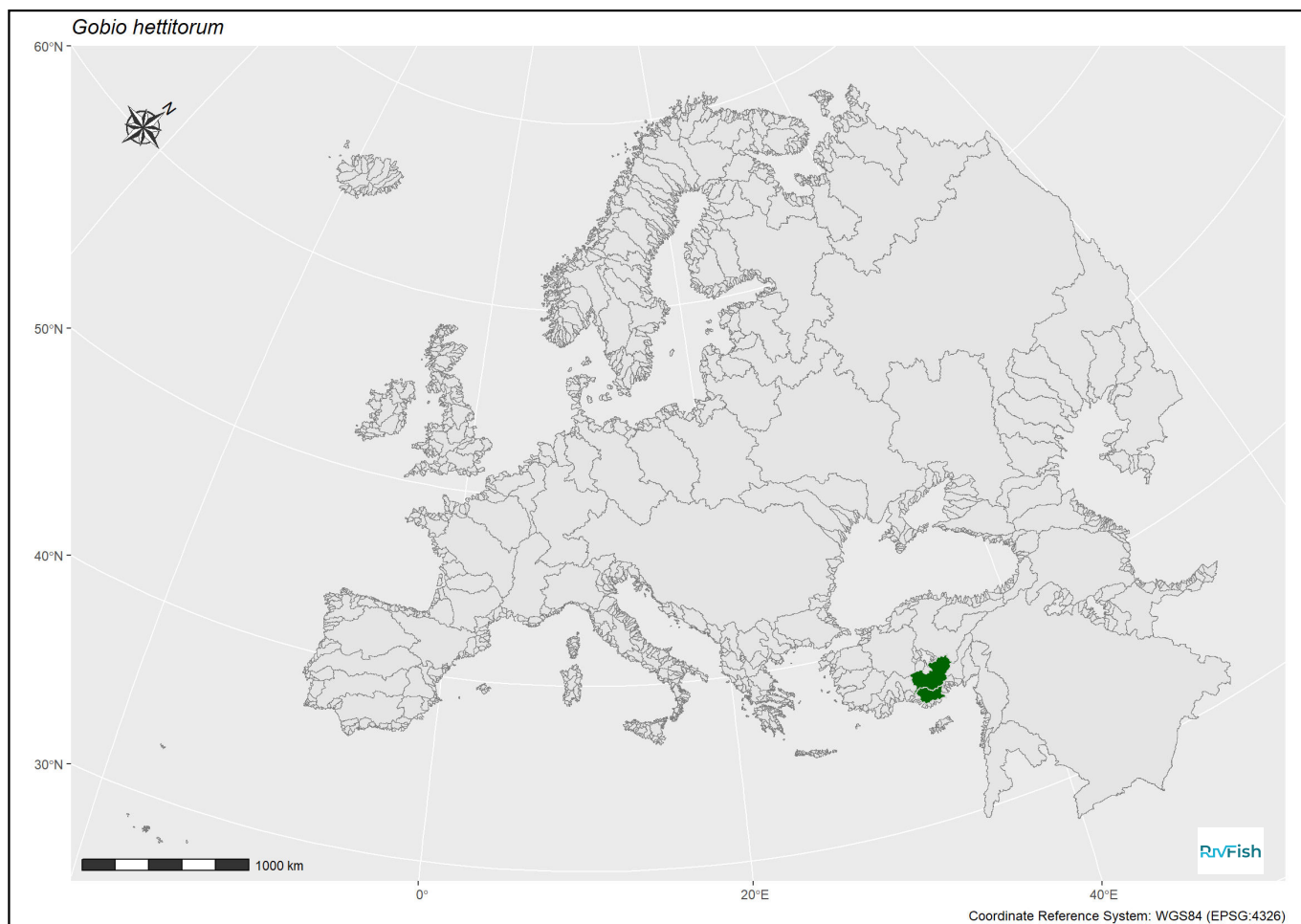
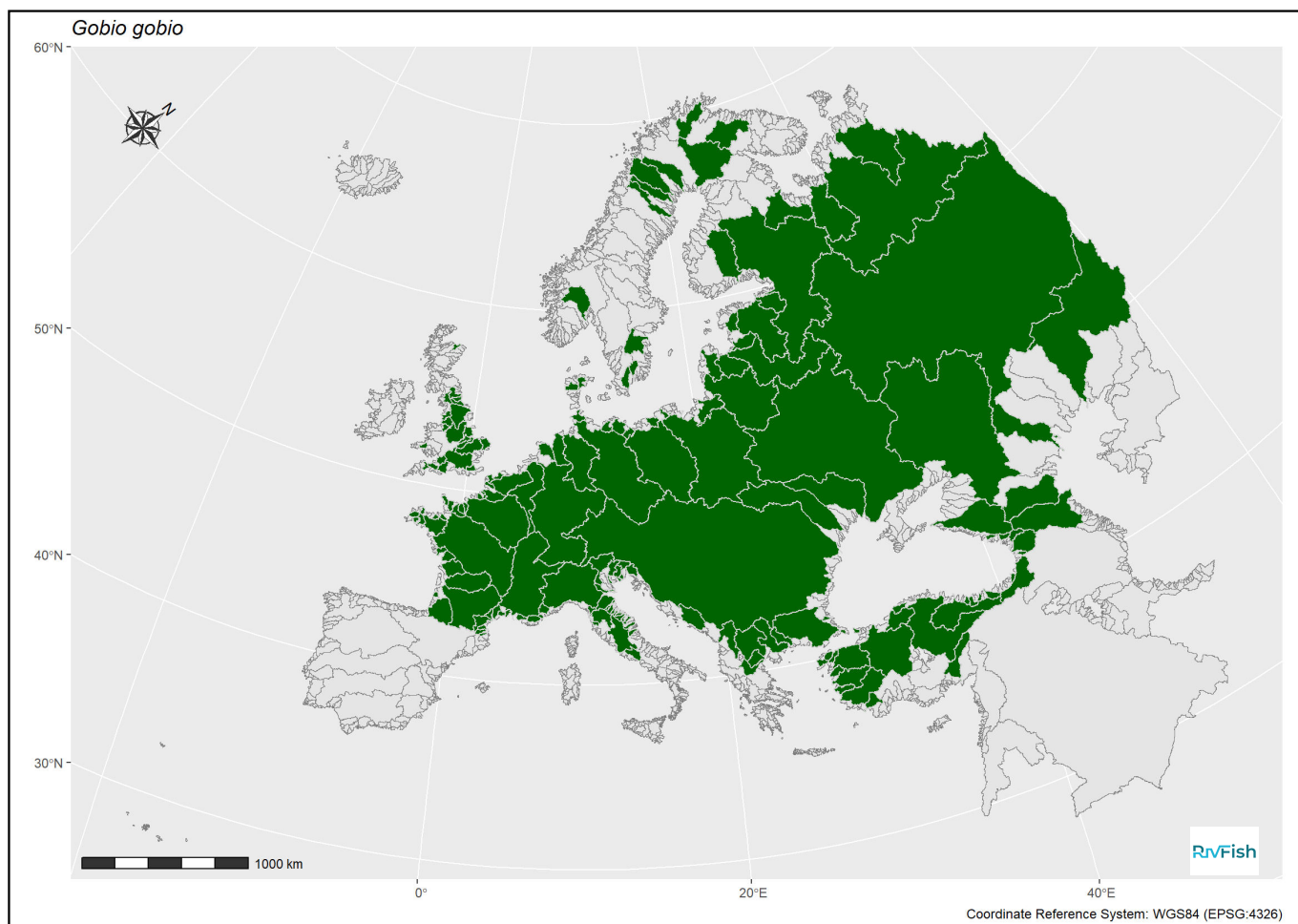
Glyptothorax armeniacus

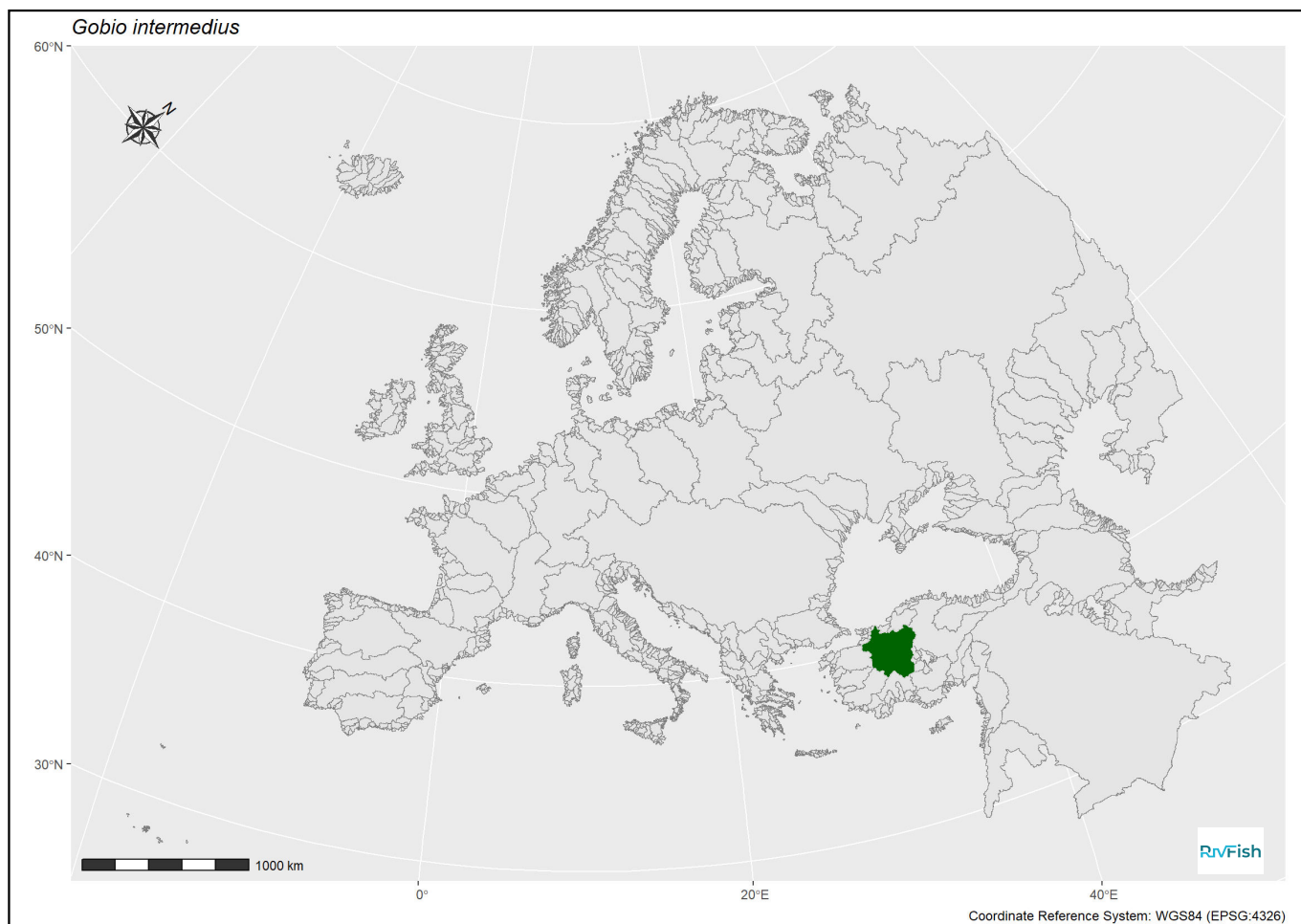
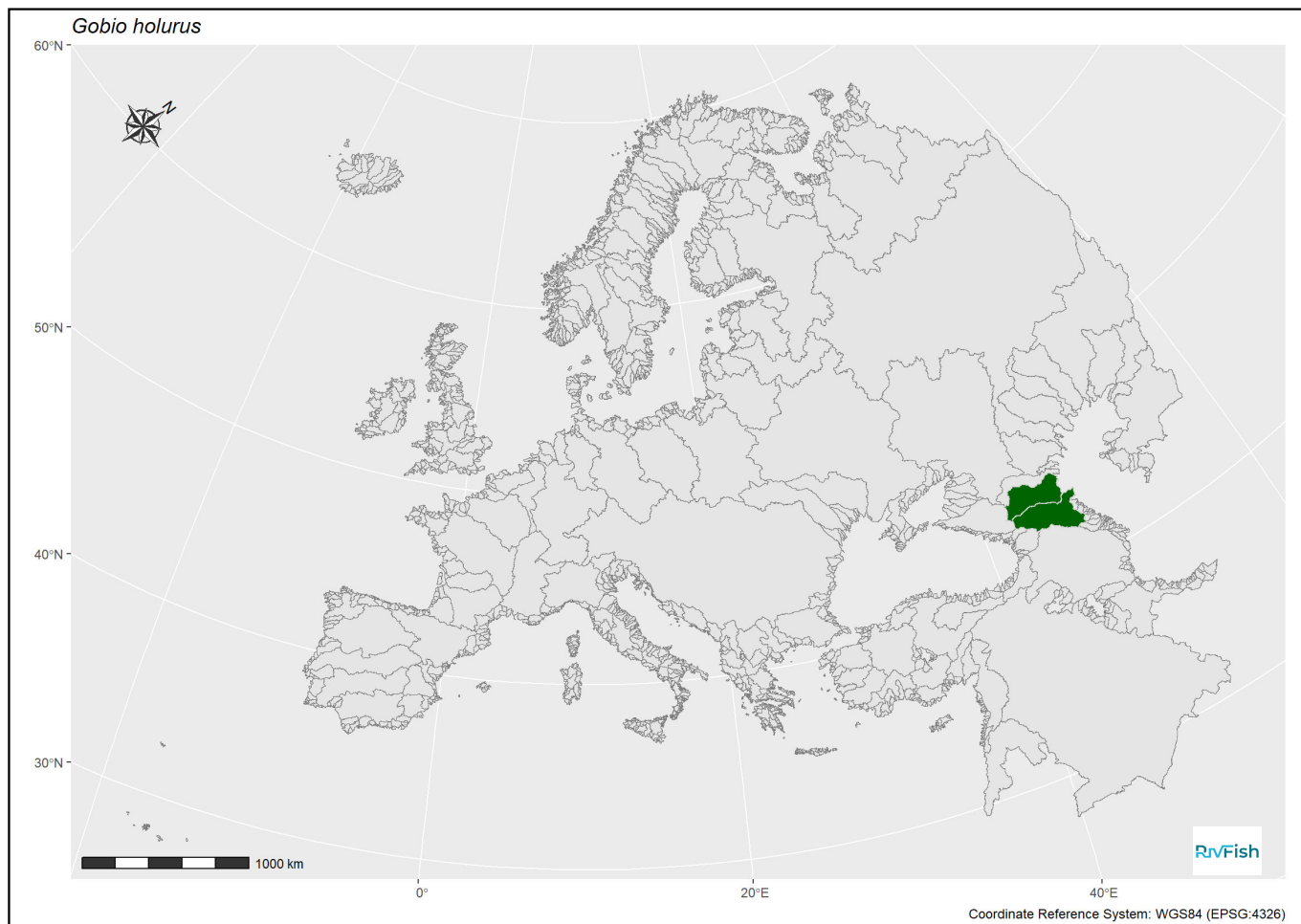




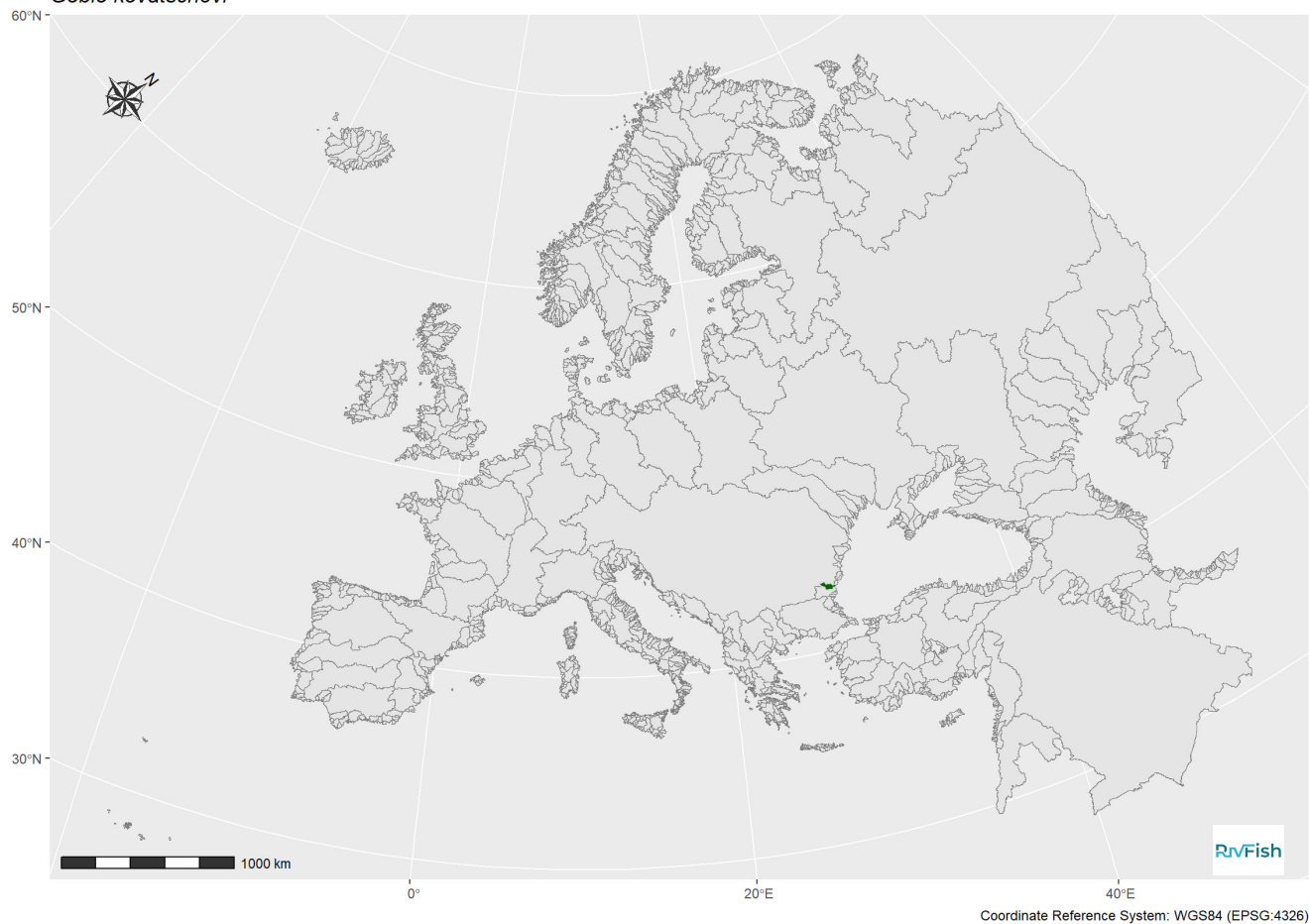




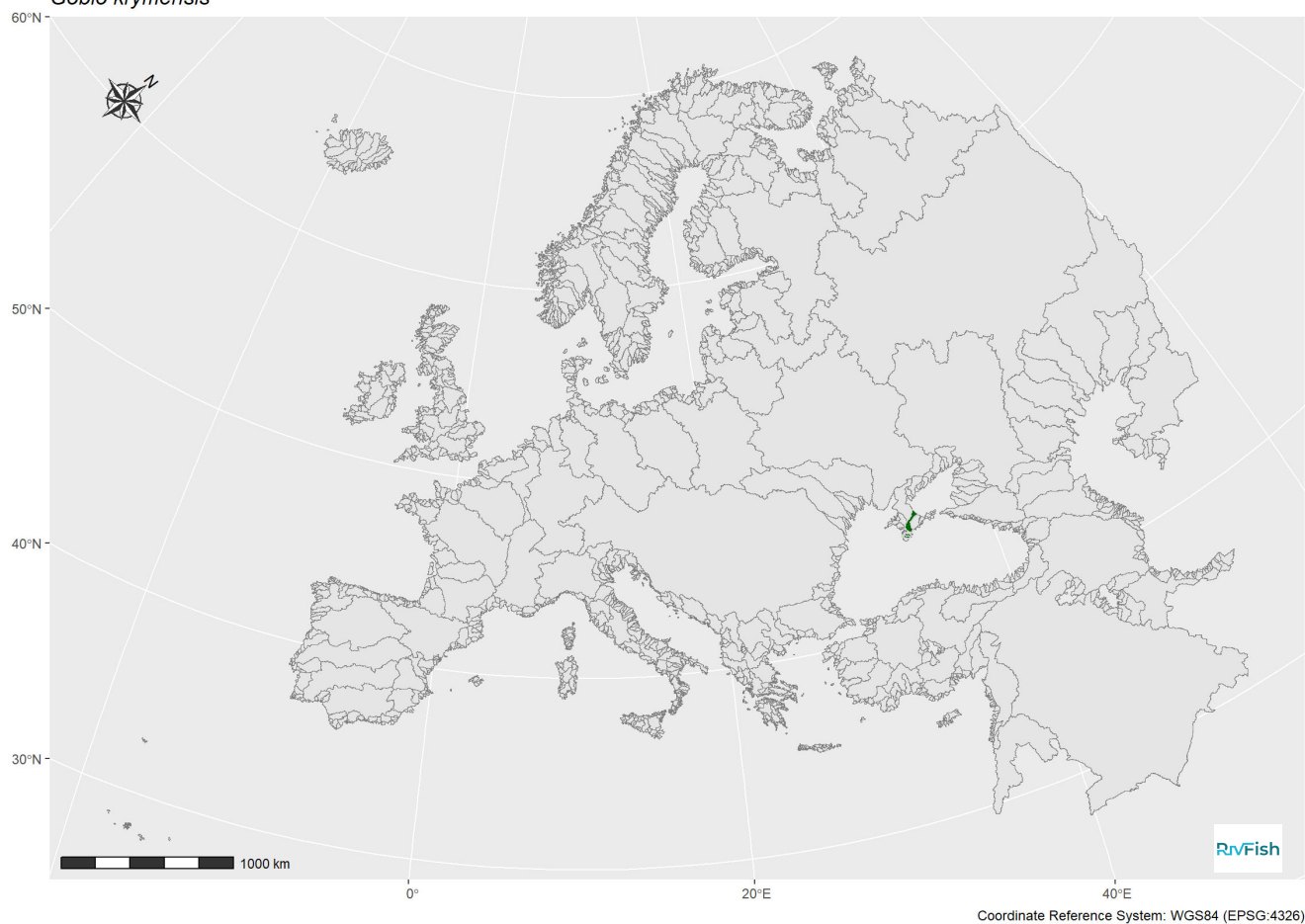




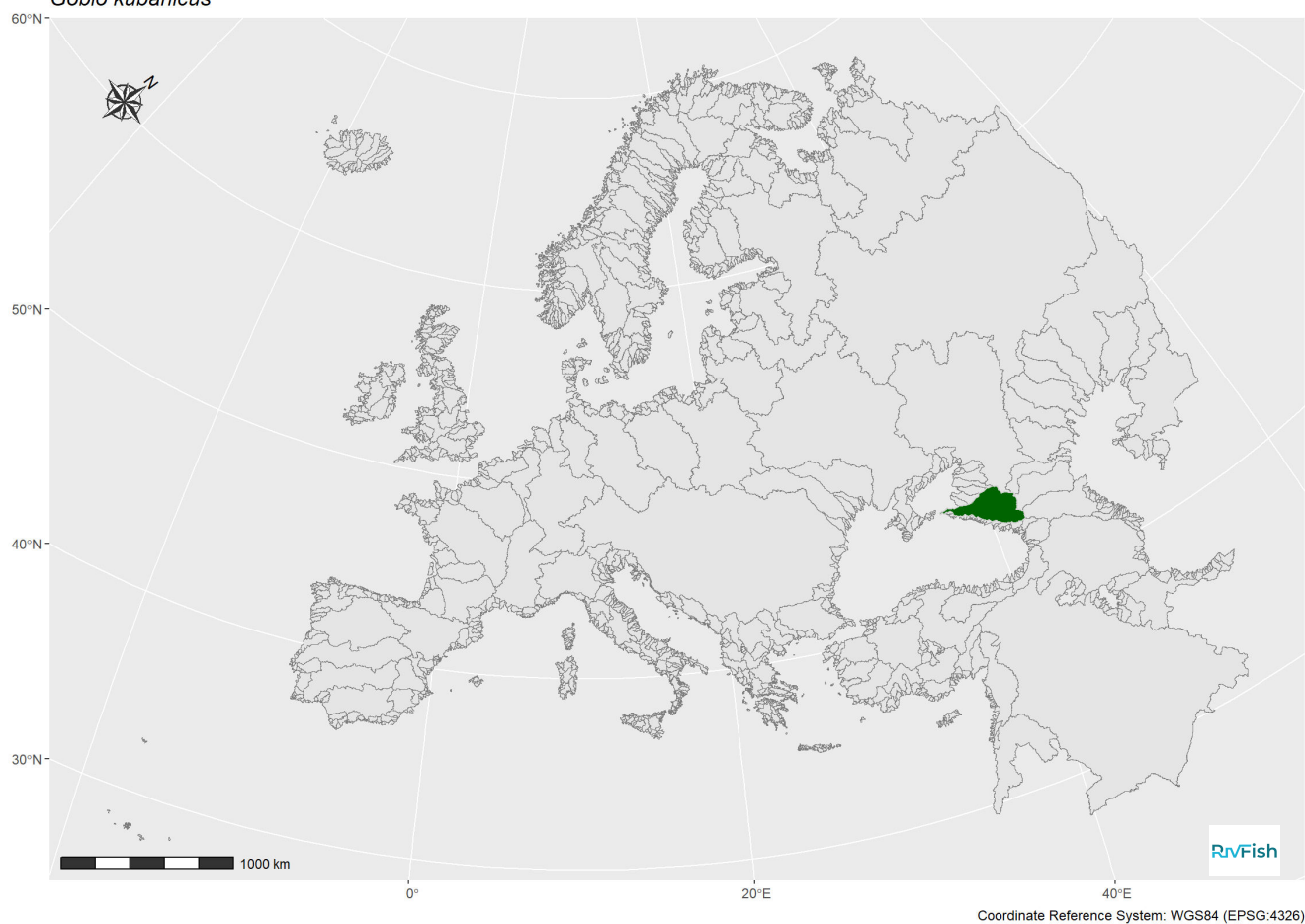
Gobio kovatschevi



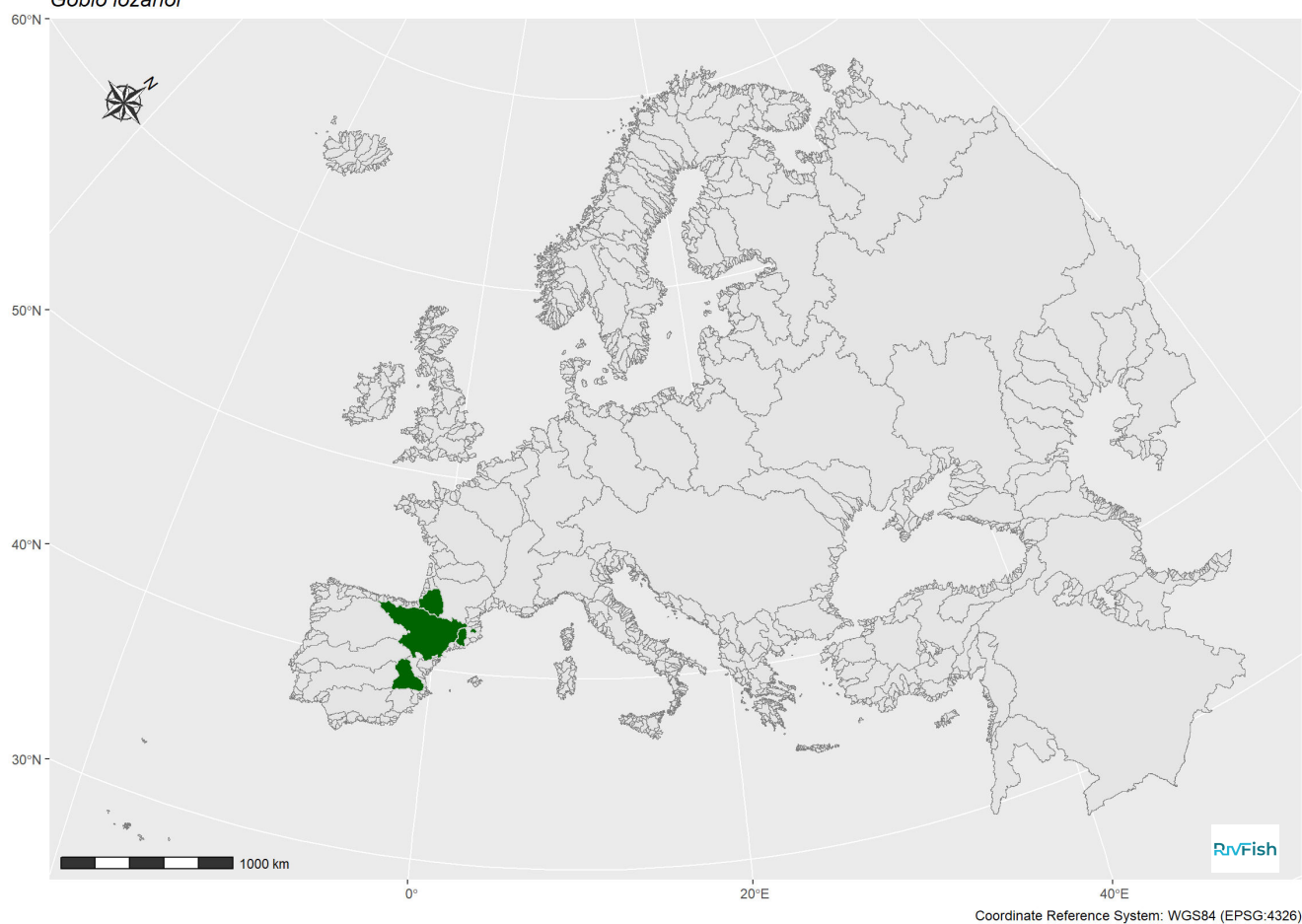
Gobio krymensis



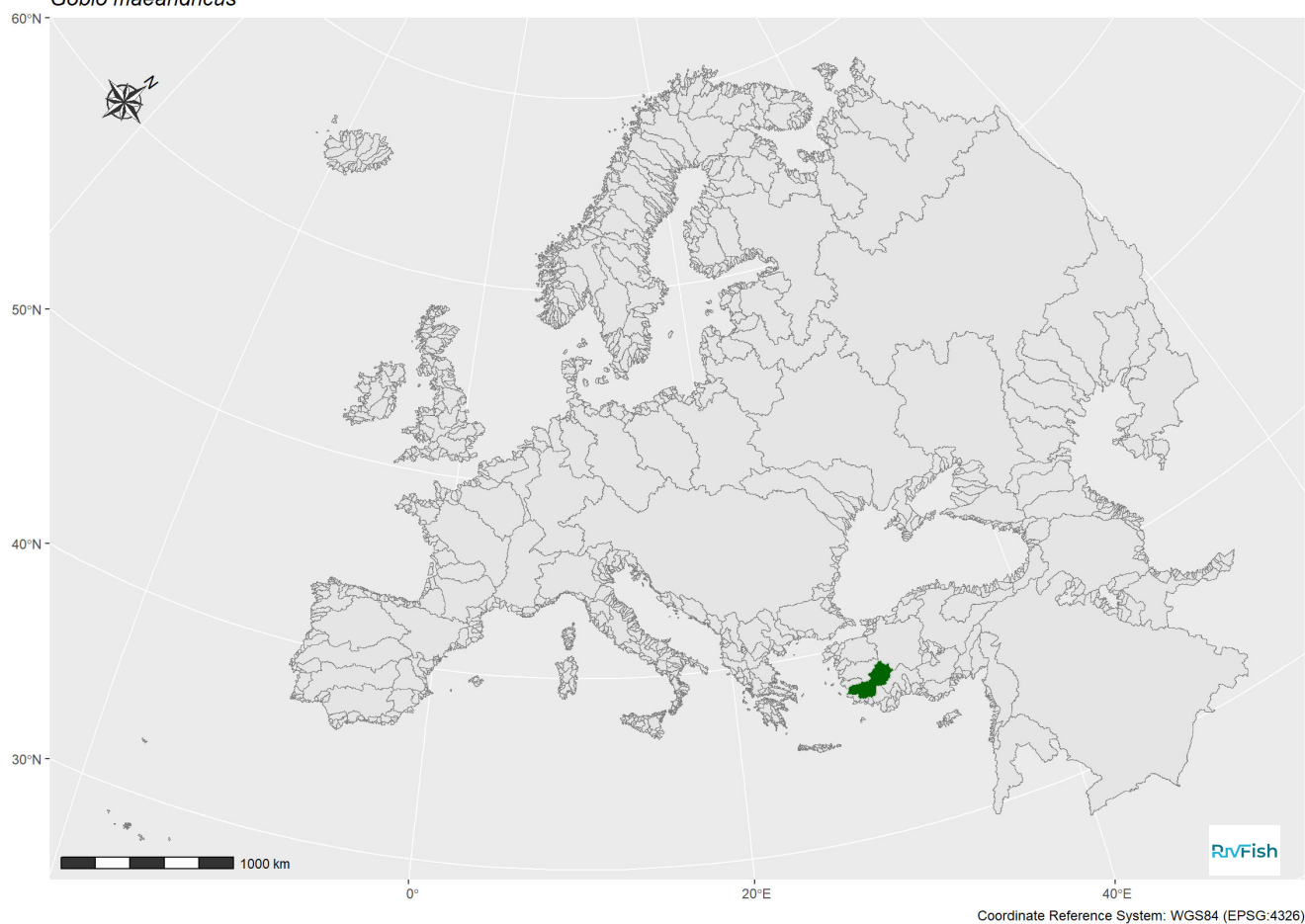
Gobio kubanicus



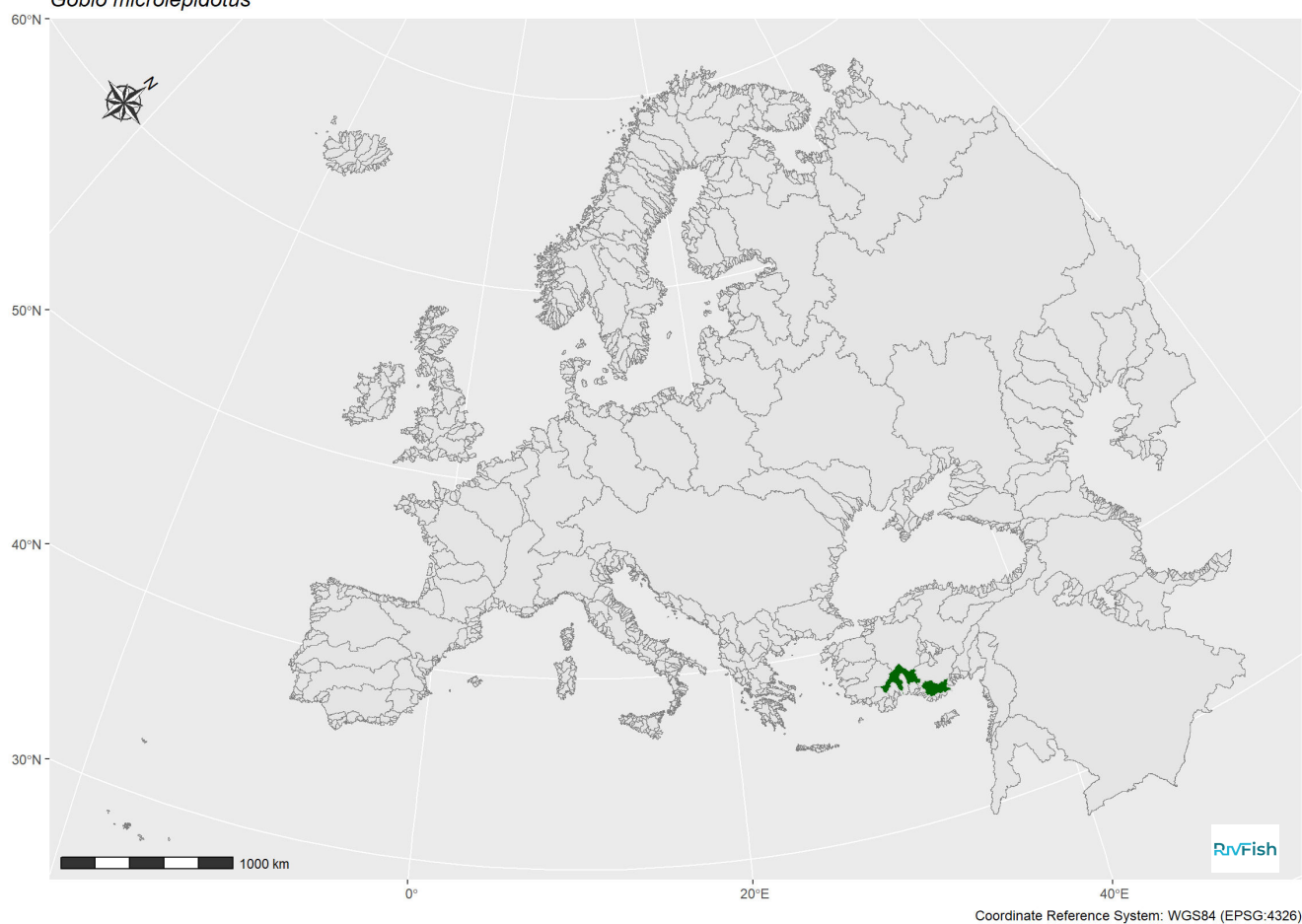
Gobio lozanoi



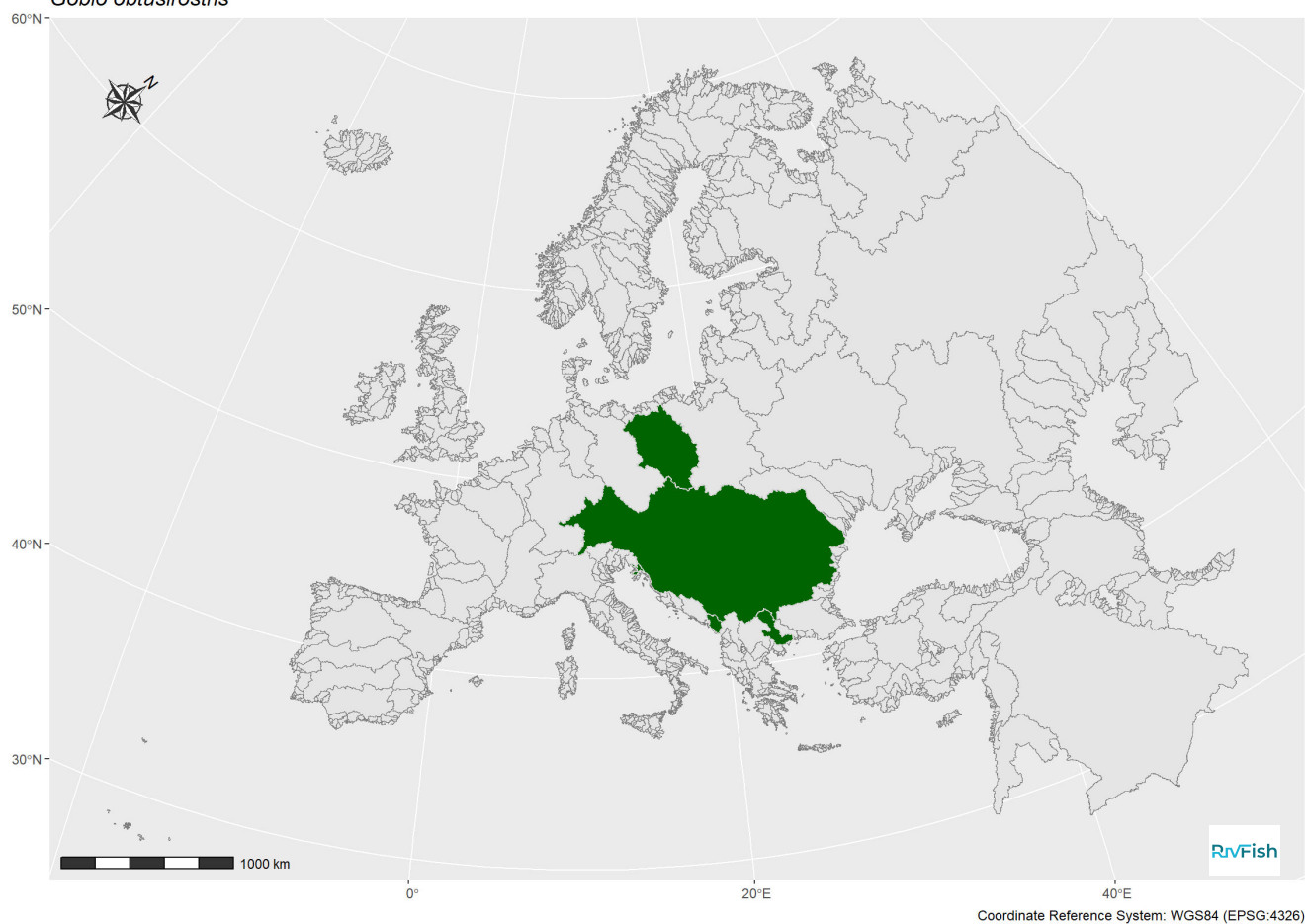
Gobio maeandricus



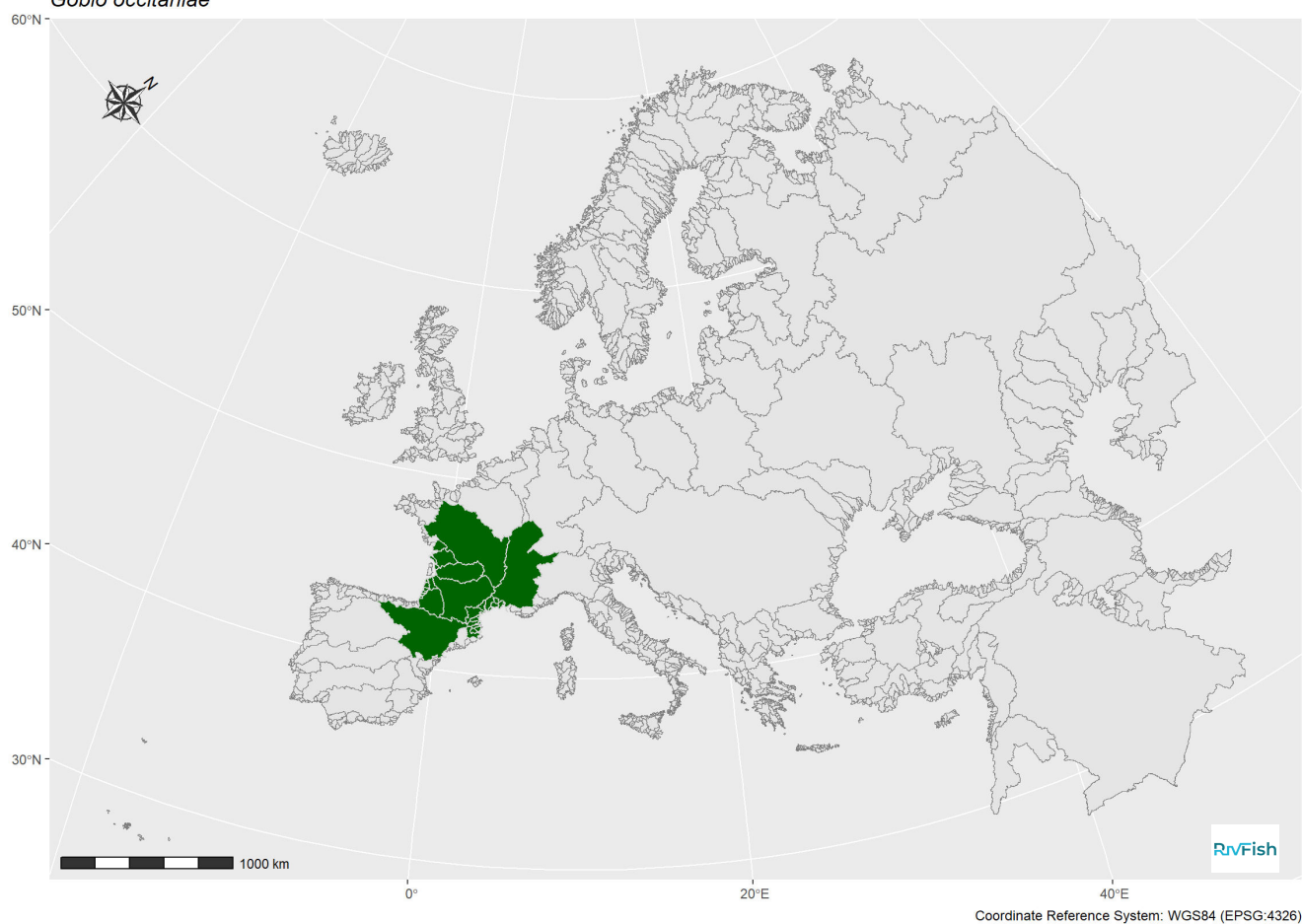
Gobio microlepidotus



Gobio obtusirostris



Gobio occitaniae

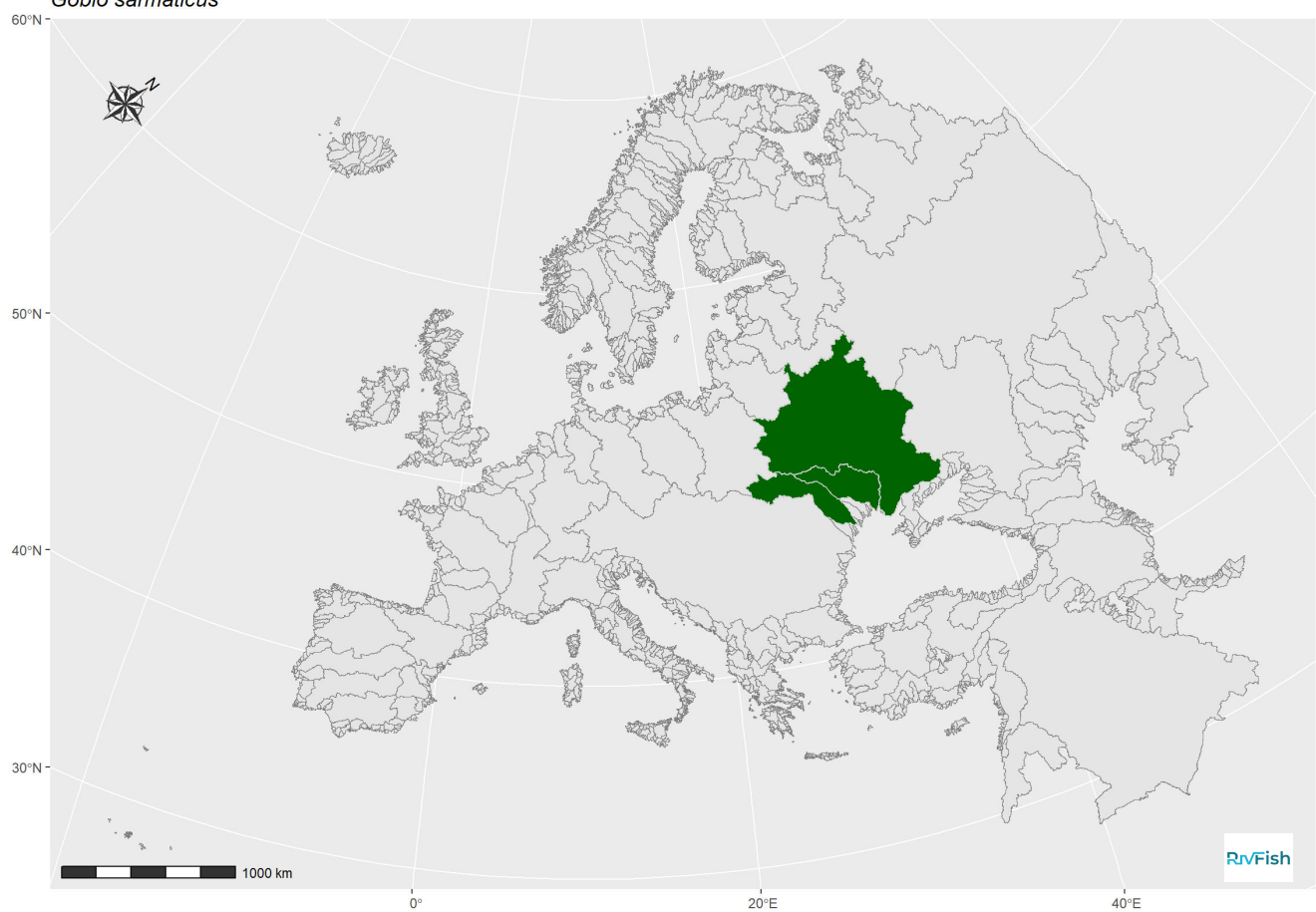


Gobio ohridanus



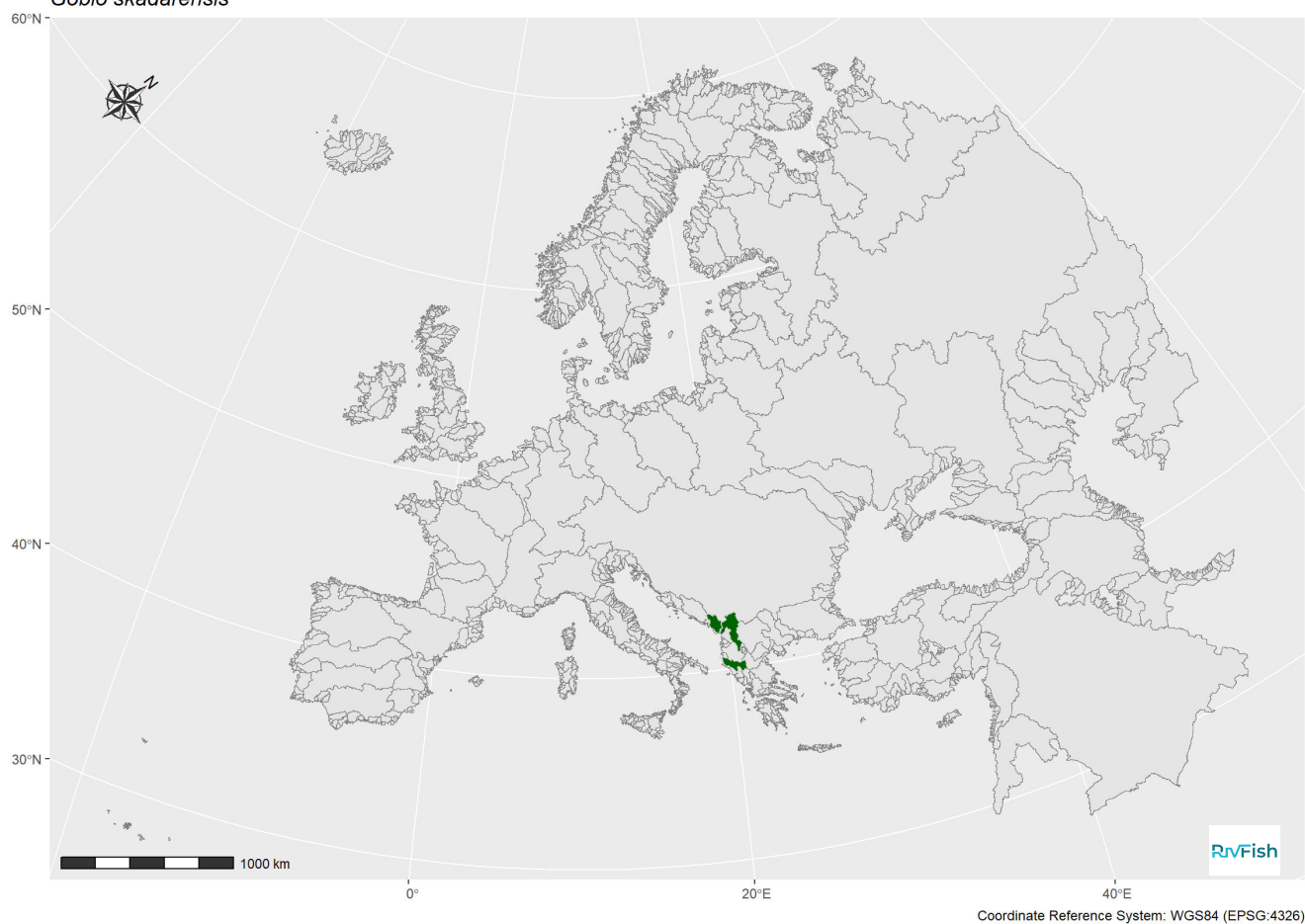
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Gobio sarmaticus

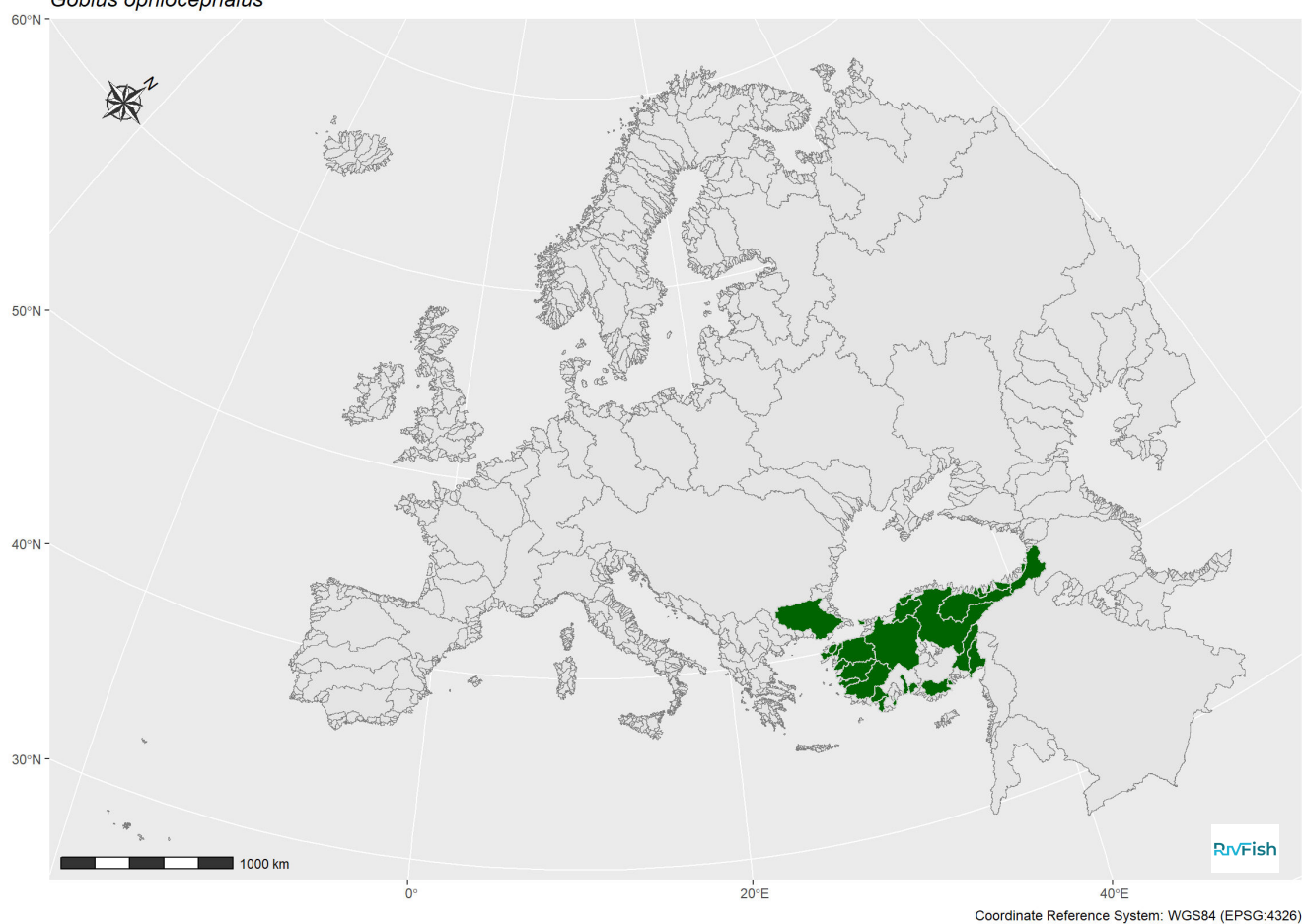


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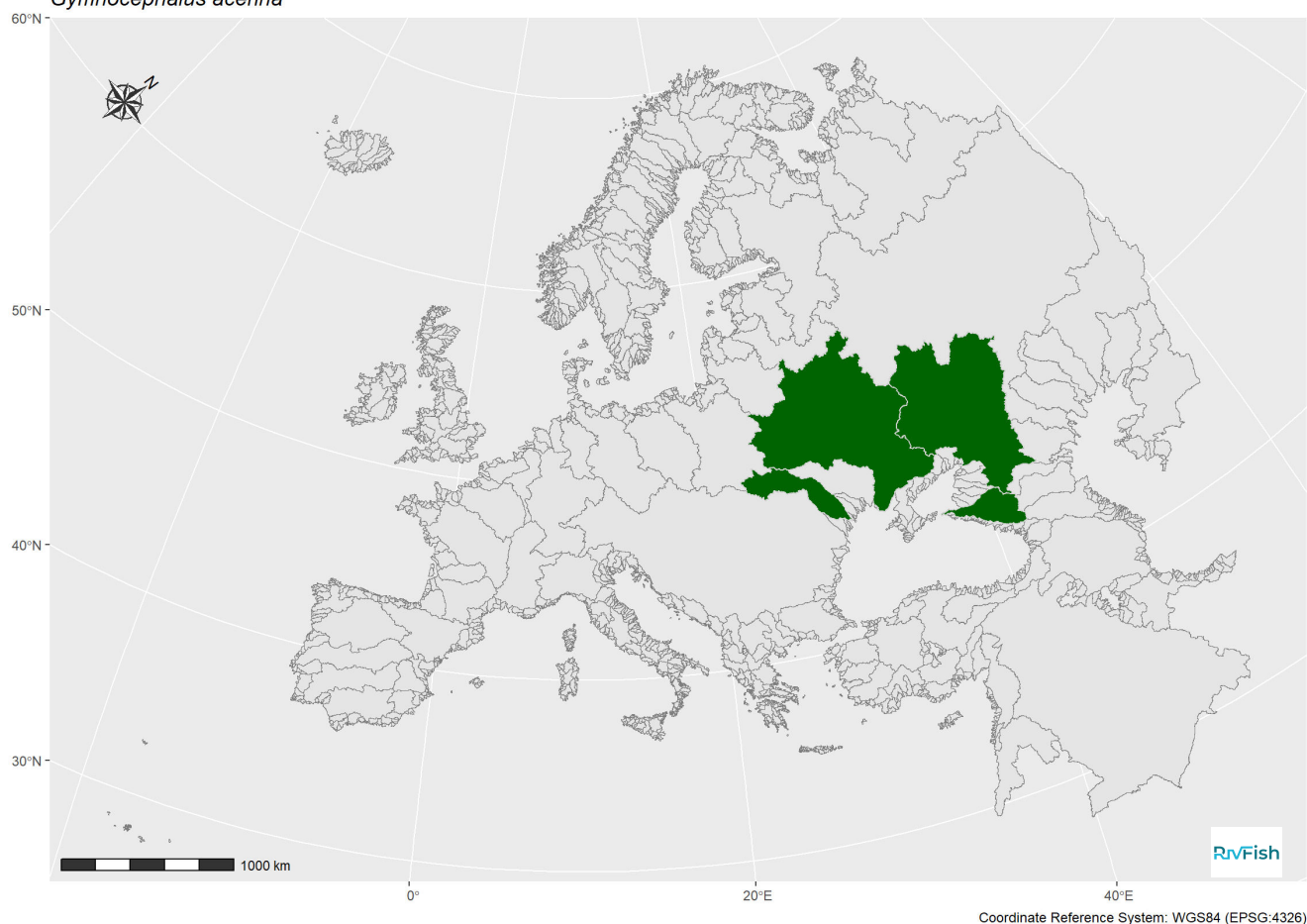
Gobio skadarensis



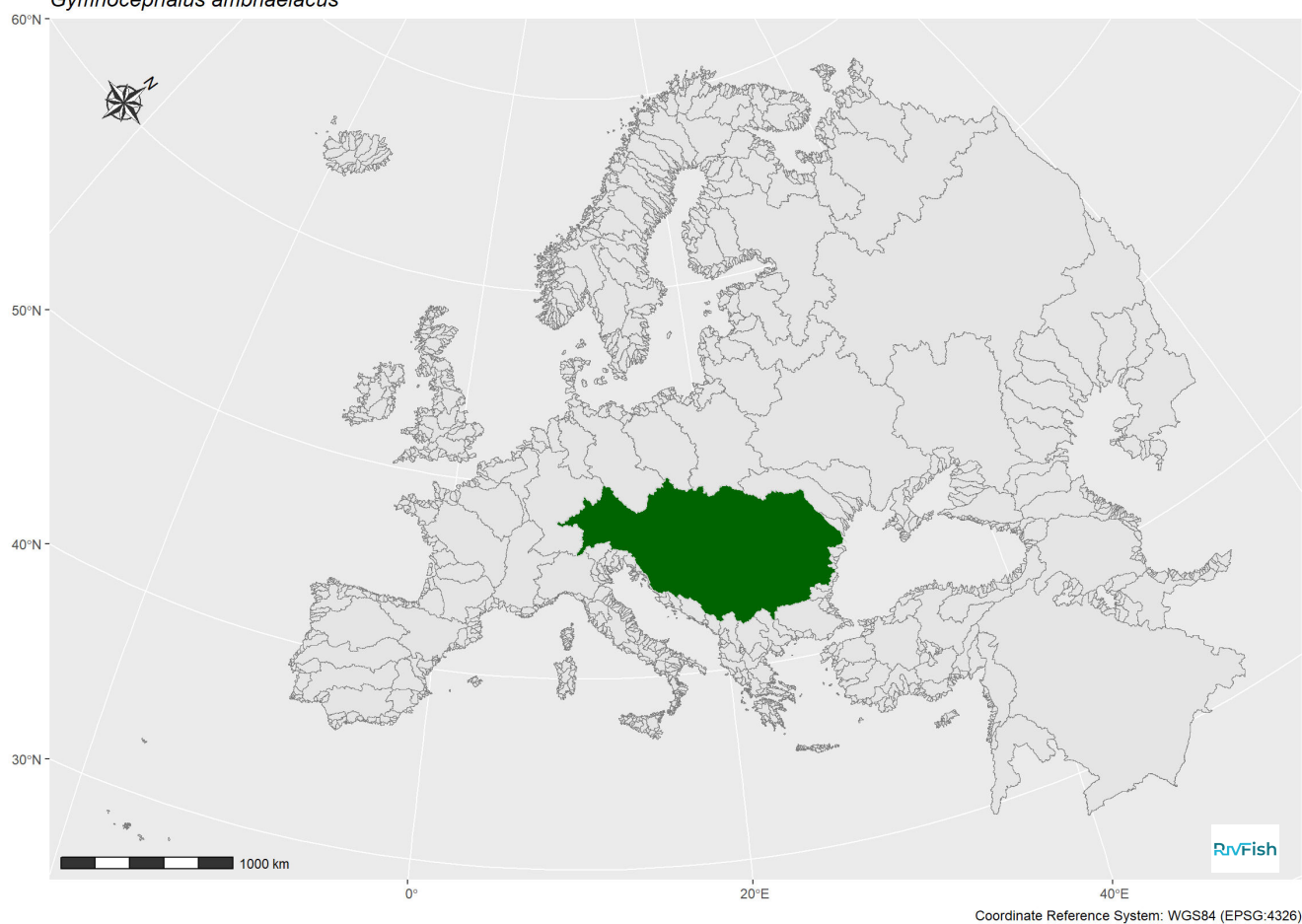
Gobius ophiocephalus



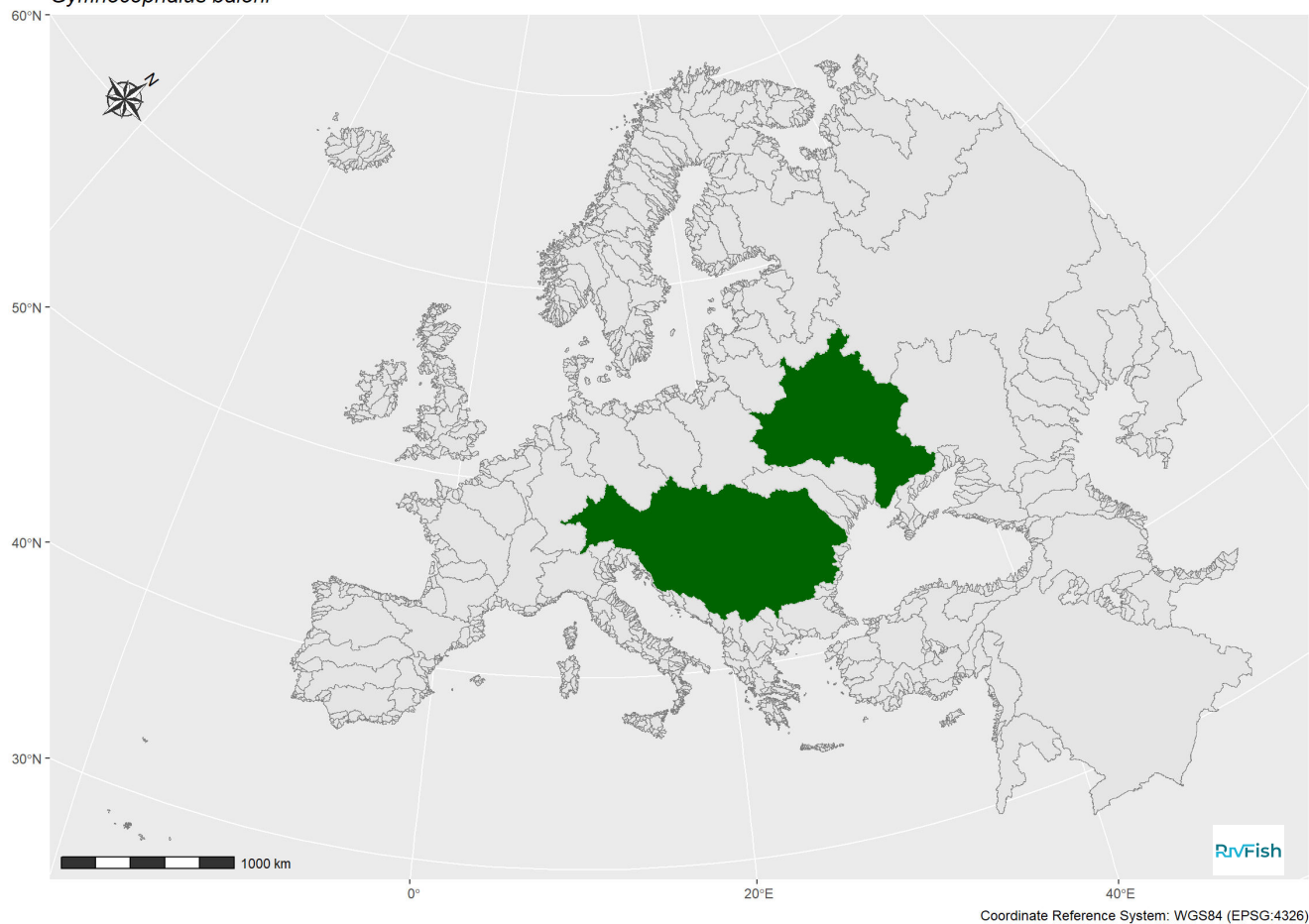
Gymnocephalus acerina



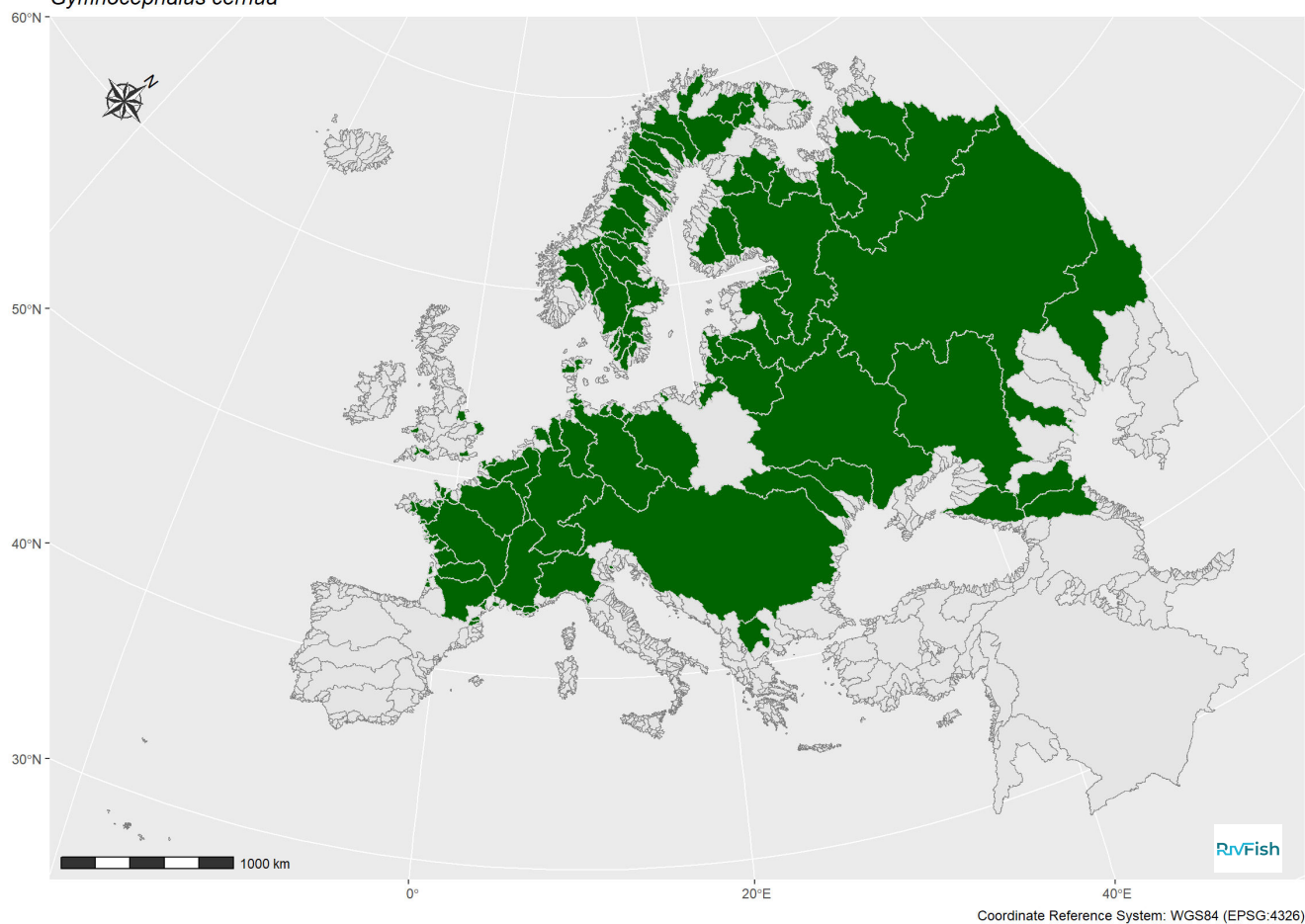
Gymnocephalus ambriaelacus



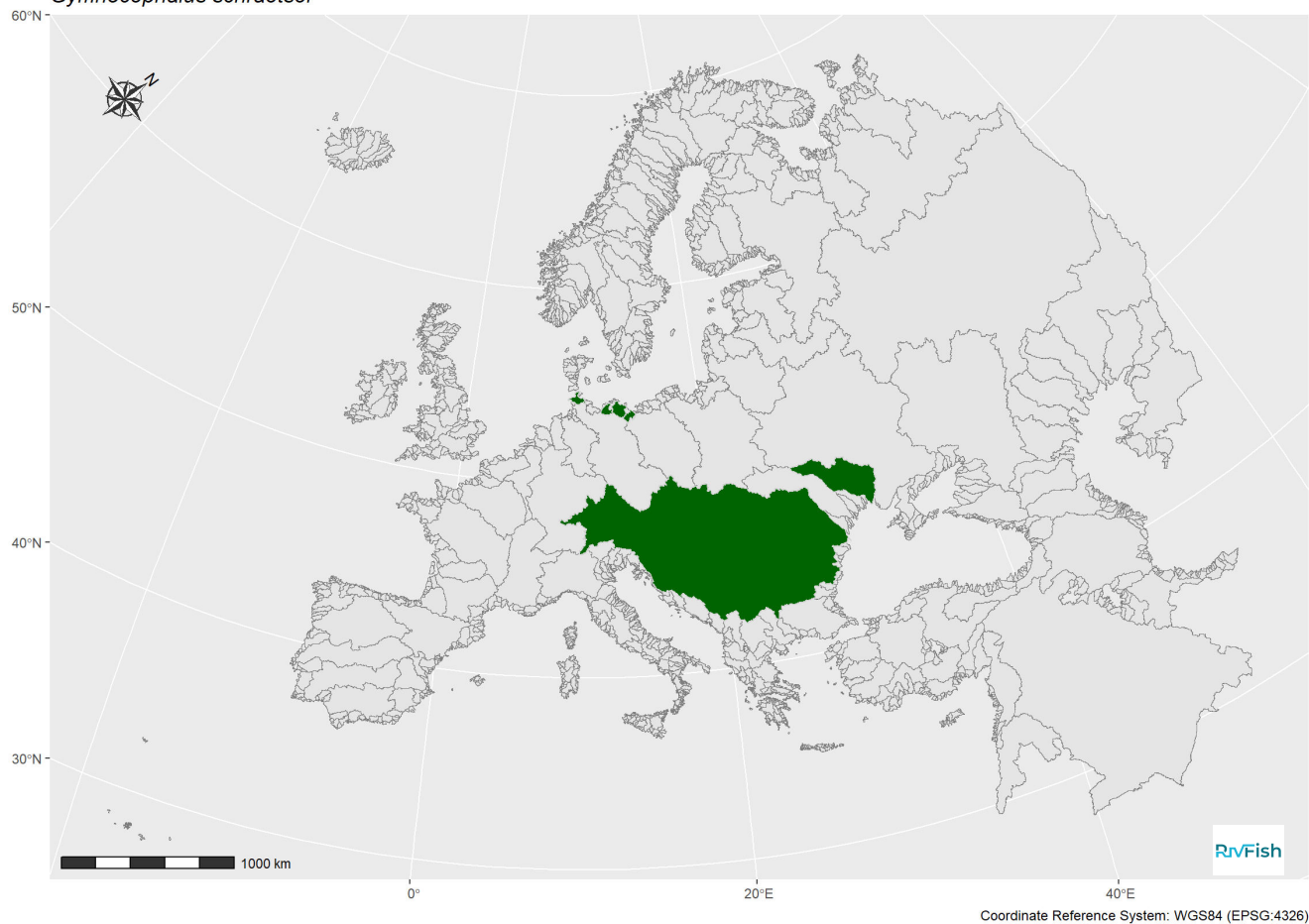
Gymnocephalus baloni



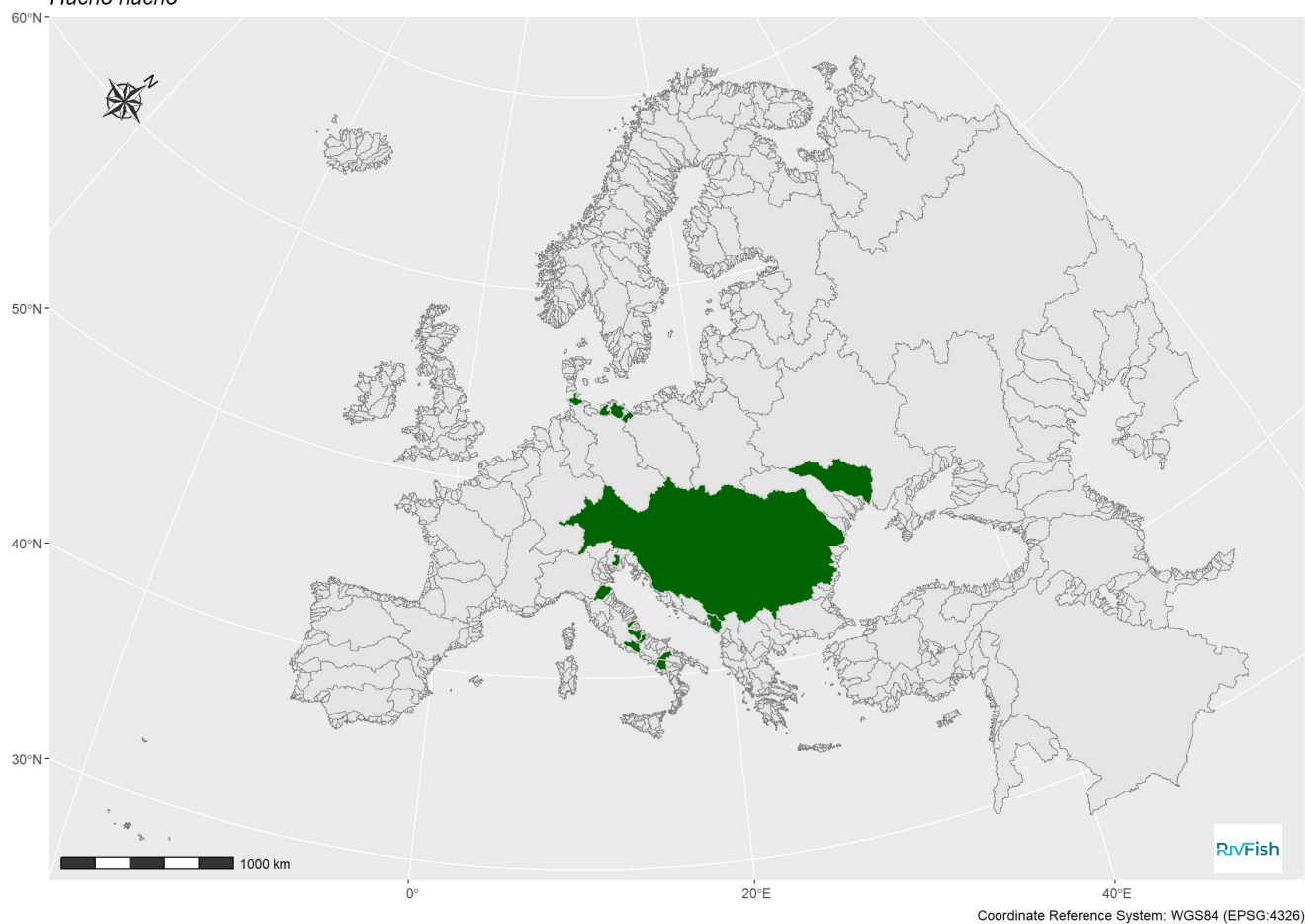
Gymnocephalus cernua

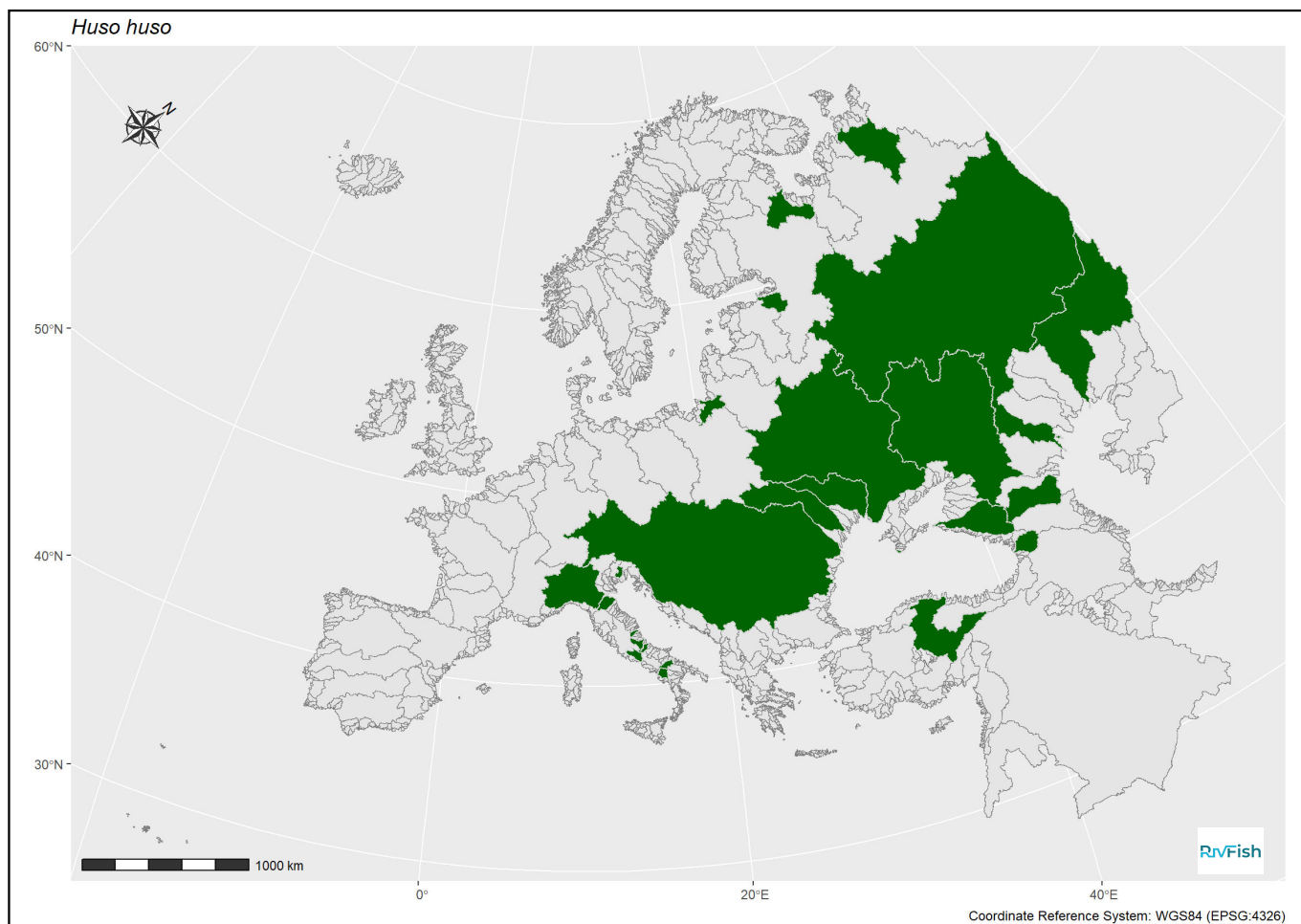
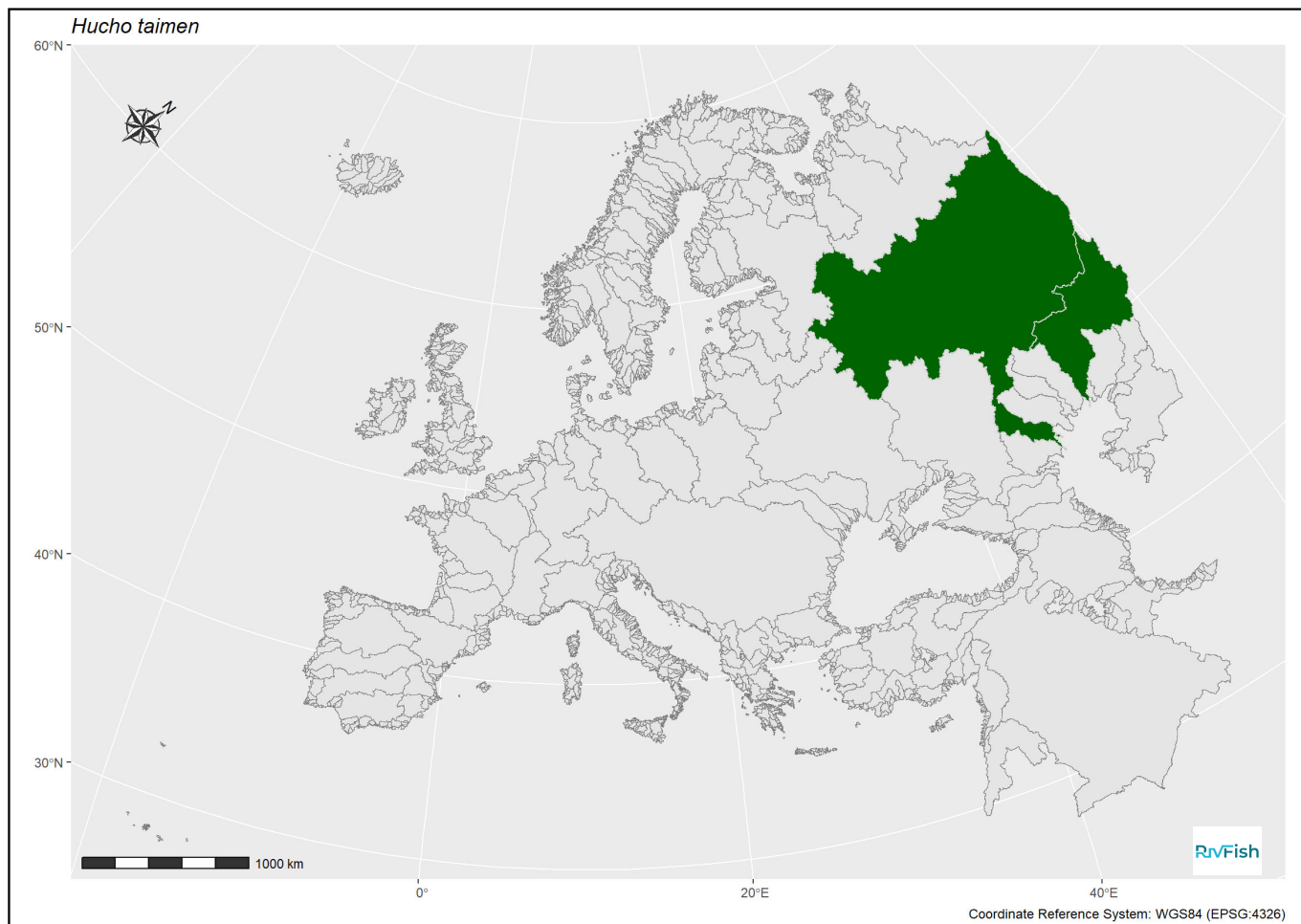


Gymnocephalus schraetser

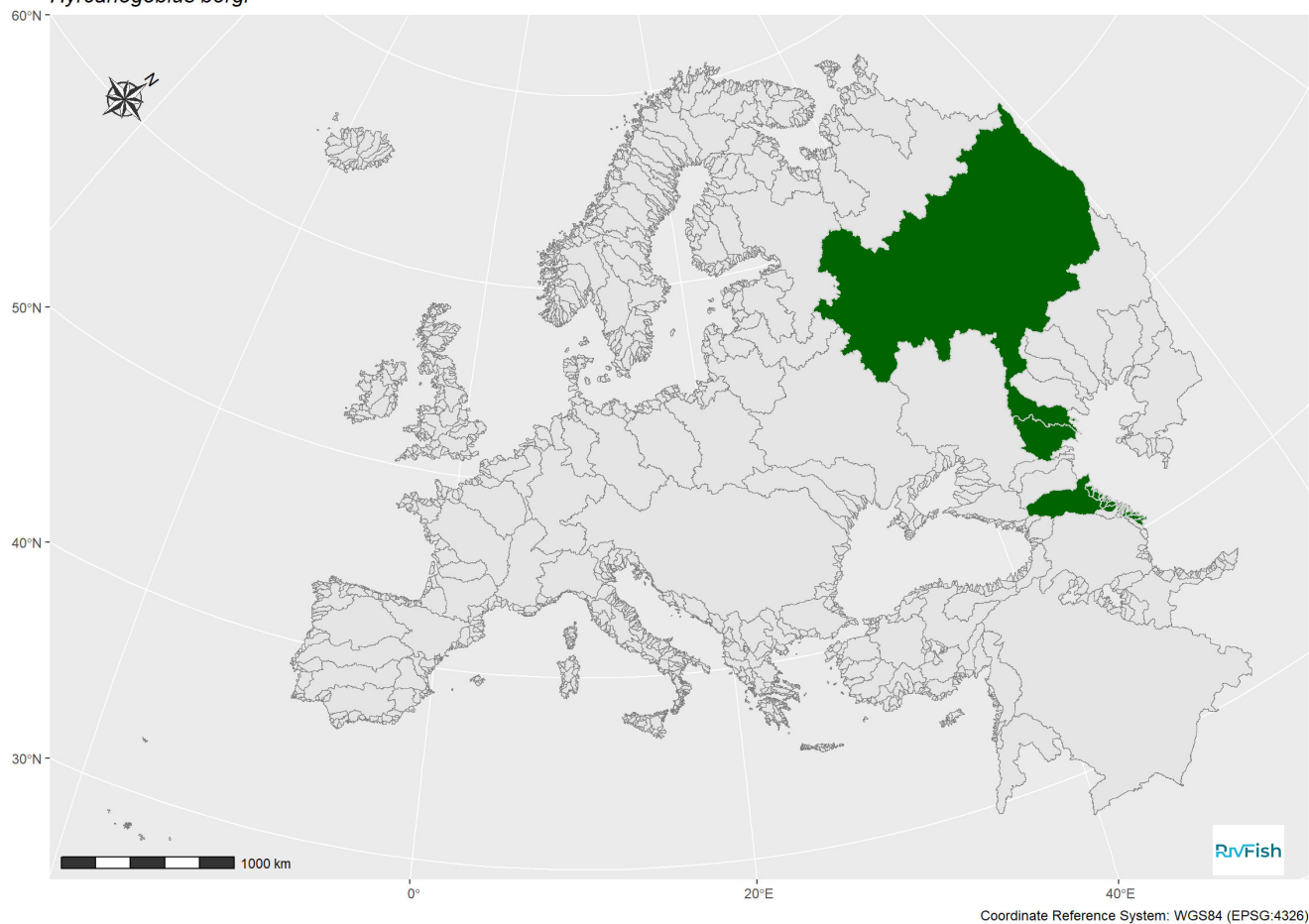


Hucho hucho

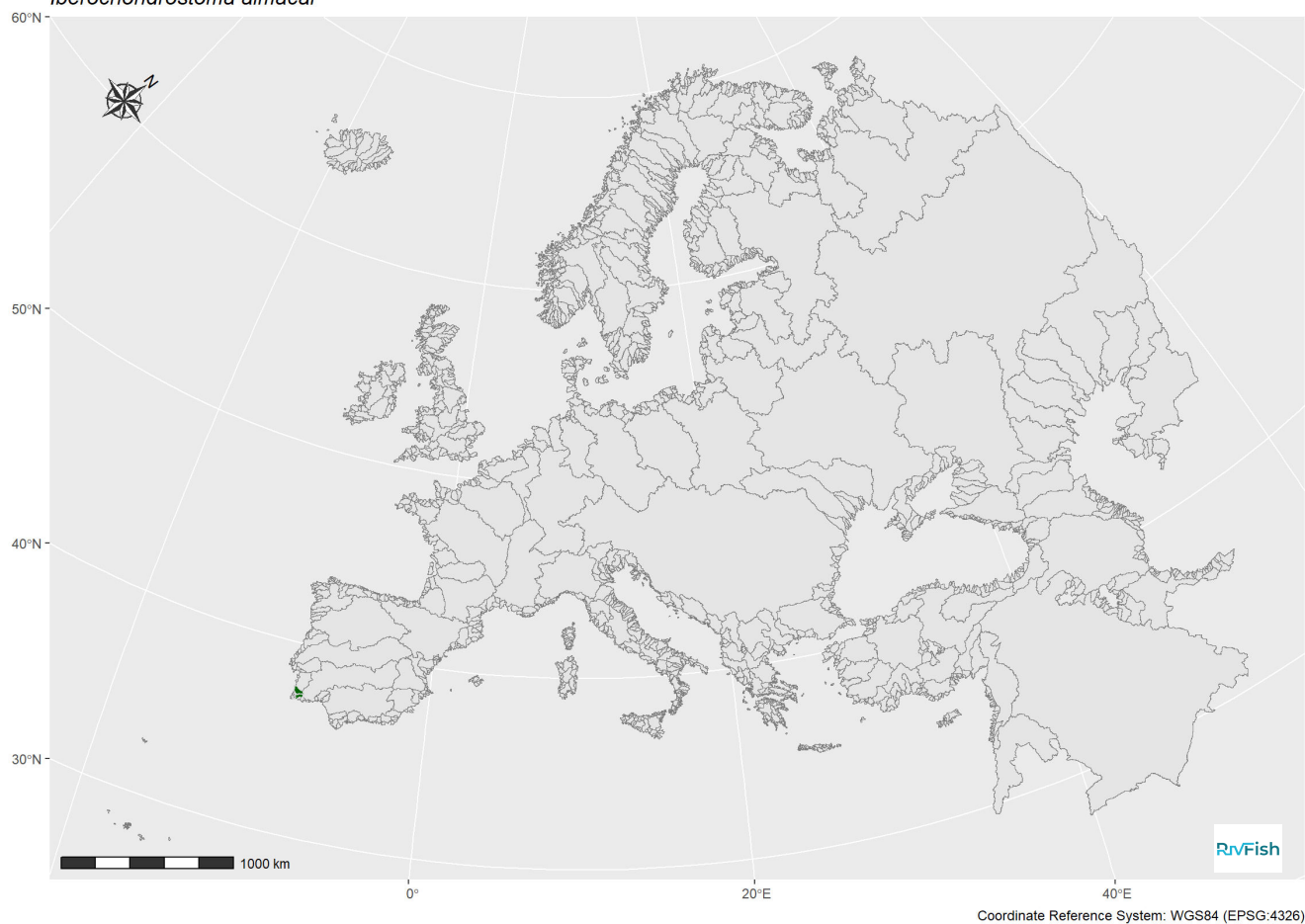


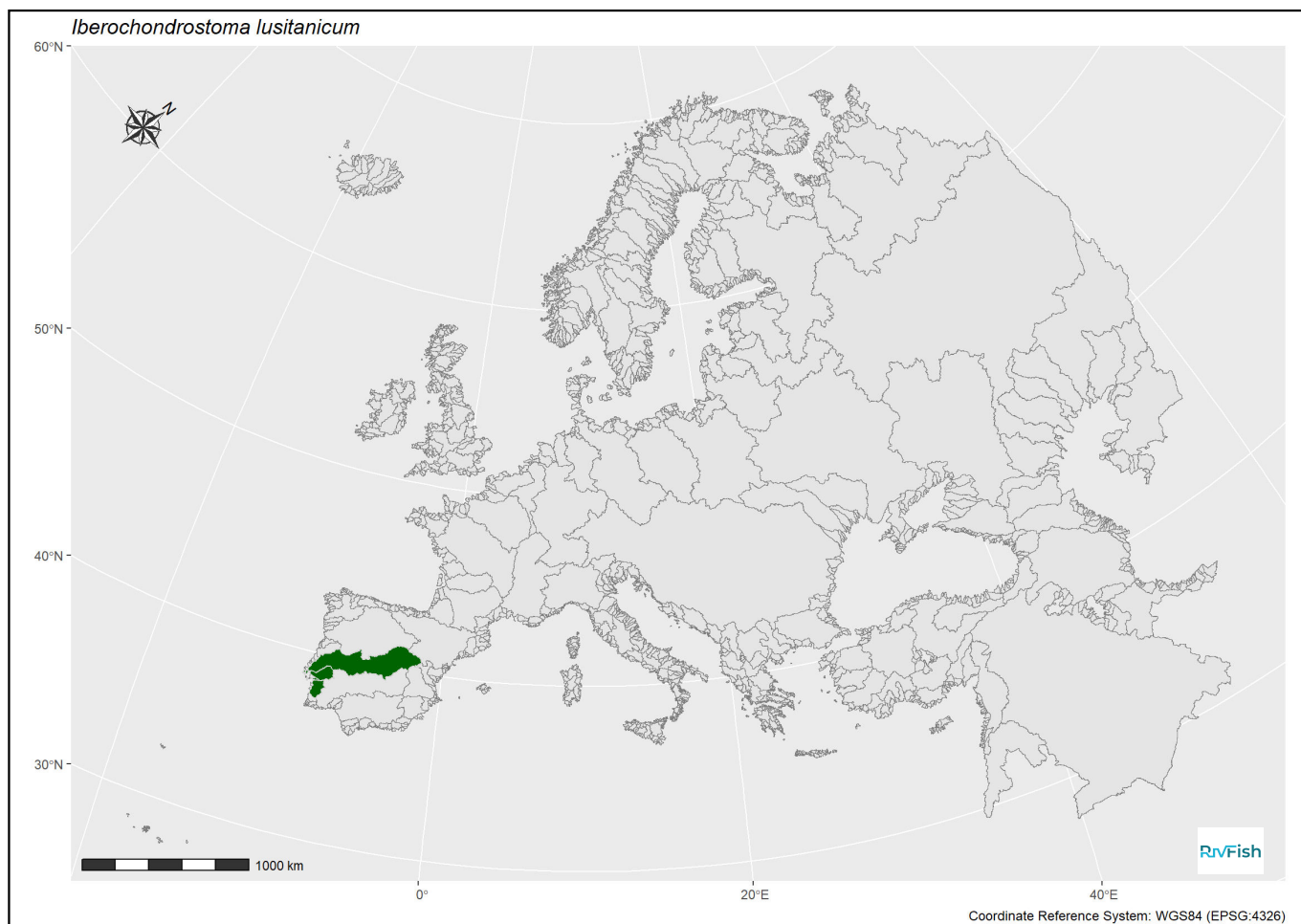
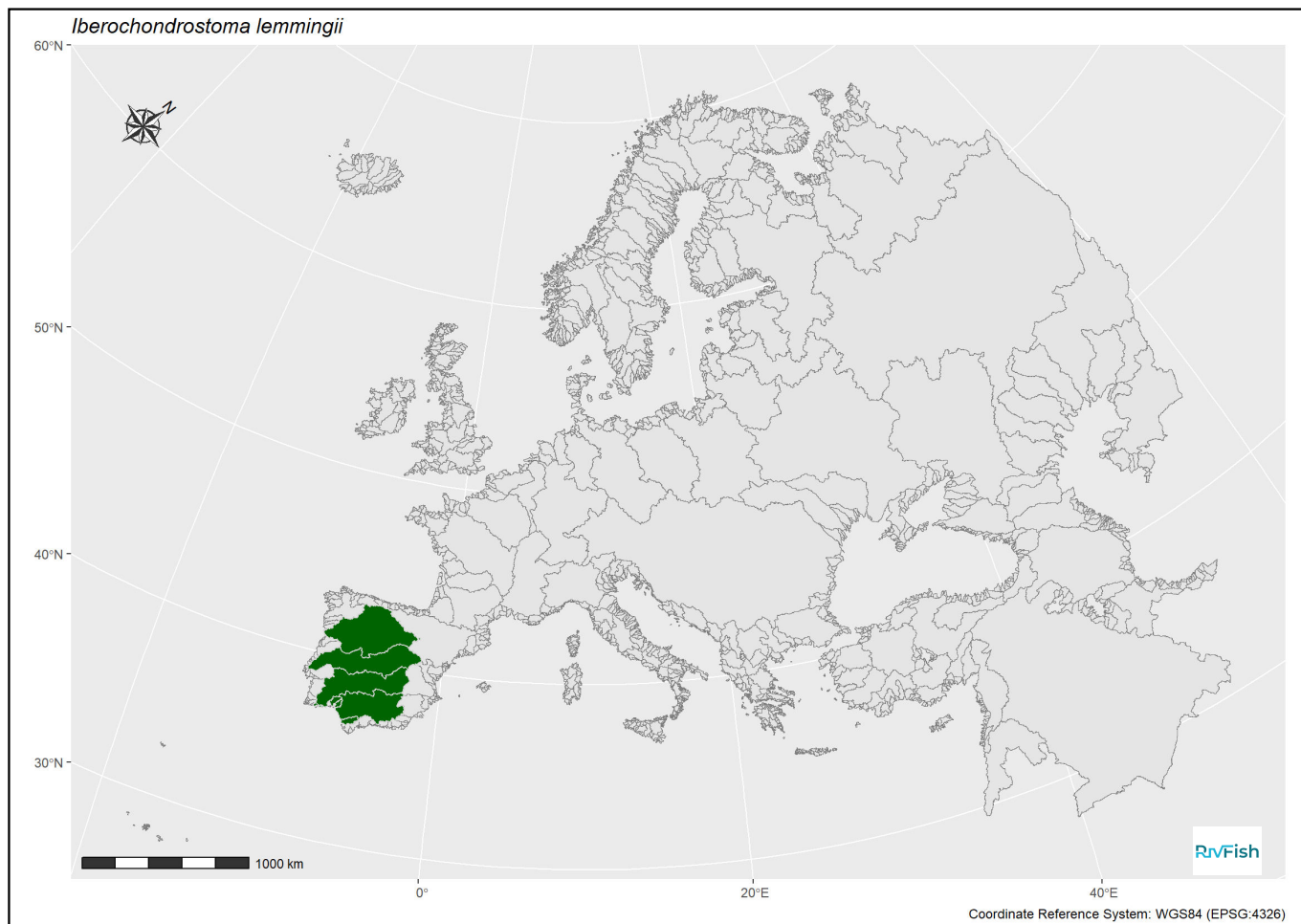


Hyrcanogobius bergi

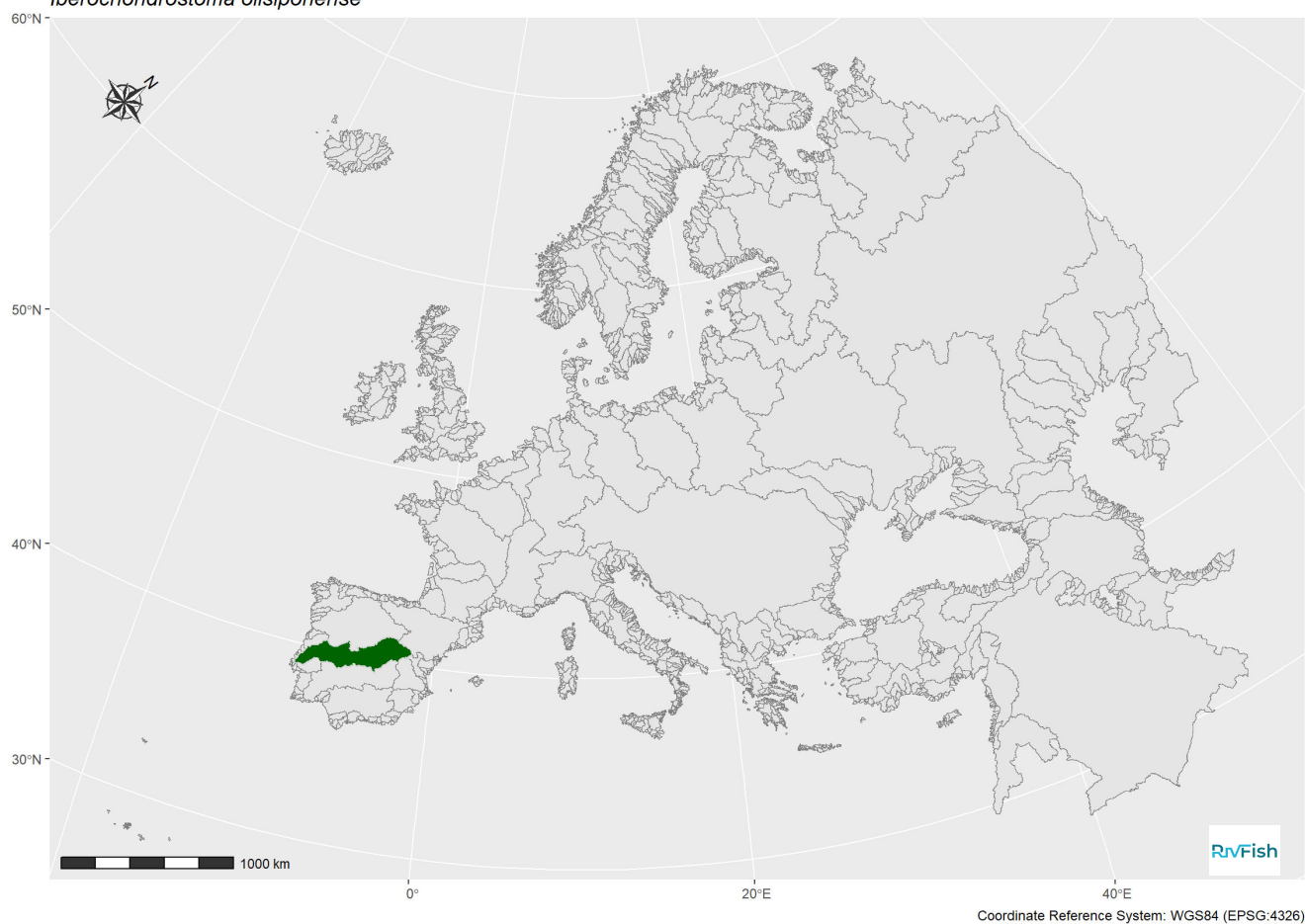


Iberochondrostoma almakai

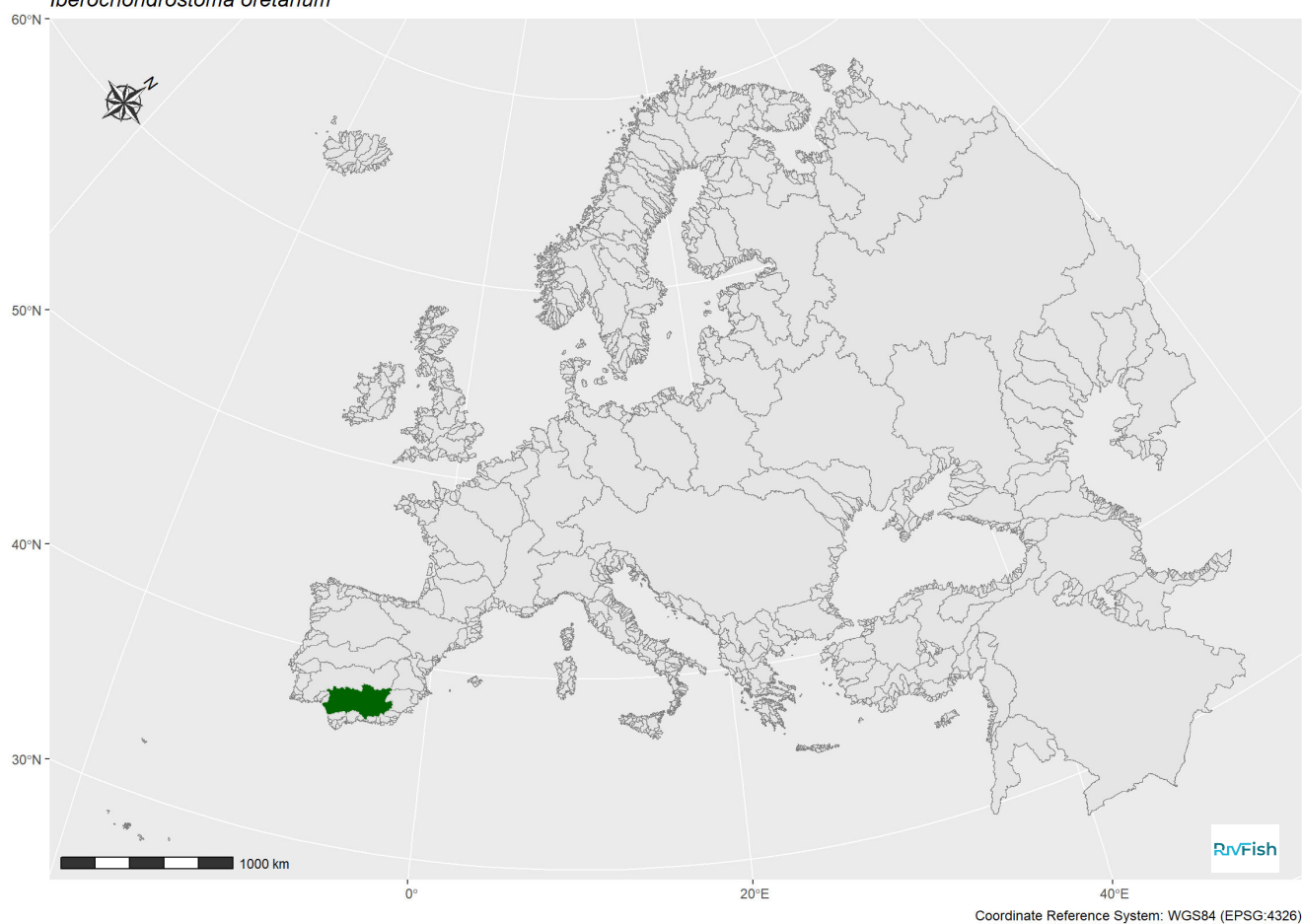




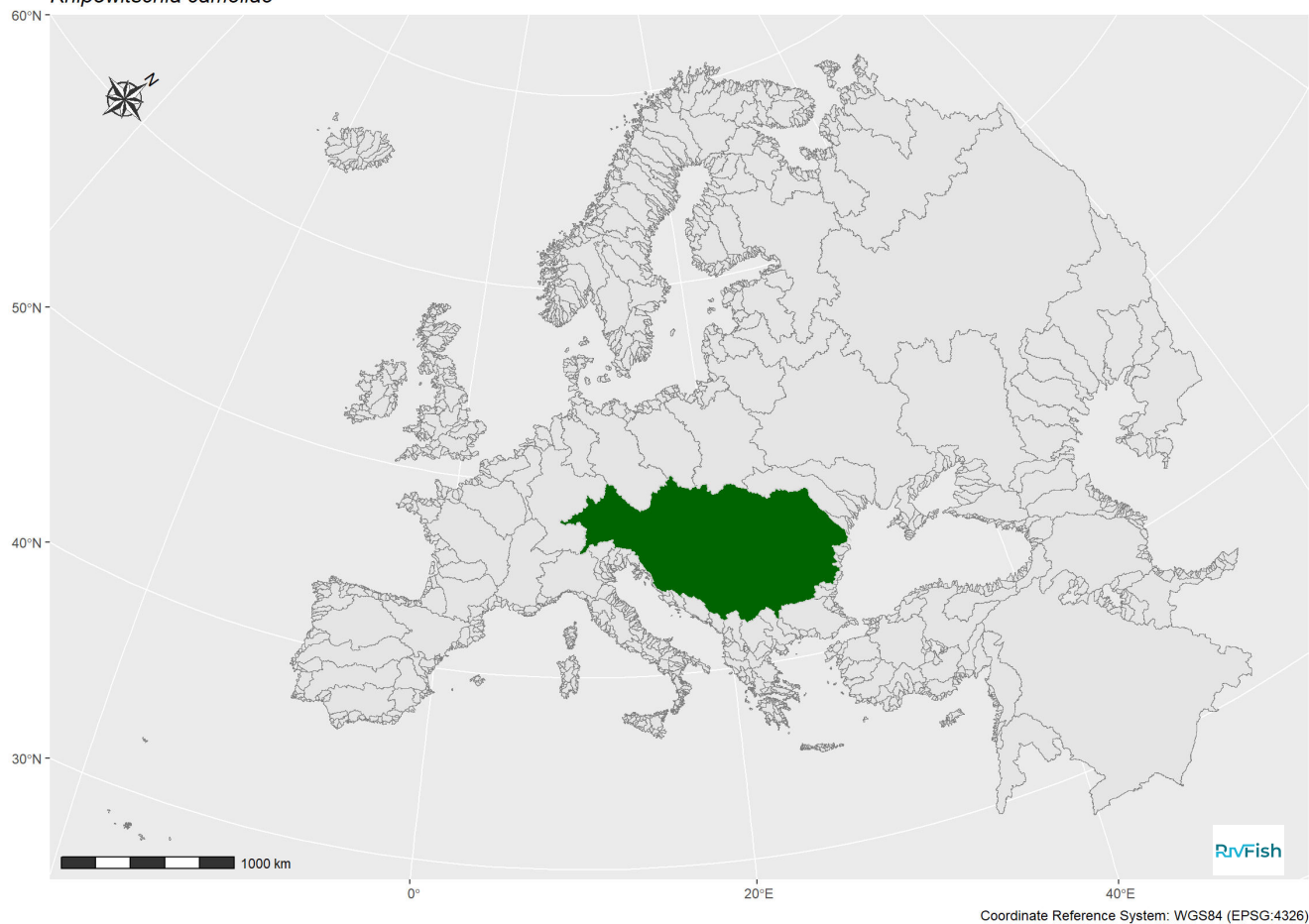
Iberochondrostoma olisiponense



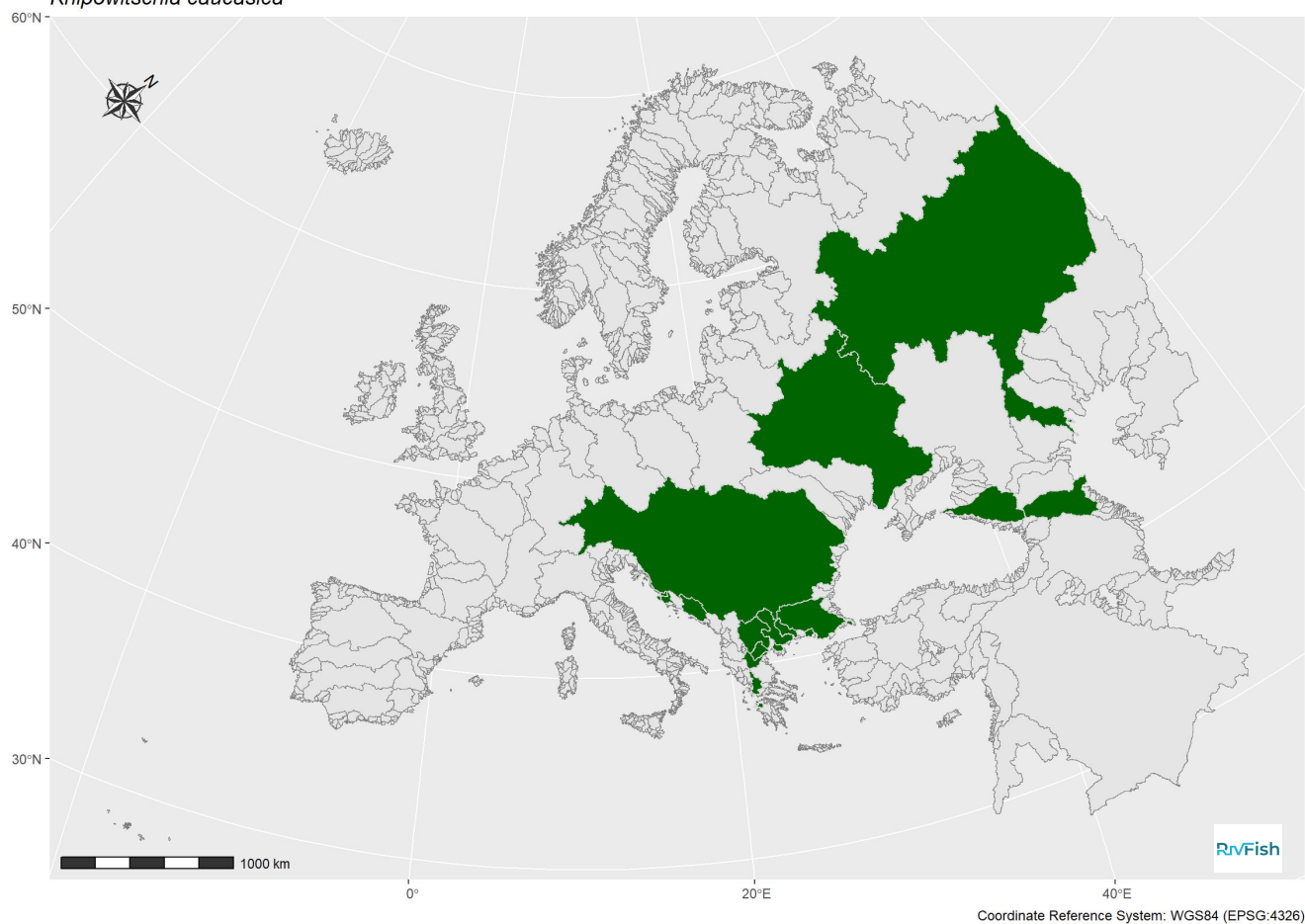
Iberochondrostoma oretanum



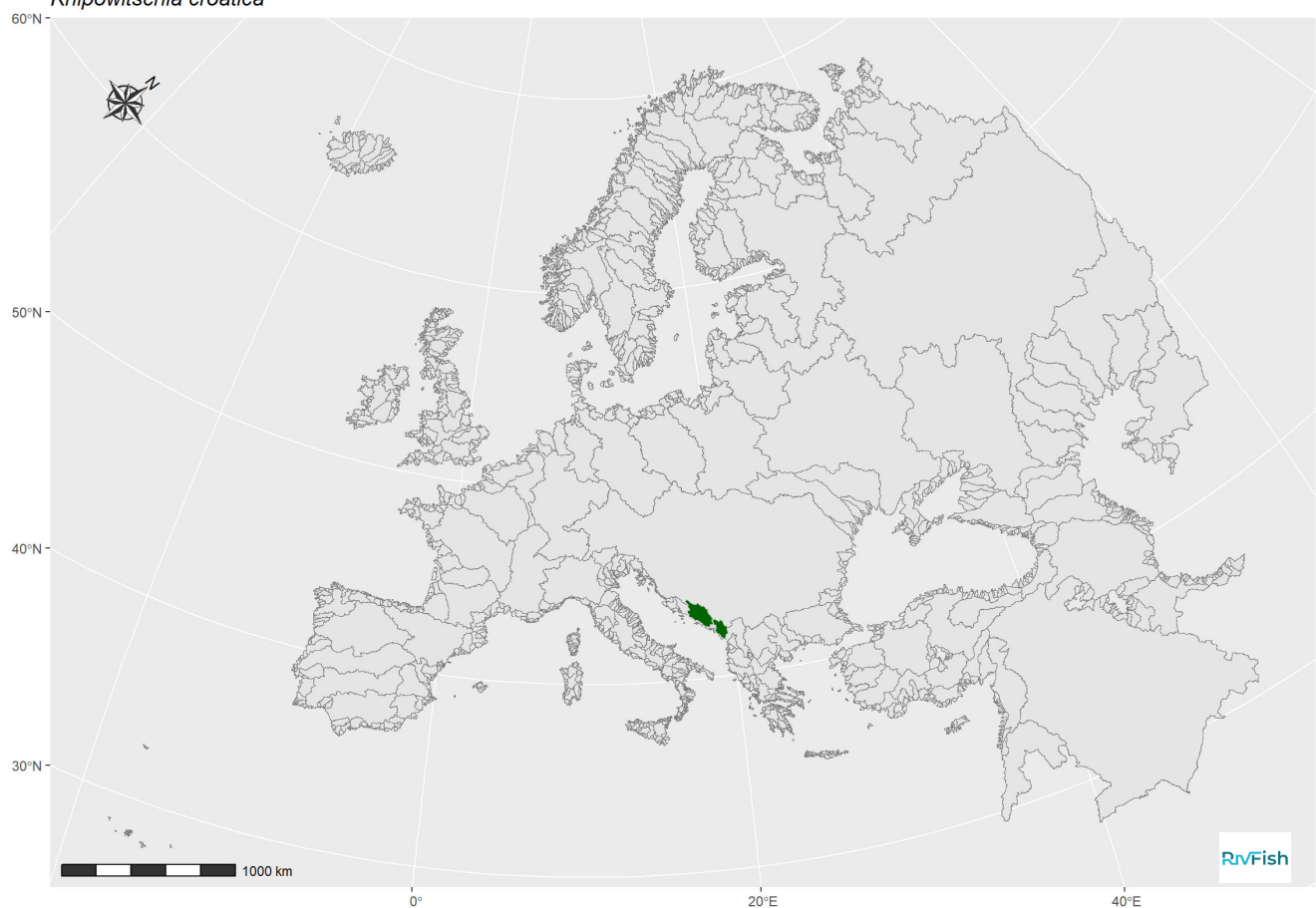
Knipowitschia cameliae



Knipowitschia caucasica



Knipowitschia croatica



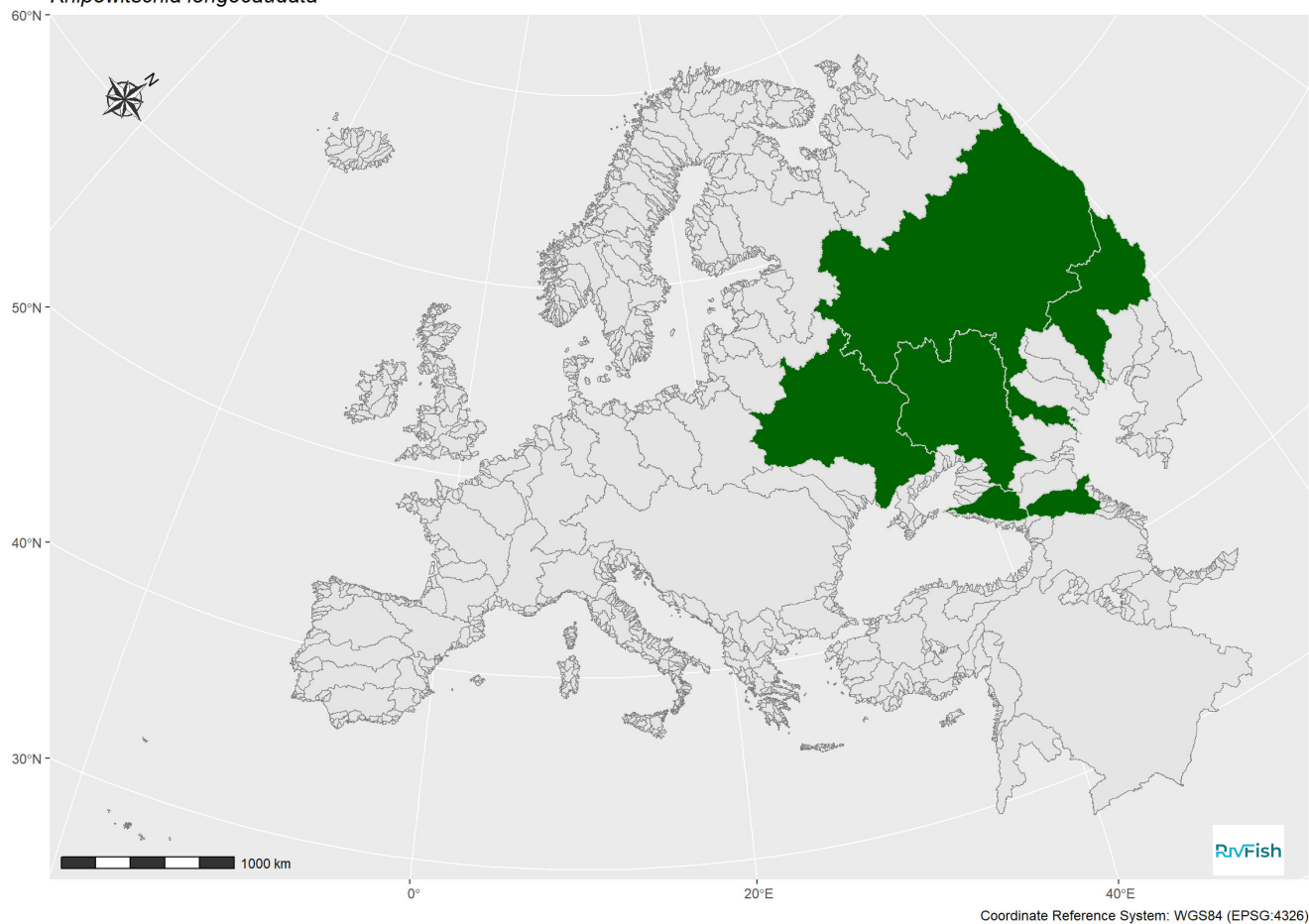
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Knipowitschia goerneri

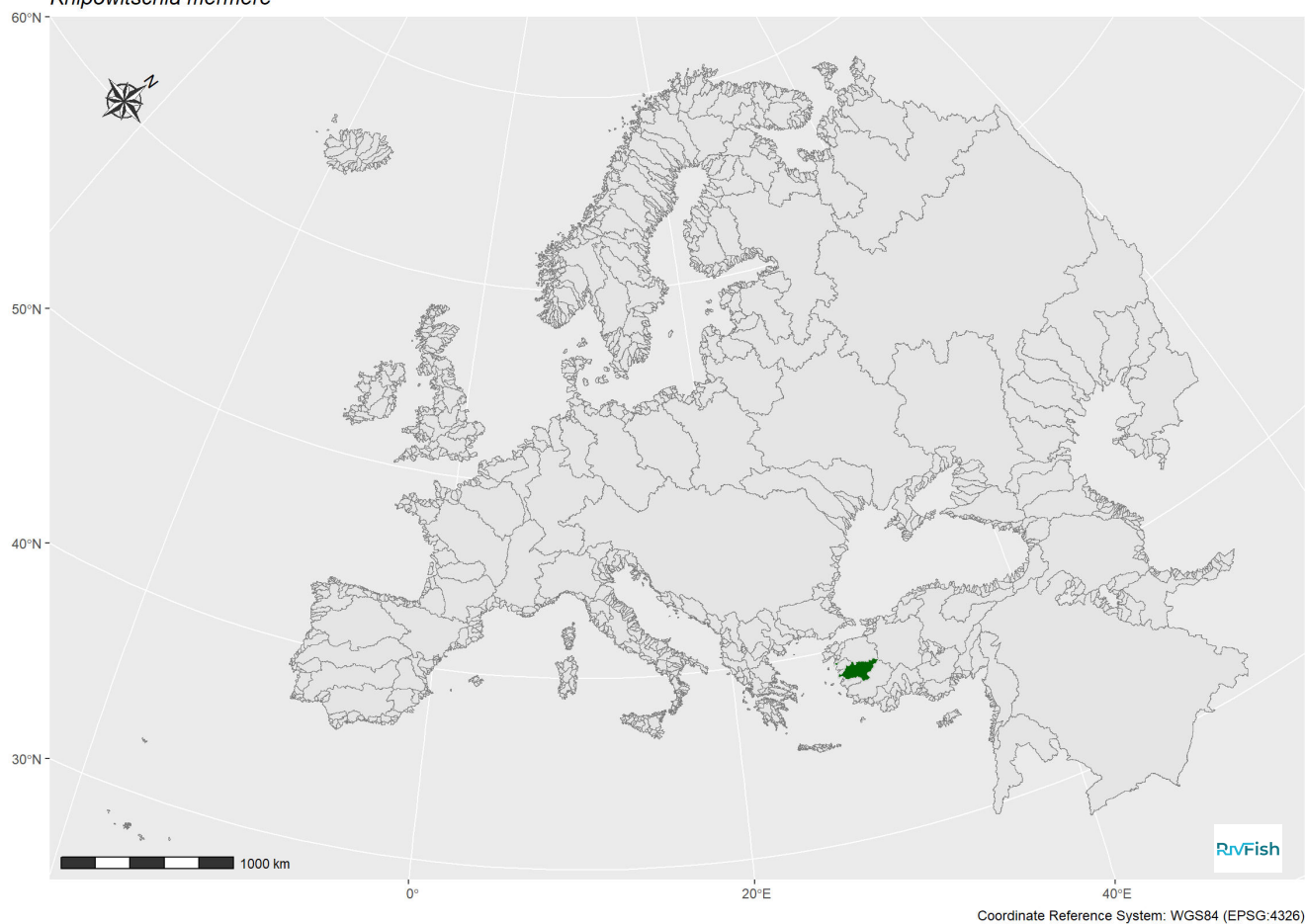


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Knipowitschia longicaudata



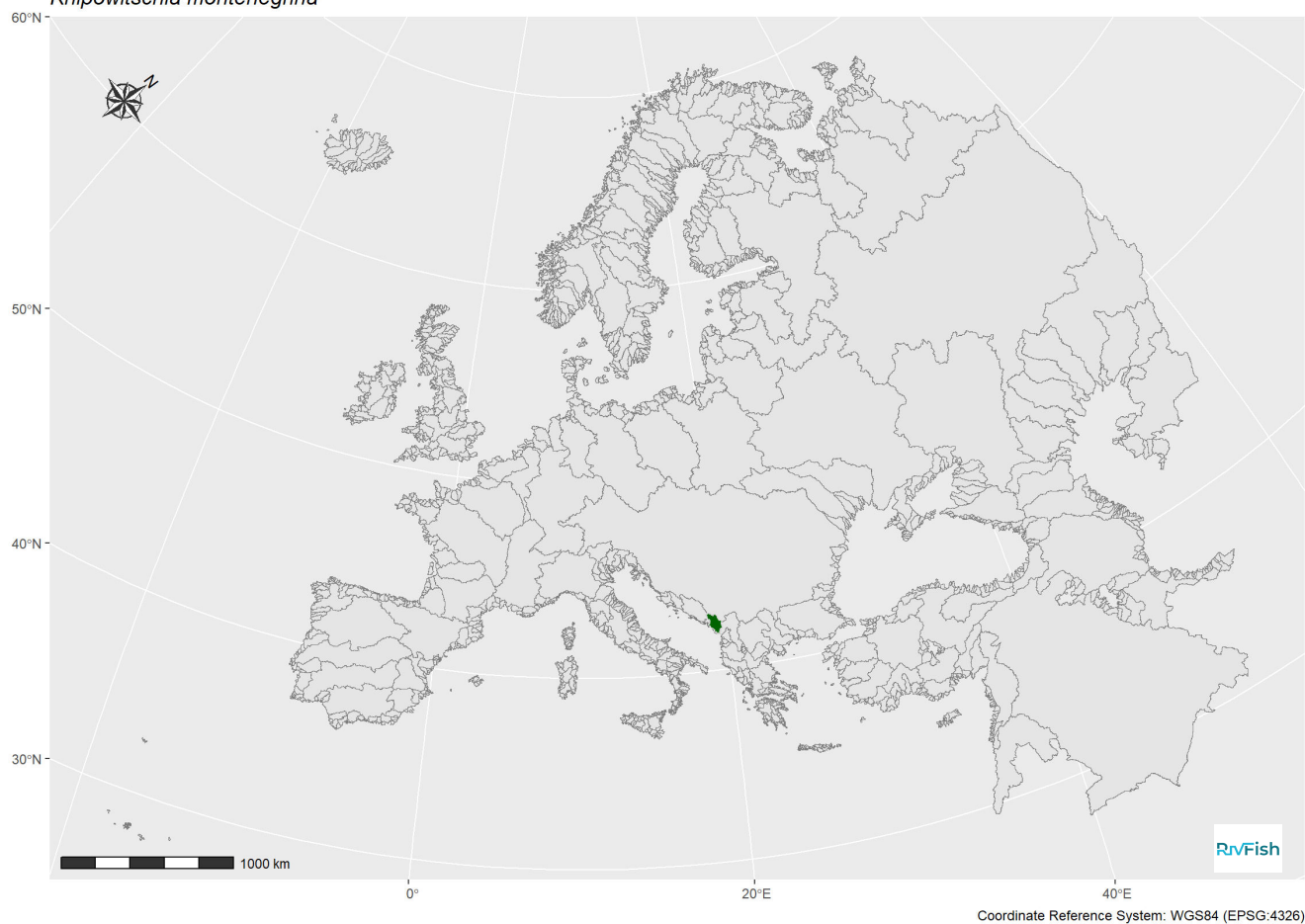
Knipowitschia mermere



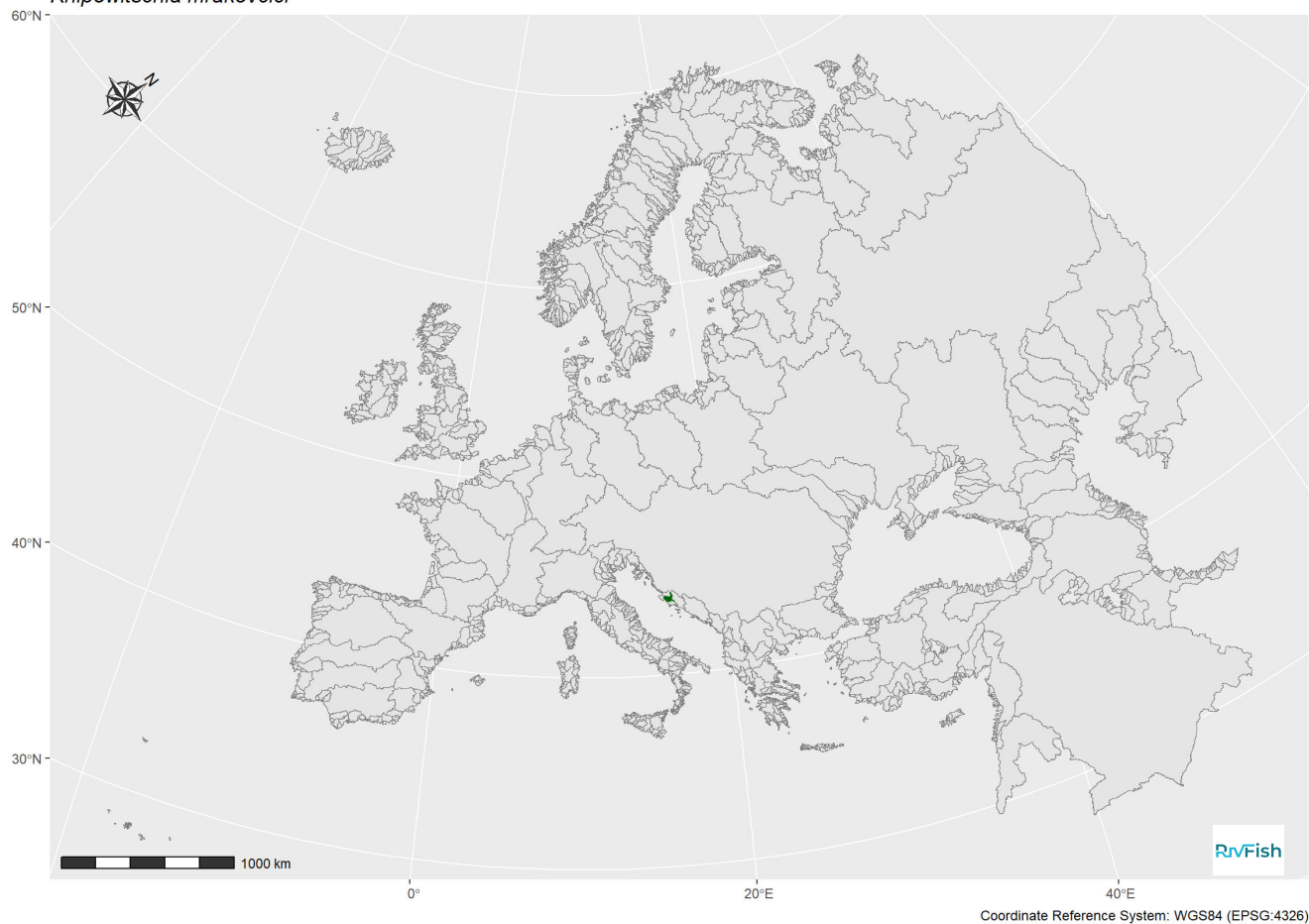
Knipowitschia milleri



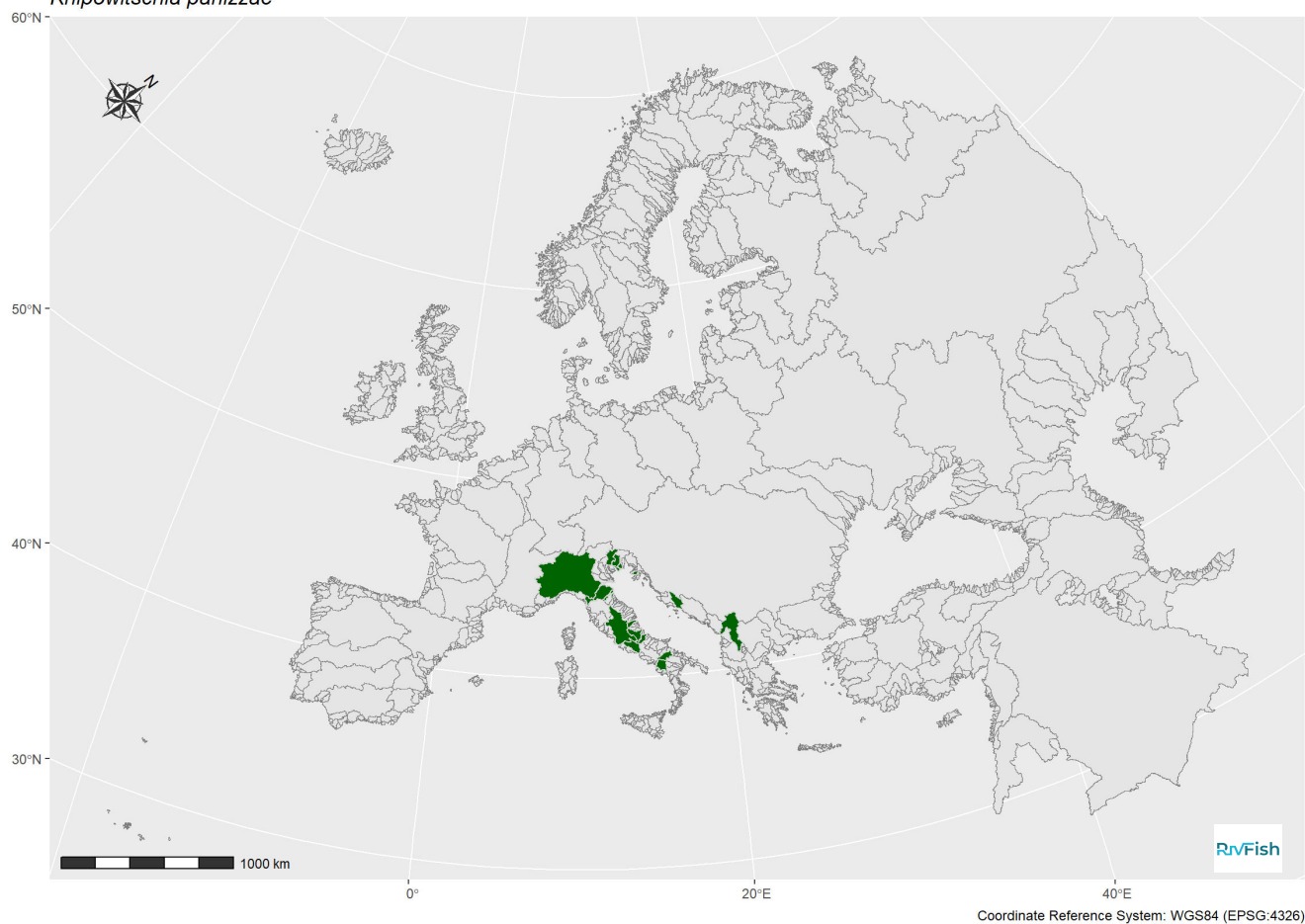
Knipowitschia montenegrina



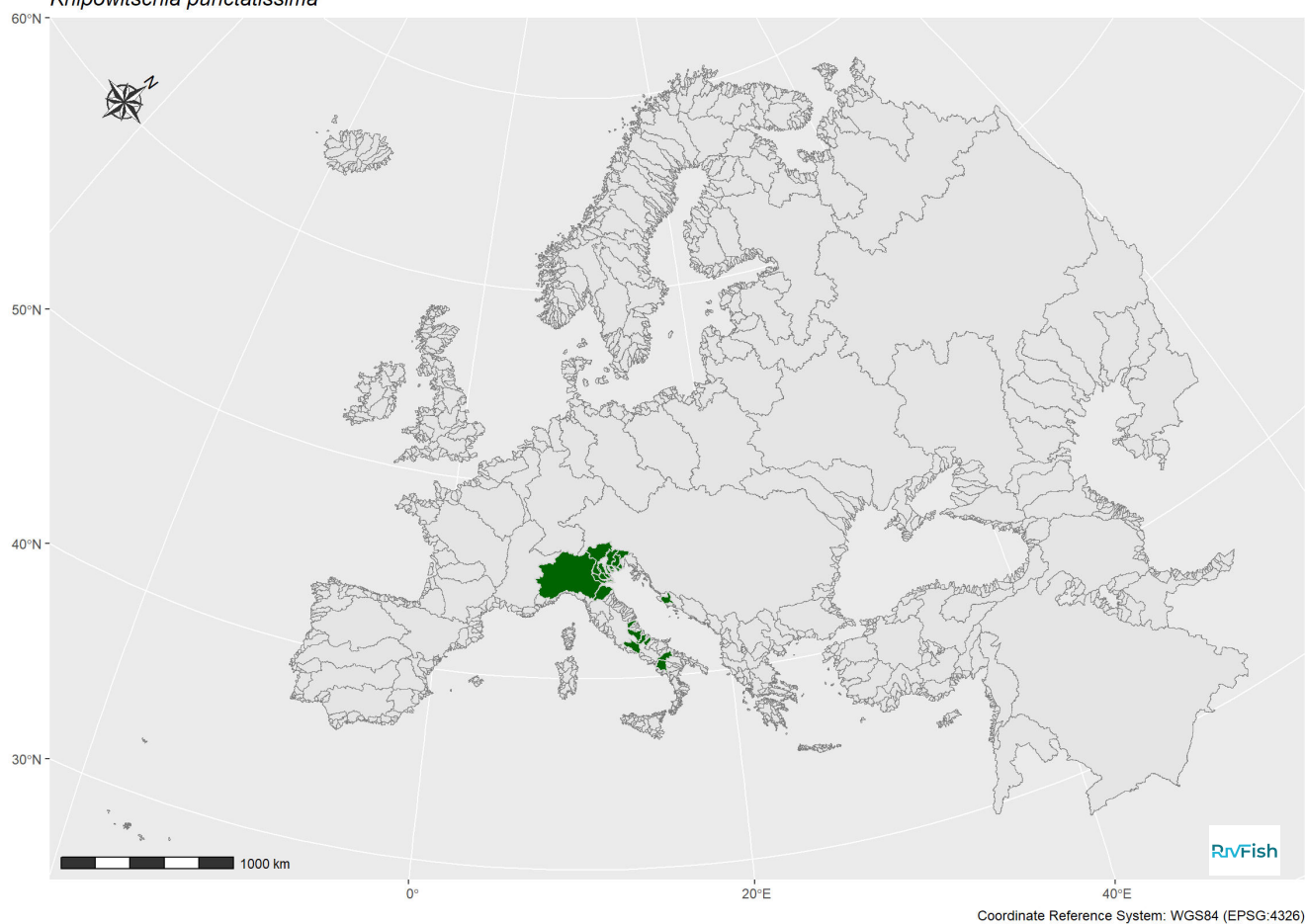
Knipowitschia mrakovcici



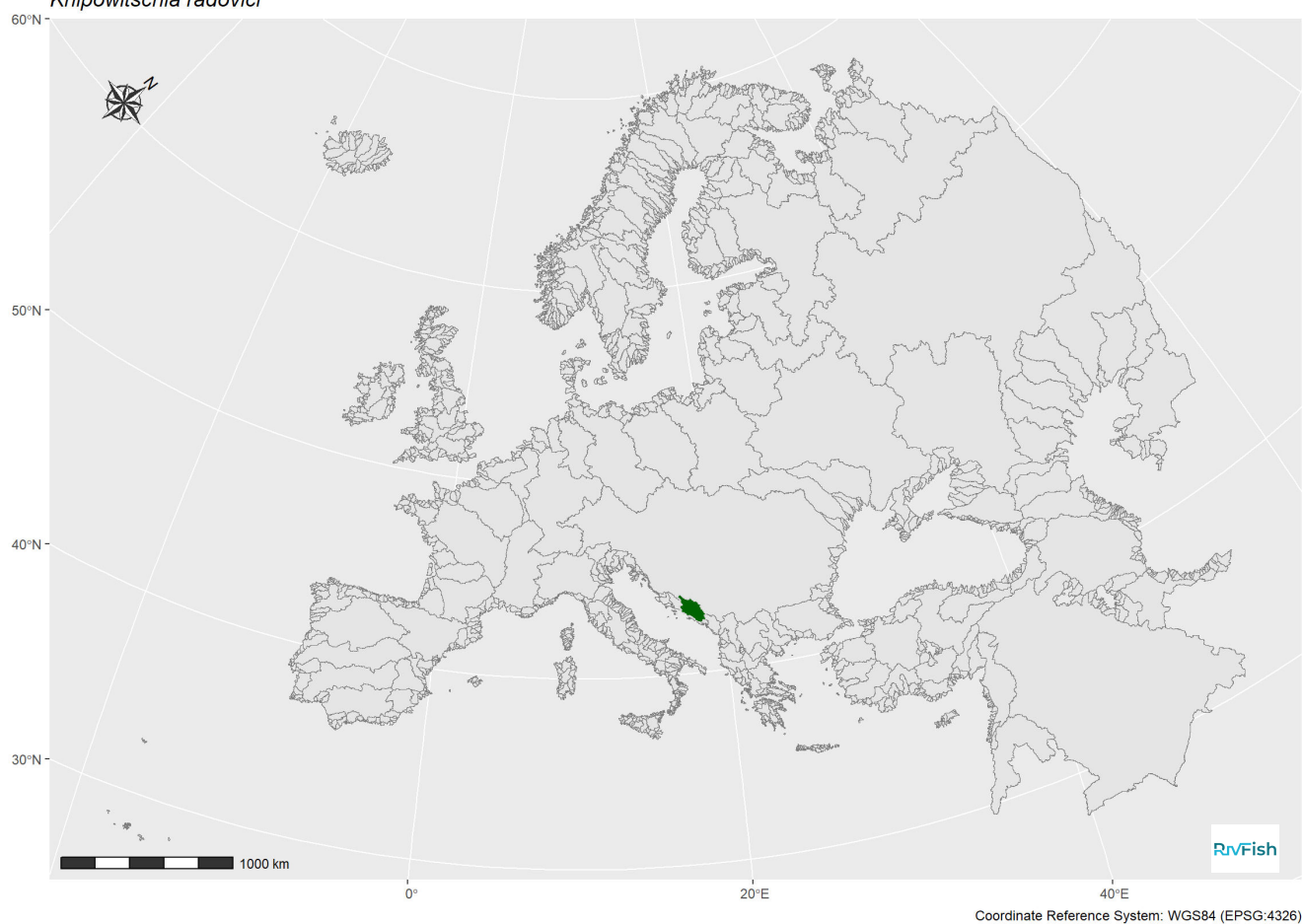
Knipowitschia panizzae



Knipowitschia punctatissima



Knipowitschia radovici

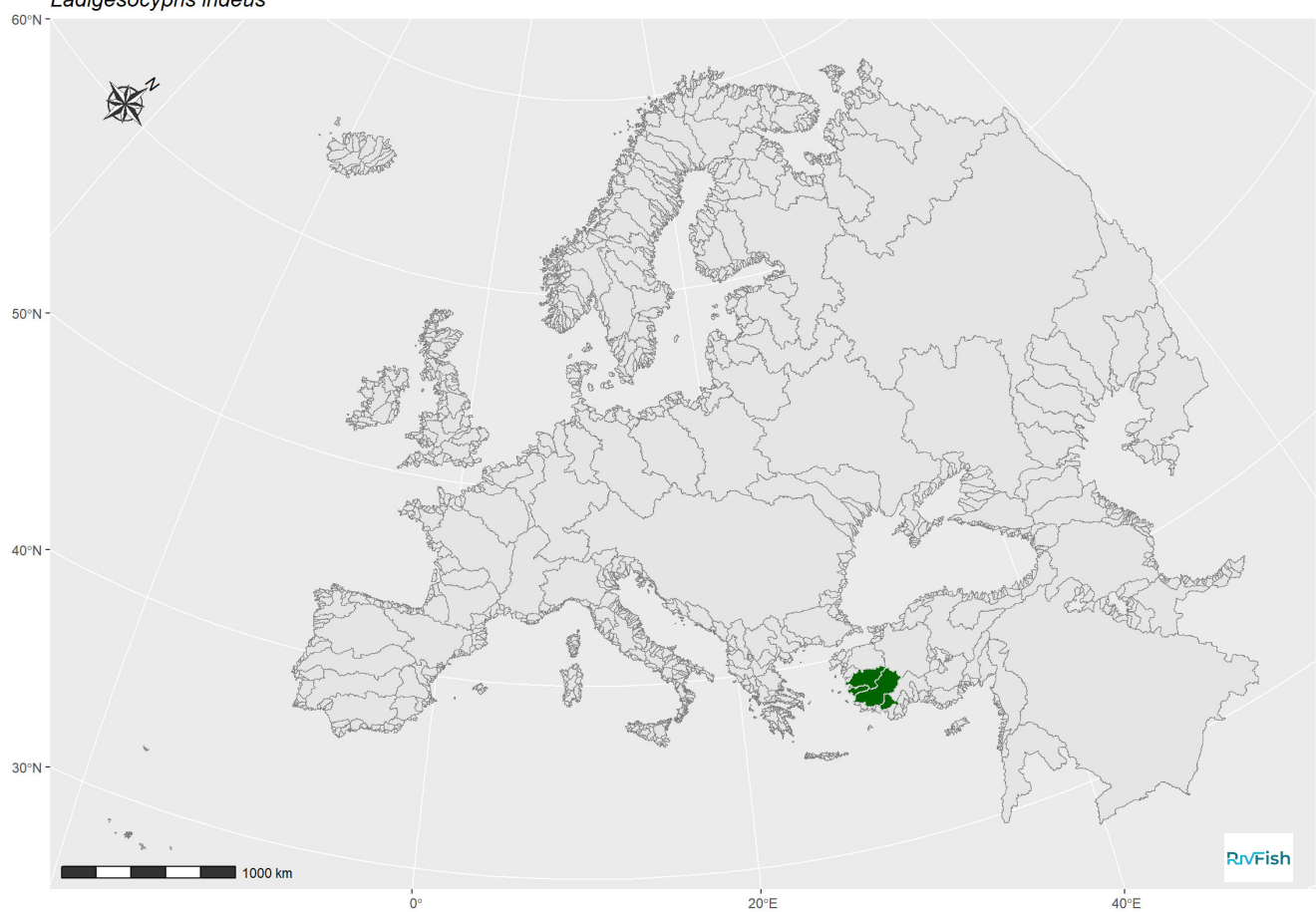


Knipowitschia thessala



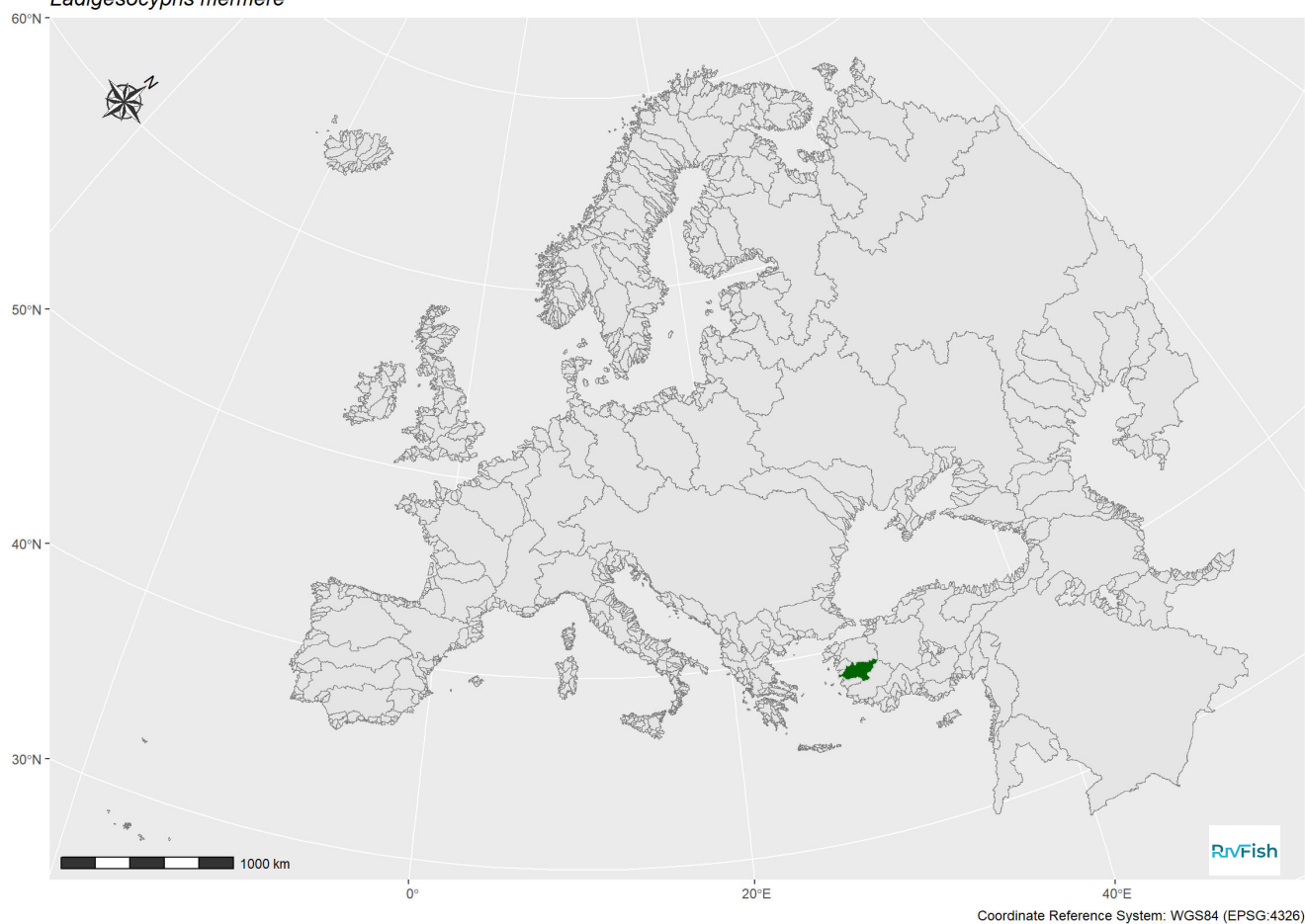
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Ladigesocypris irideus



Coordinate Reference System: WGS84 (EPSG:4326)

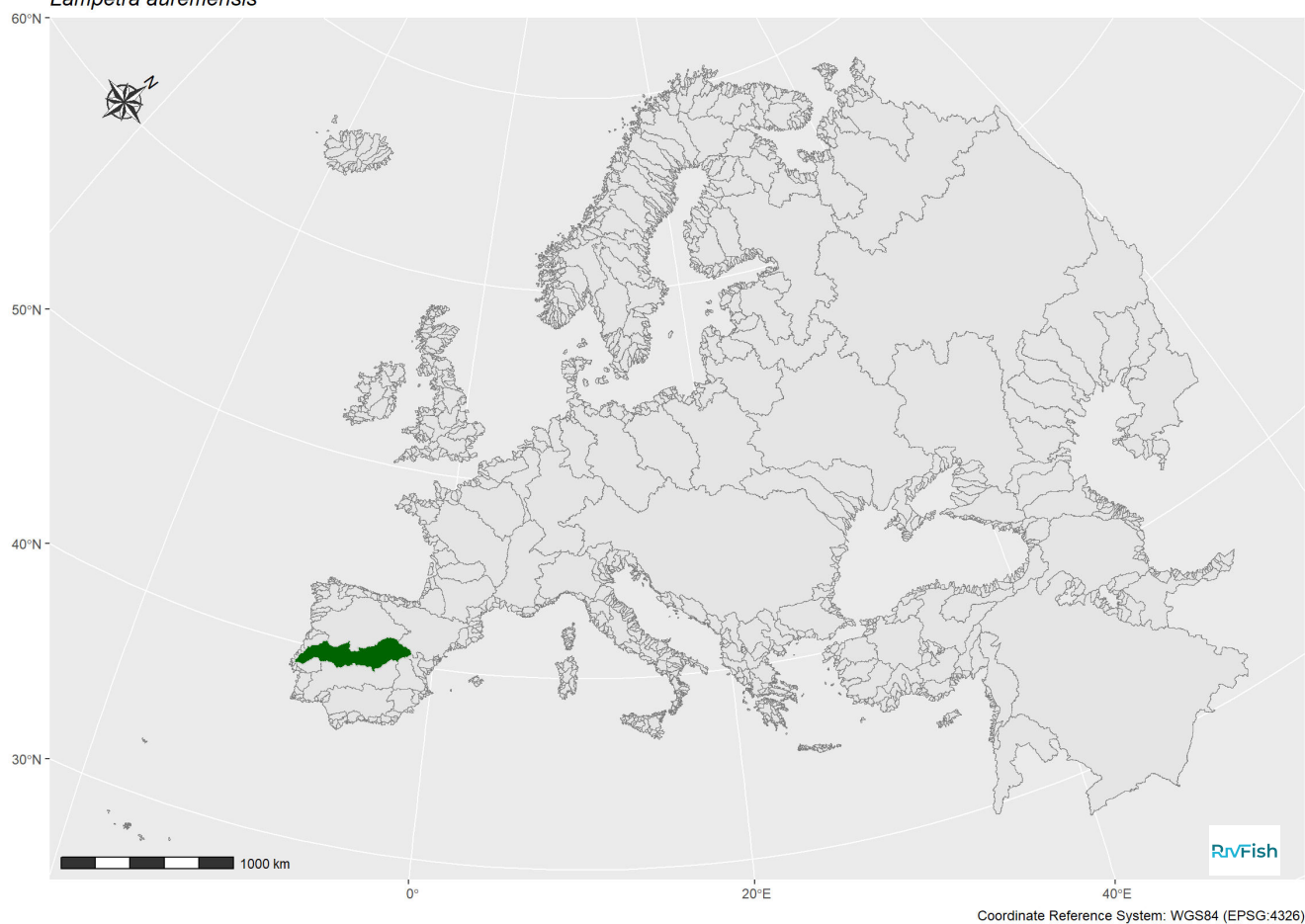
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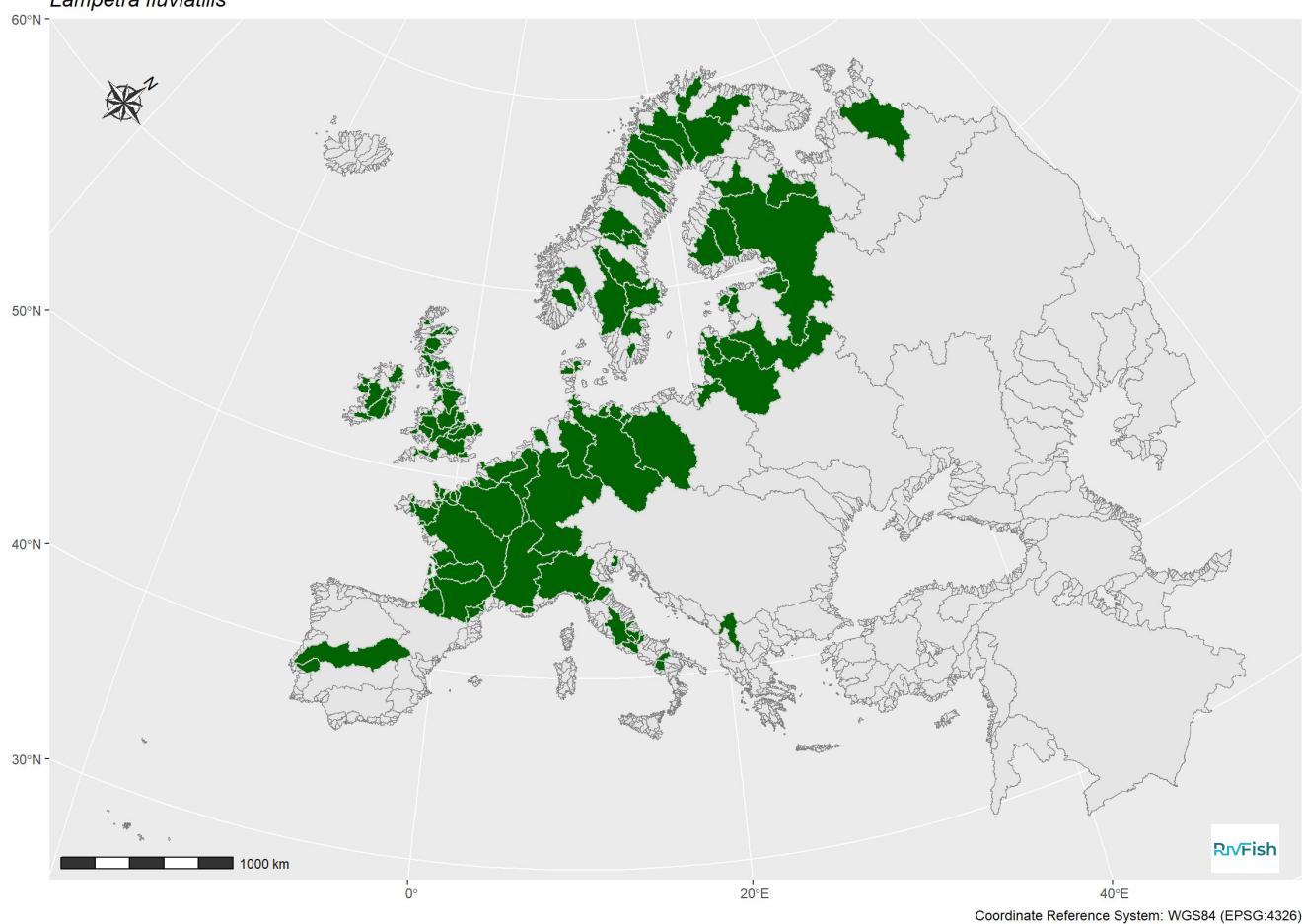
Lampetra alavariensis



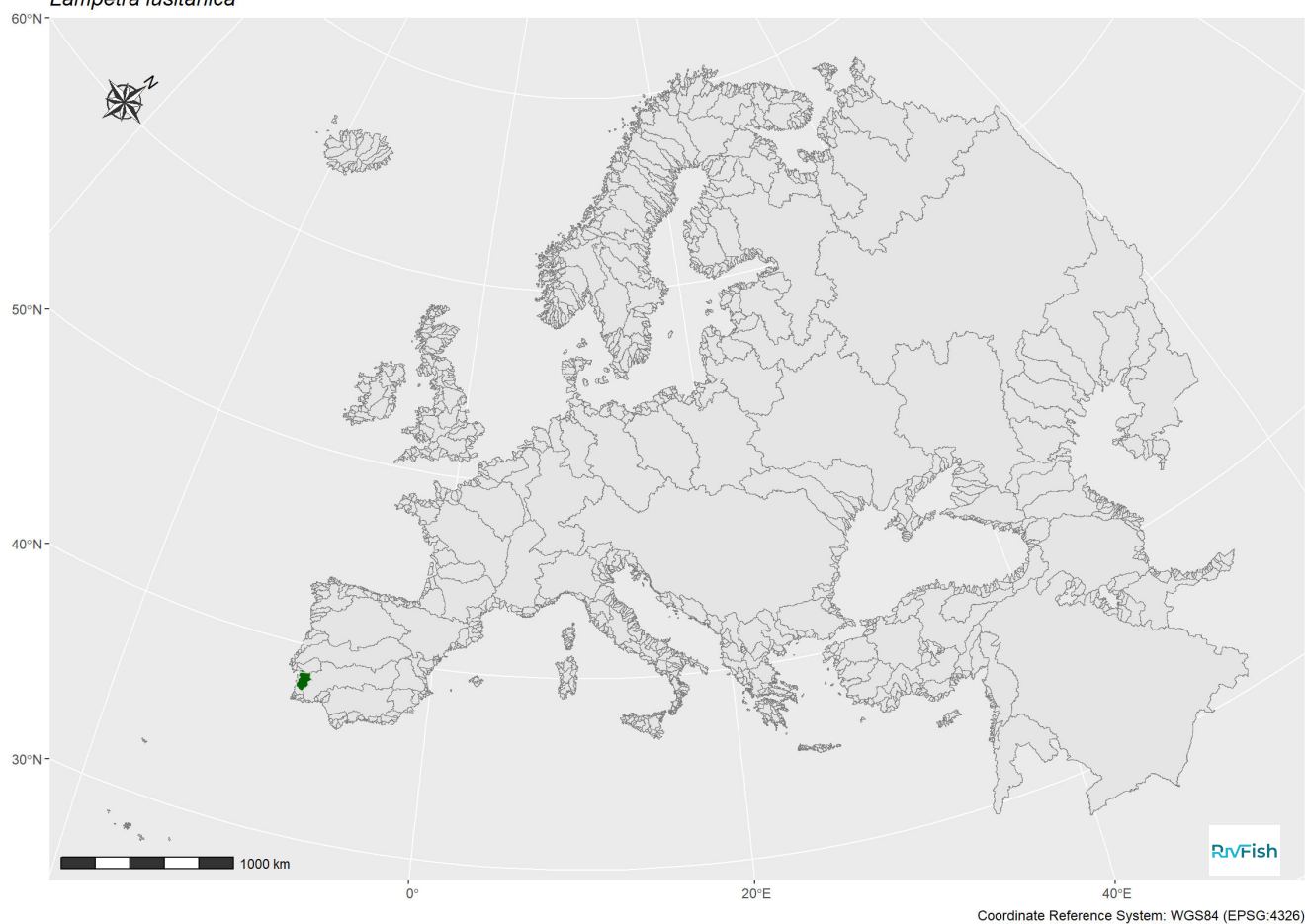
Lampetra auremensis



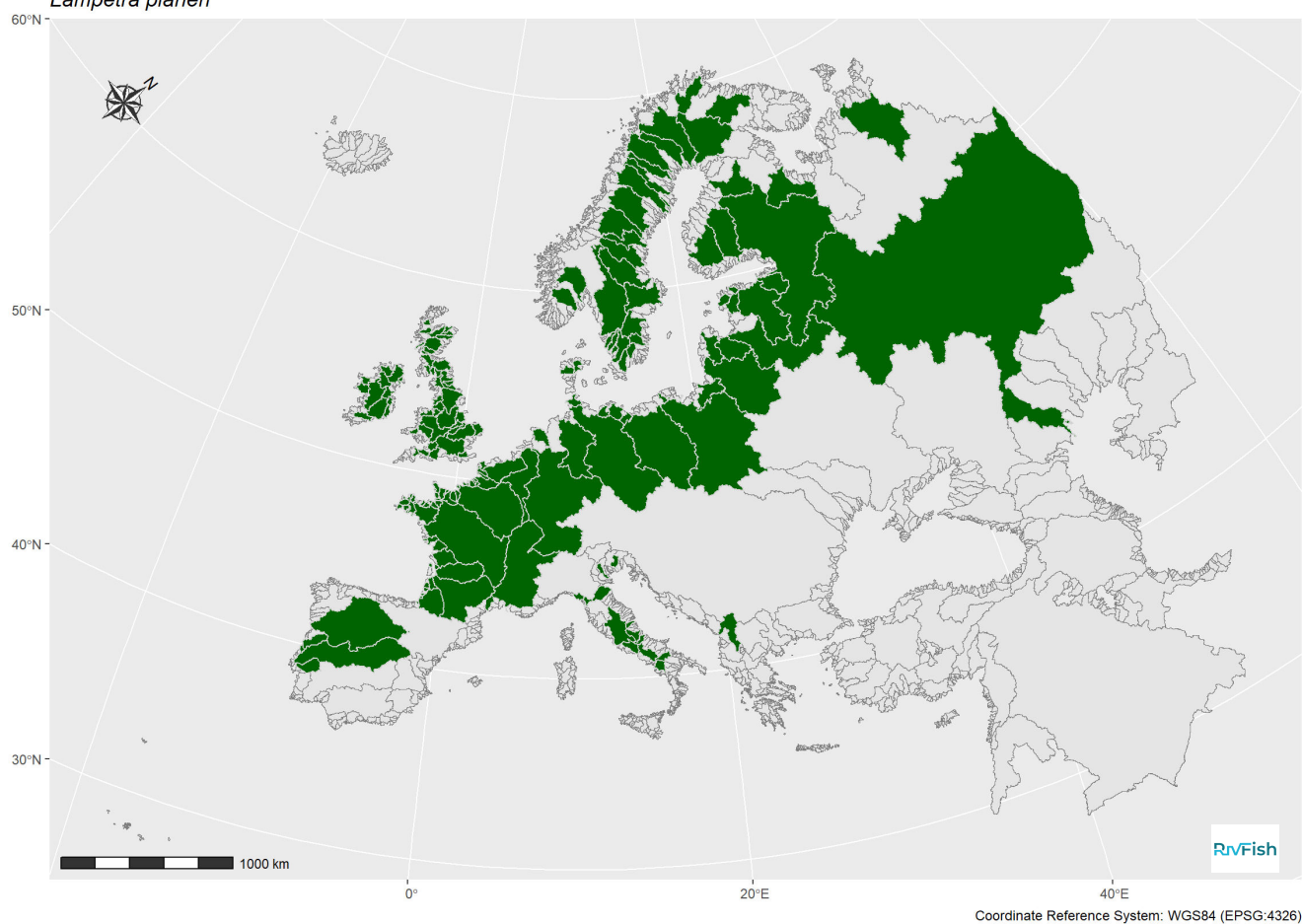
Lampetra fluviatilis

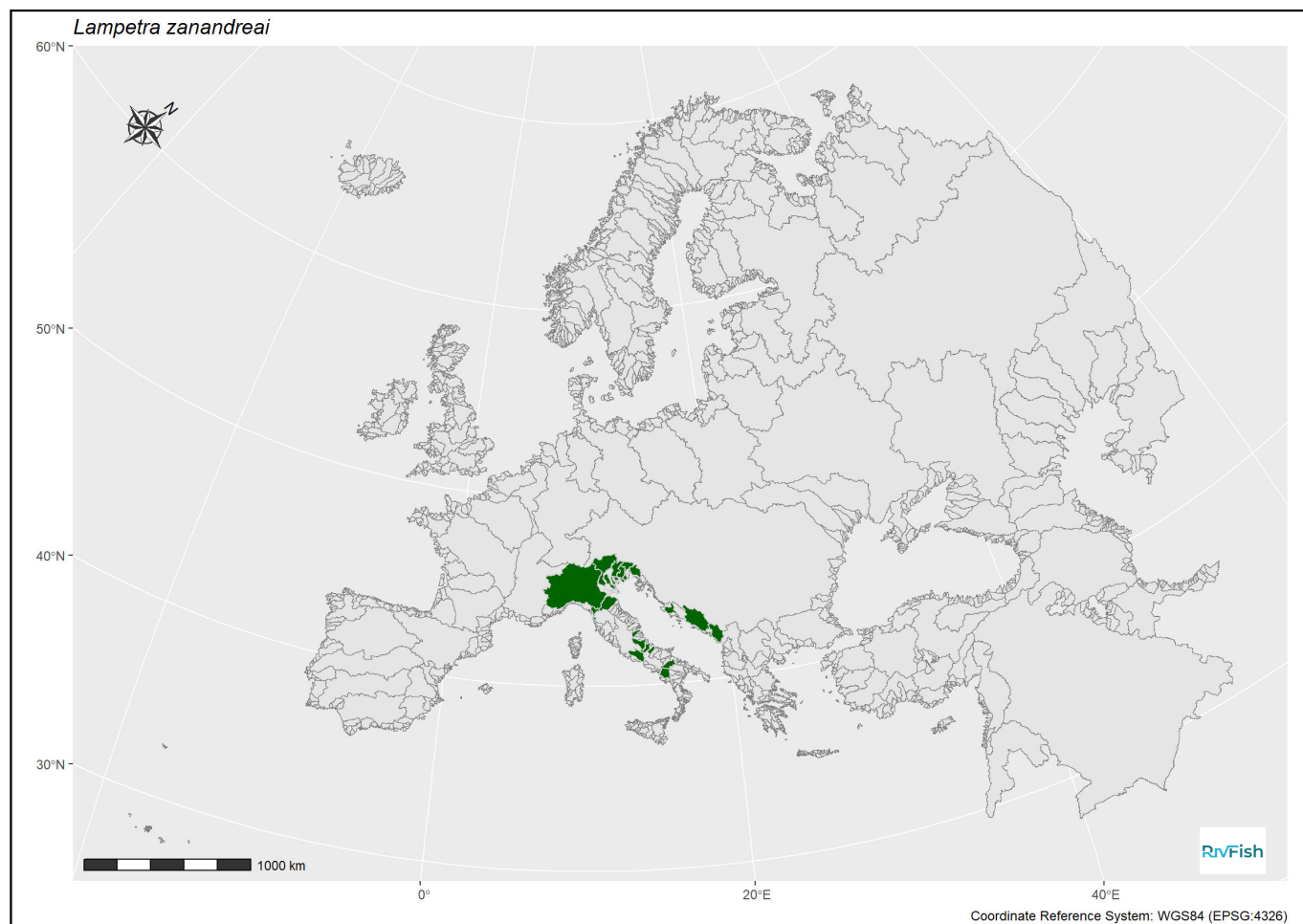
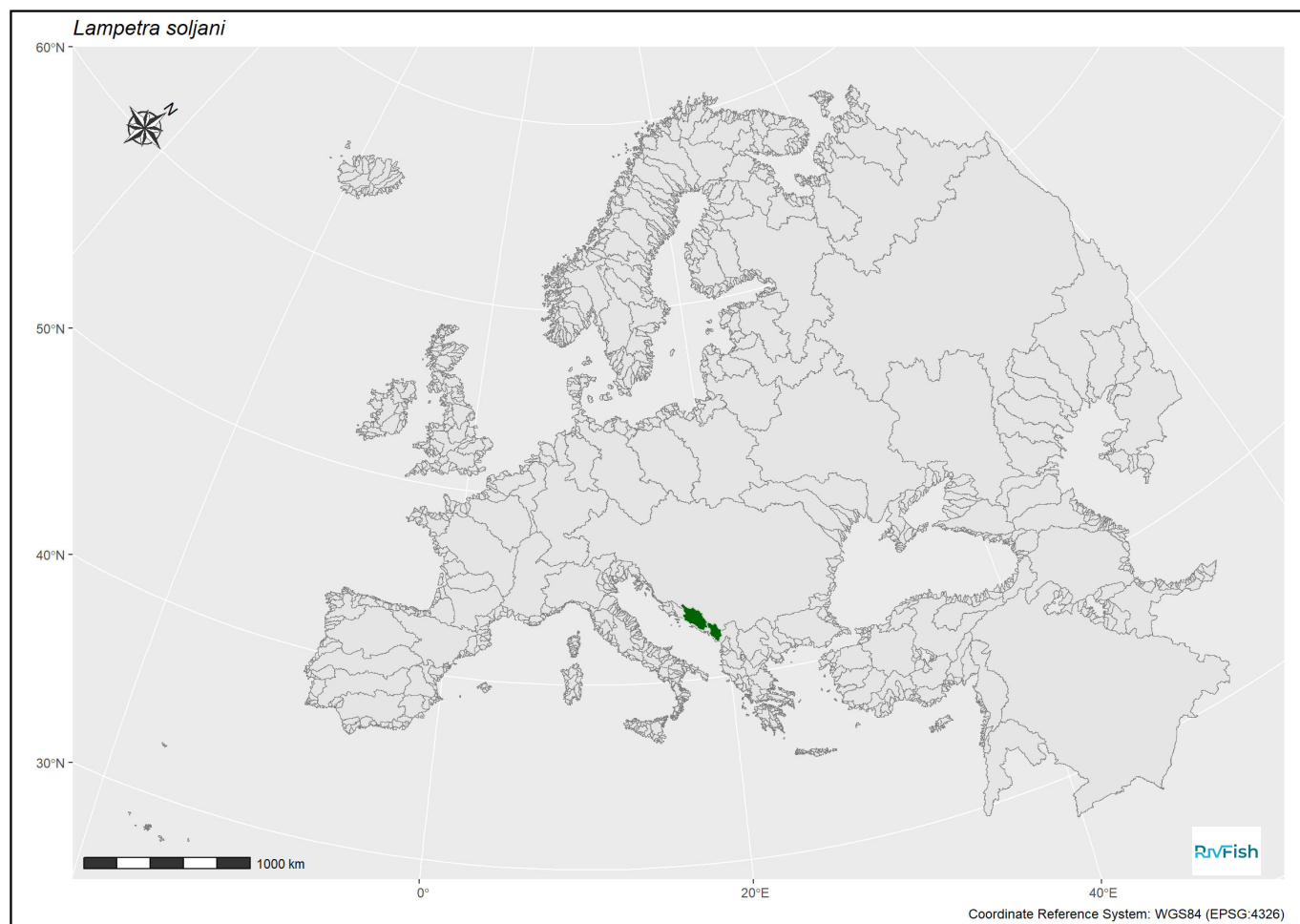


Lampetra lusitanica

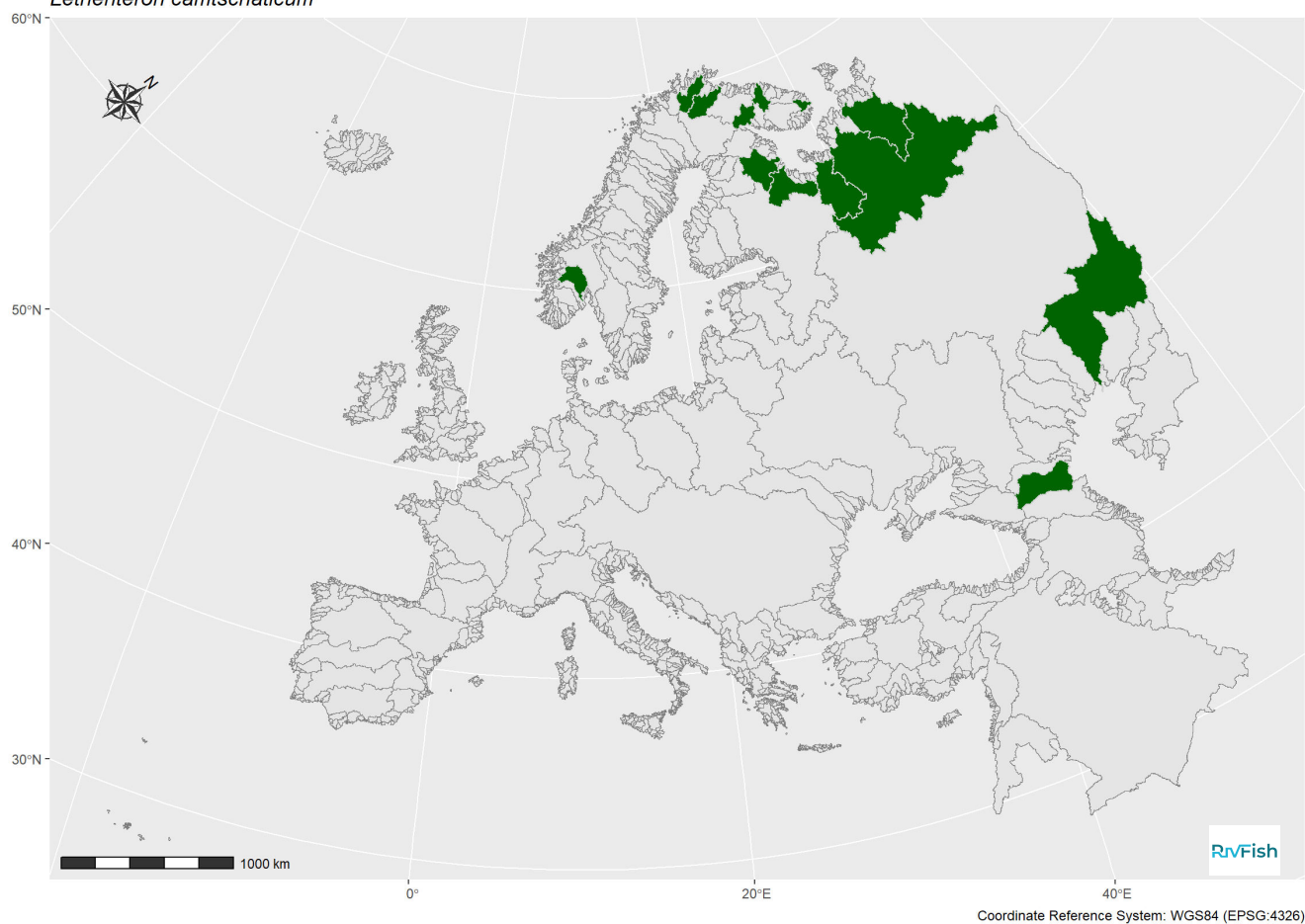


Lampetra planeri

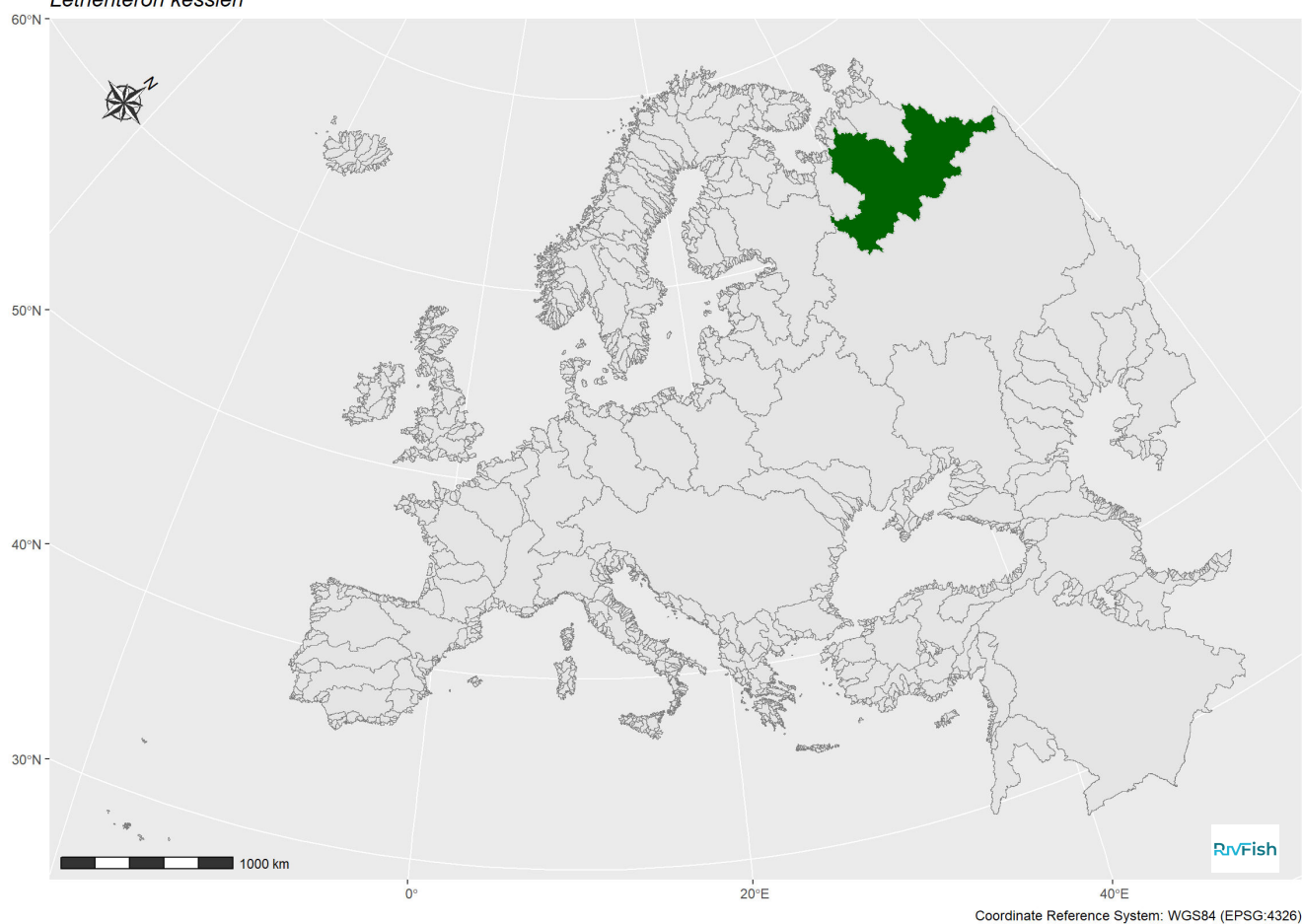




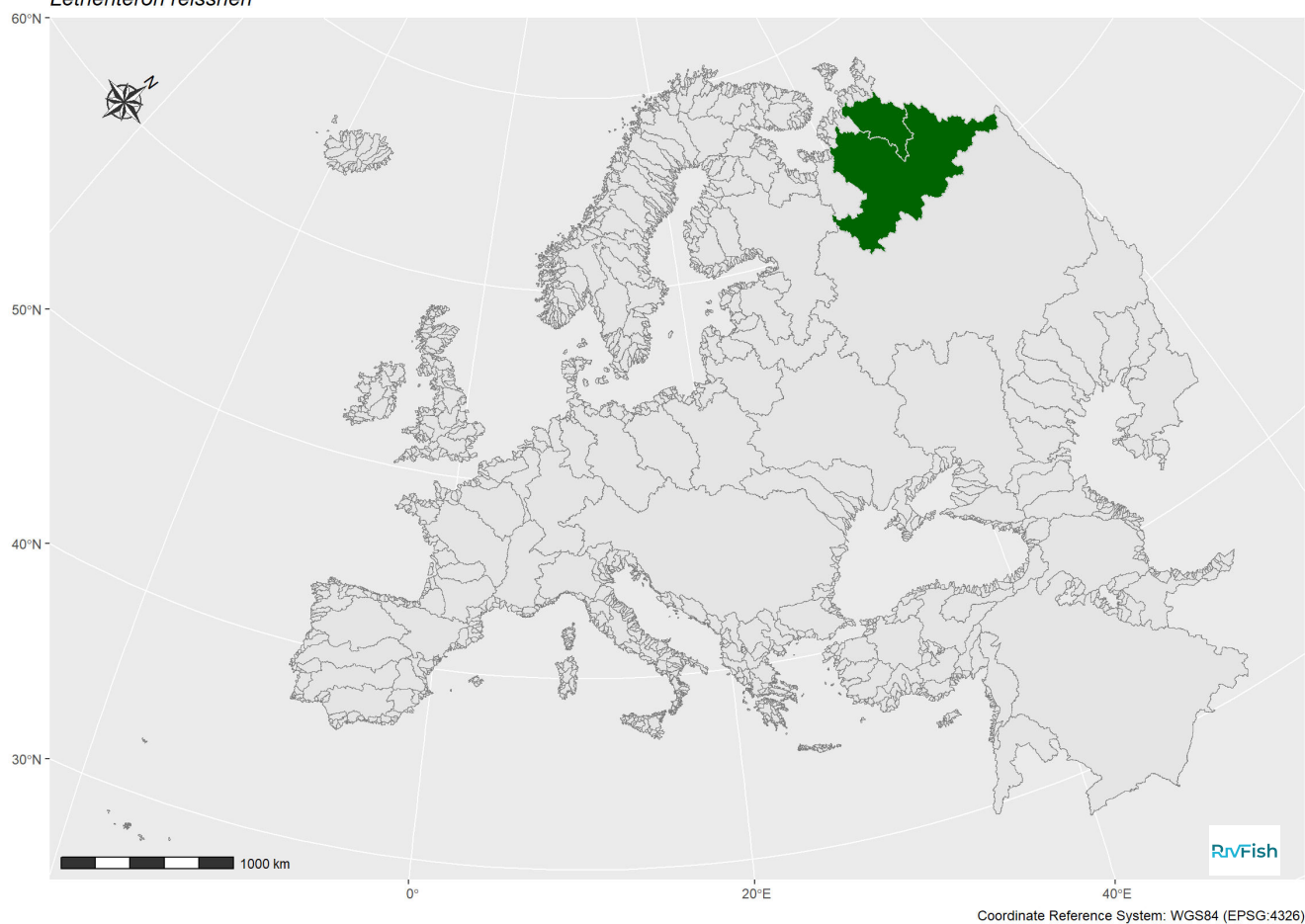
Lethenteron camtschaticum



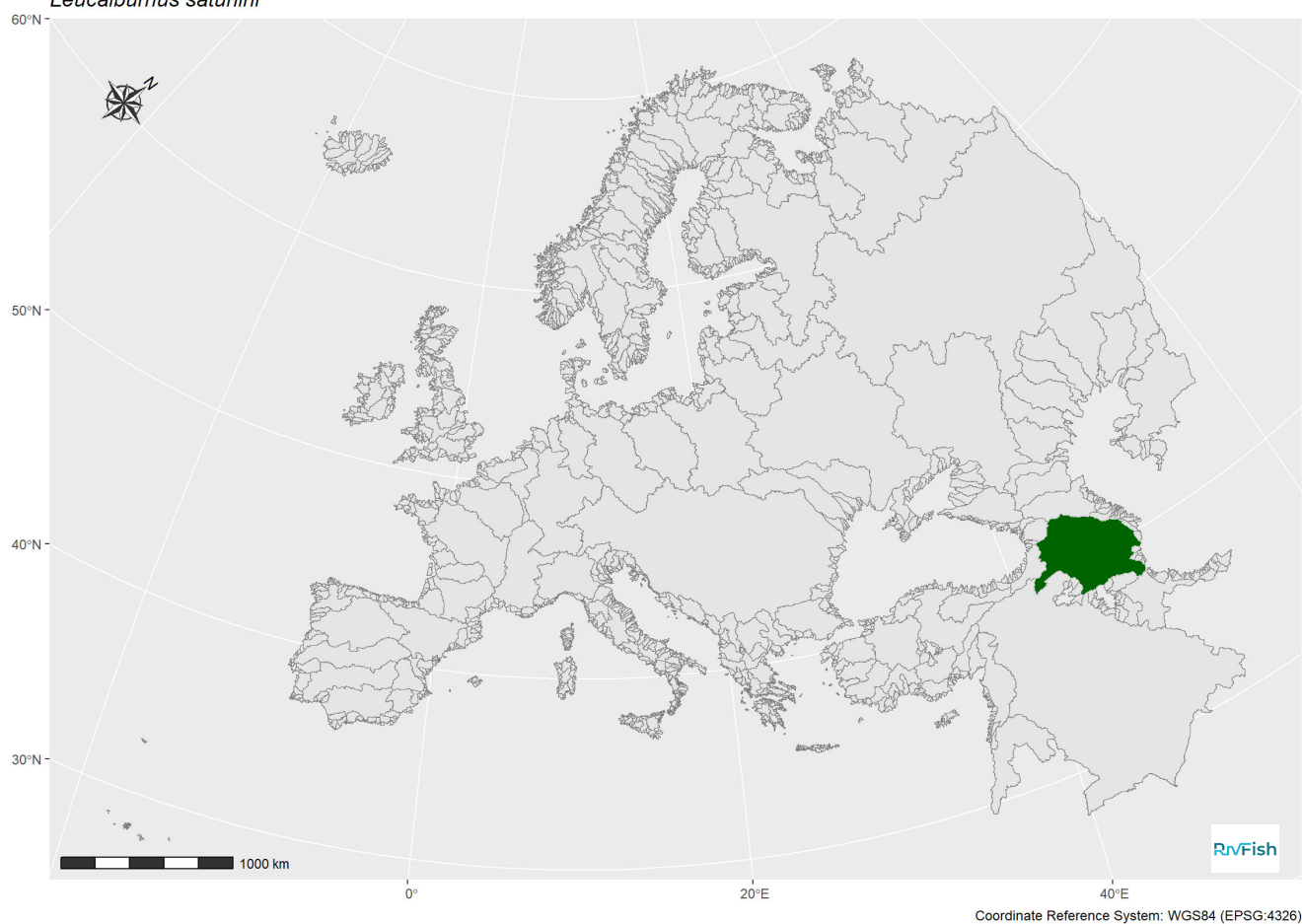
Lethenteron kessleri



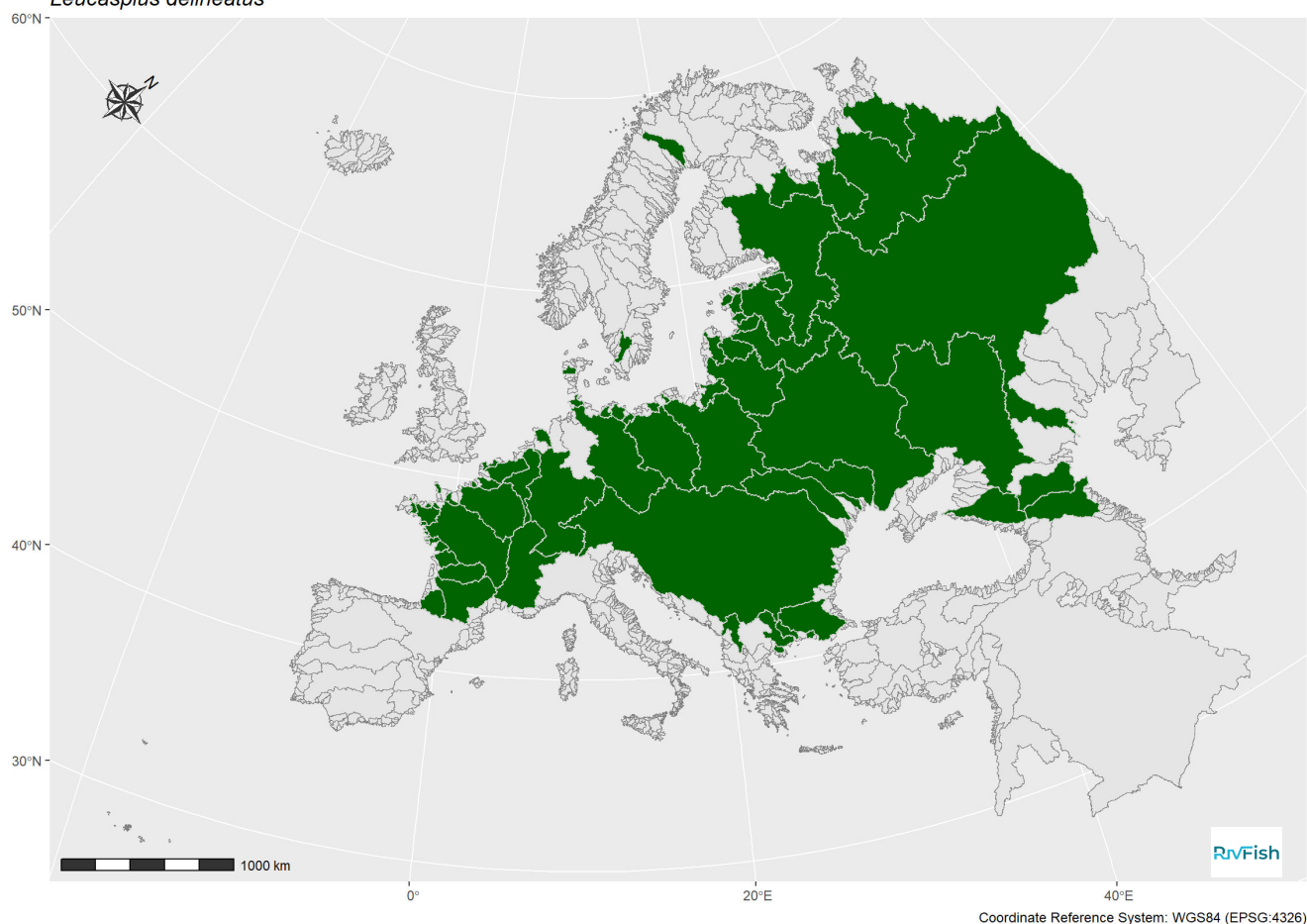
Lethenteron reissneri



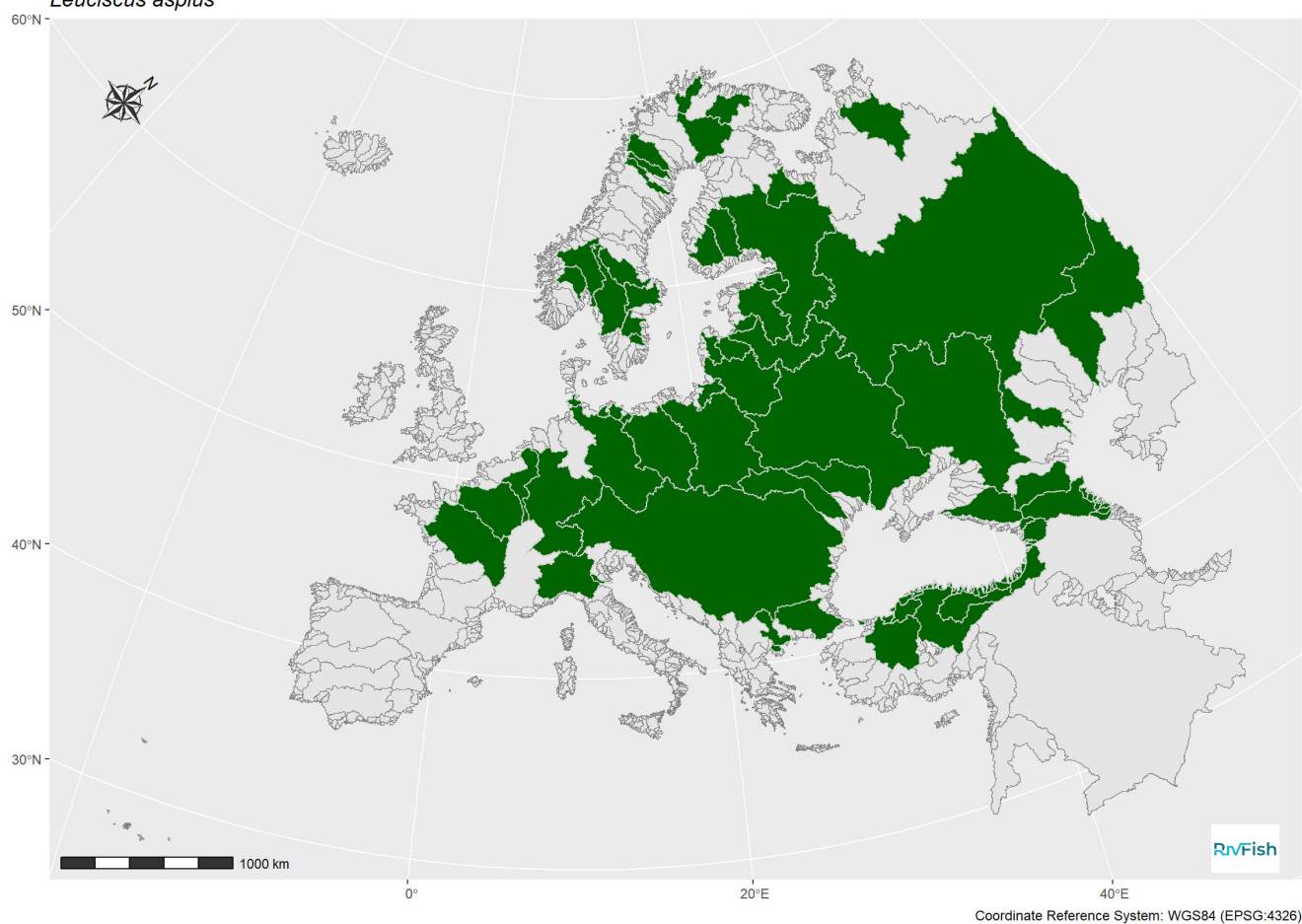
Leucalburnus satunini



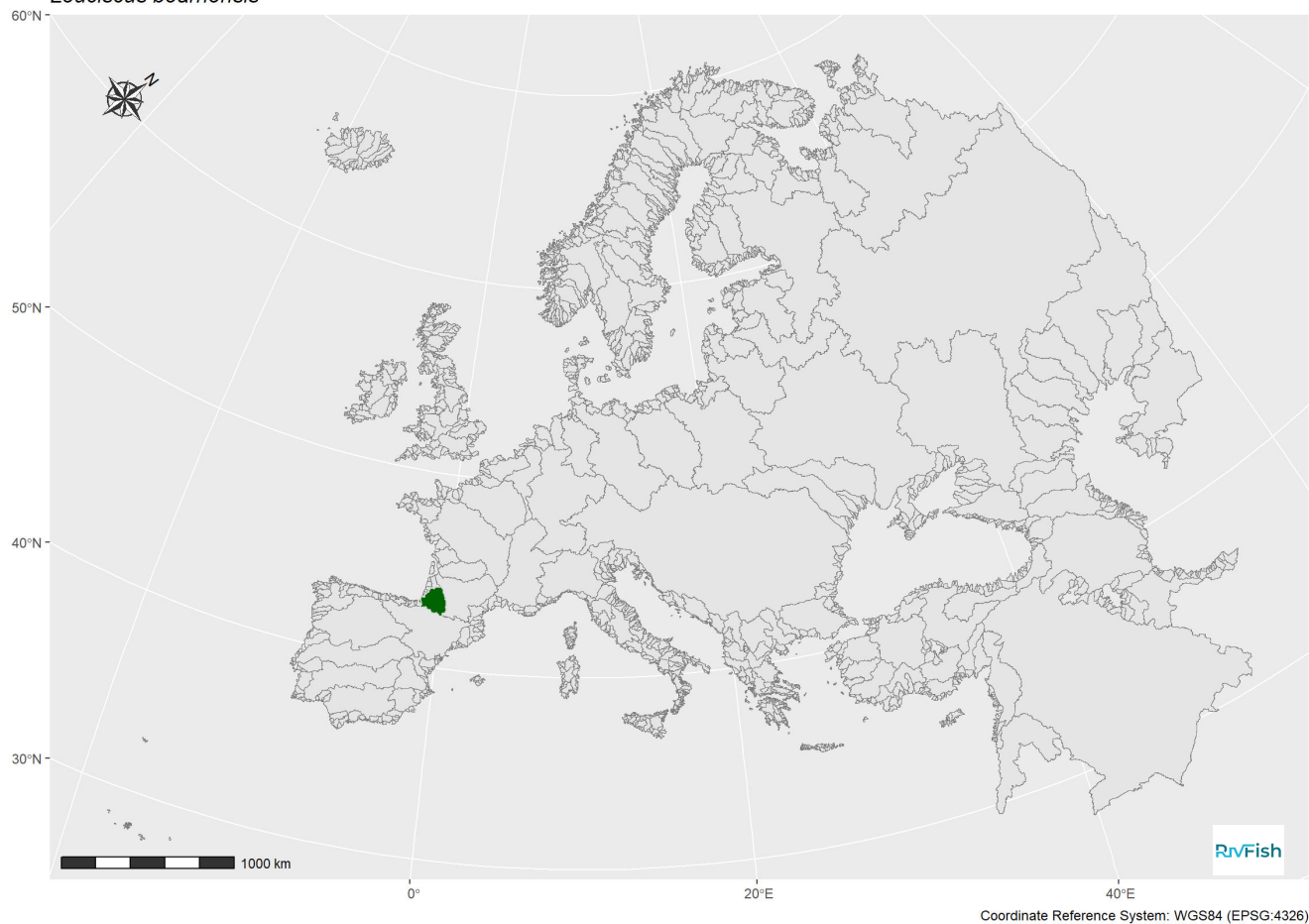
Leucaspius delineatus



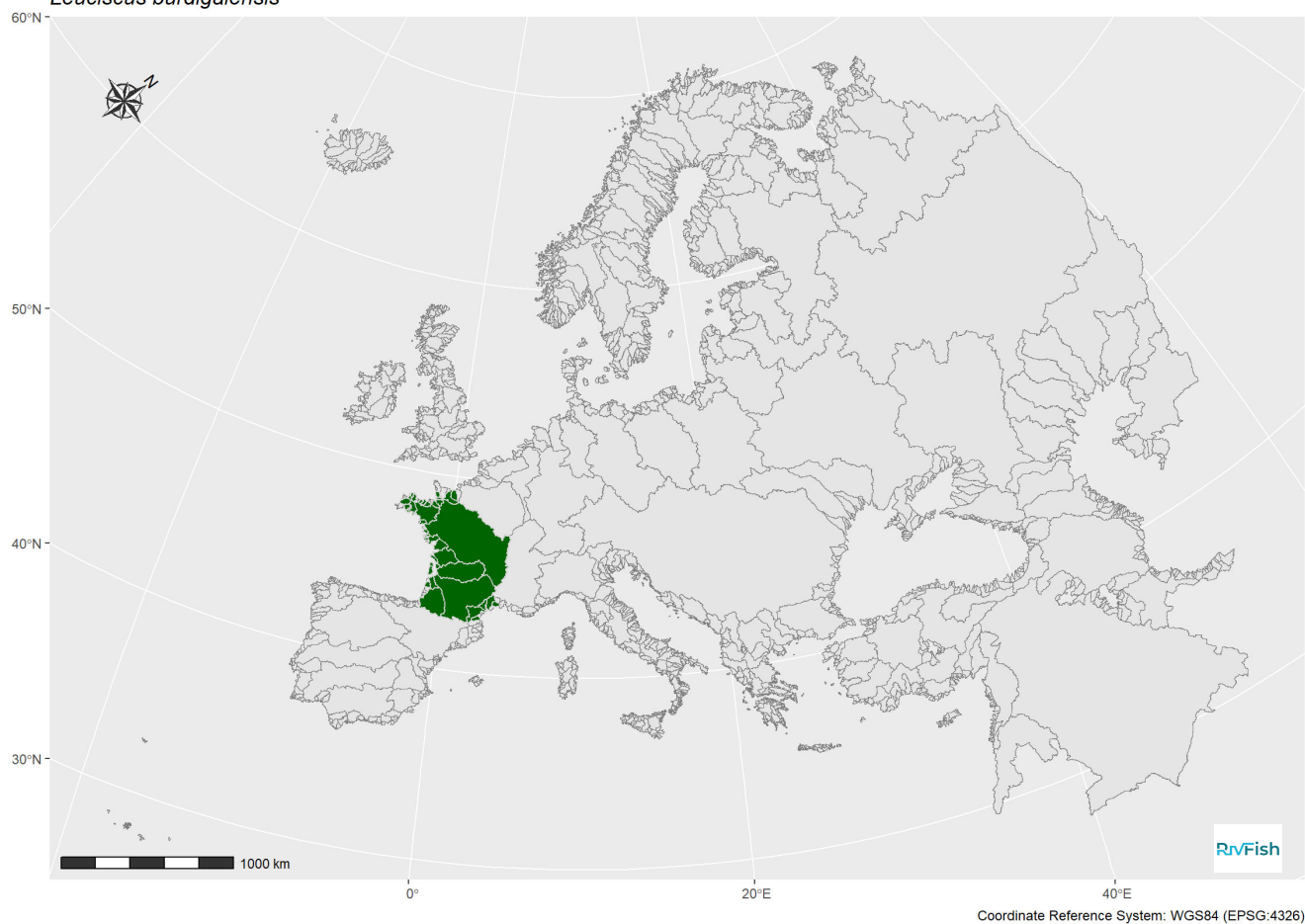
Leuciscus aspius



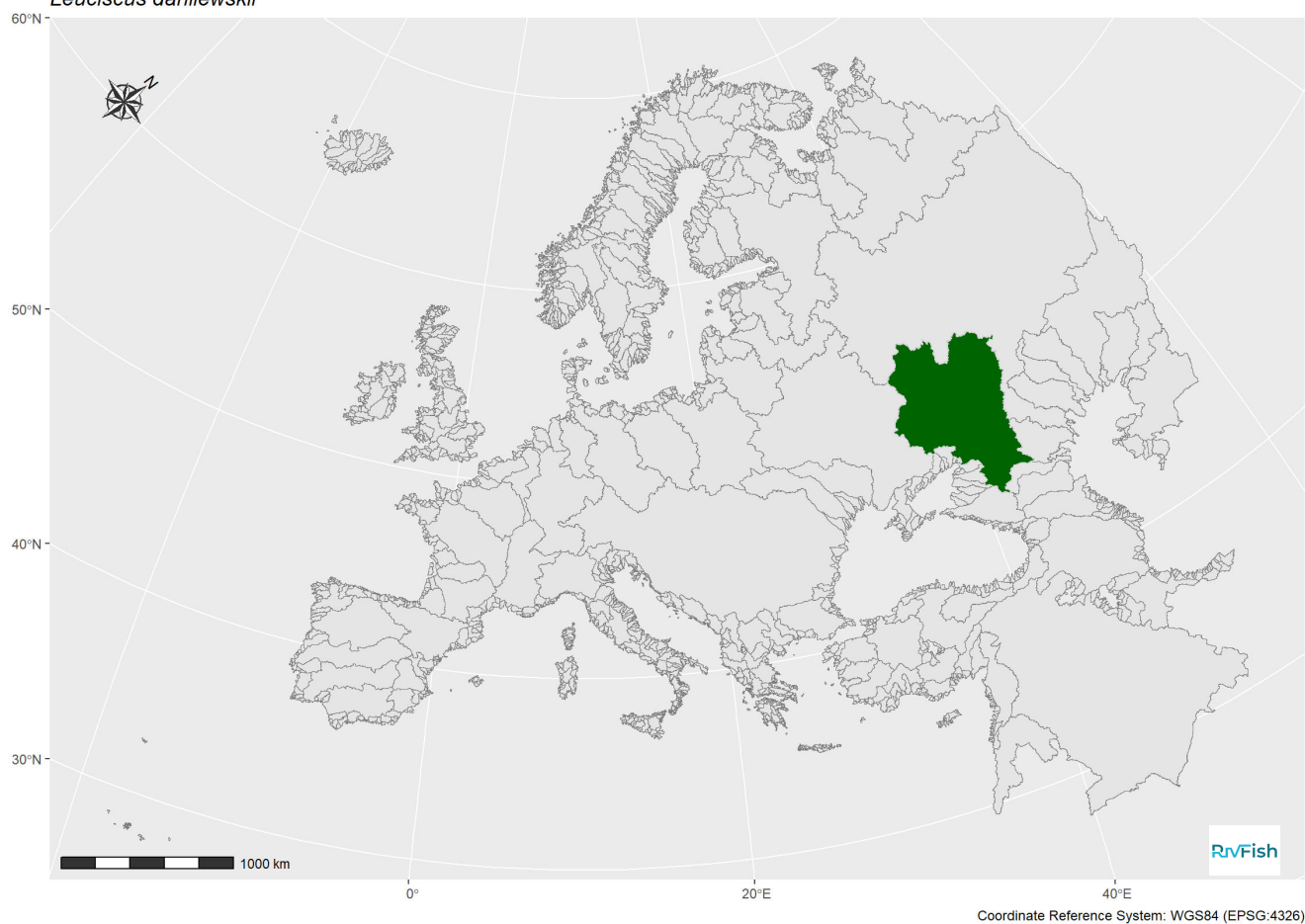
Leuciscus bearnensis



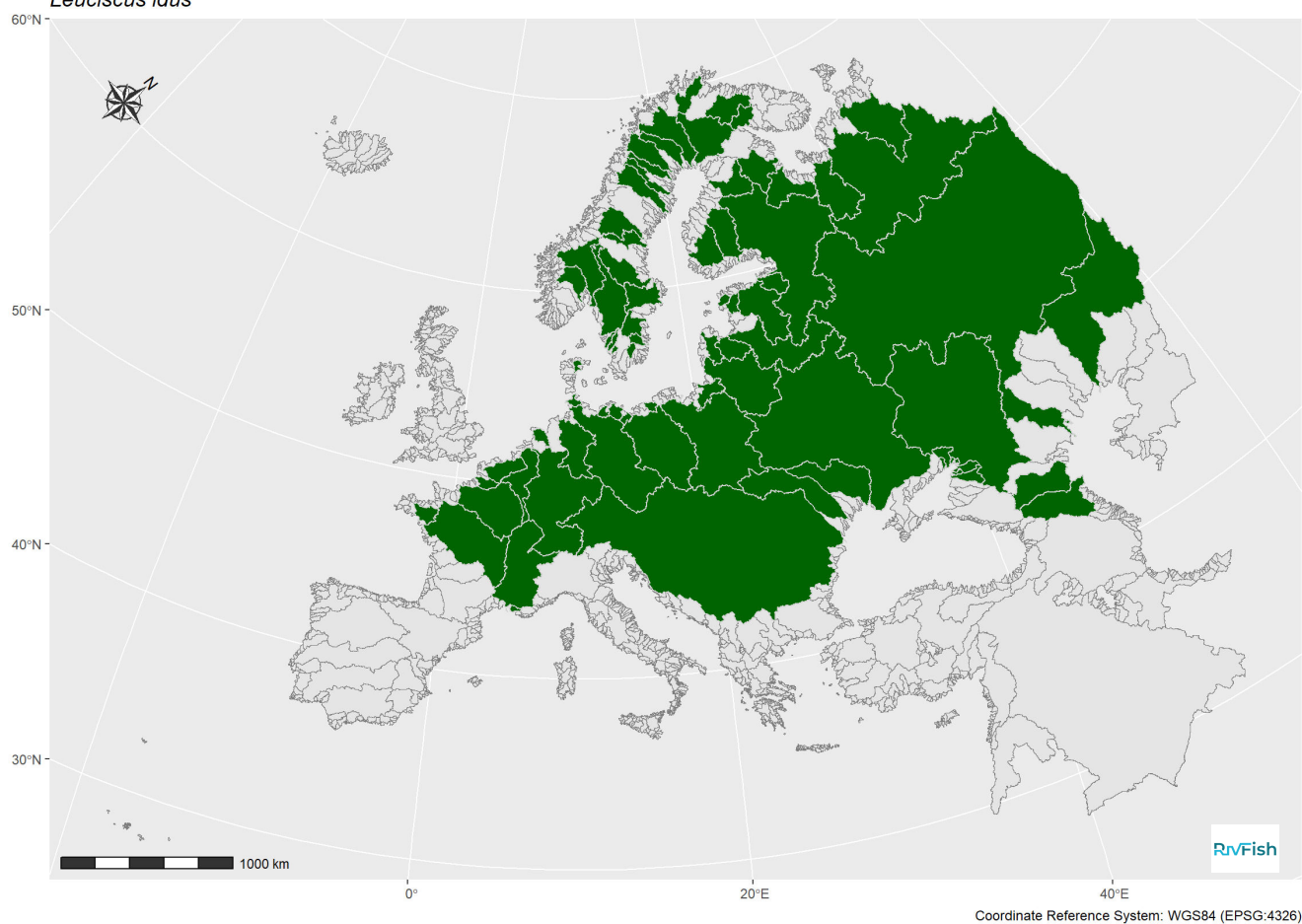
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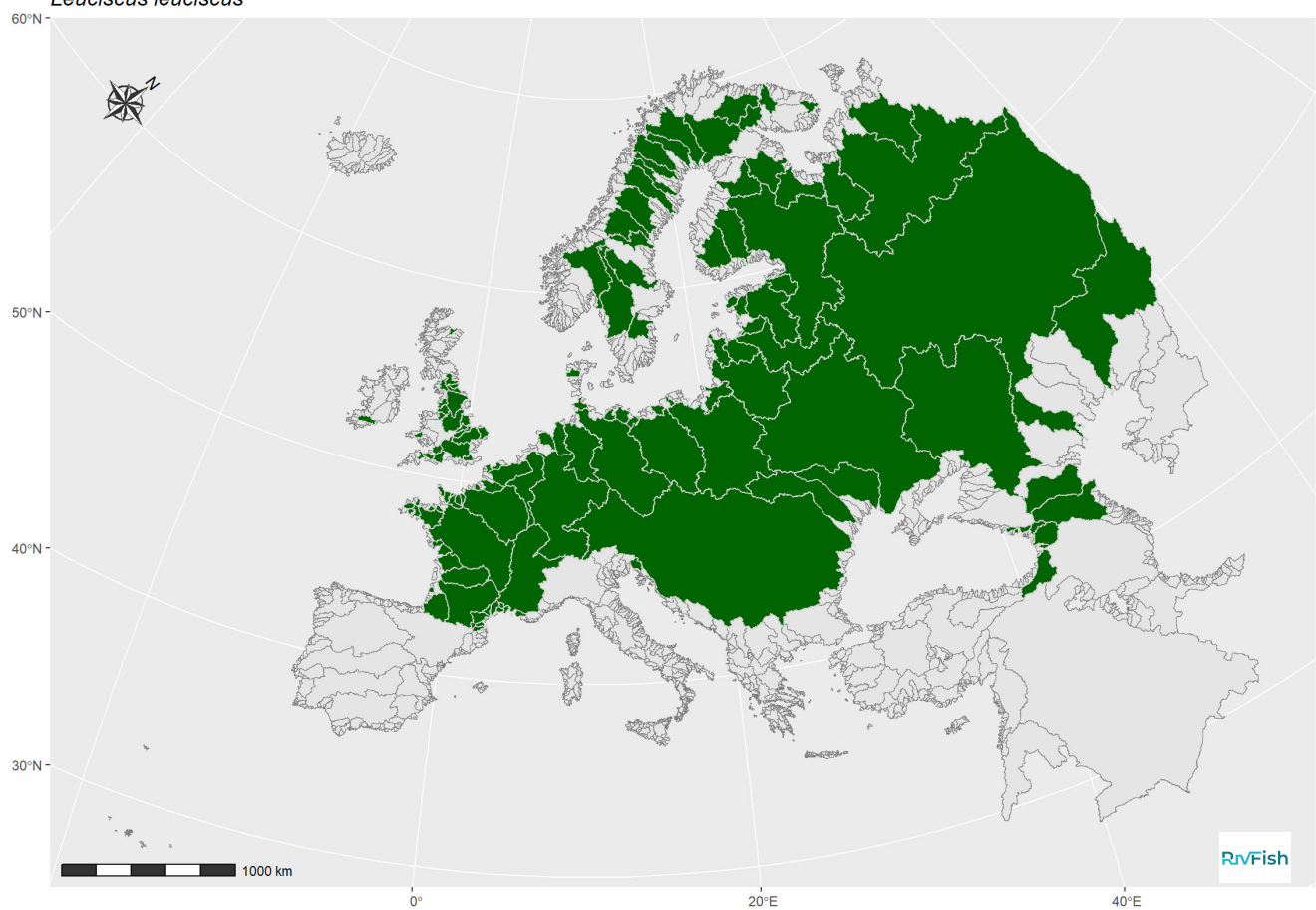
Leuciscus danilewskii



Leuciscus idus



Leuciscus leuciscus

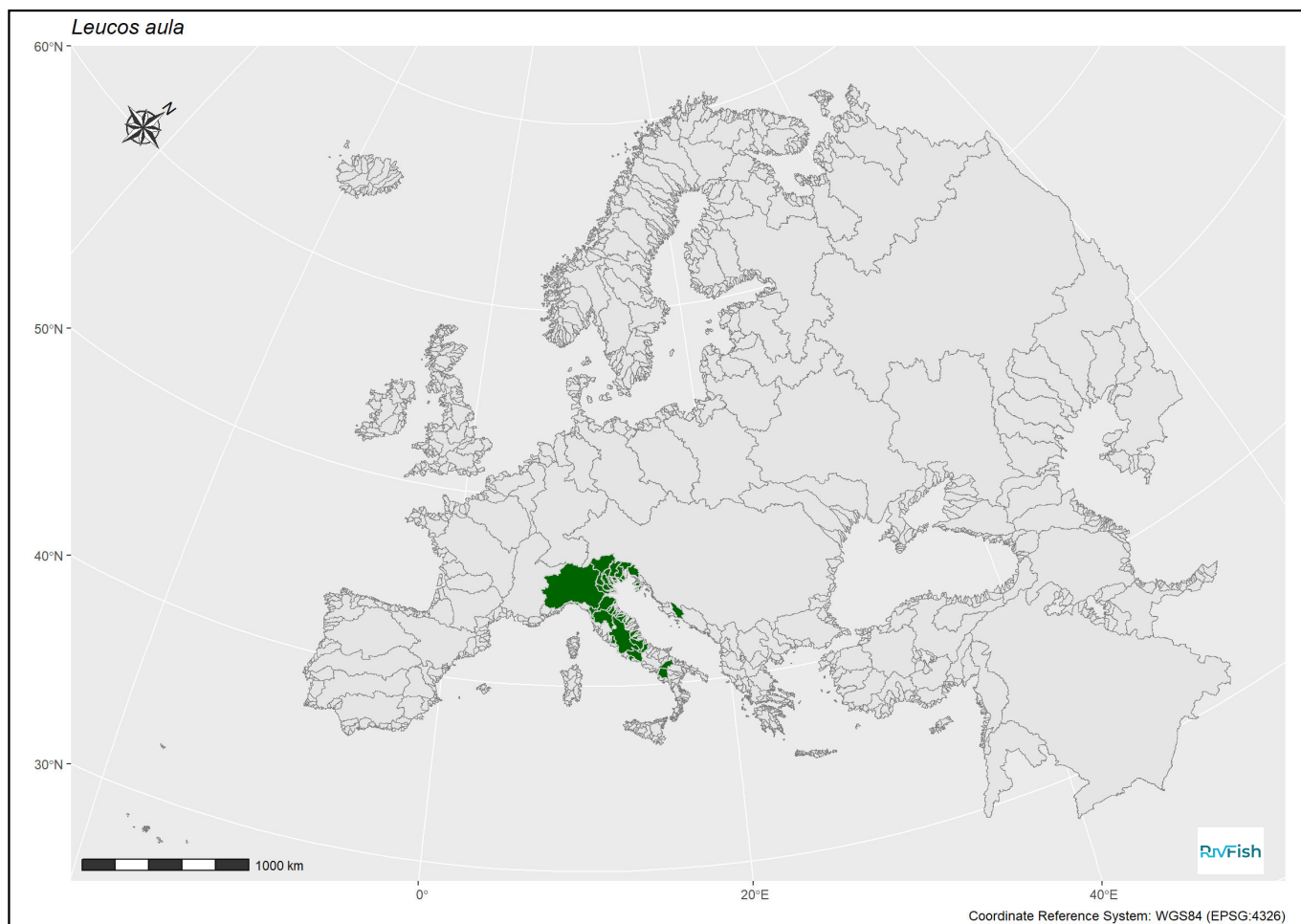
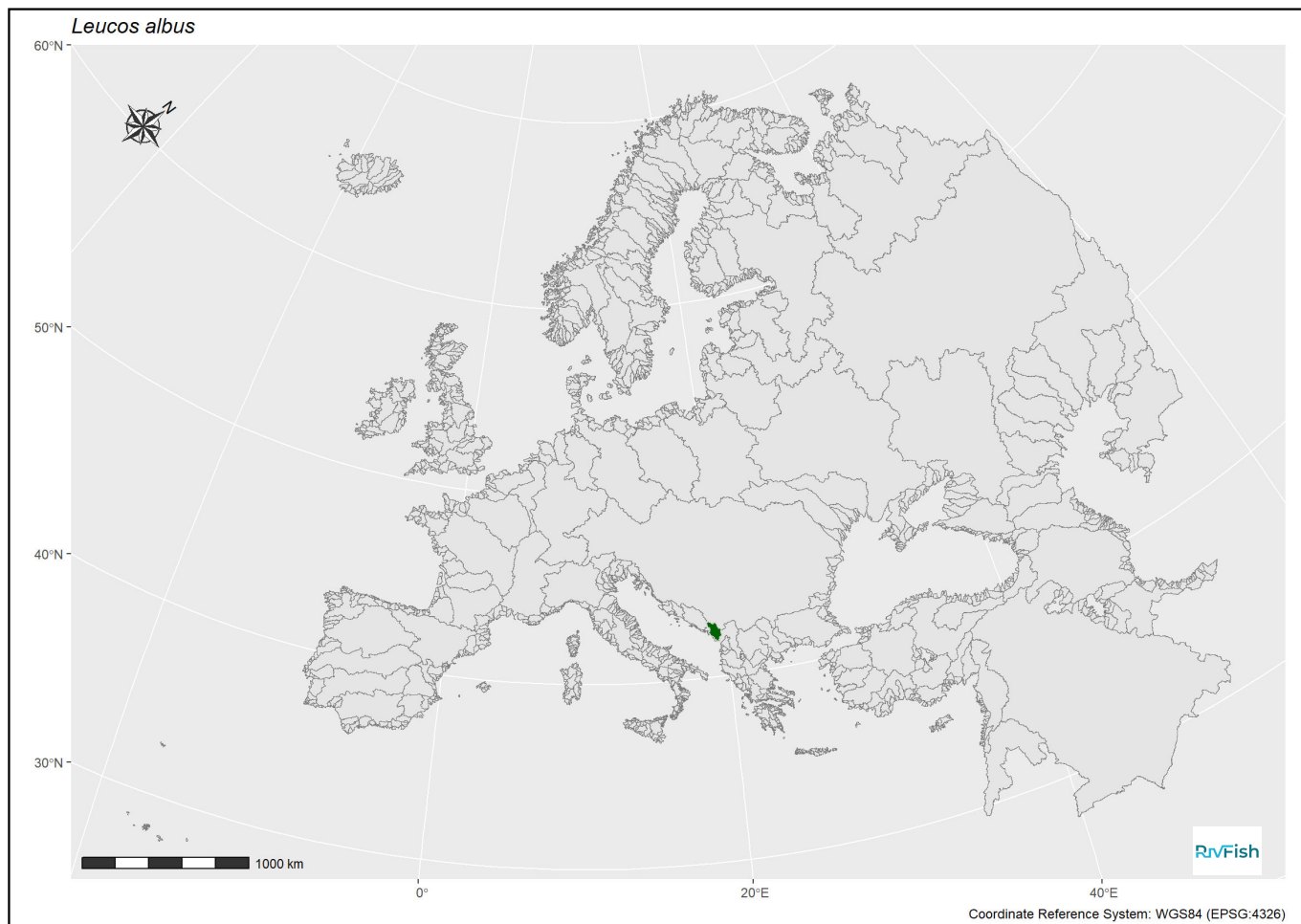


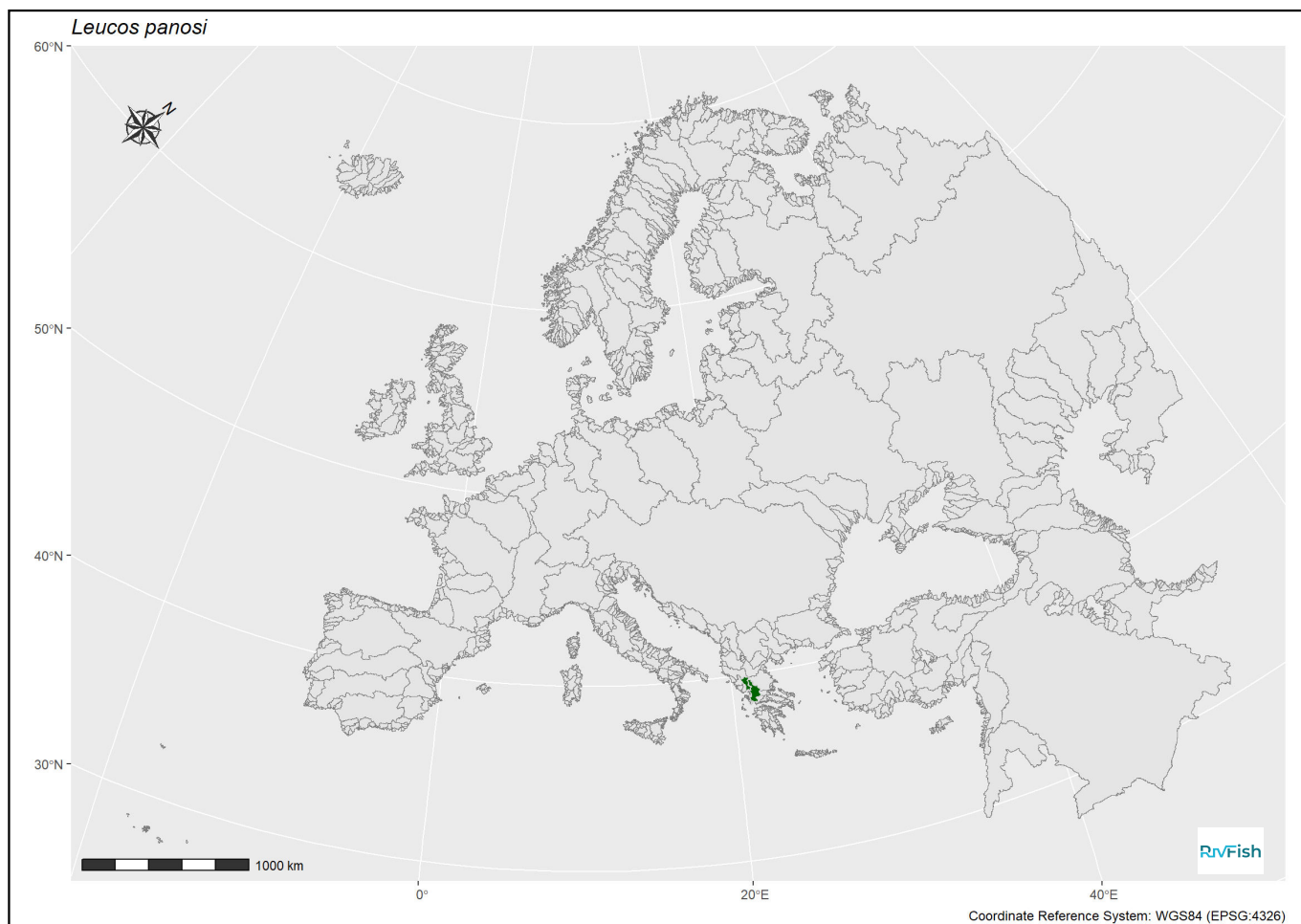
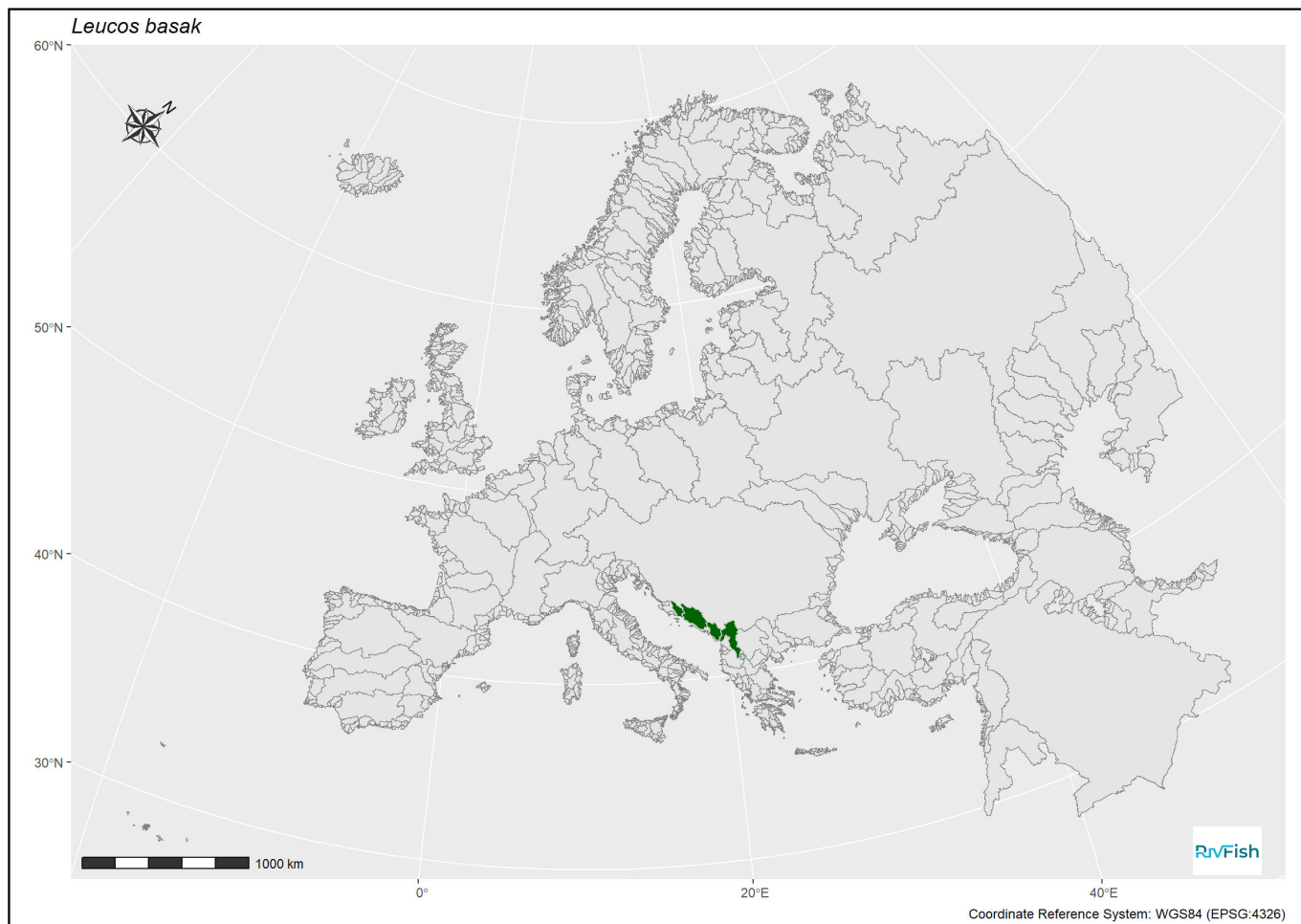
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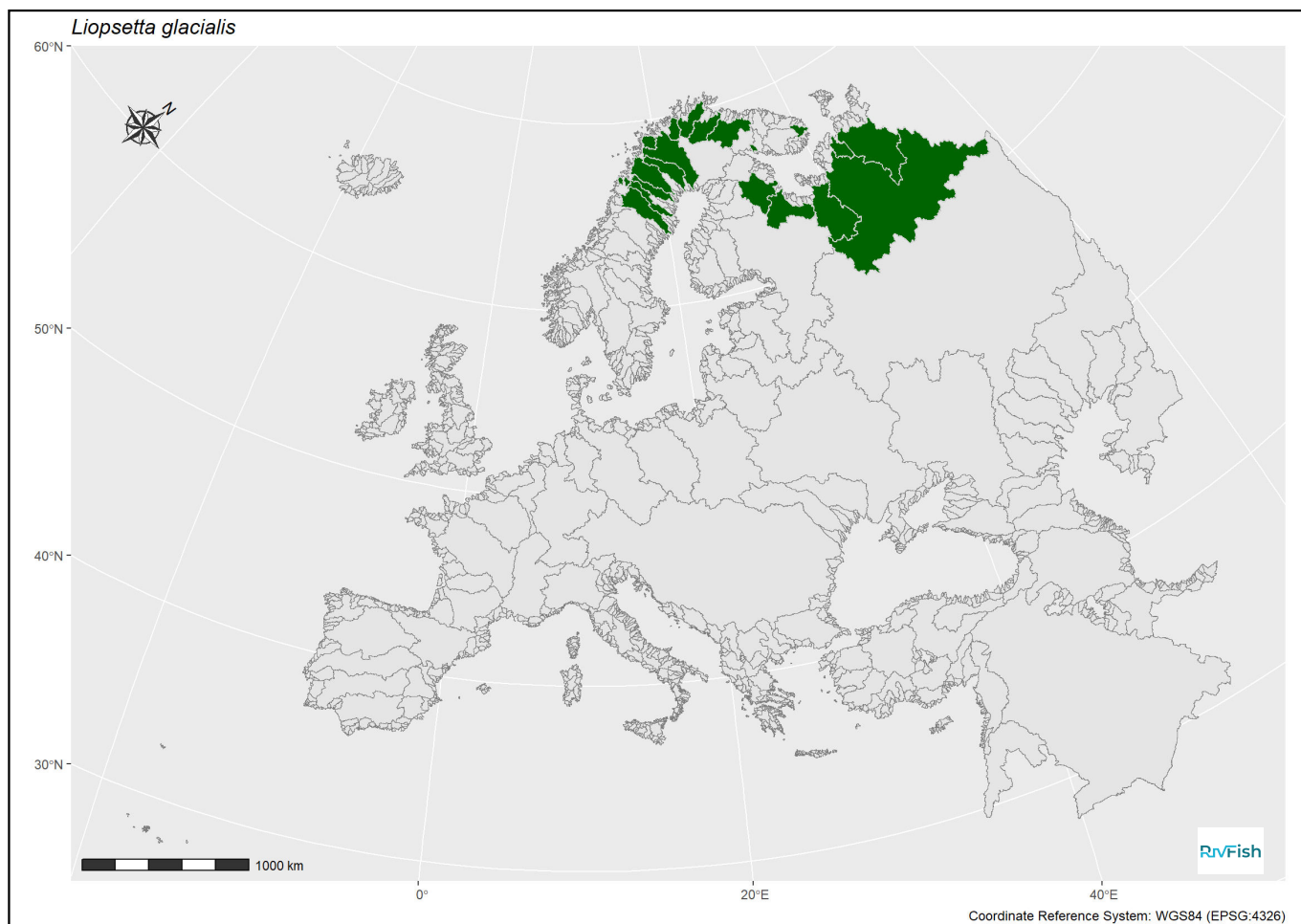
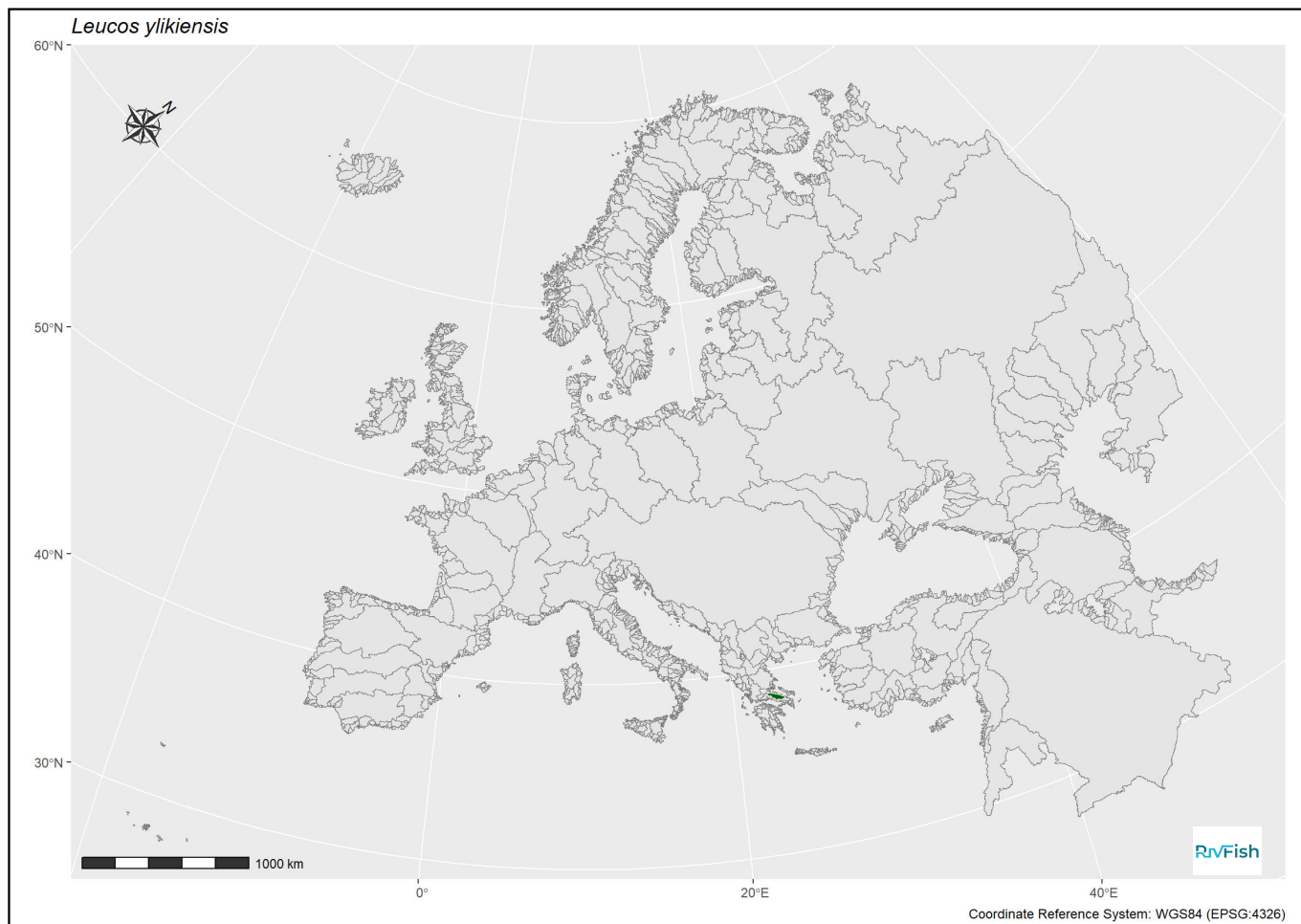
Leuciscus oxyrhis

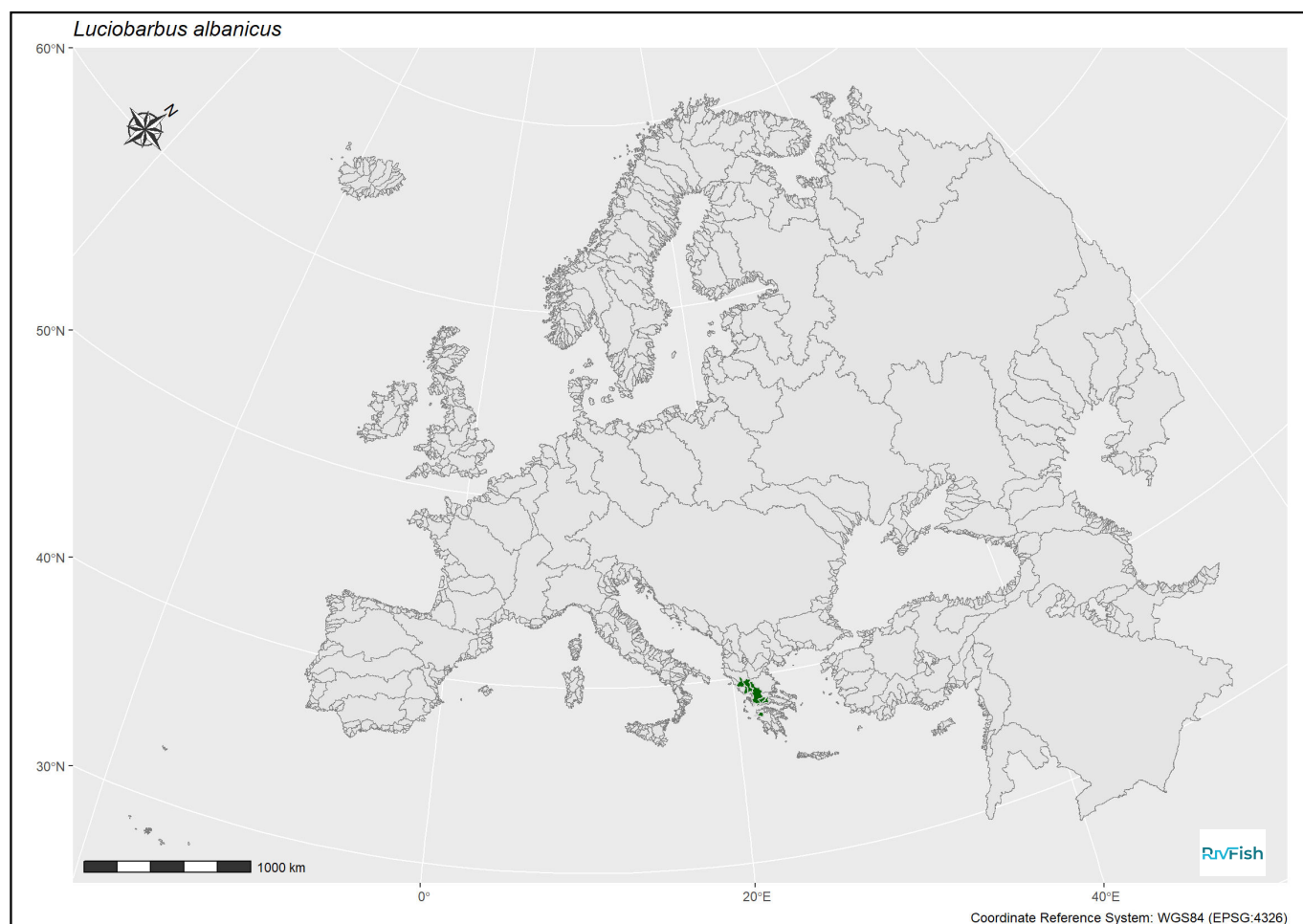
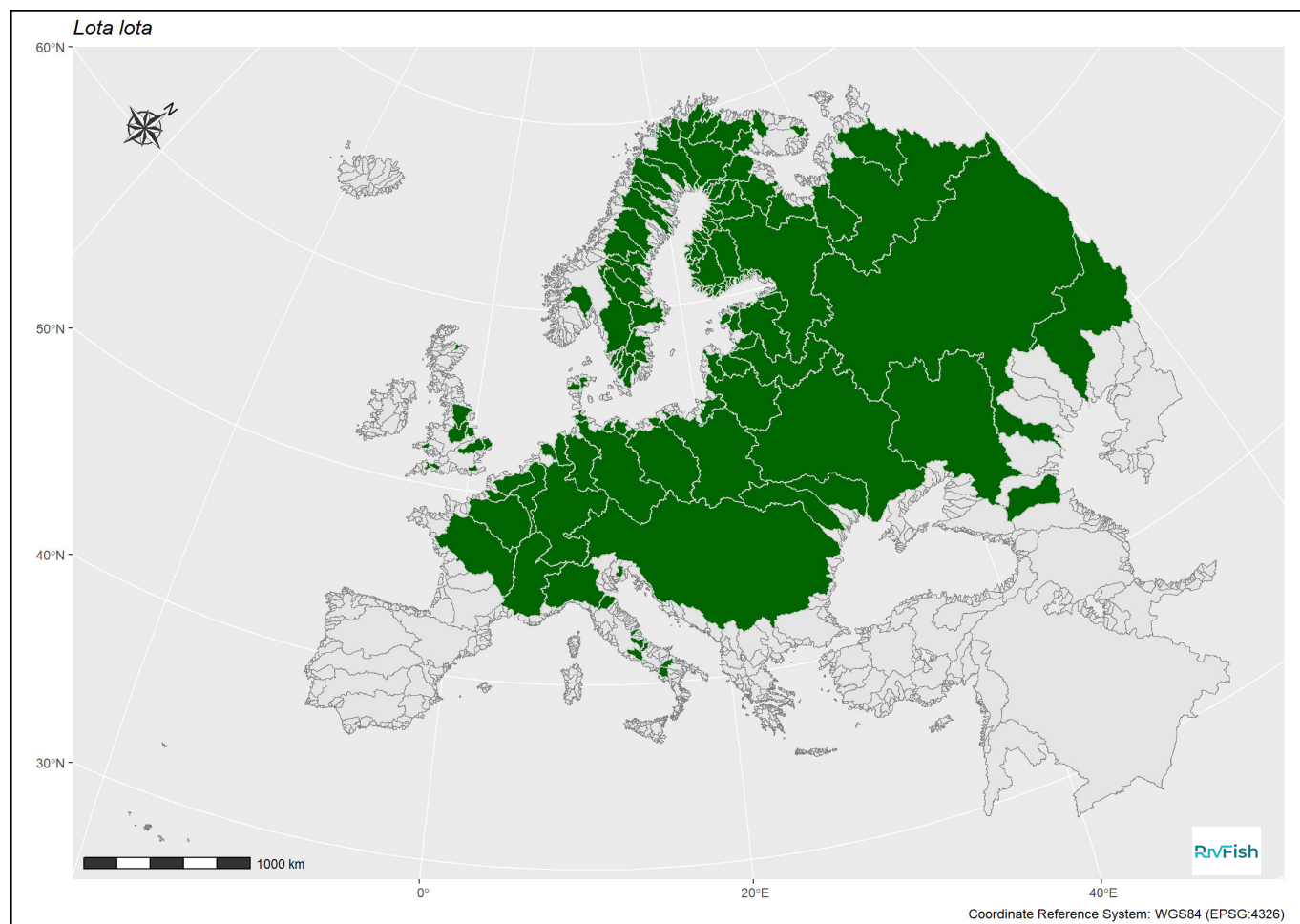


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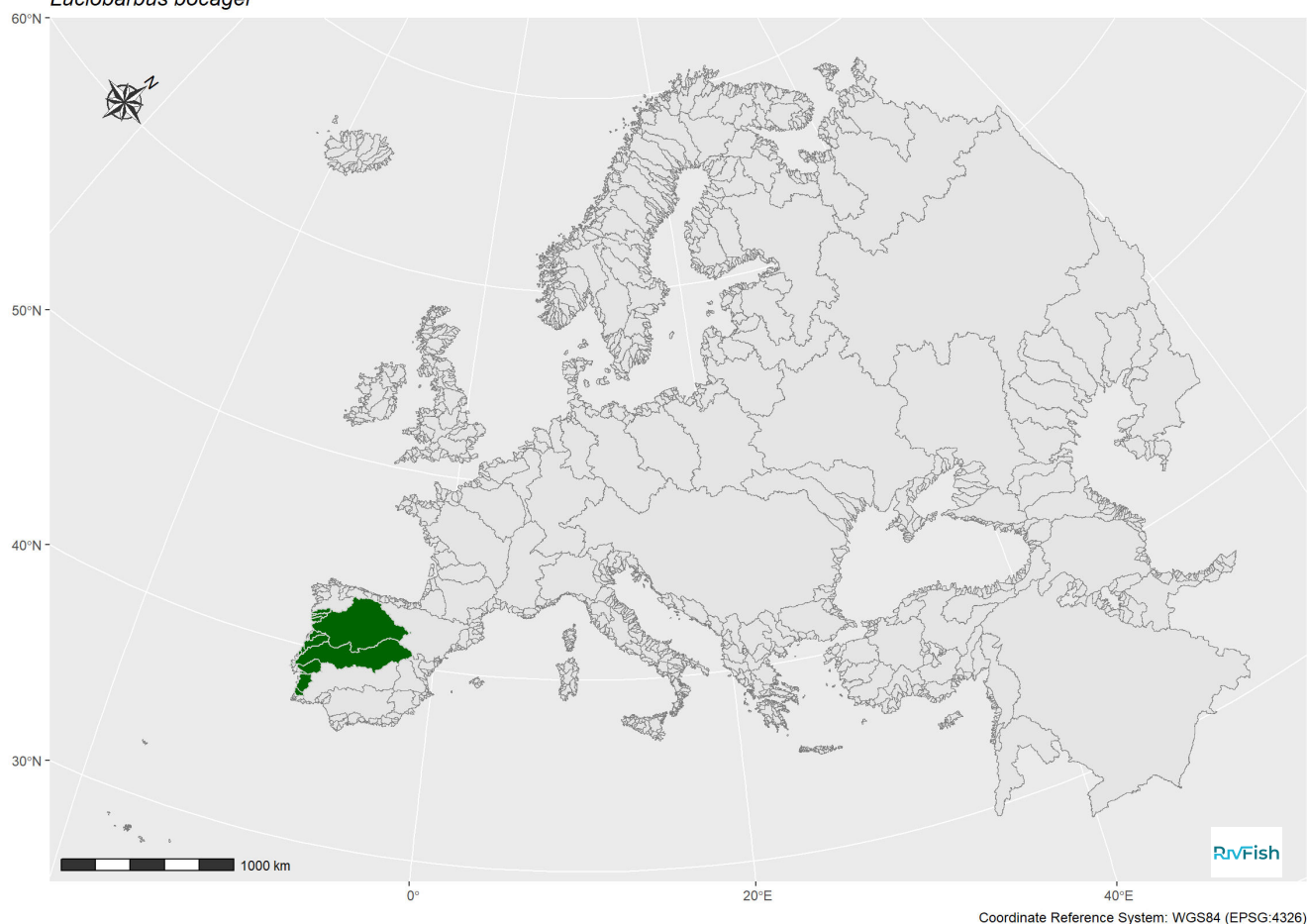




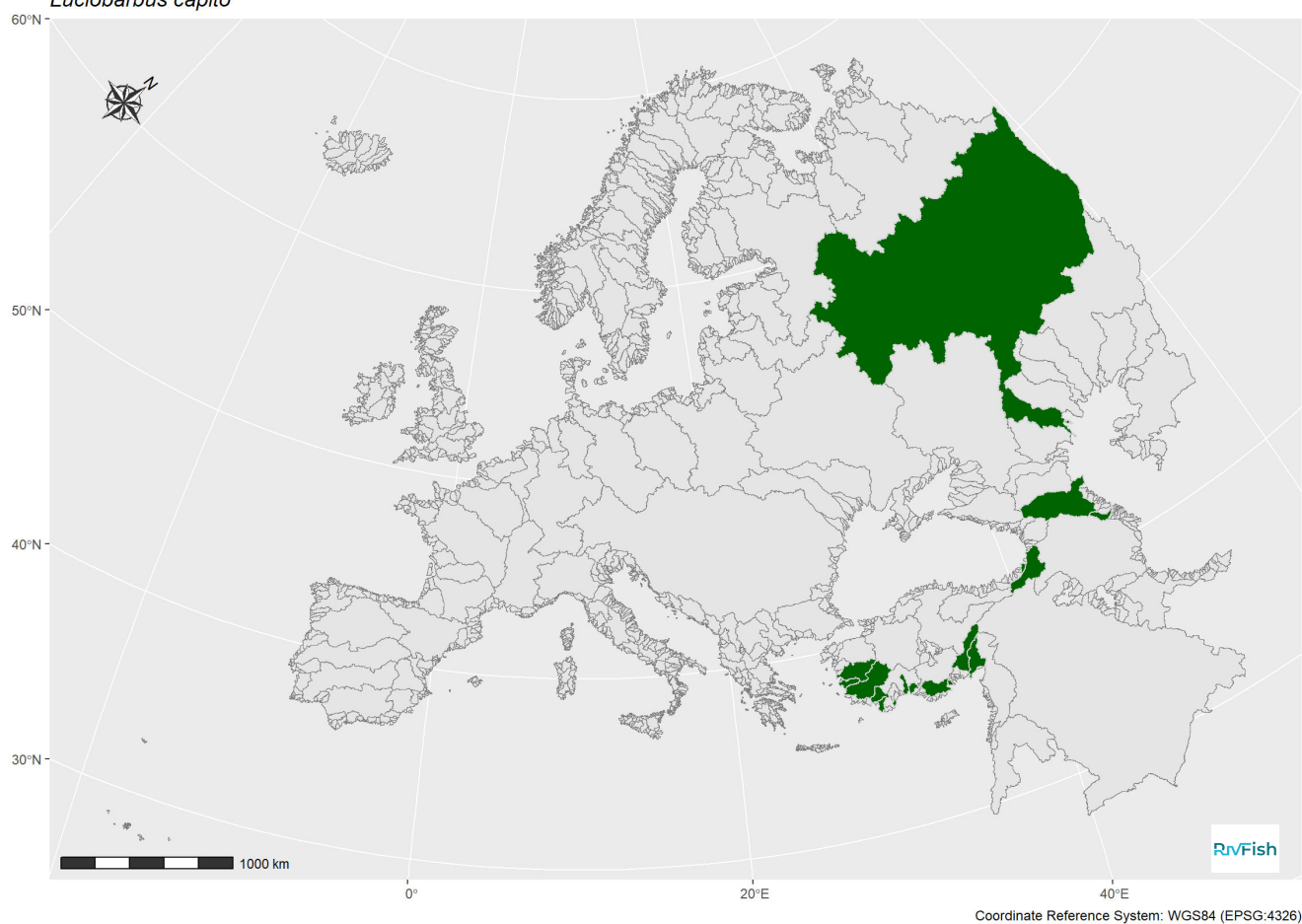




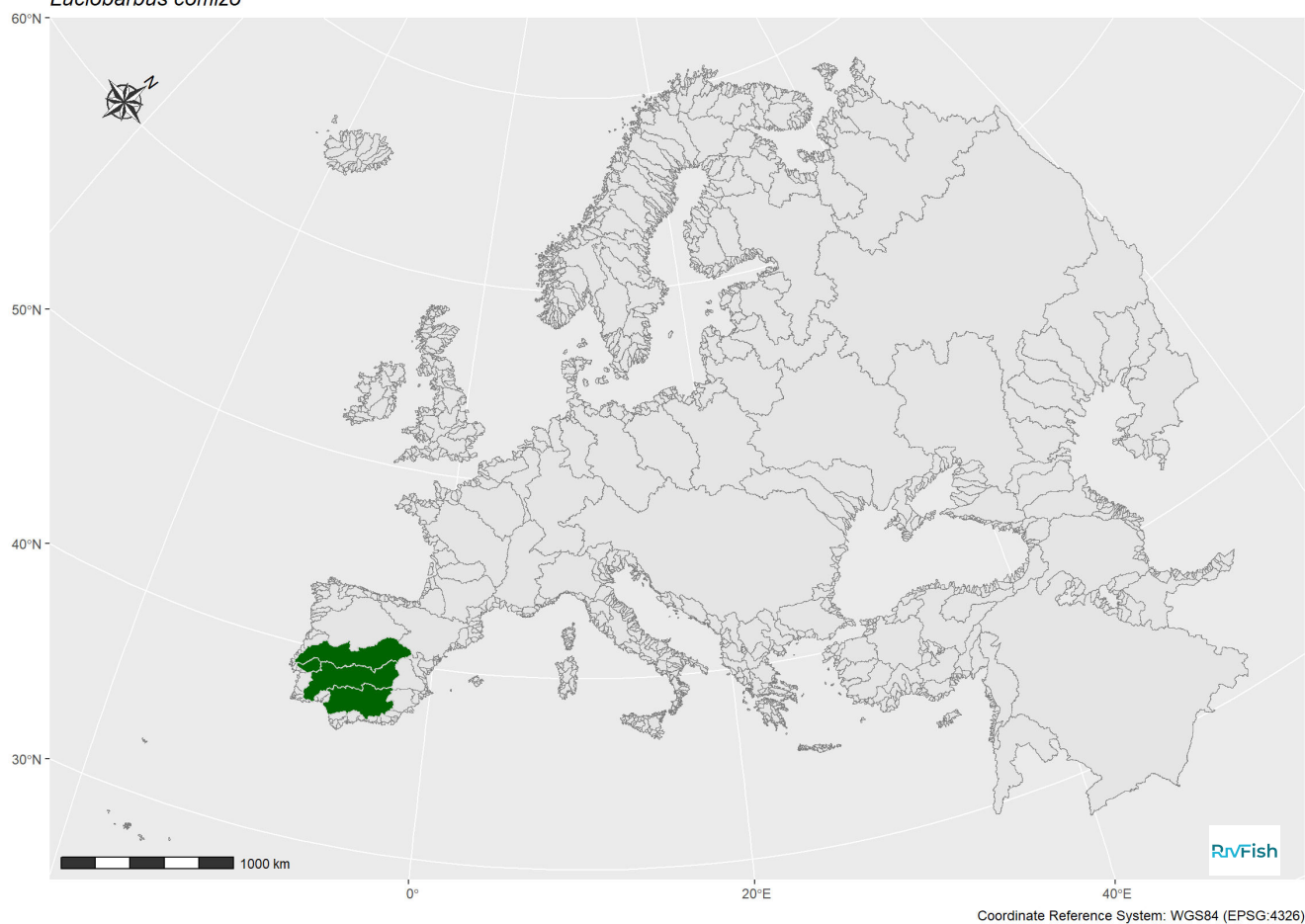
Luciobarbus bocagei



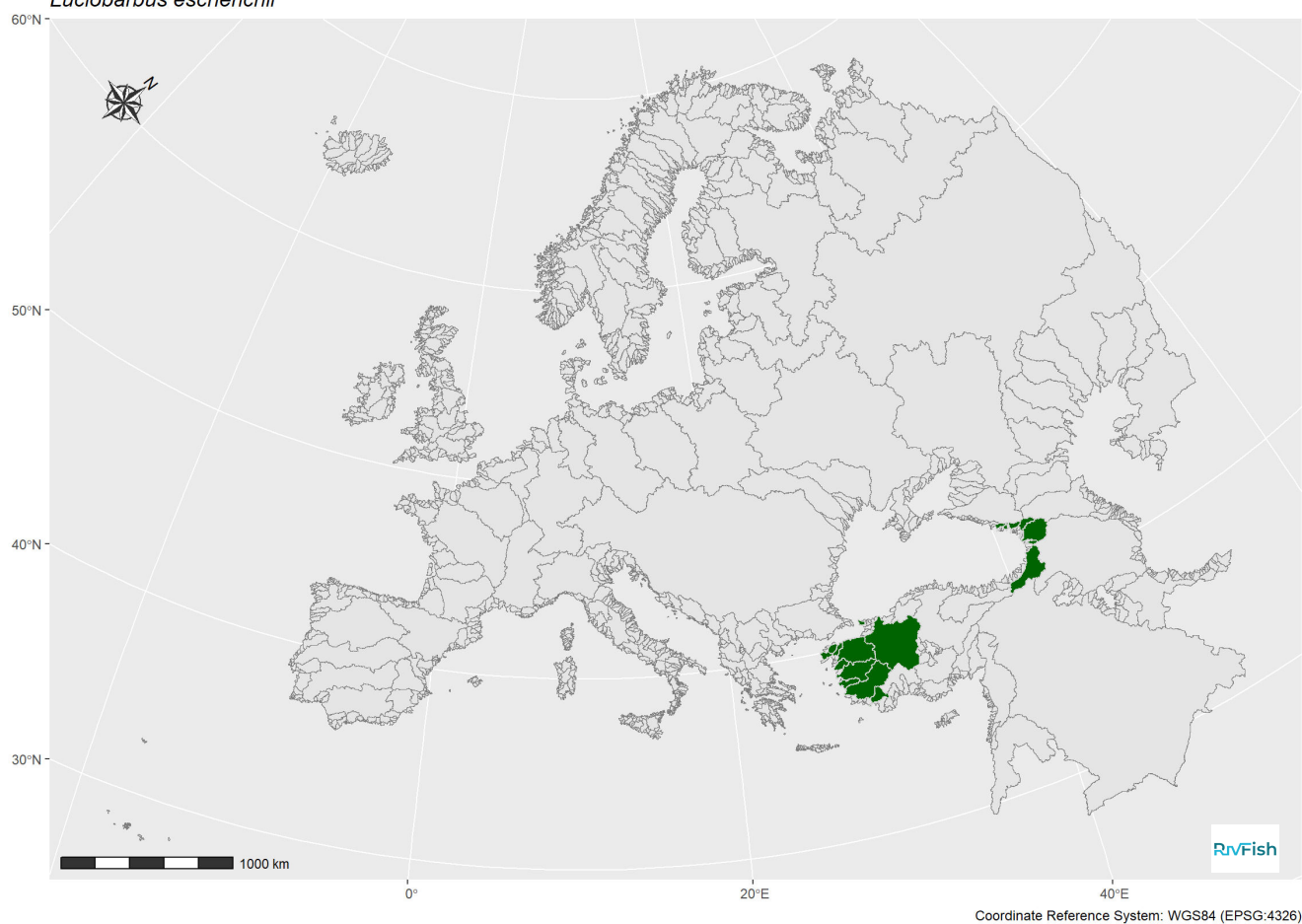
Luciobarbus capito

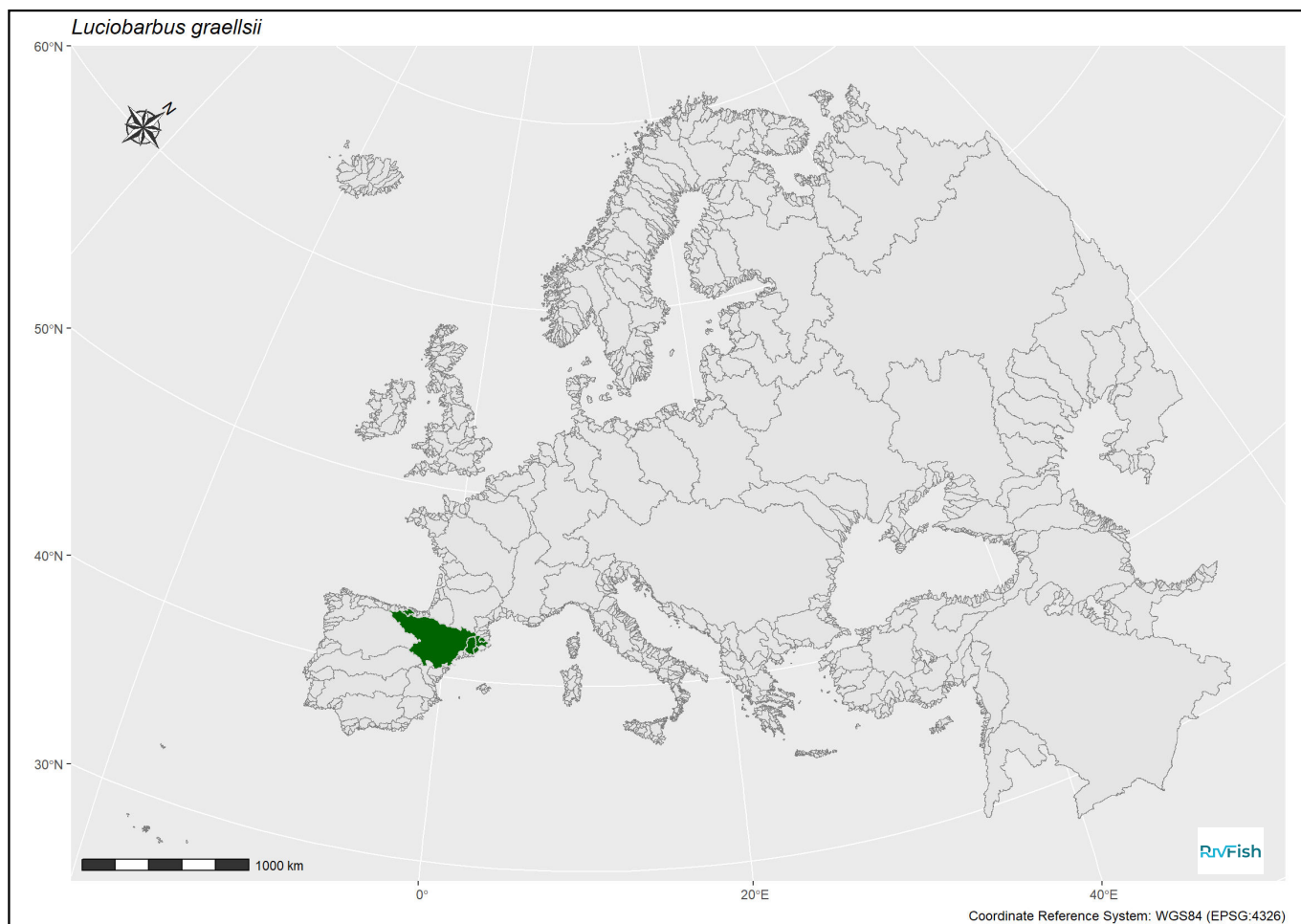
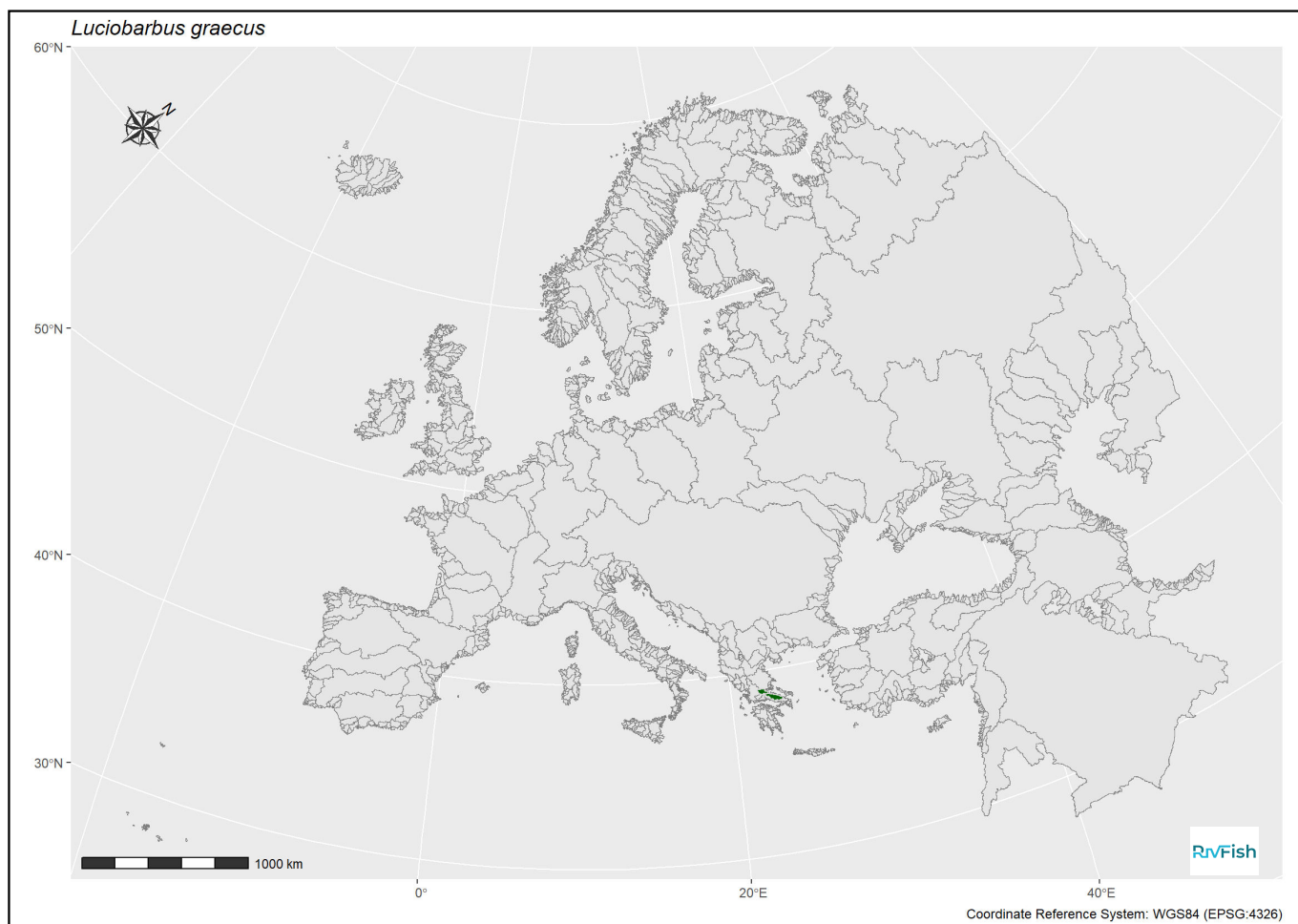


Luciobarbus comizo

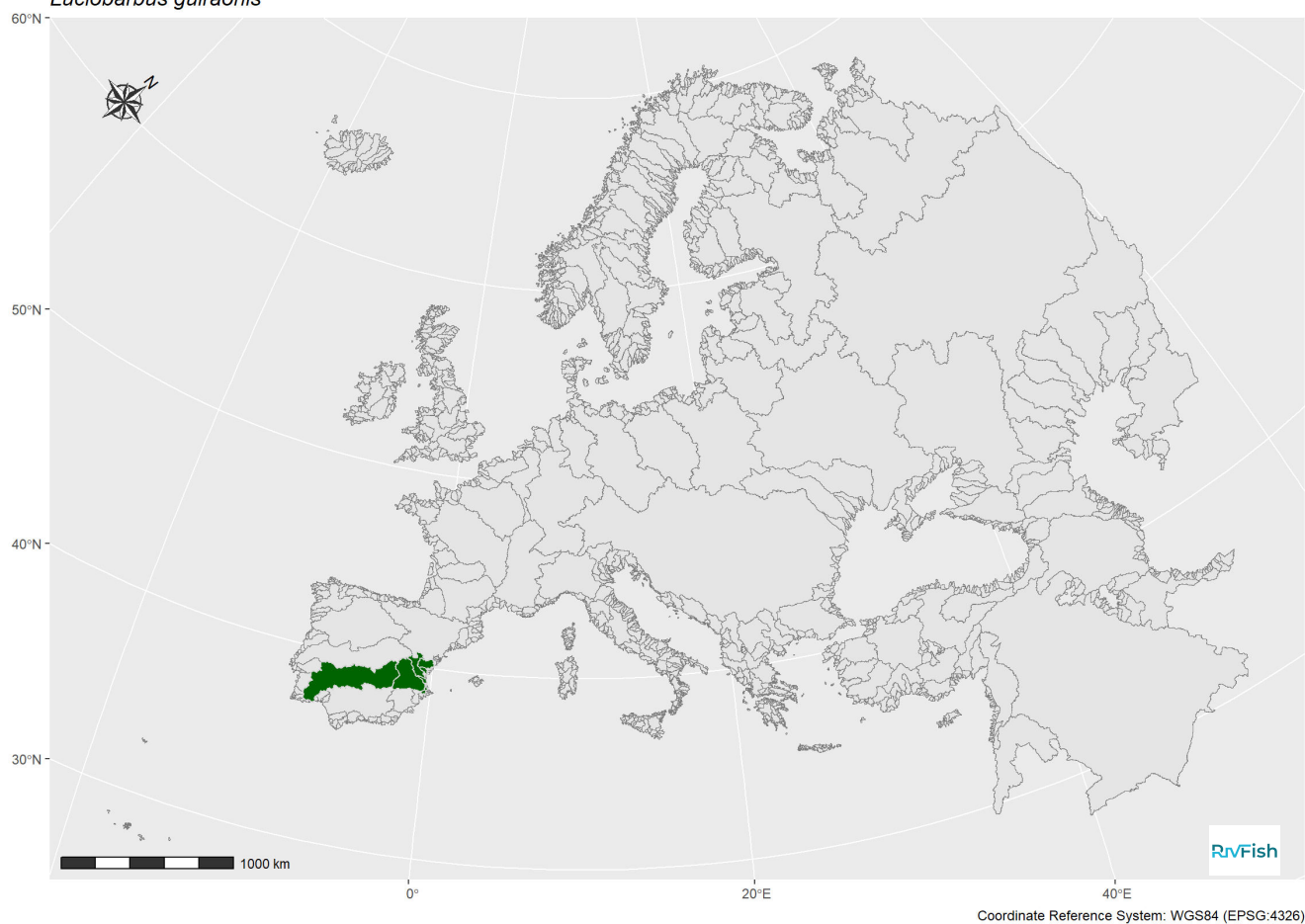


Luciobarbus escherichii

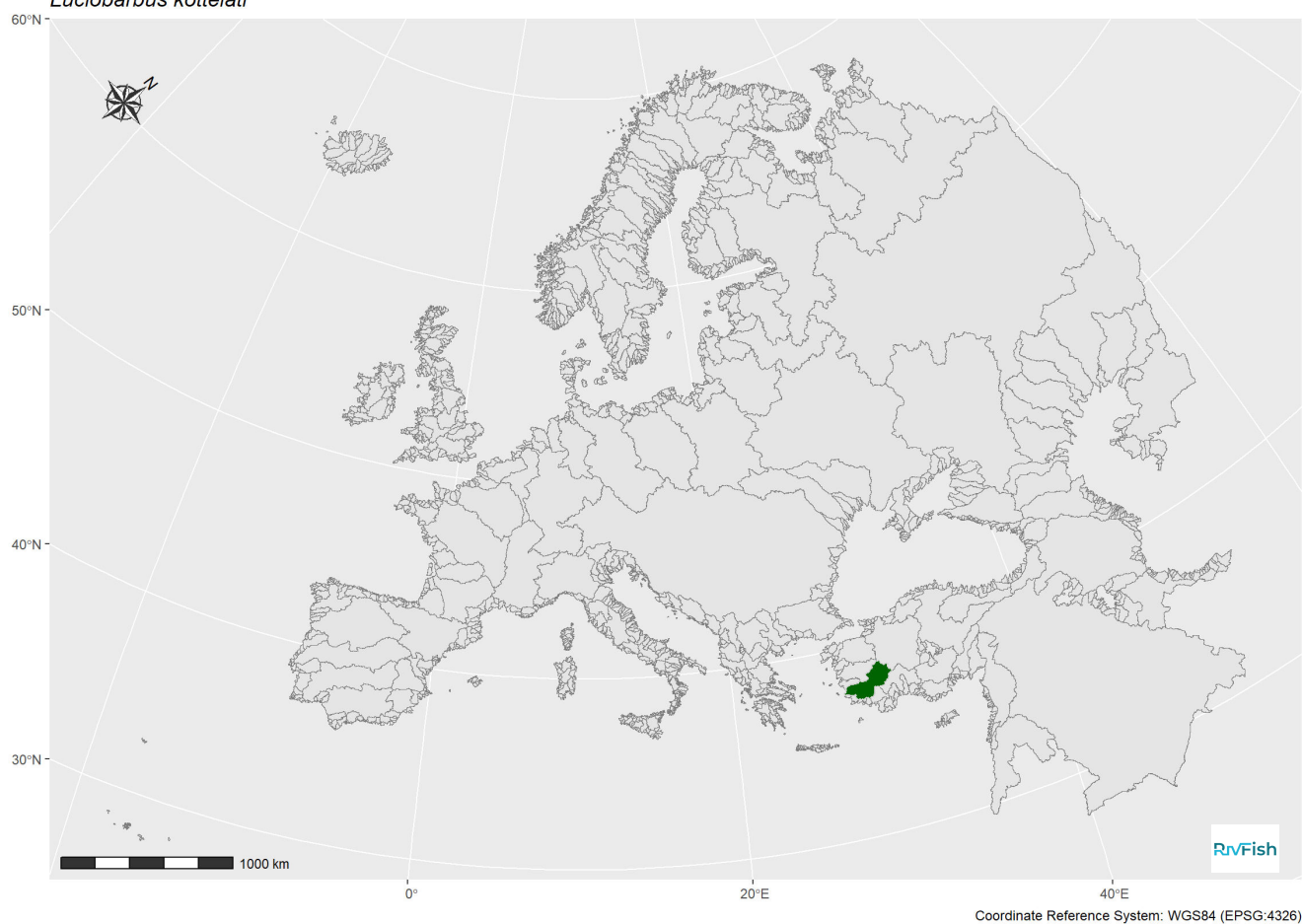




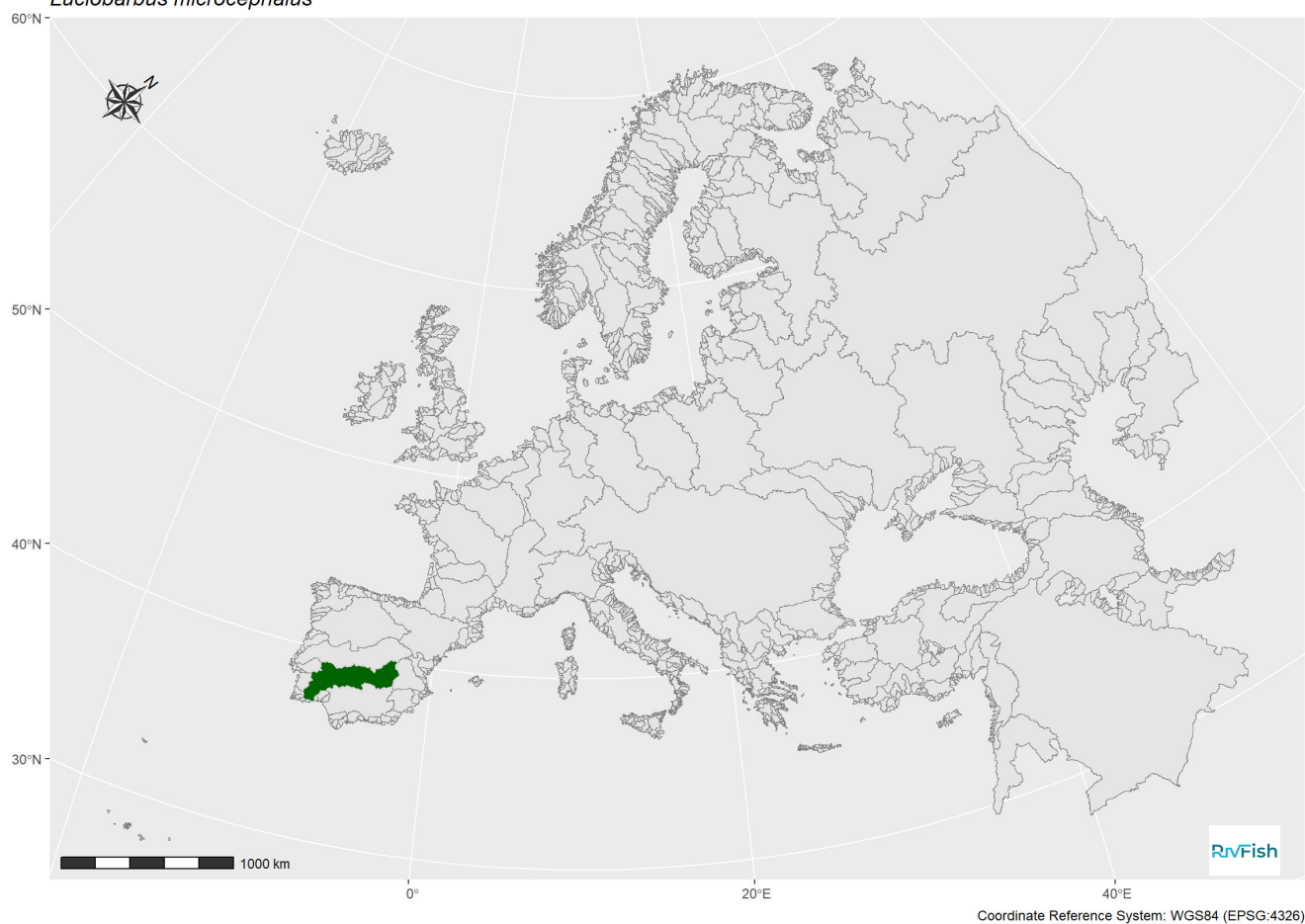
Luciobarbus guiraonis



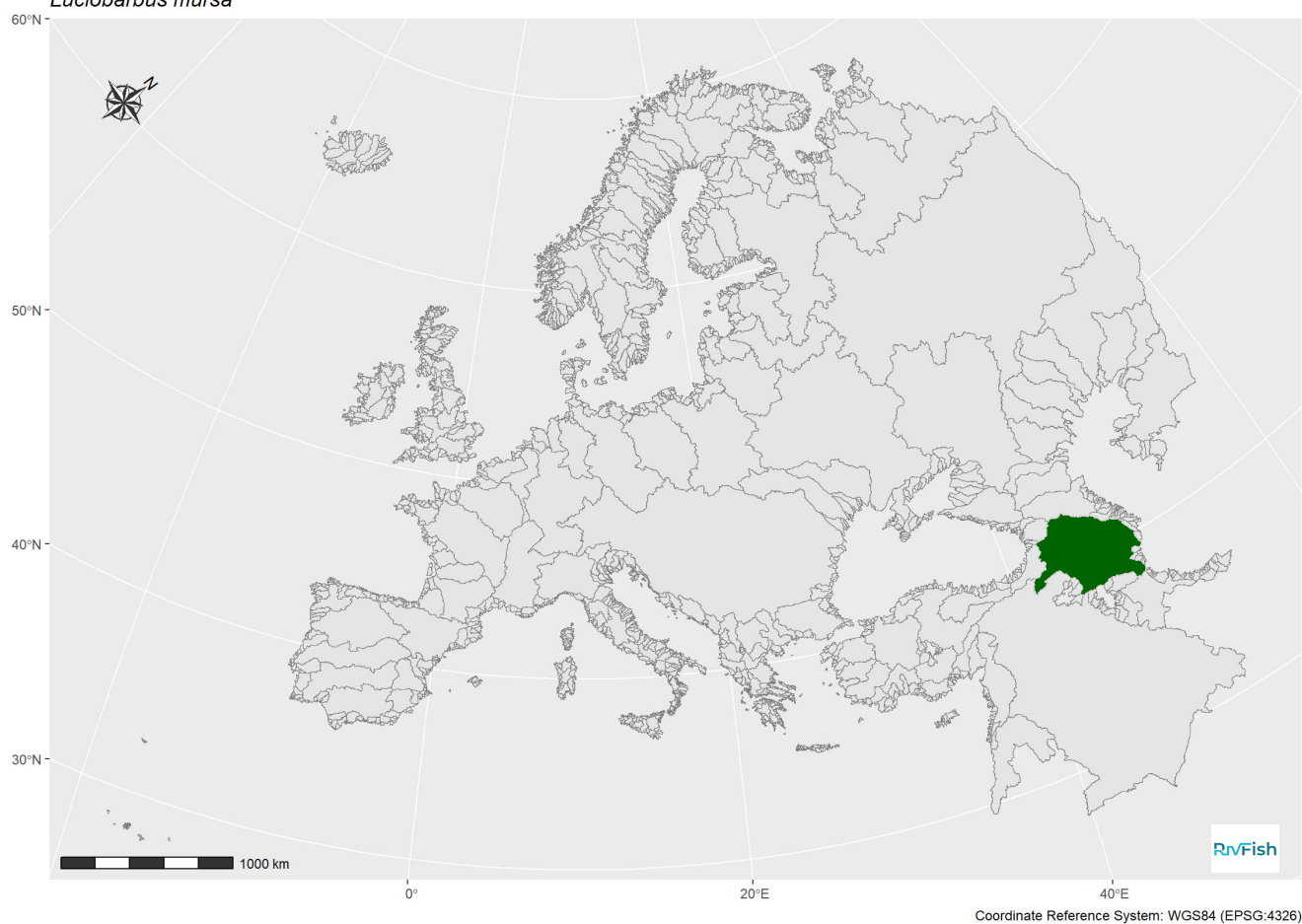
Luciobarbus kottelati



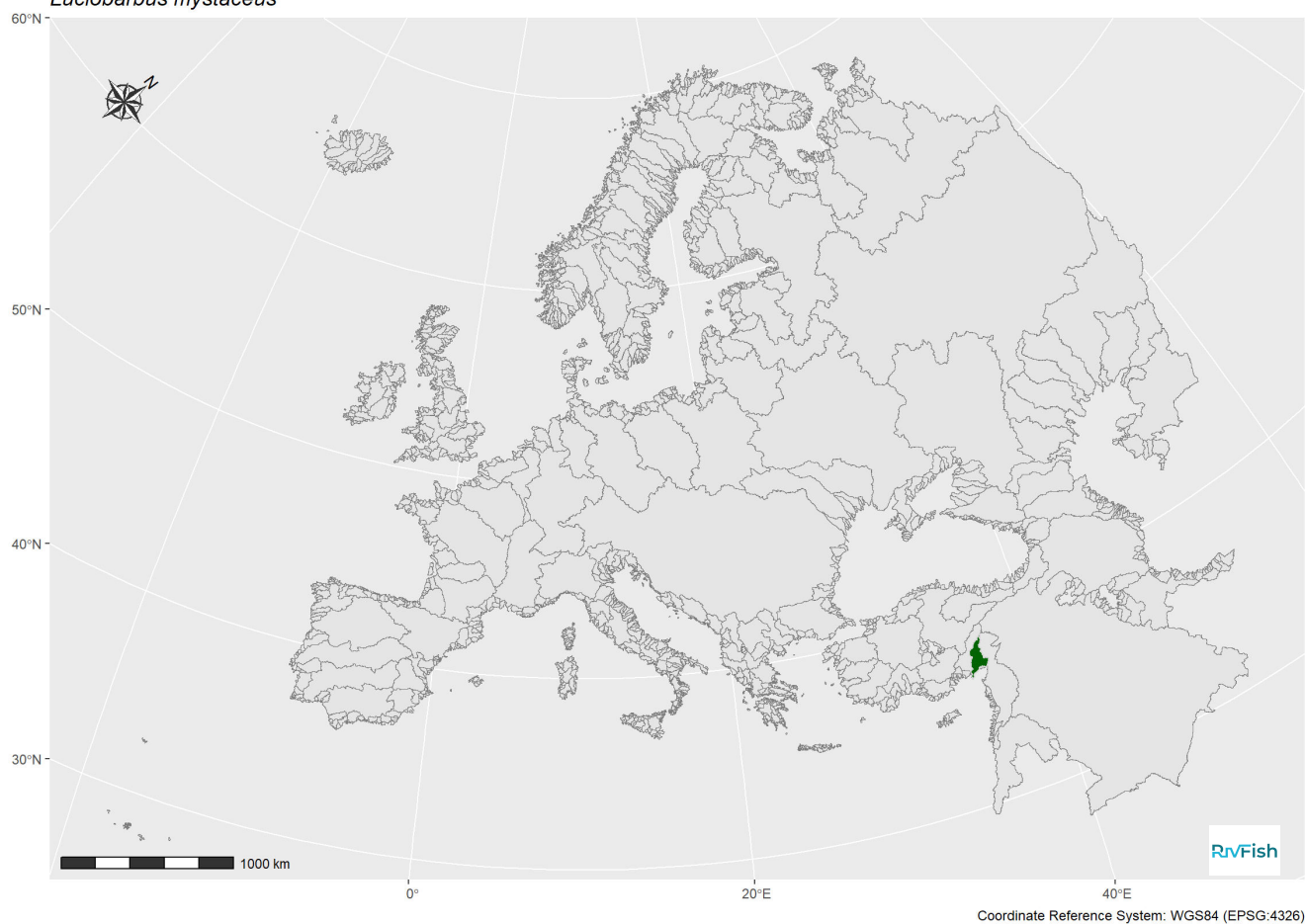
Luciobarbus microcephalus



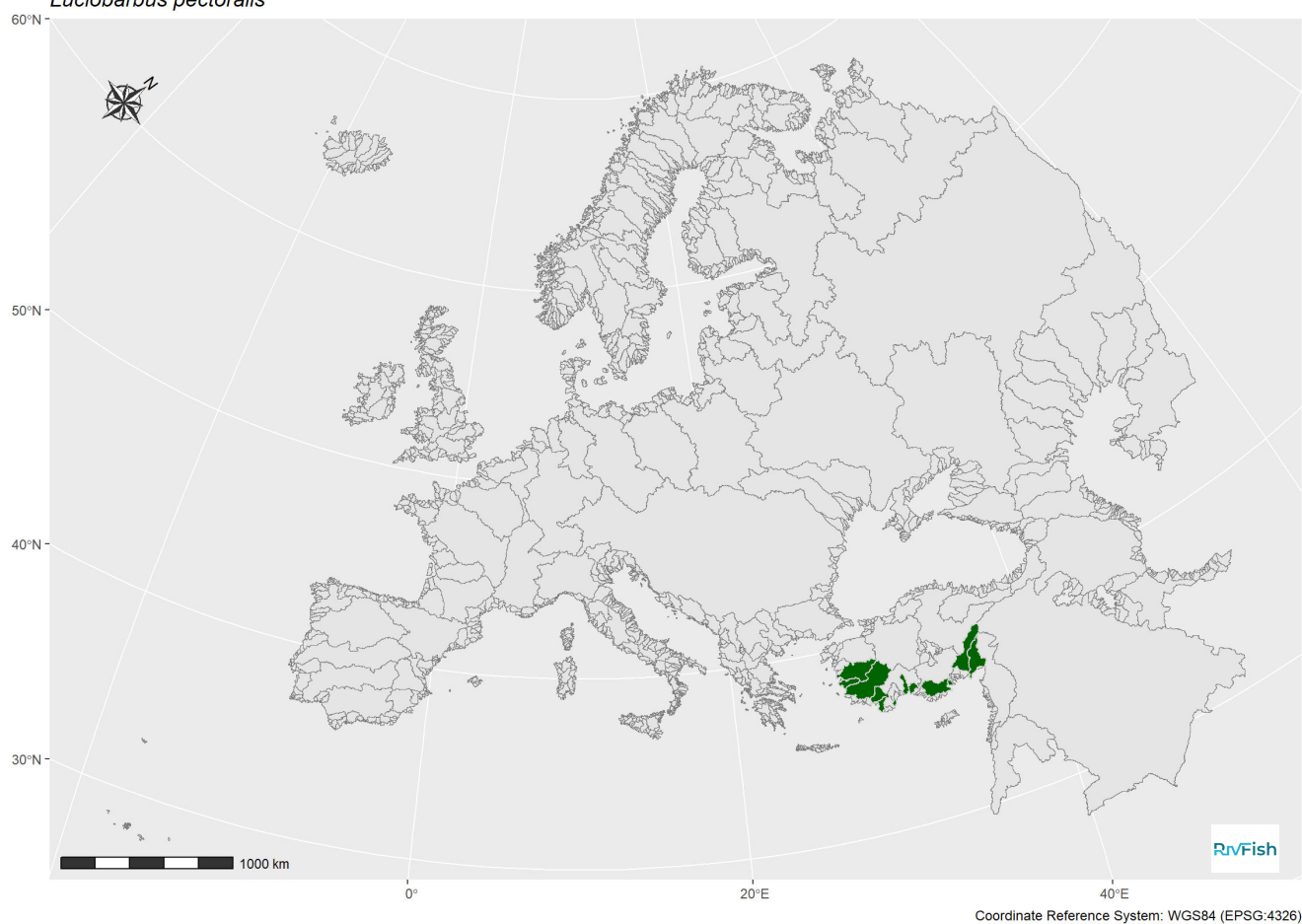
Luciobarbus mursa



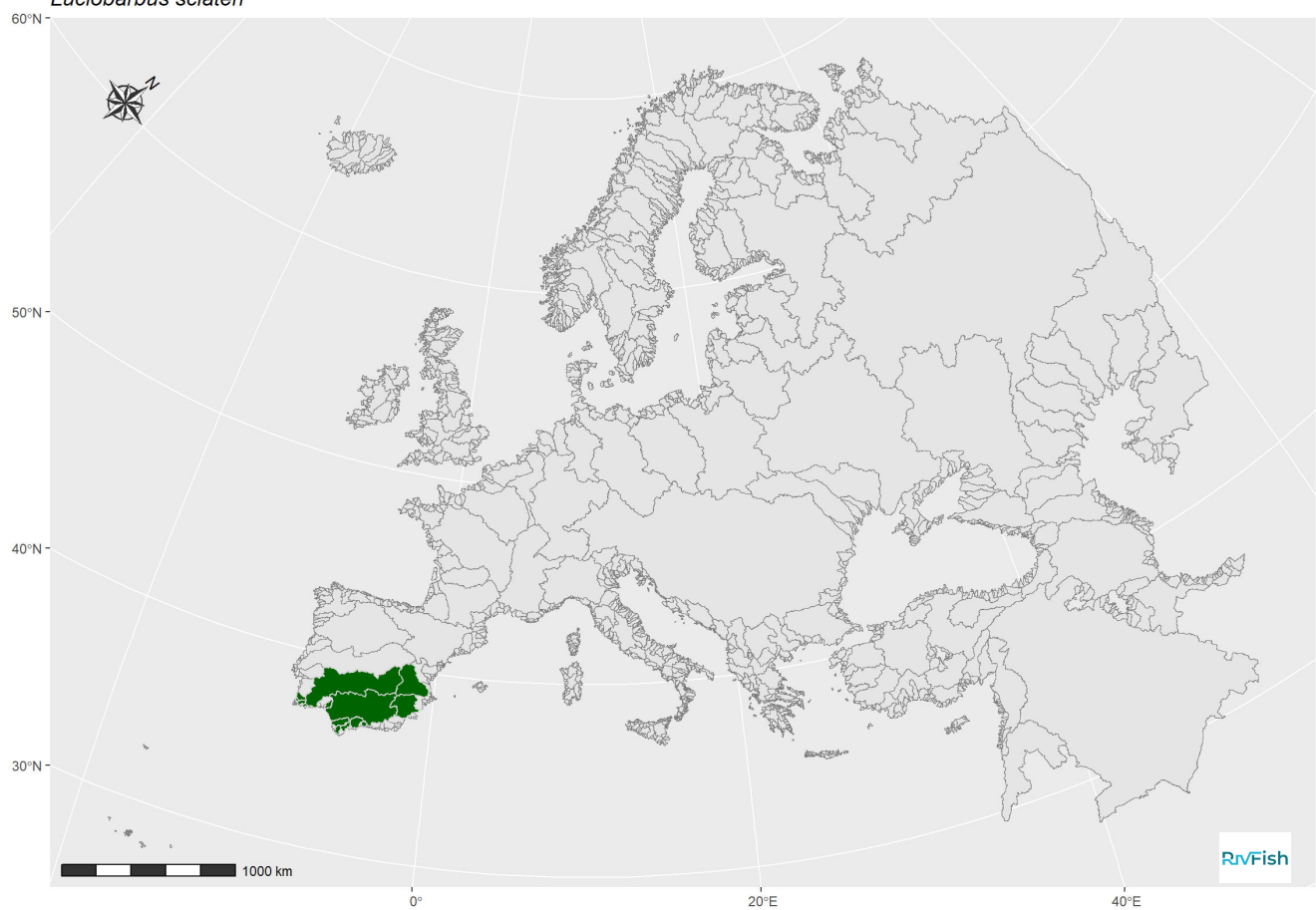
Luciobarbus mystaceus



Luciobarbus pectoralis

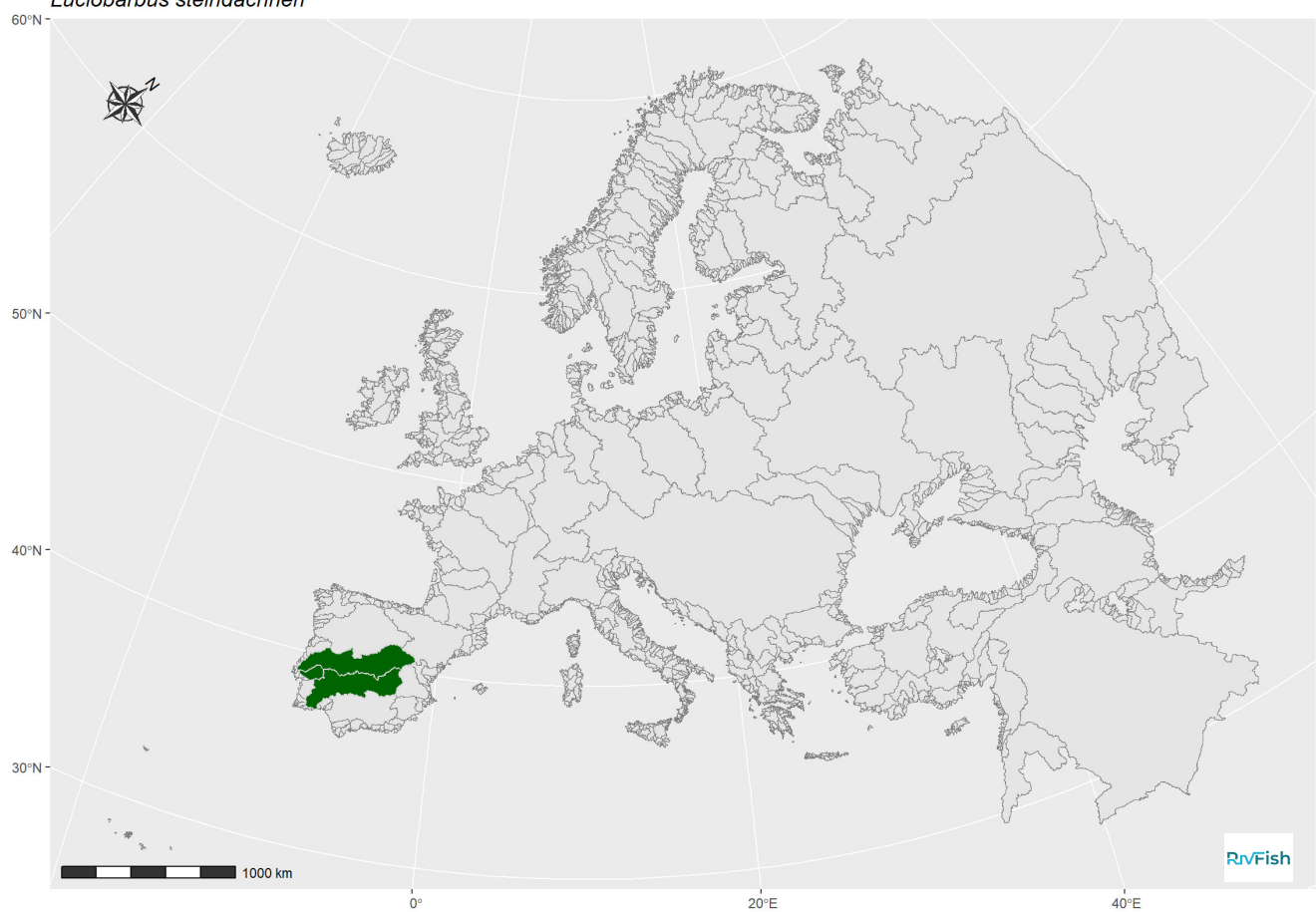


Luciobarbus sclateri



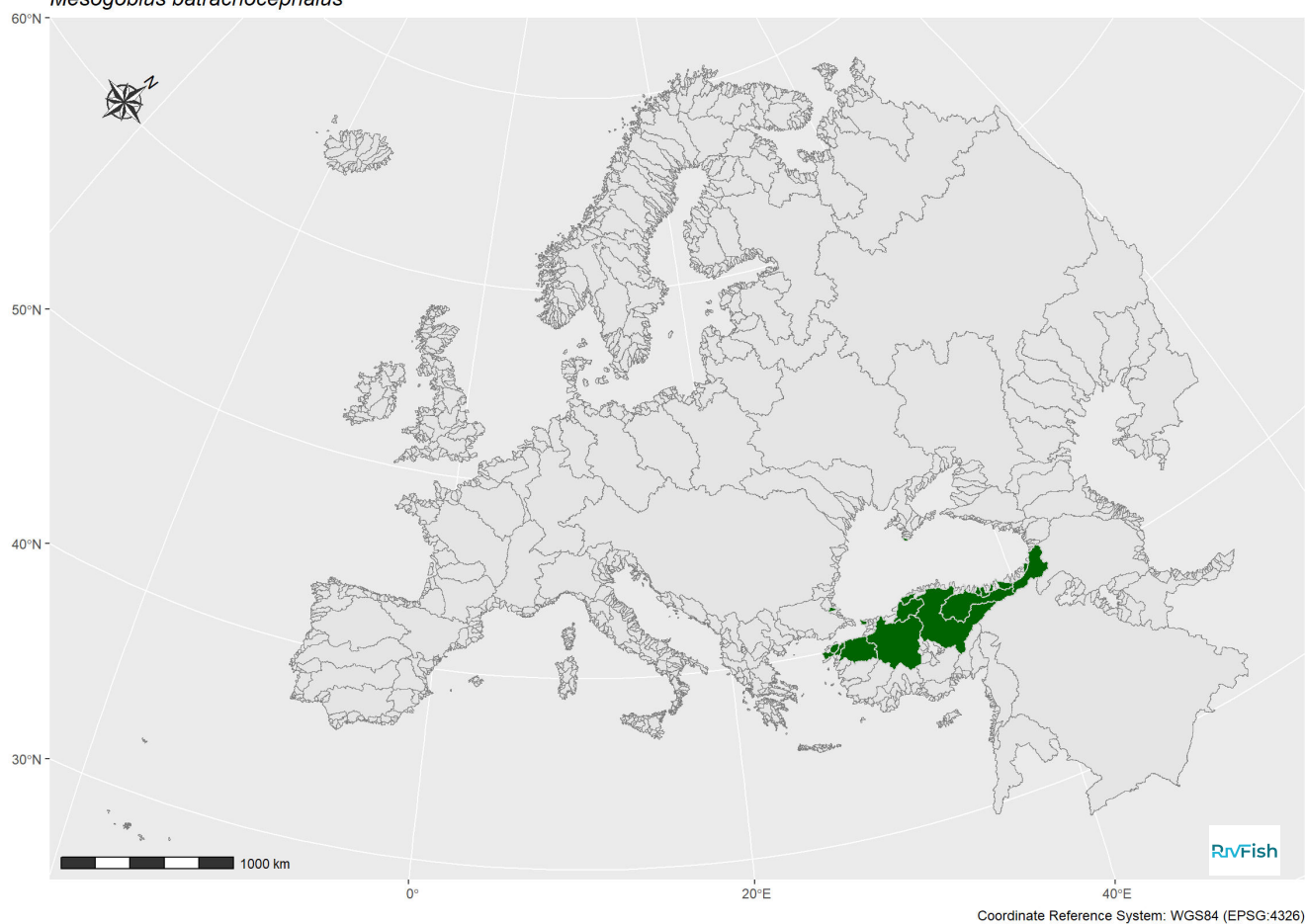
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Luciobarbus steindachneri

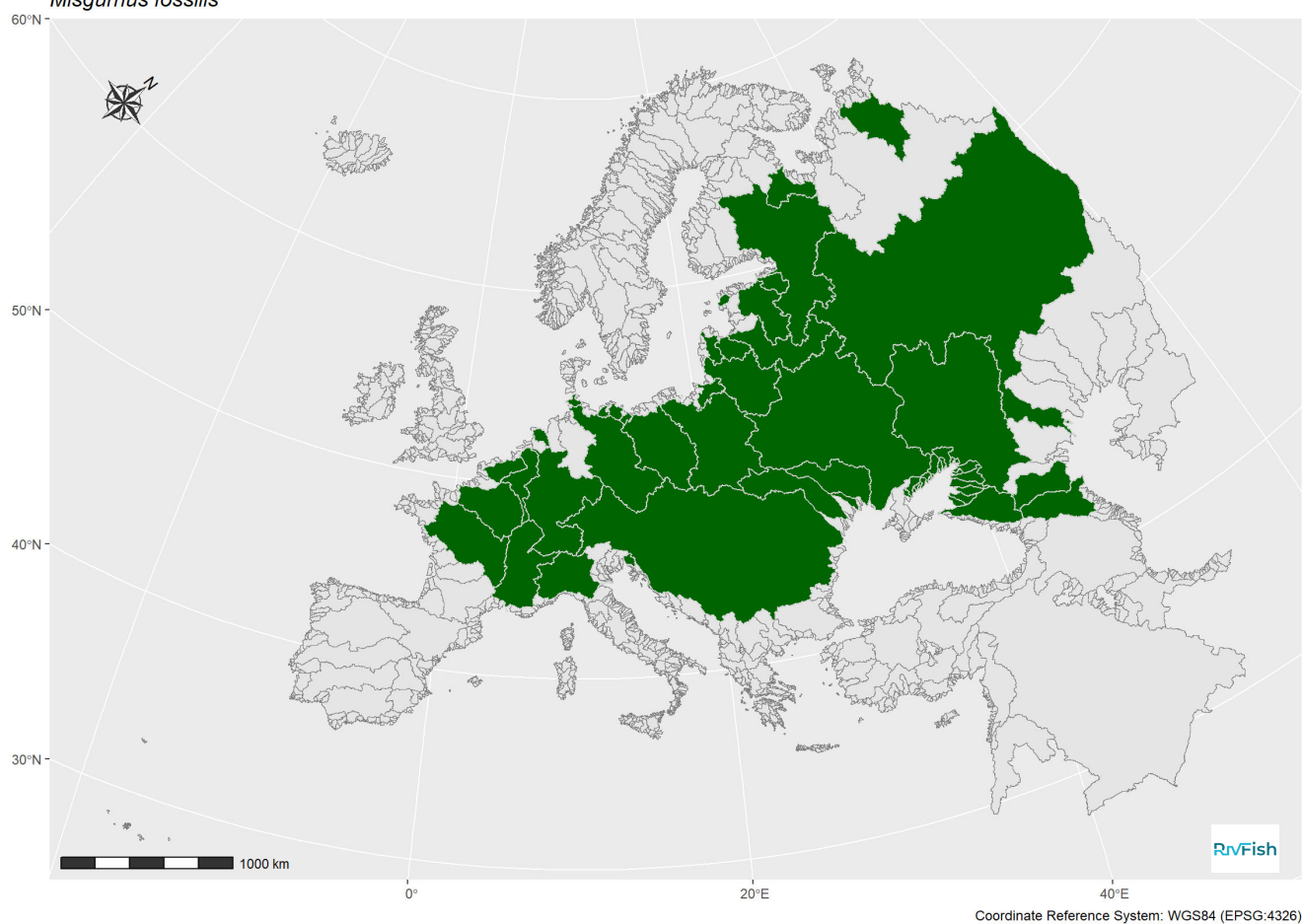


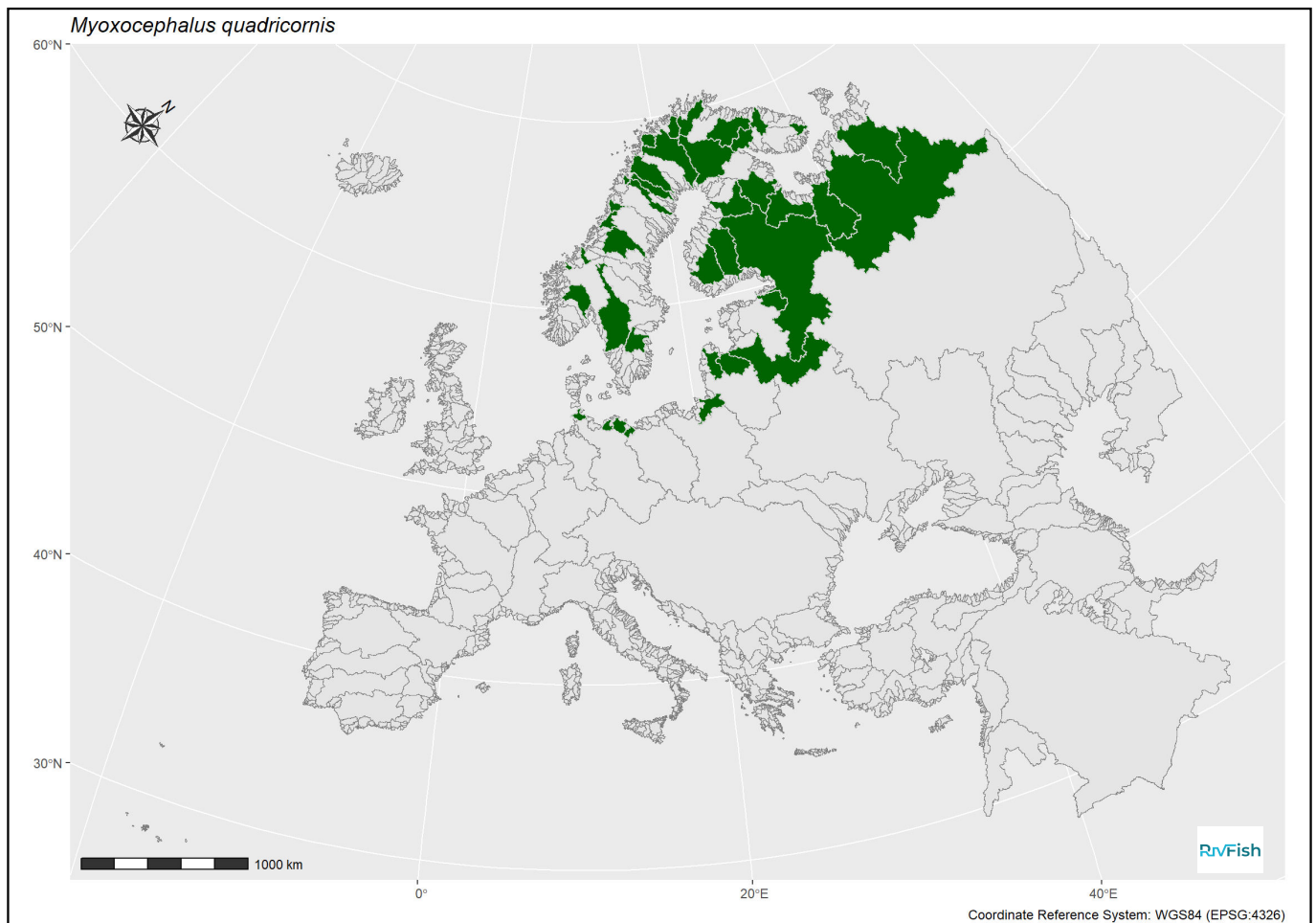
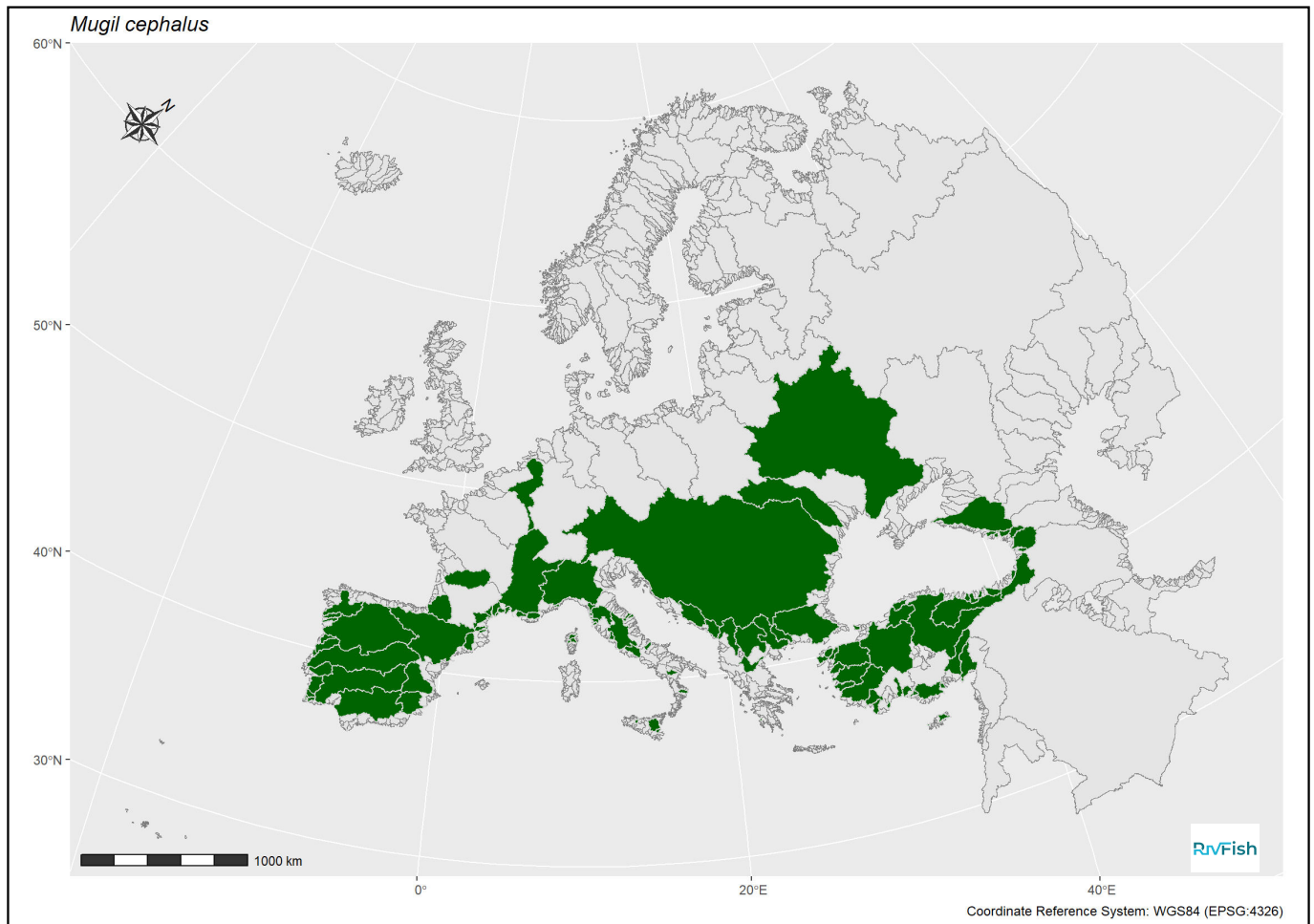
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Mesogobius batrachocephalus

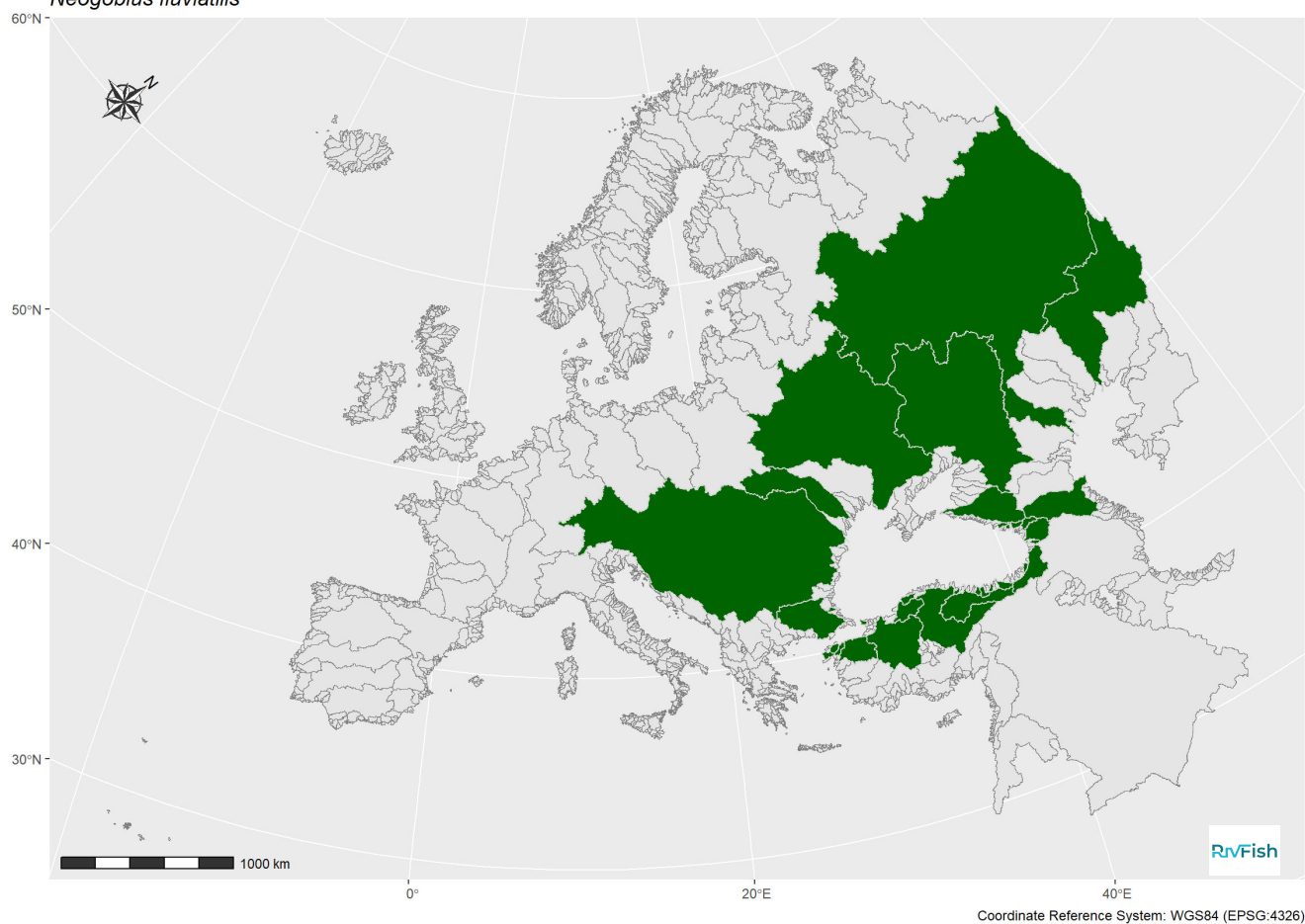


Misgurnus fossilis

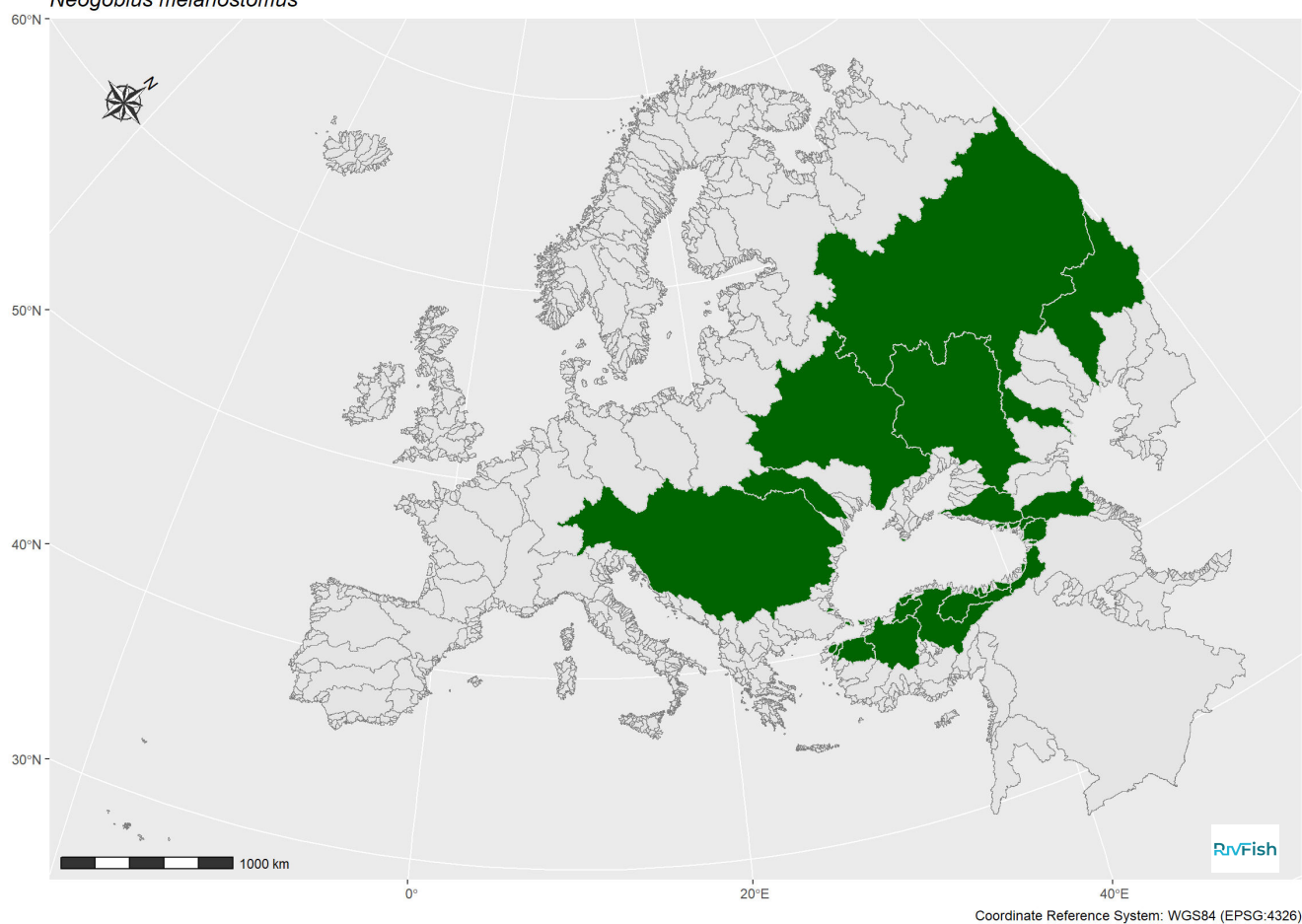




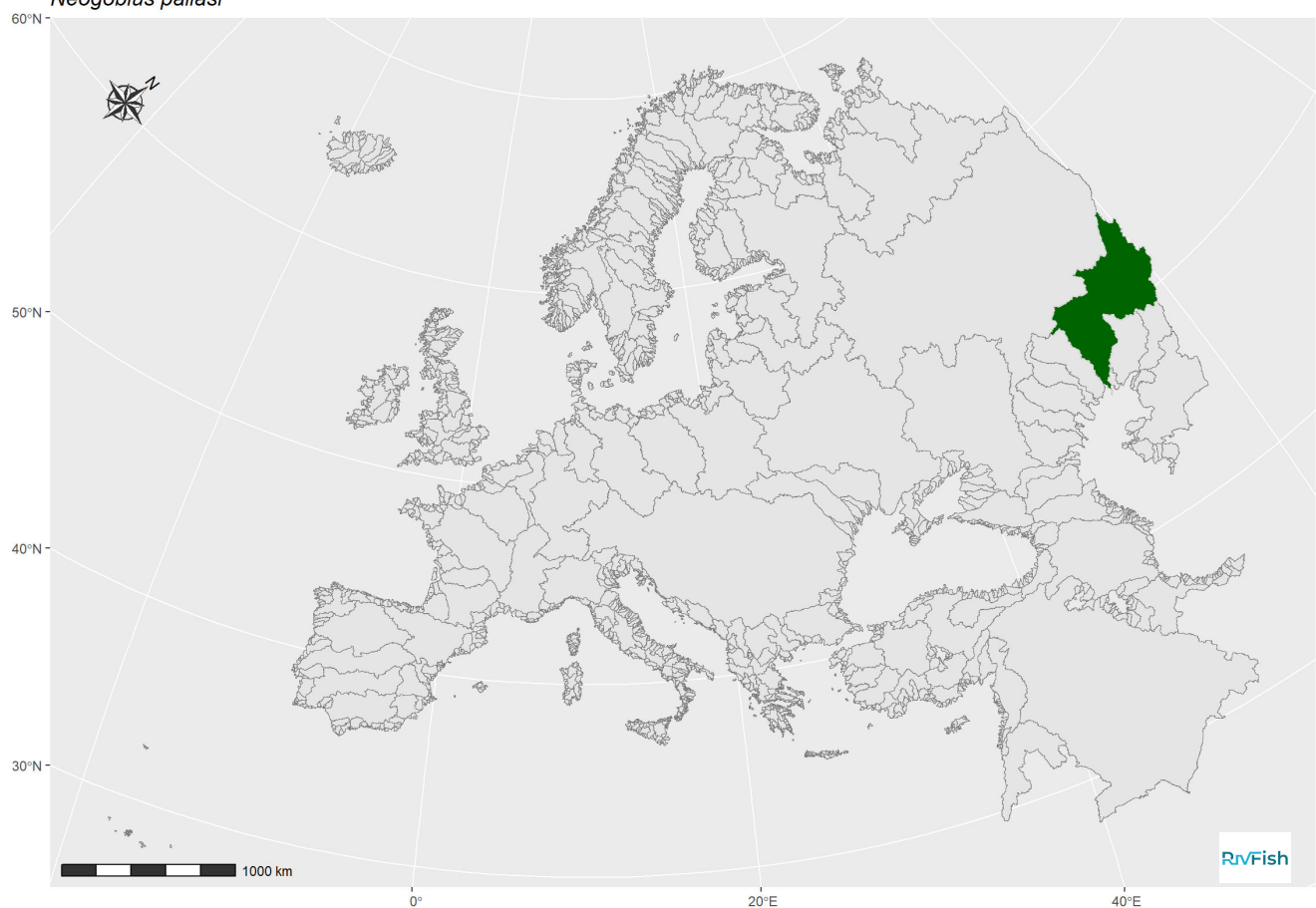
Neogobius fluviatilis



Neogobius melanostomus

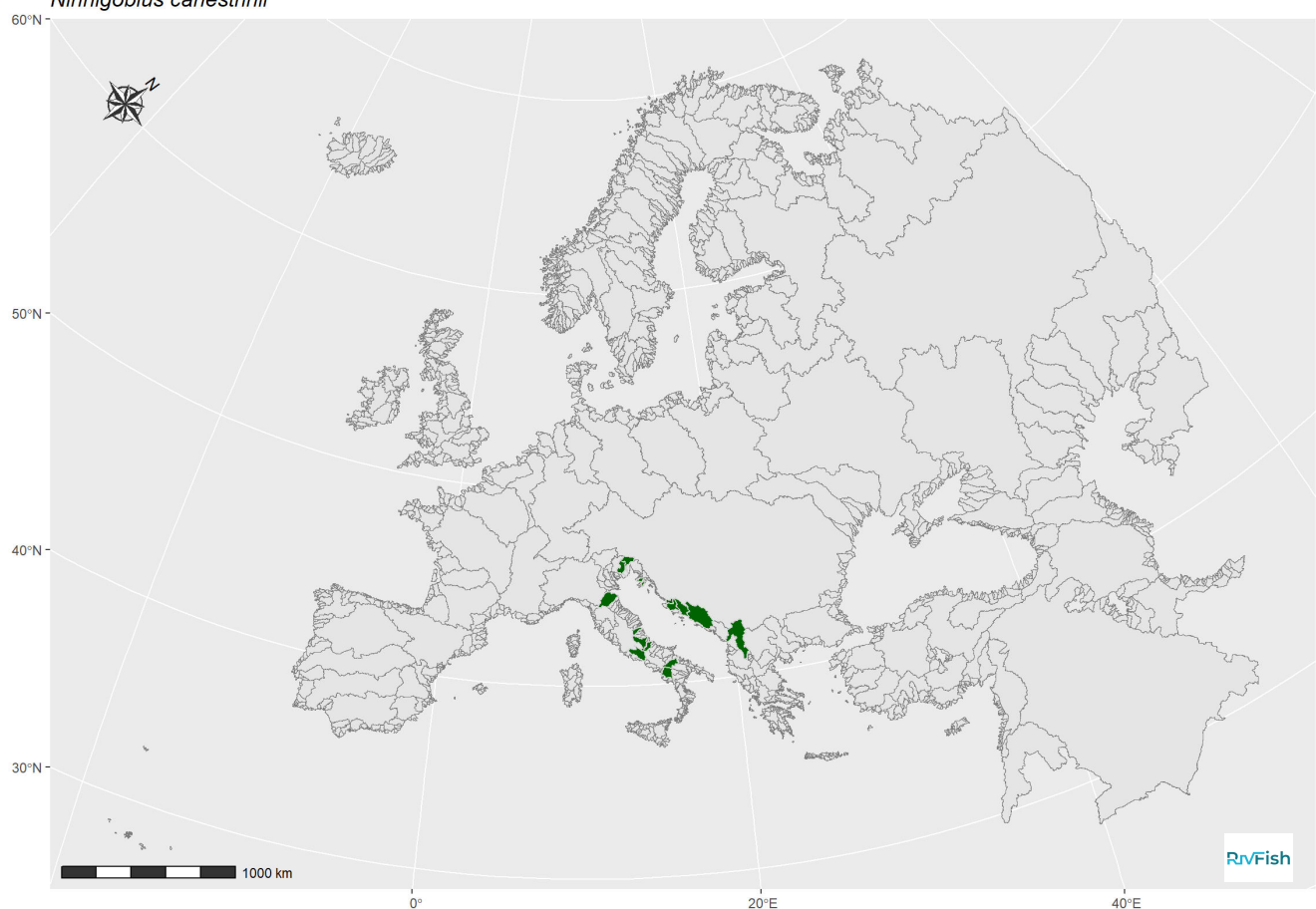


Neogobius pallasii



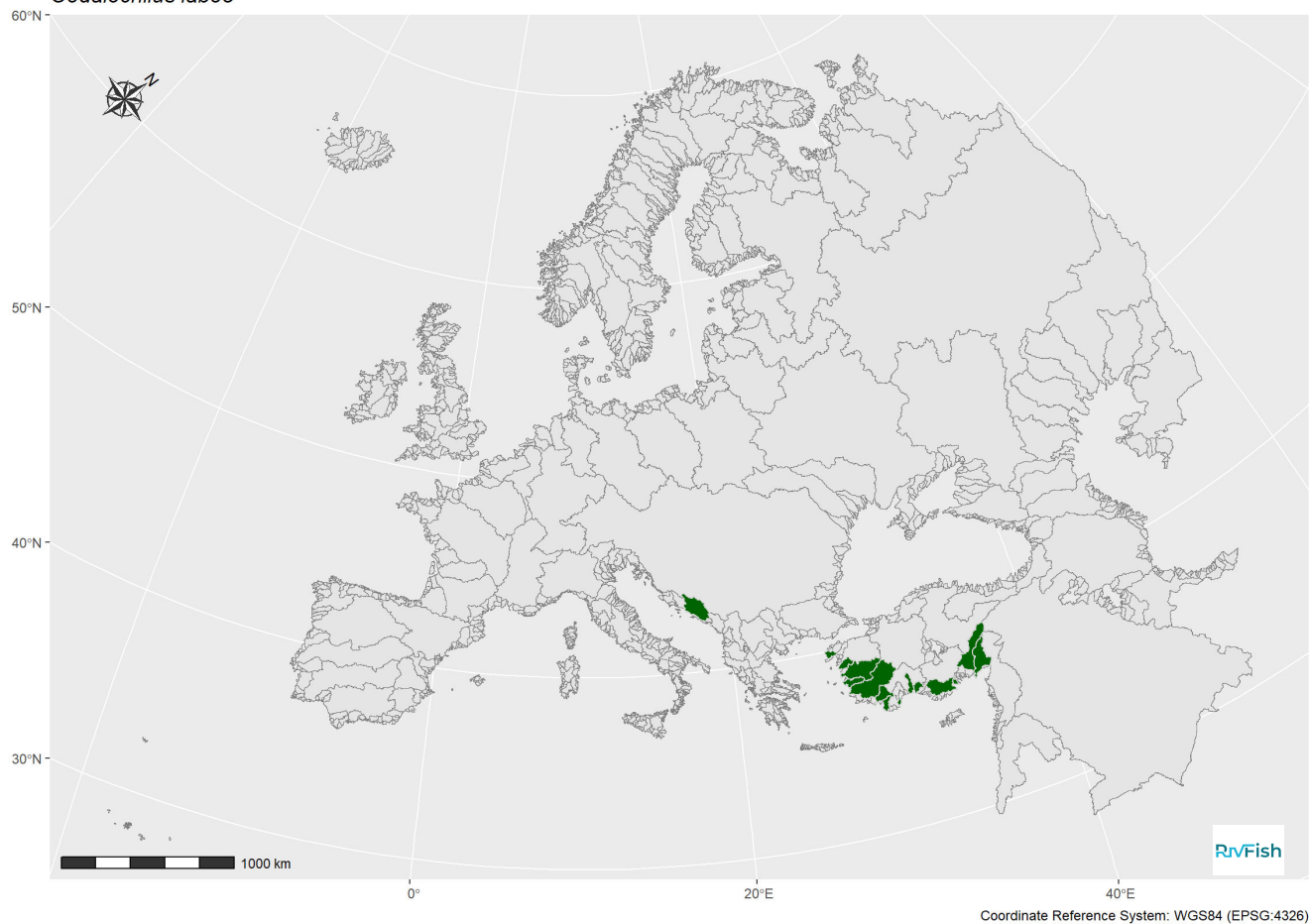
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Ninnigobius canestrinii

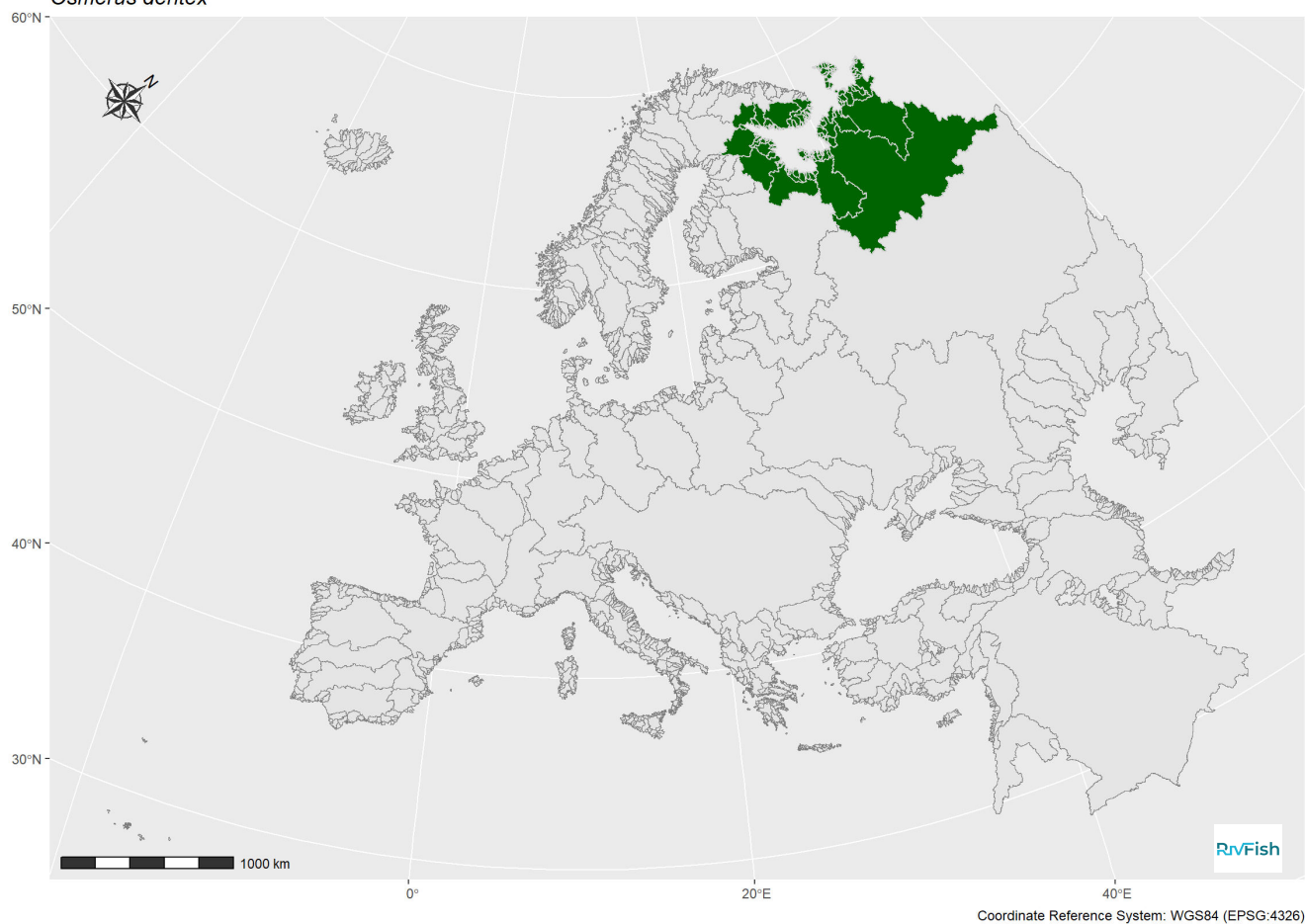


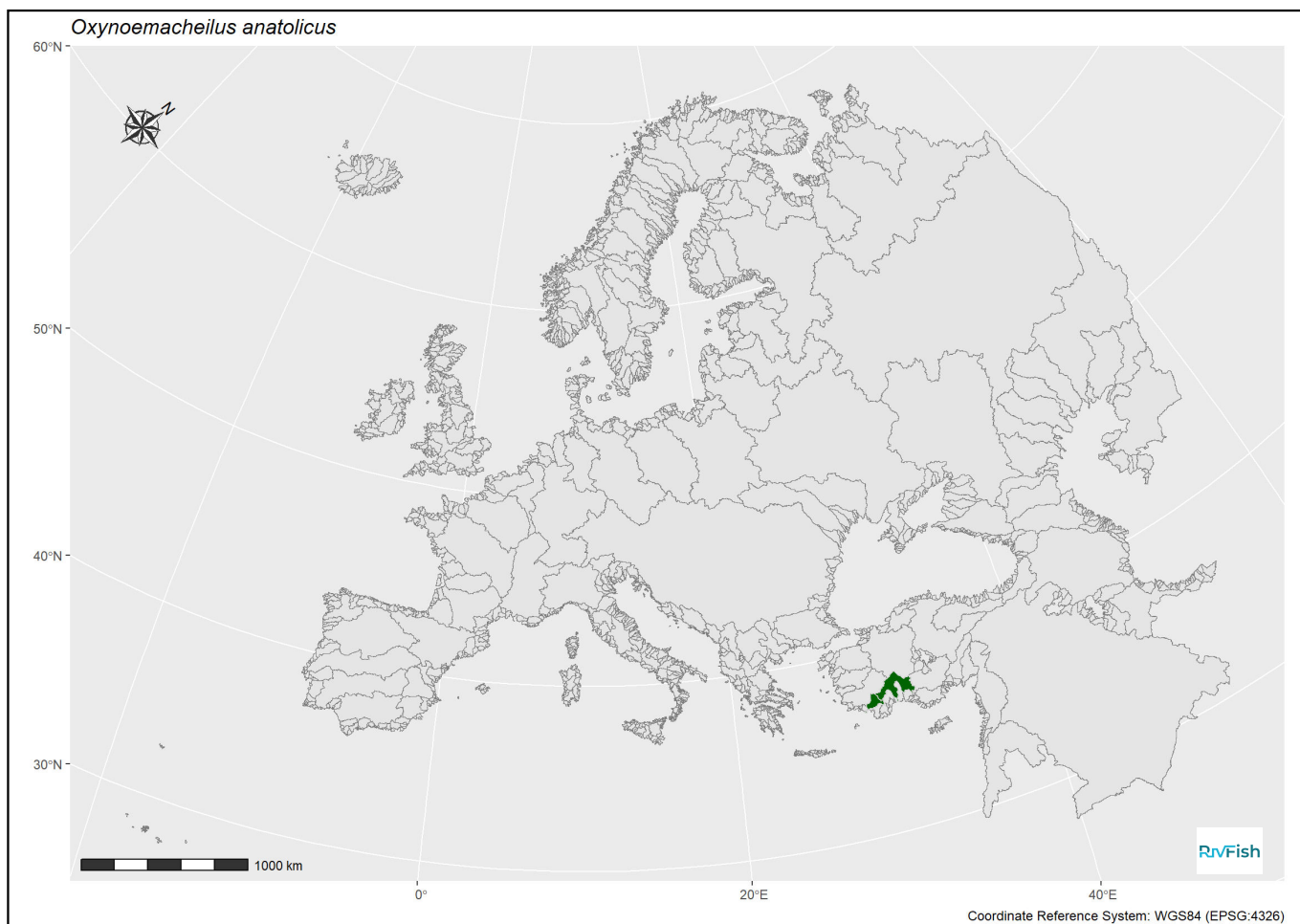
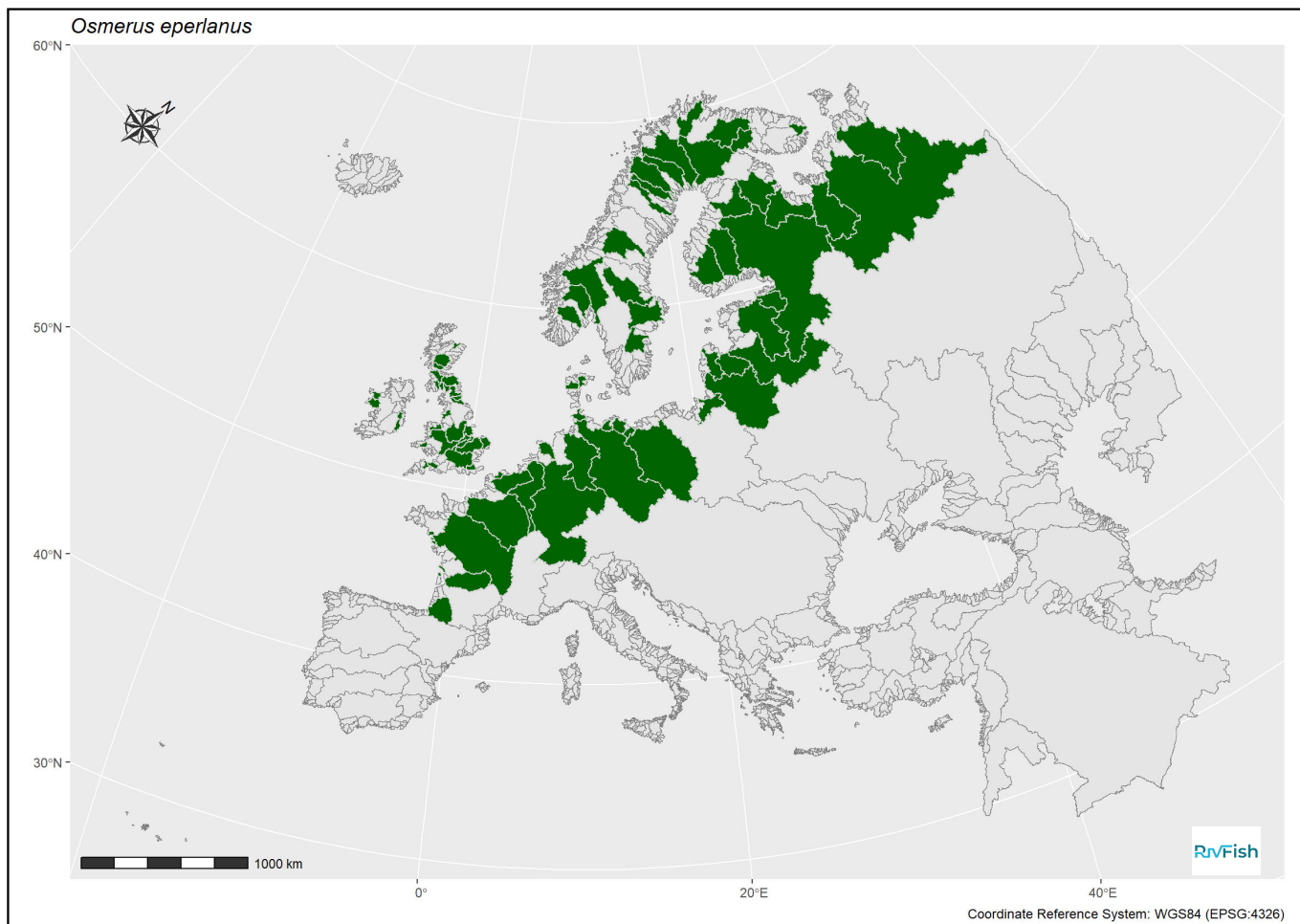
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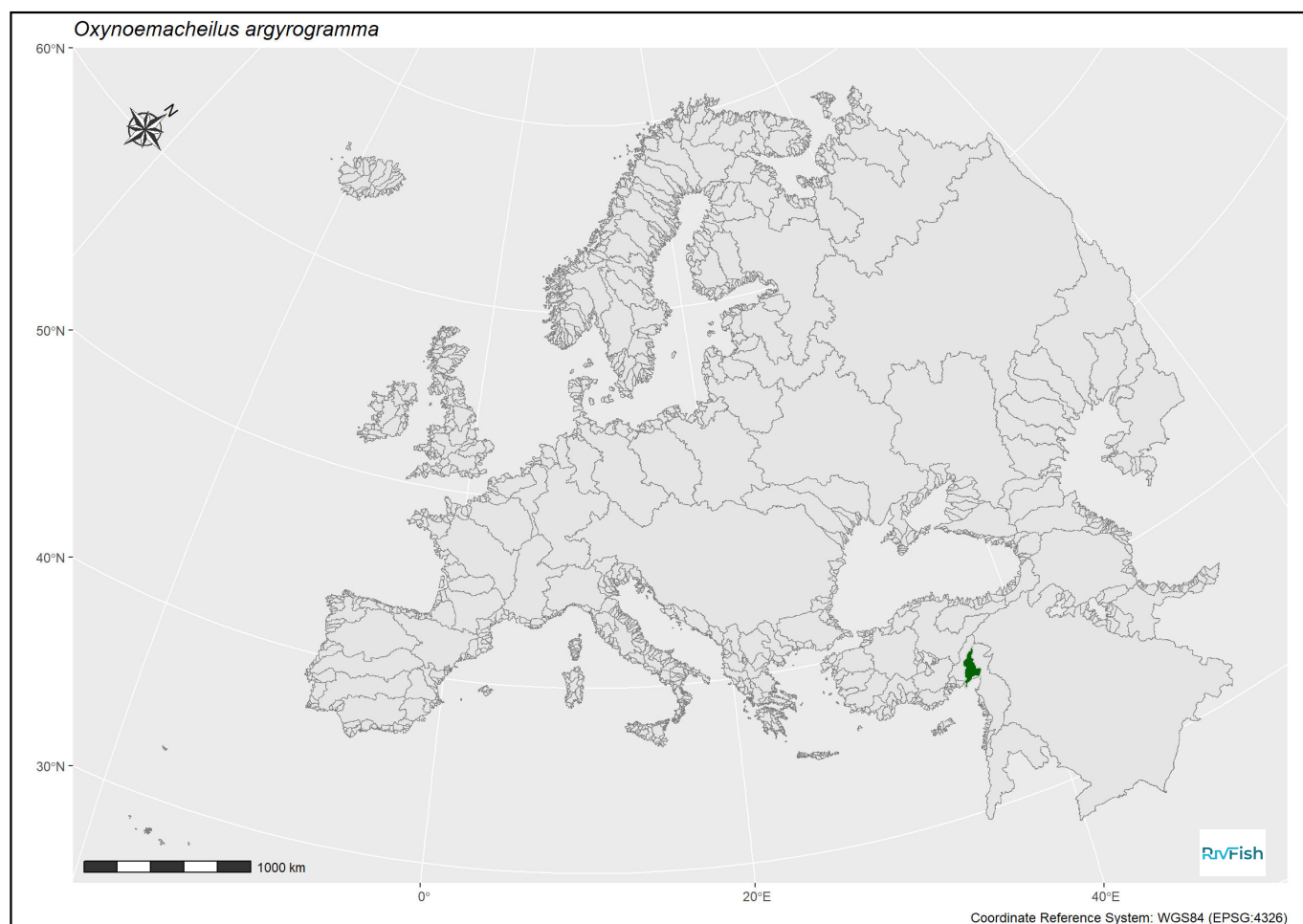
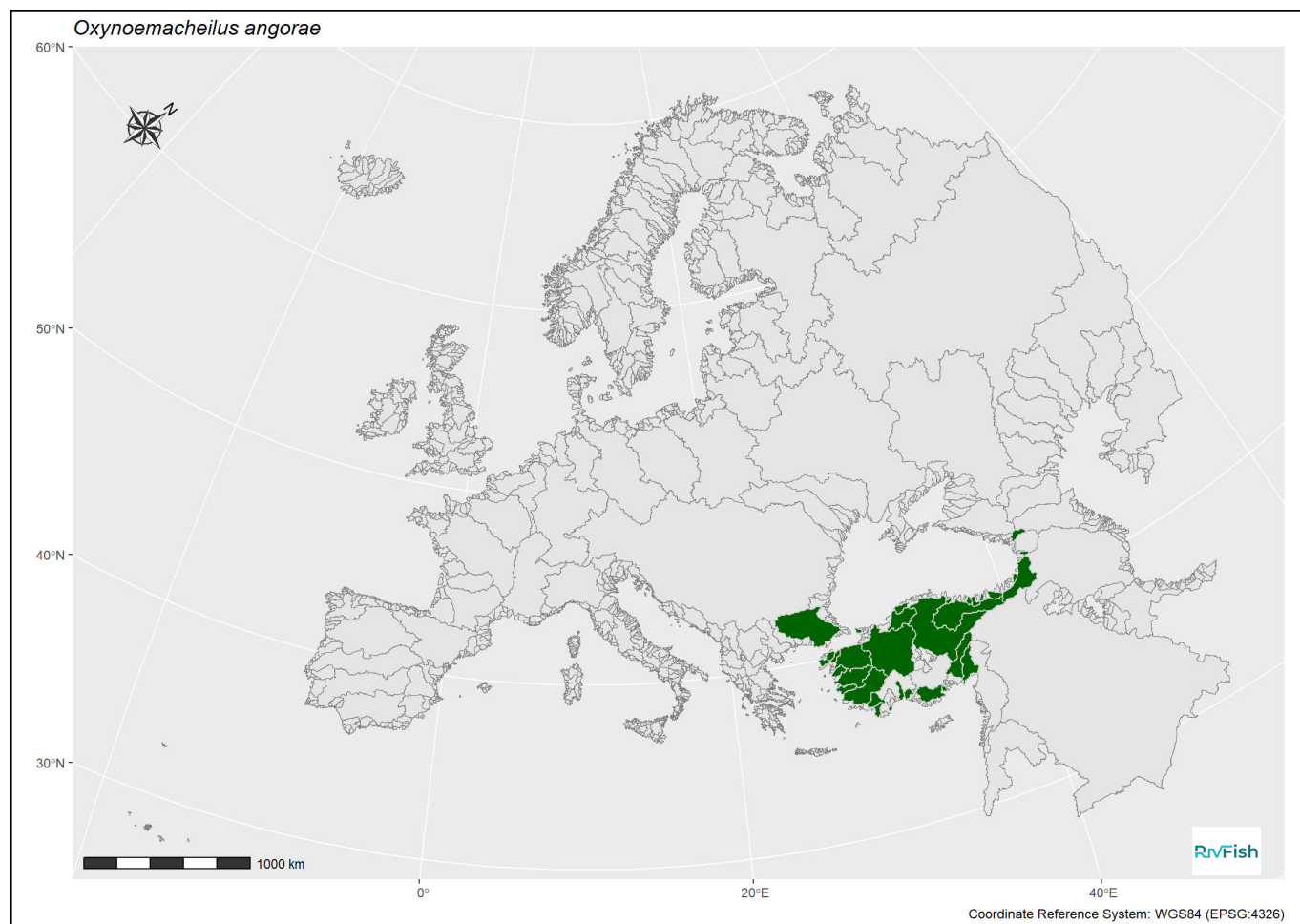
Oedalechilus labeo



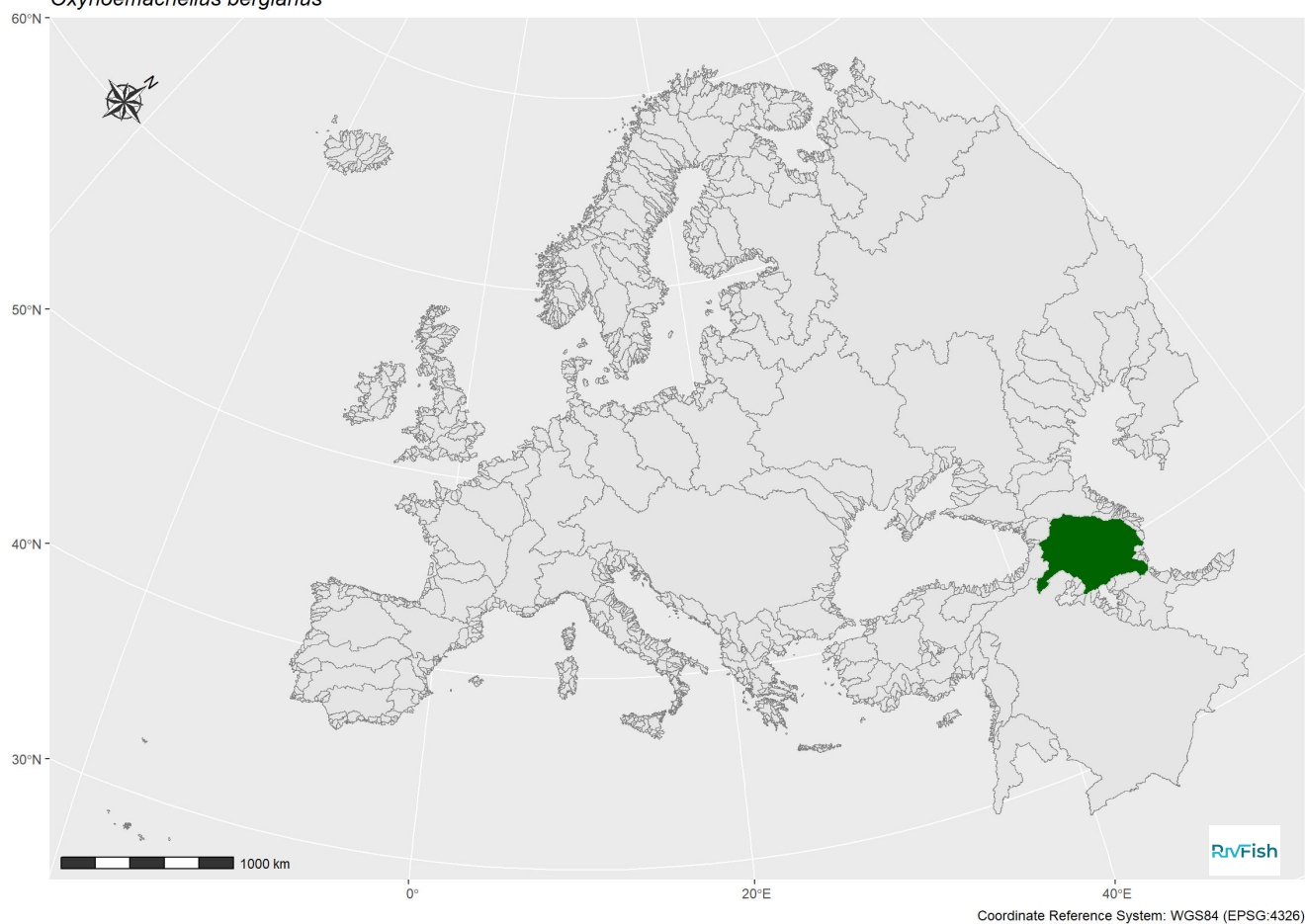
Osmerus dentex



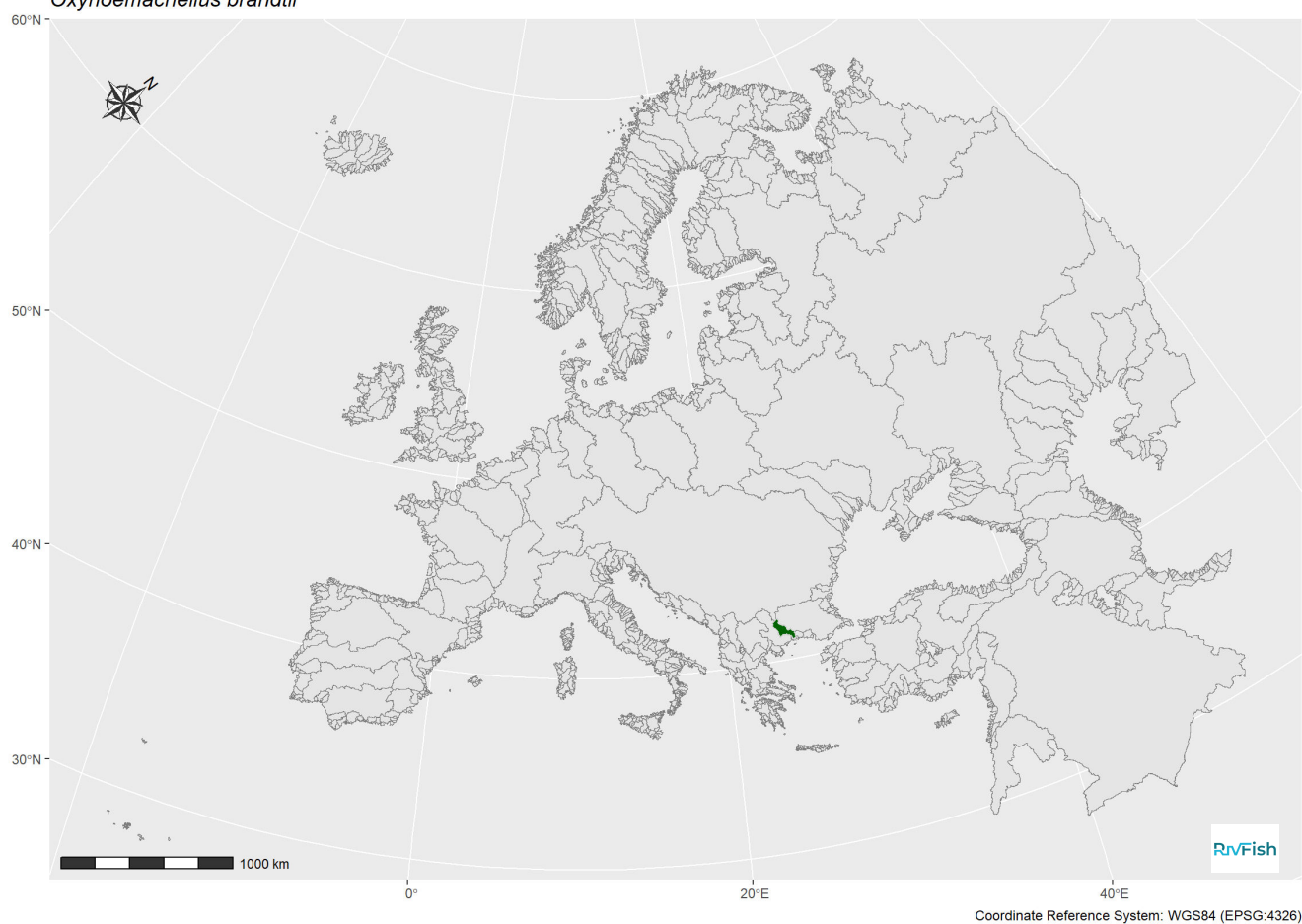




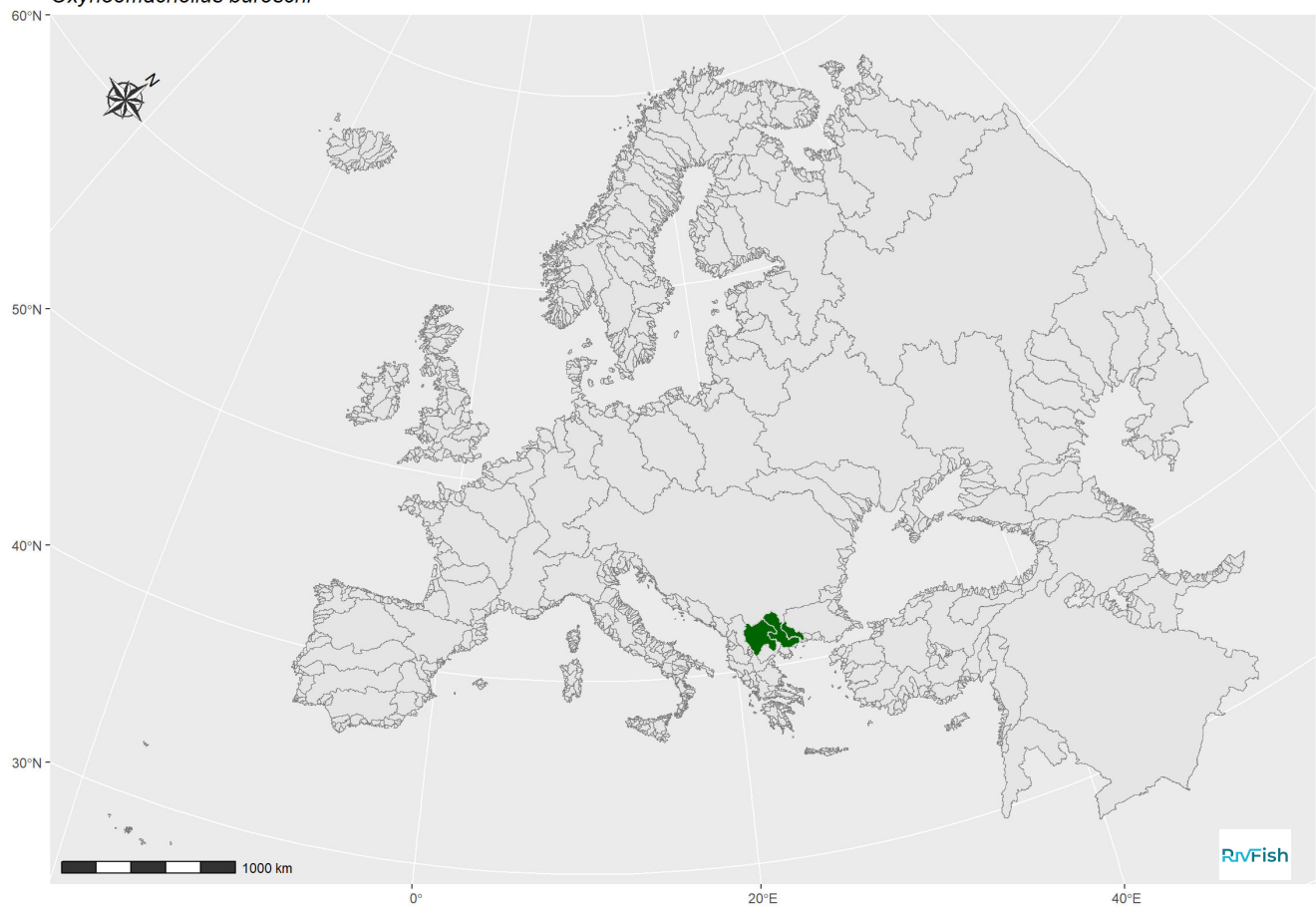
Oxynoemacheilus bergianus



Oxynoemacheilus brandtii



Oxynoemacheilus bureschi



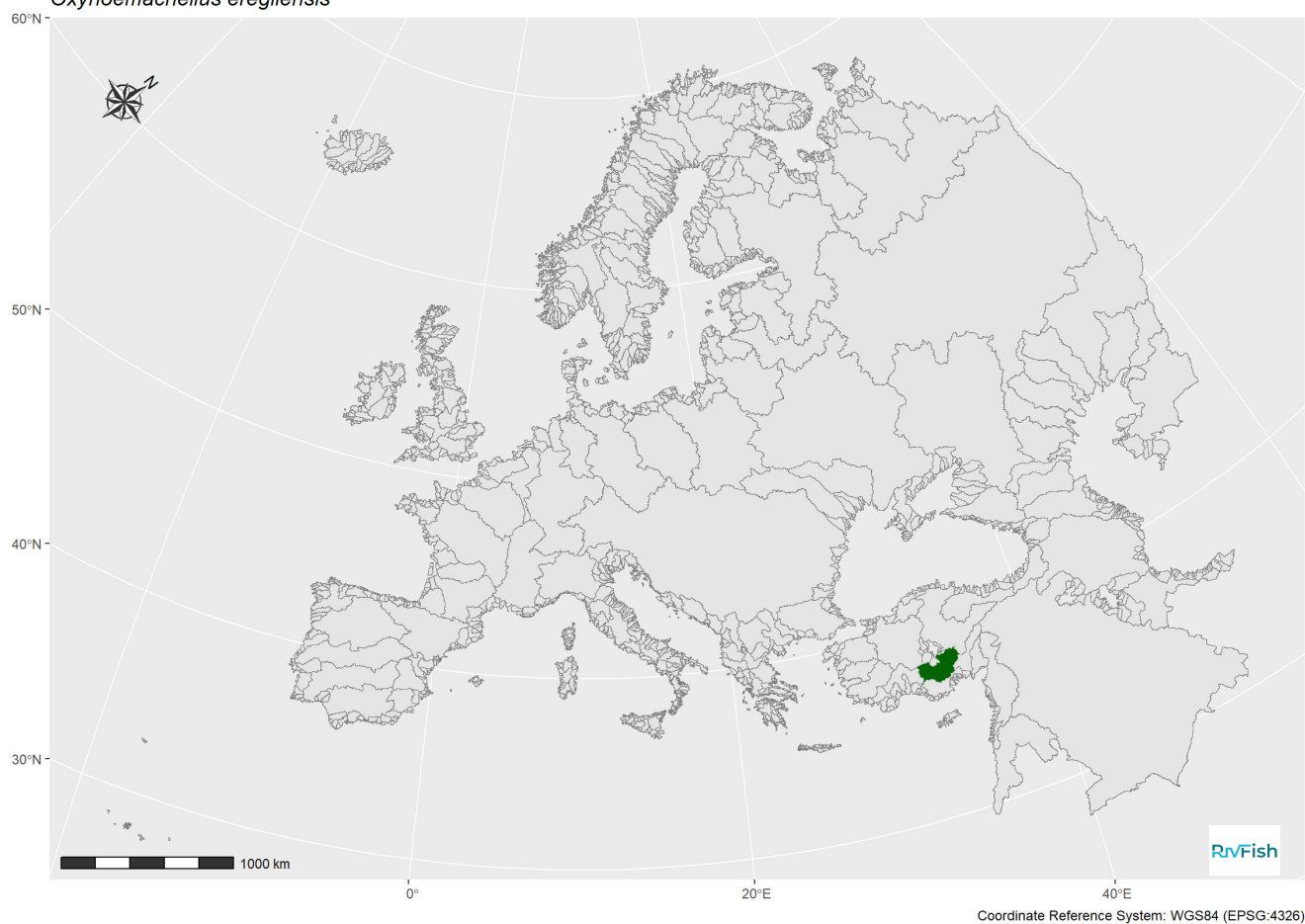
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Oxynoemacheilus ceyhanensis

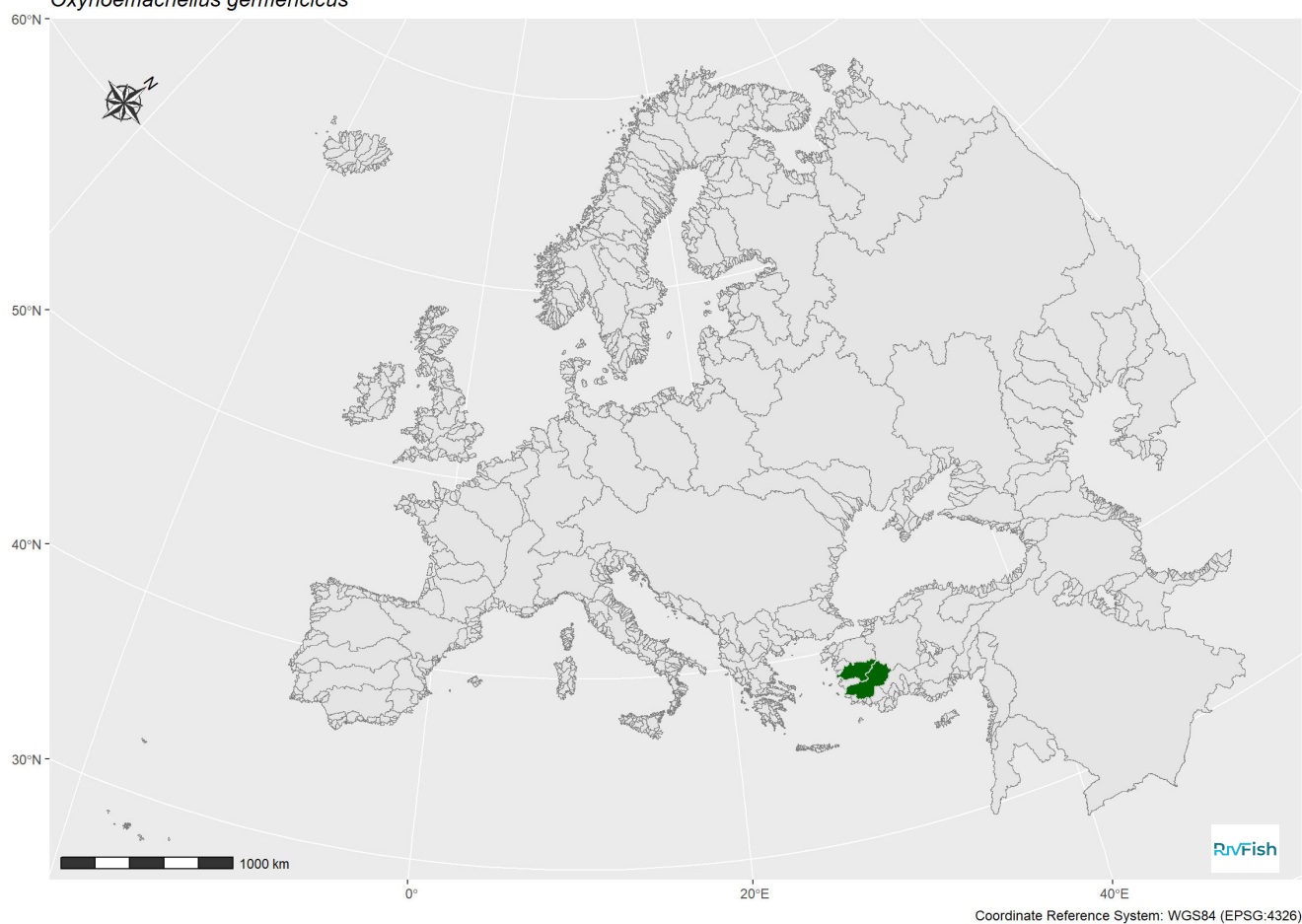


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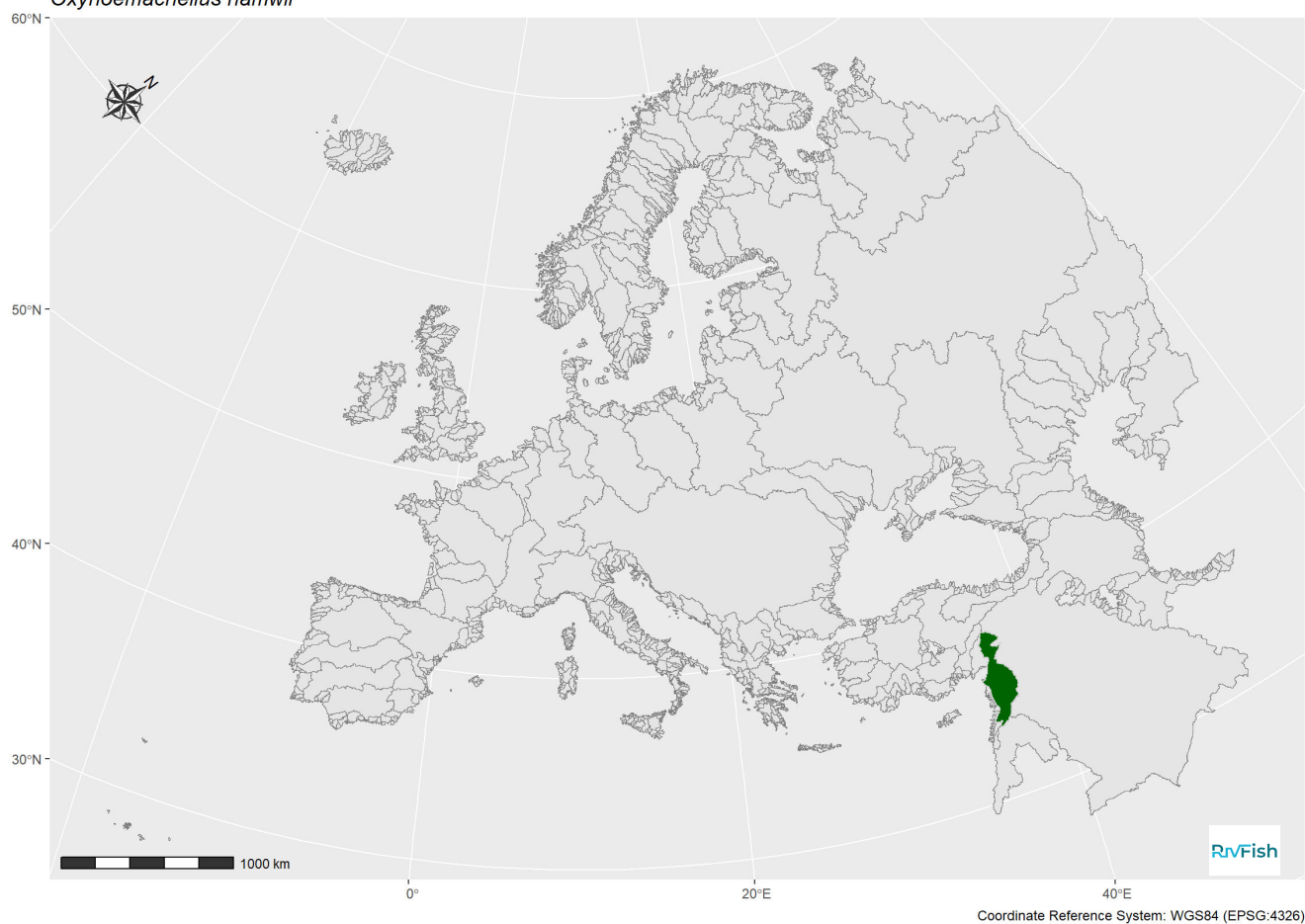
Oxynoemacheilus eregliensis



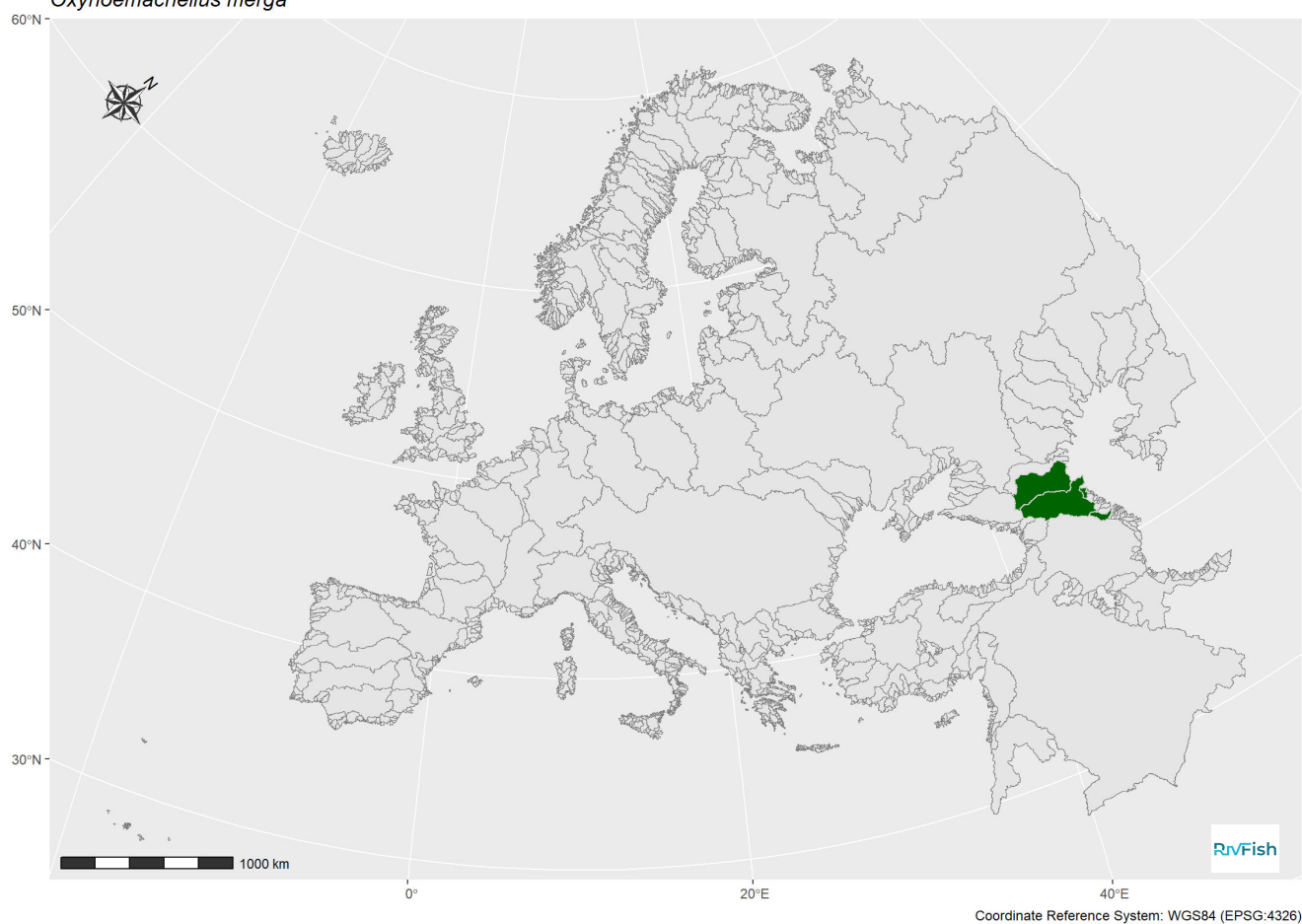
Oxynoemacheilus germencicus



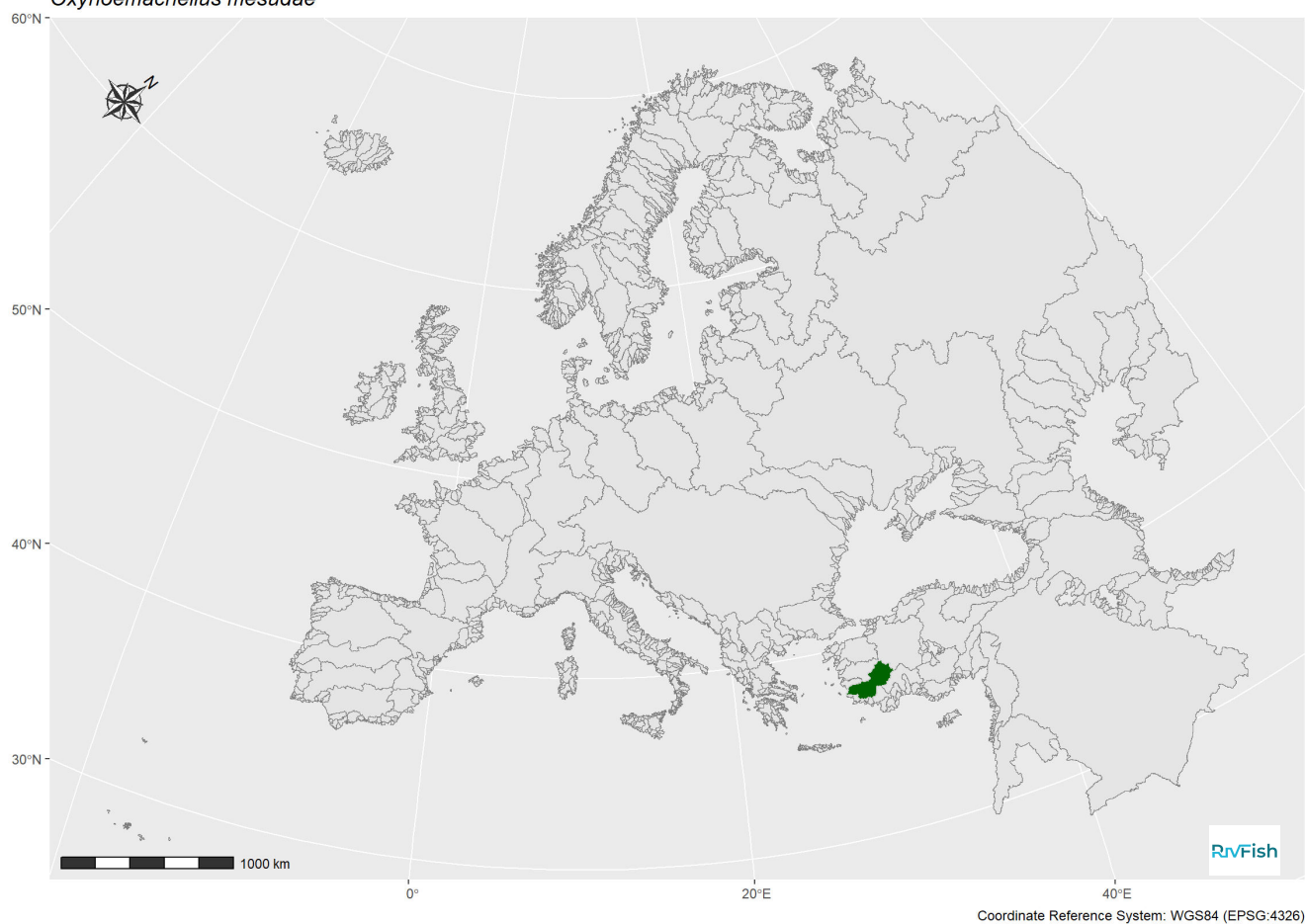
Oxynoemacheilus hamwii



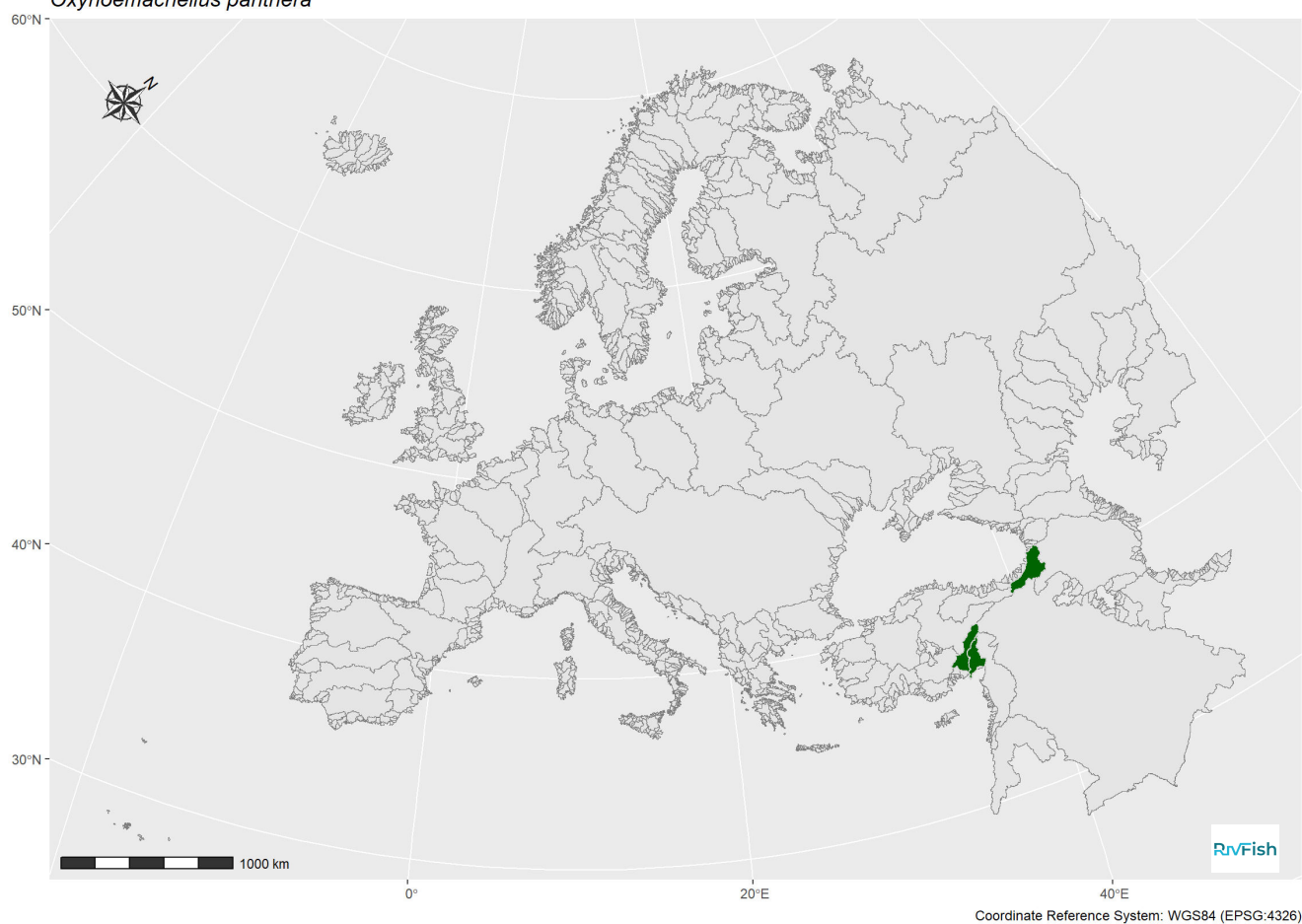
Oxynoemacheilus merga



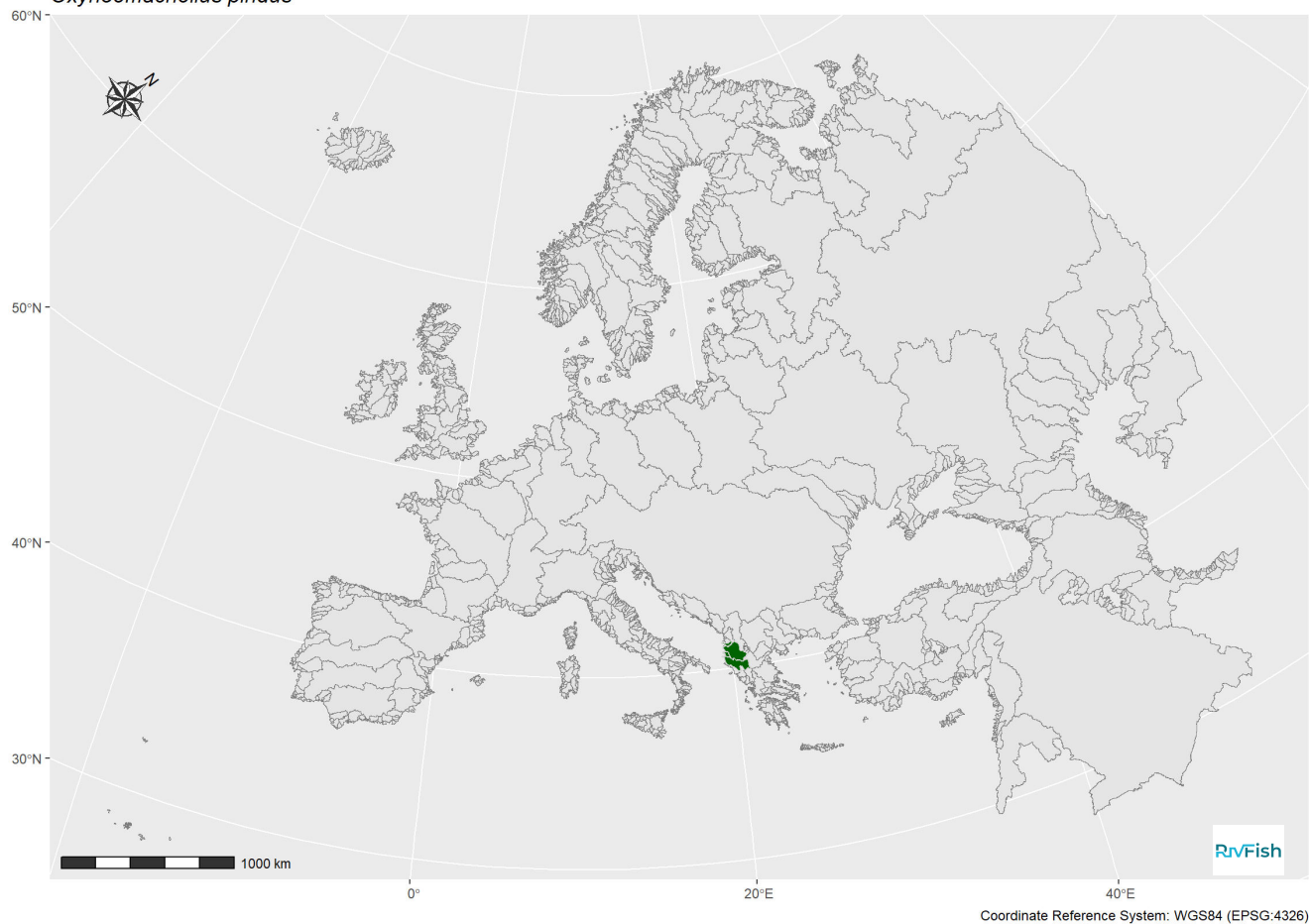
Oxynoemacheilus mesudae



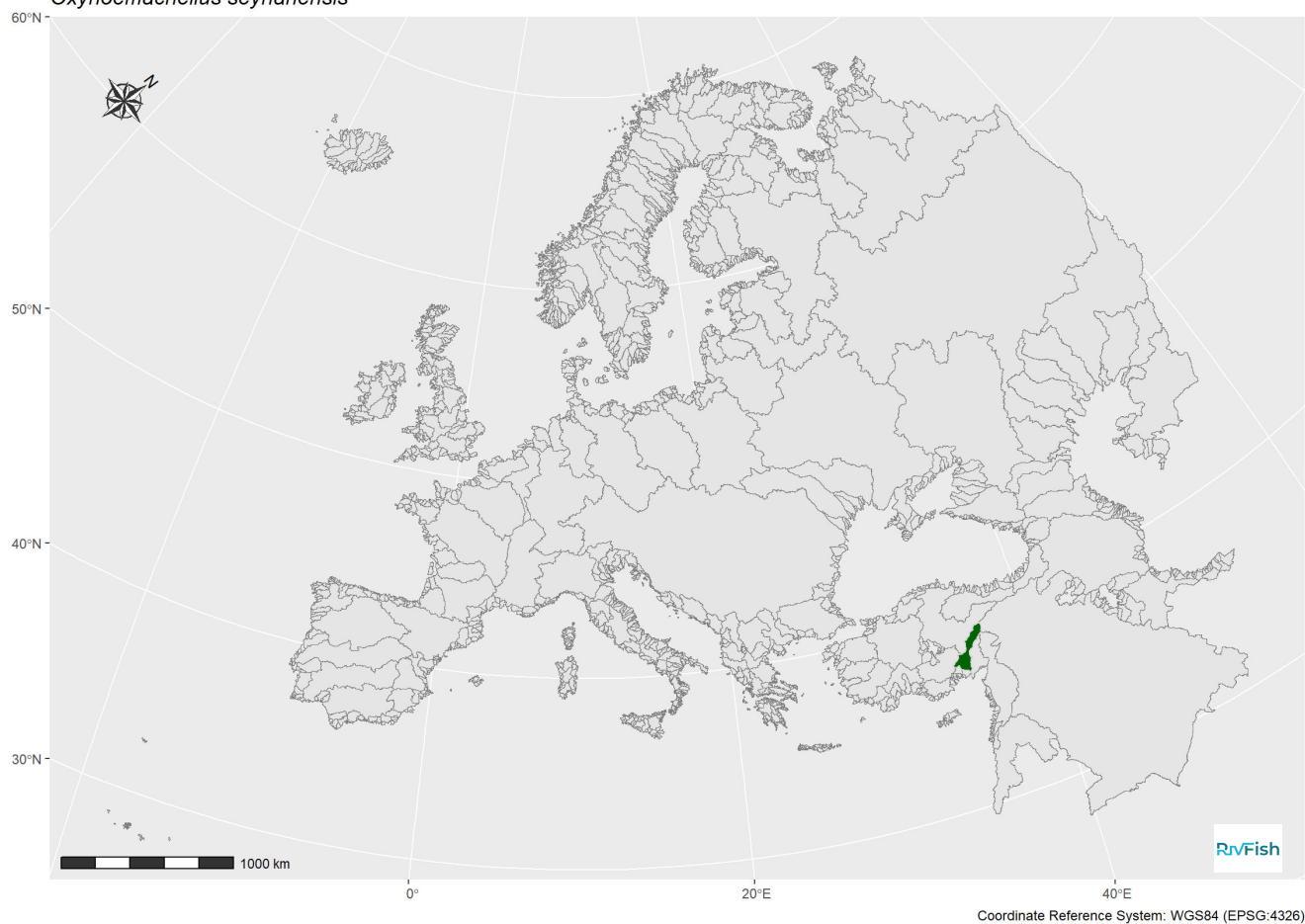
Oxynoemacheilus panthera



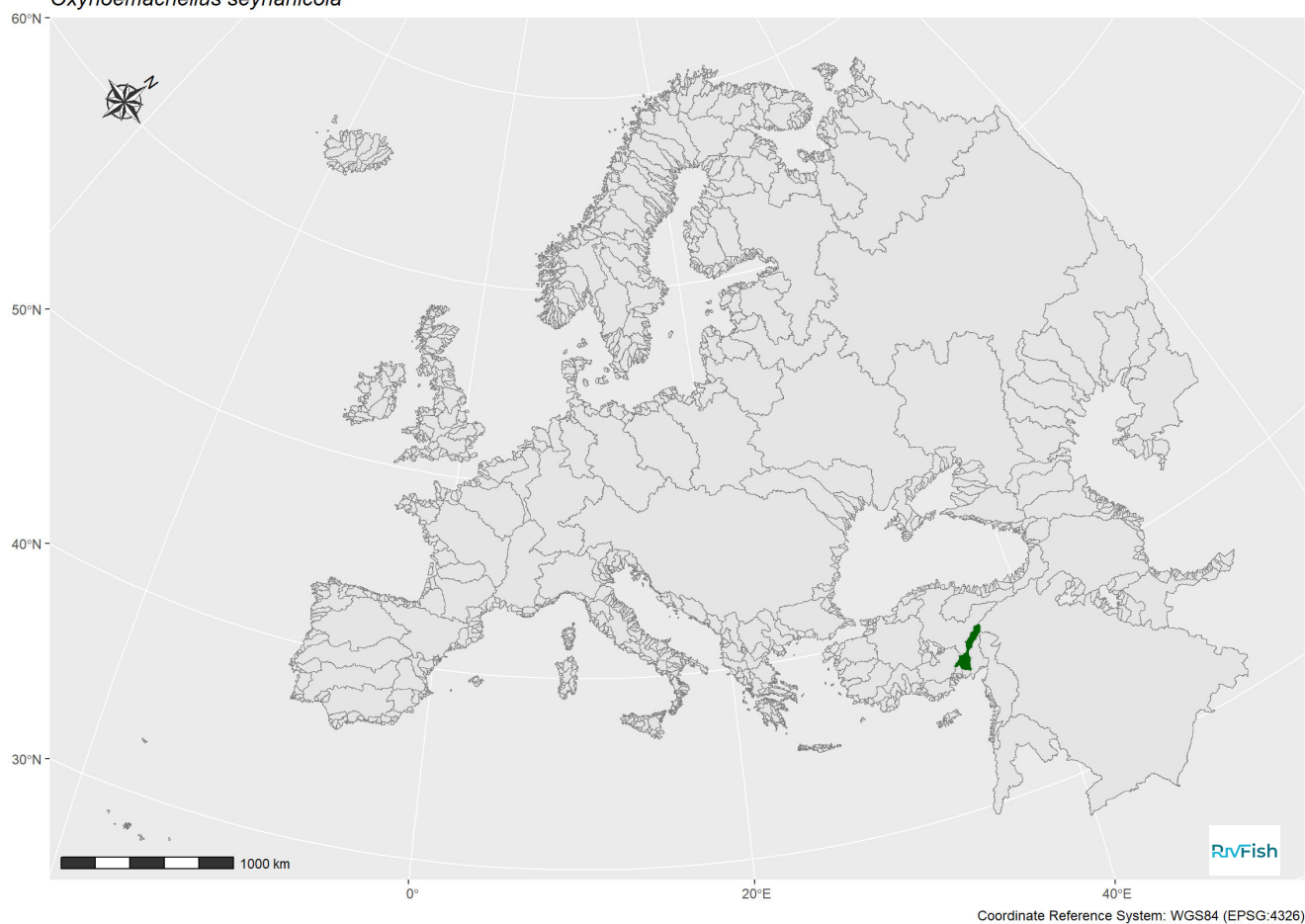
Oxynoemacheilus pindus



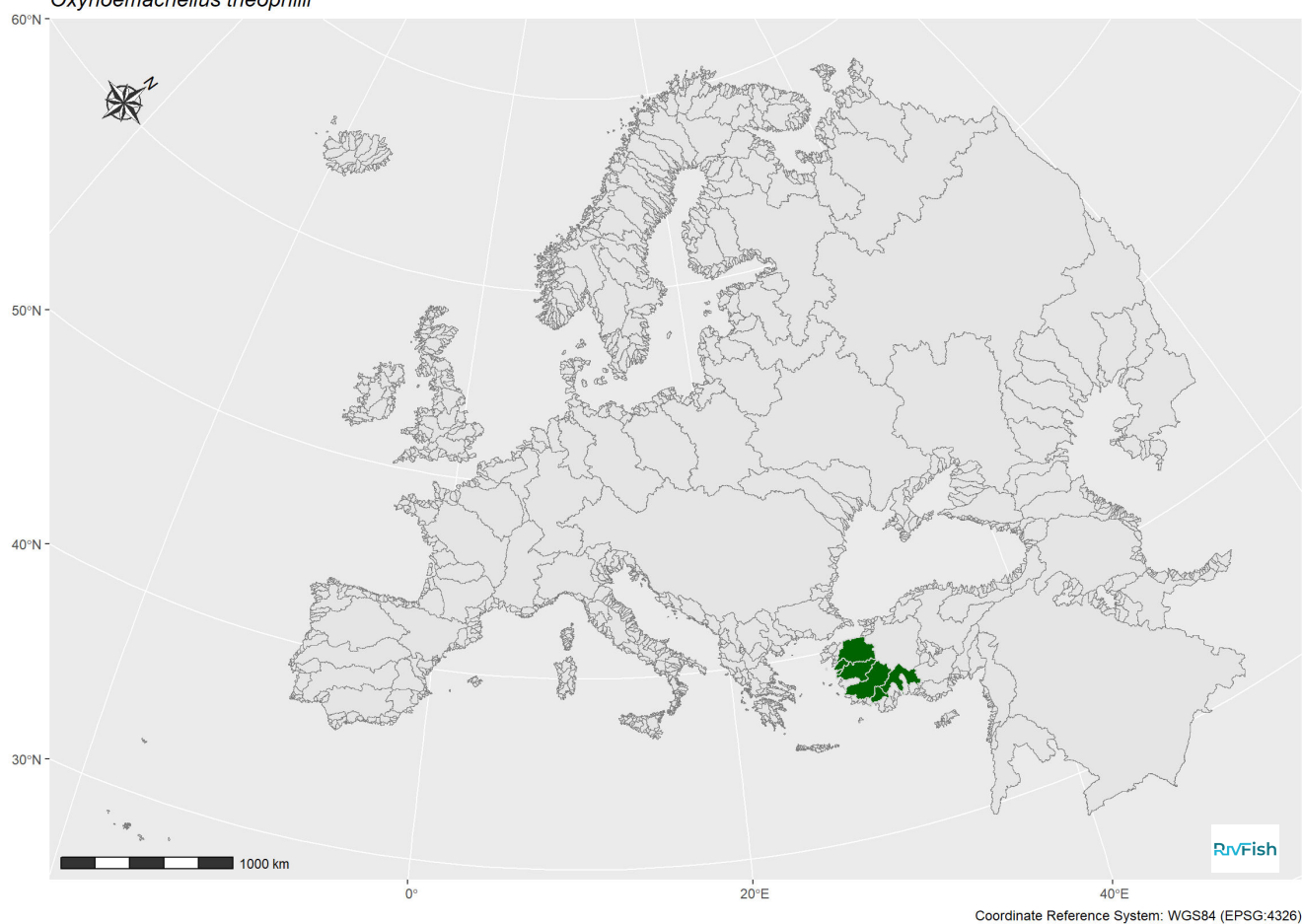
Oxynoemacheilus seyhanensis



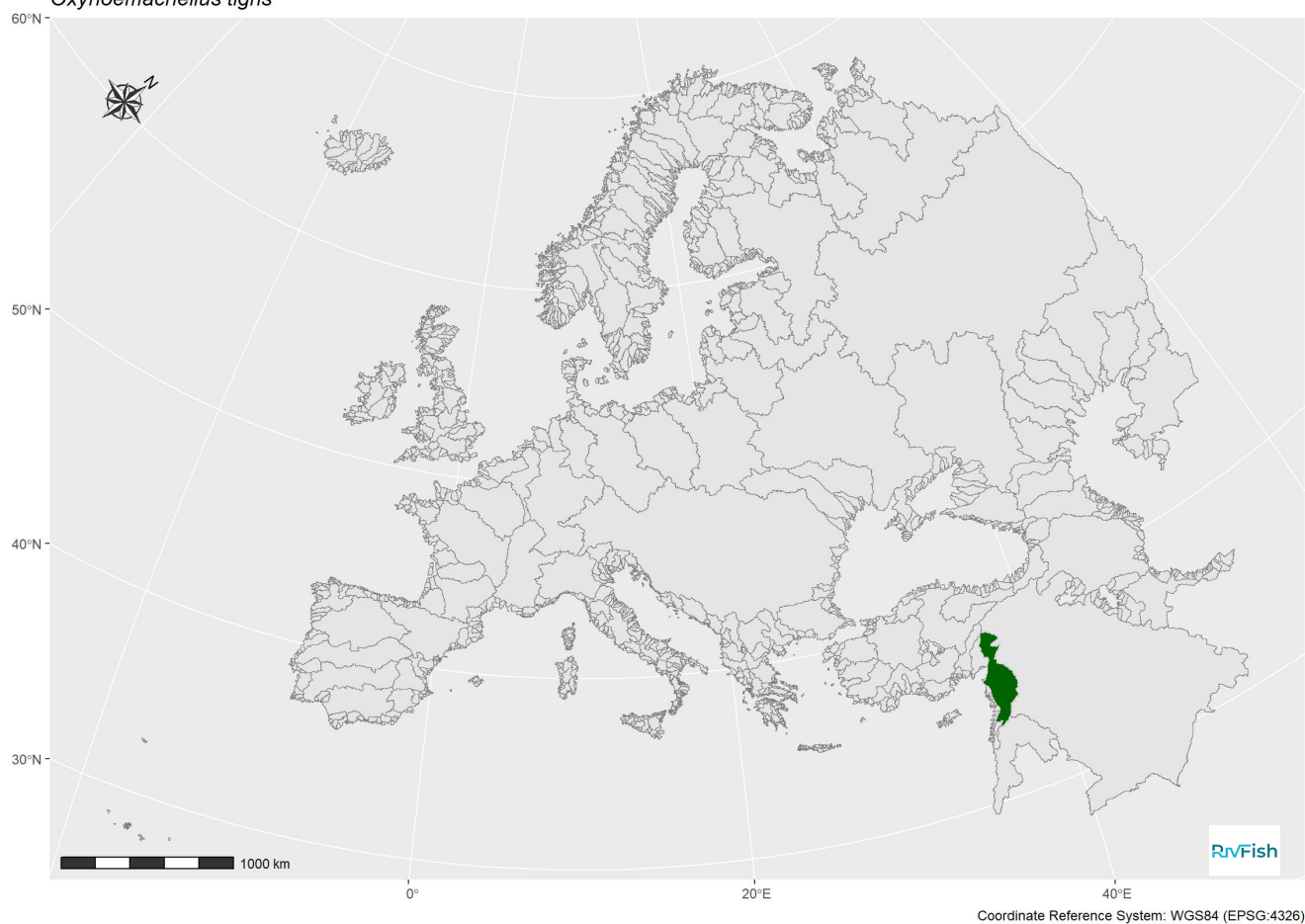
Oxynoemacheilus seyhanicola



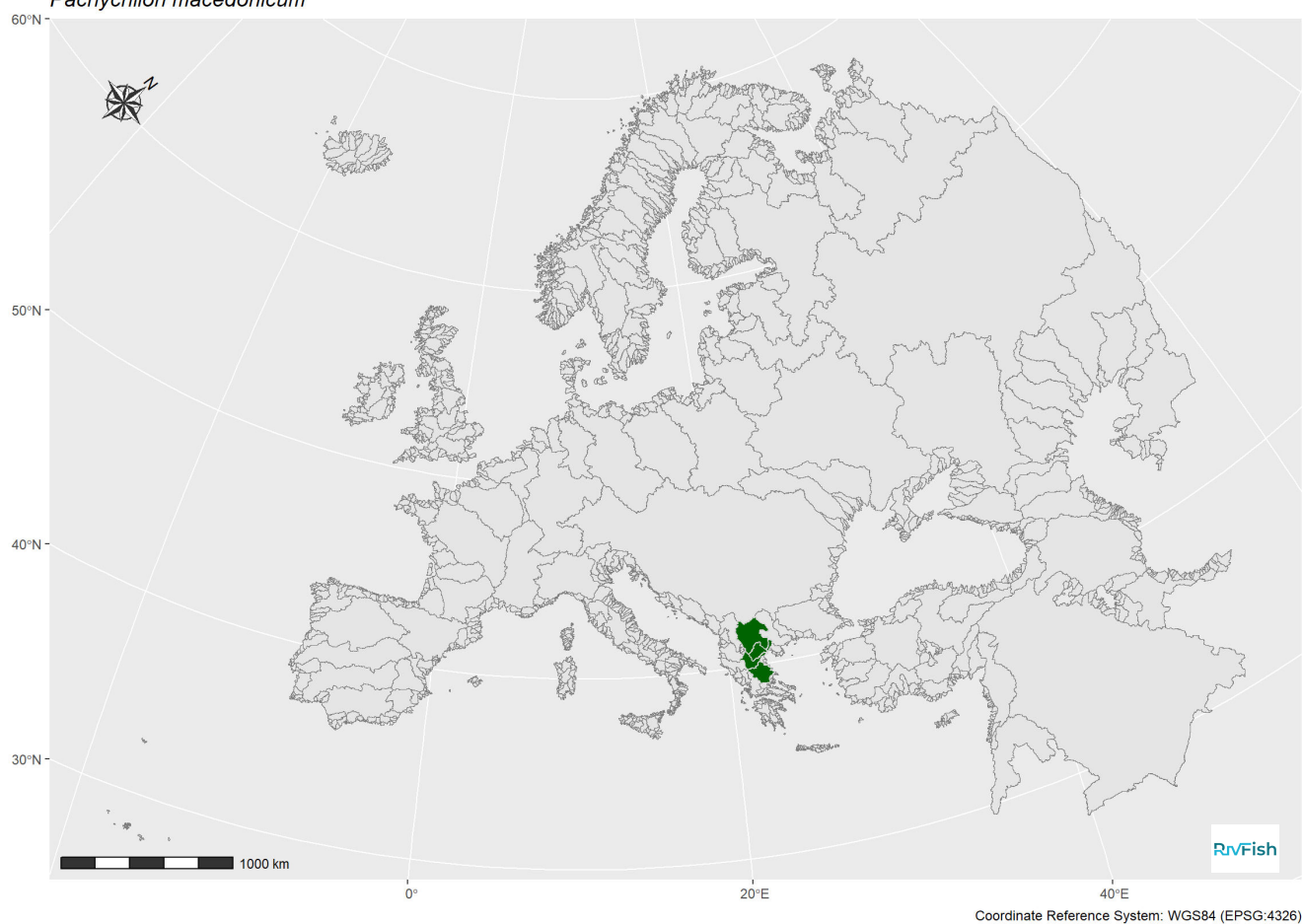
Oxynoemacheilus theophilii

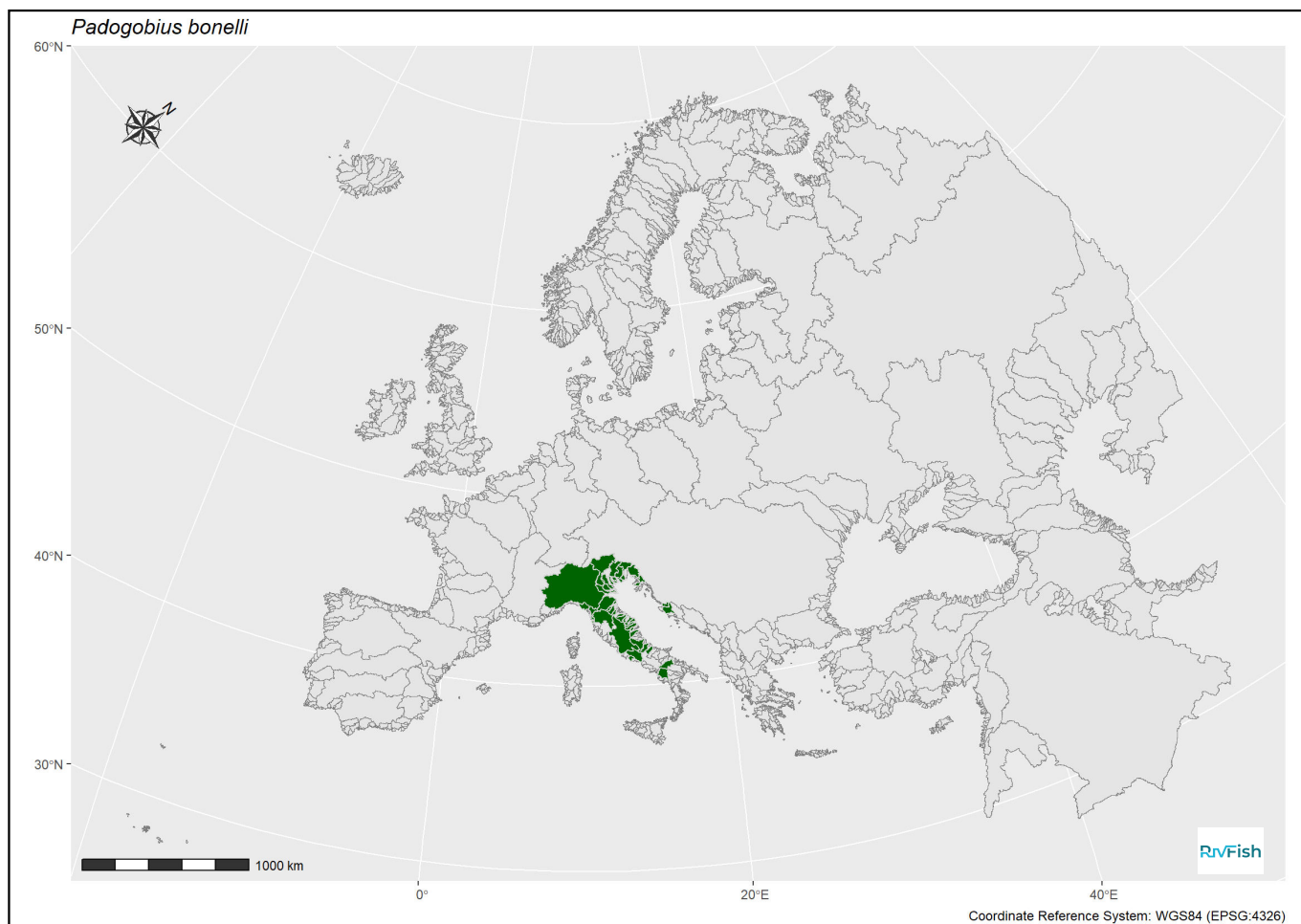
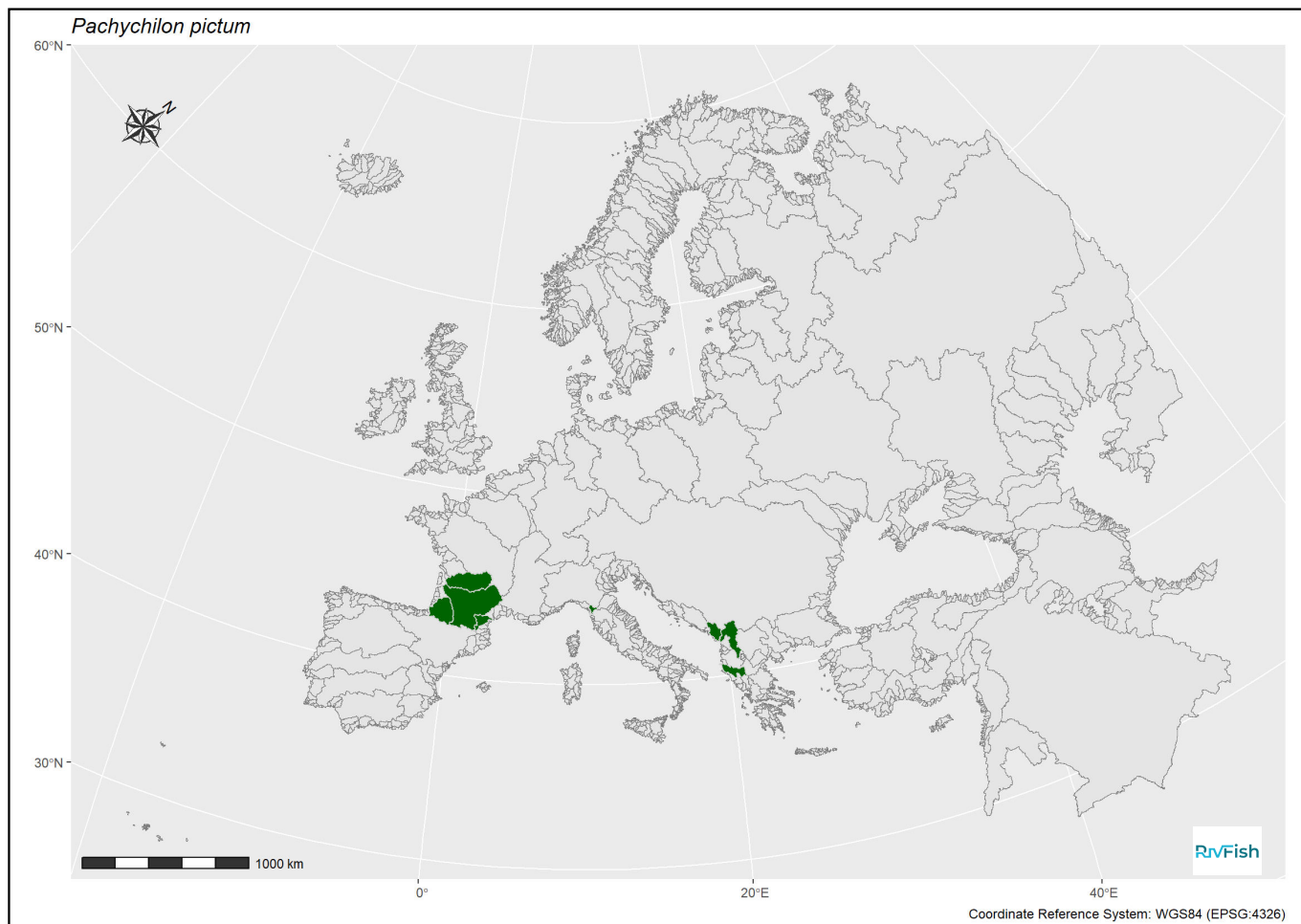


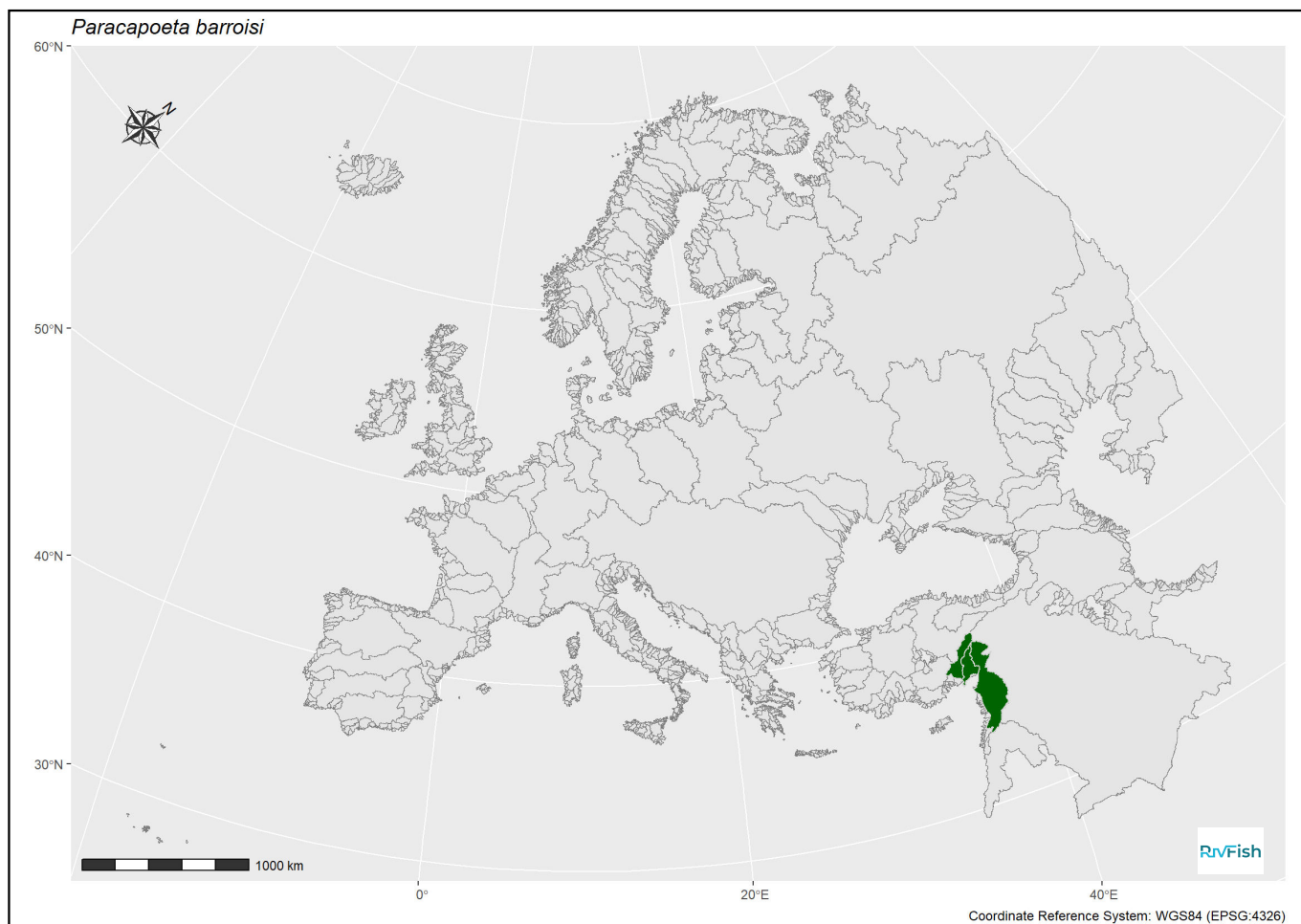
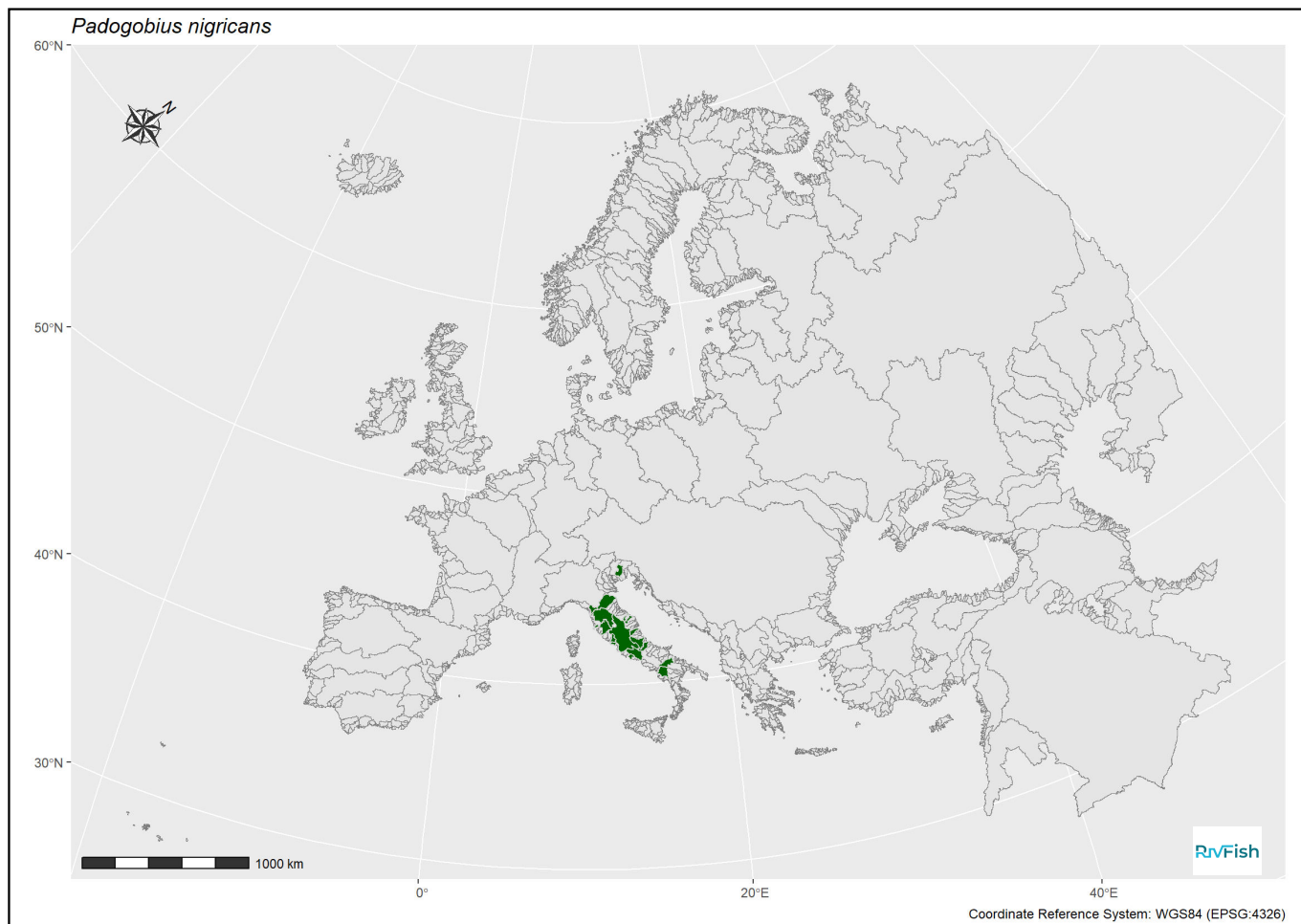
Oxynoemacheilus tigris



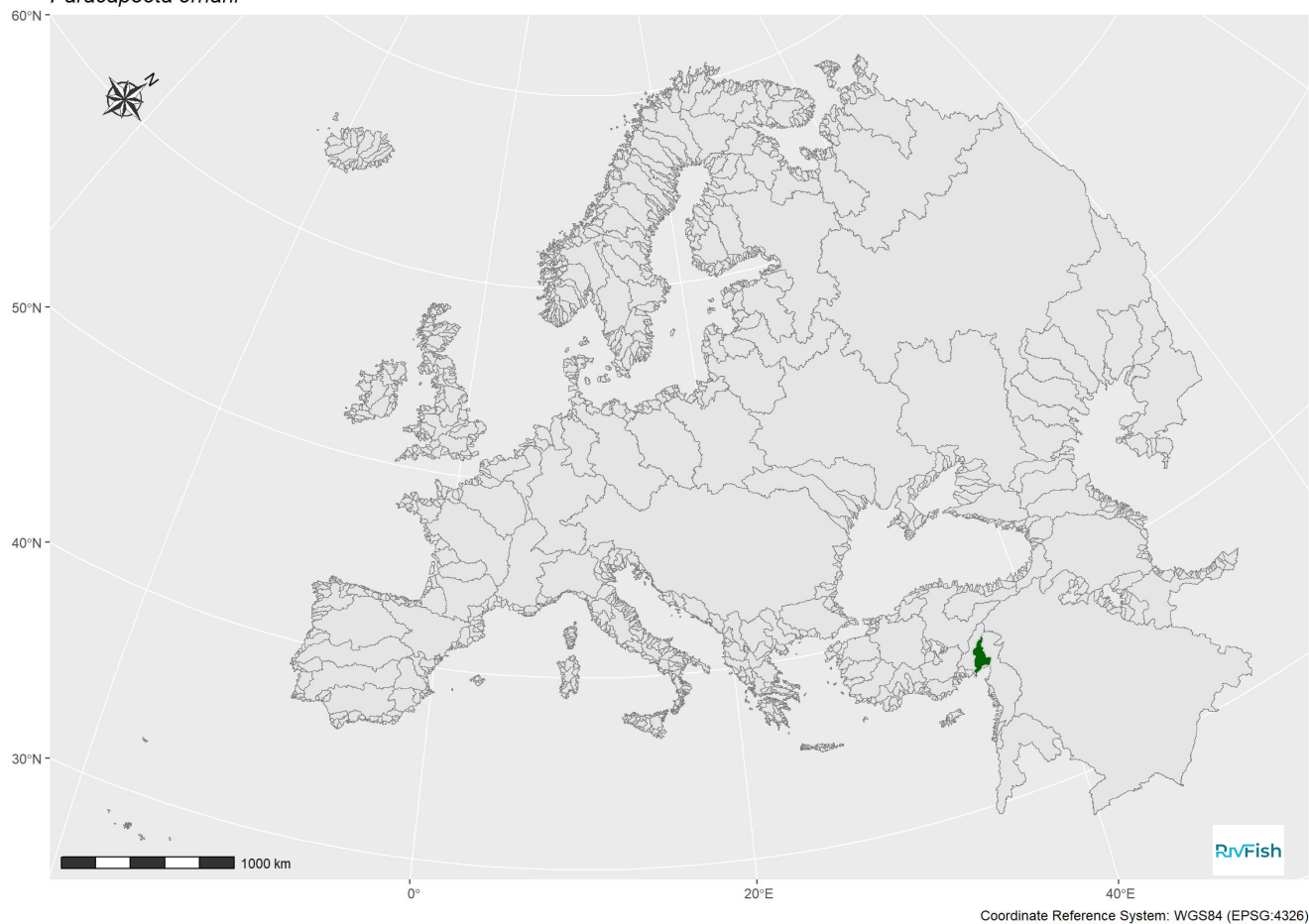
Pachychilon macedonicum



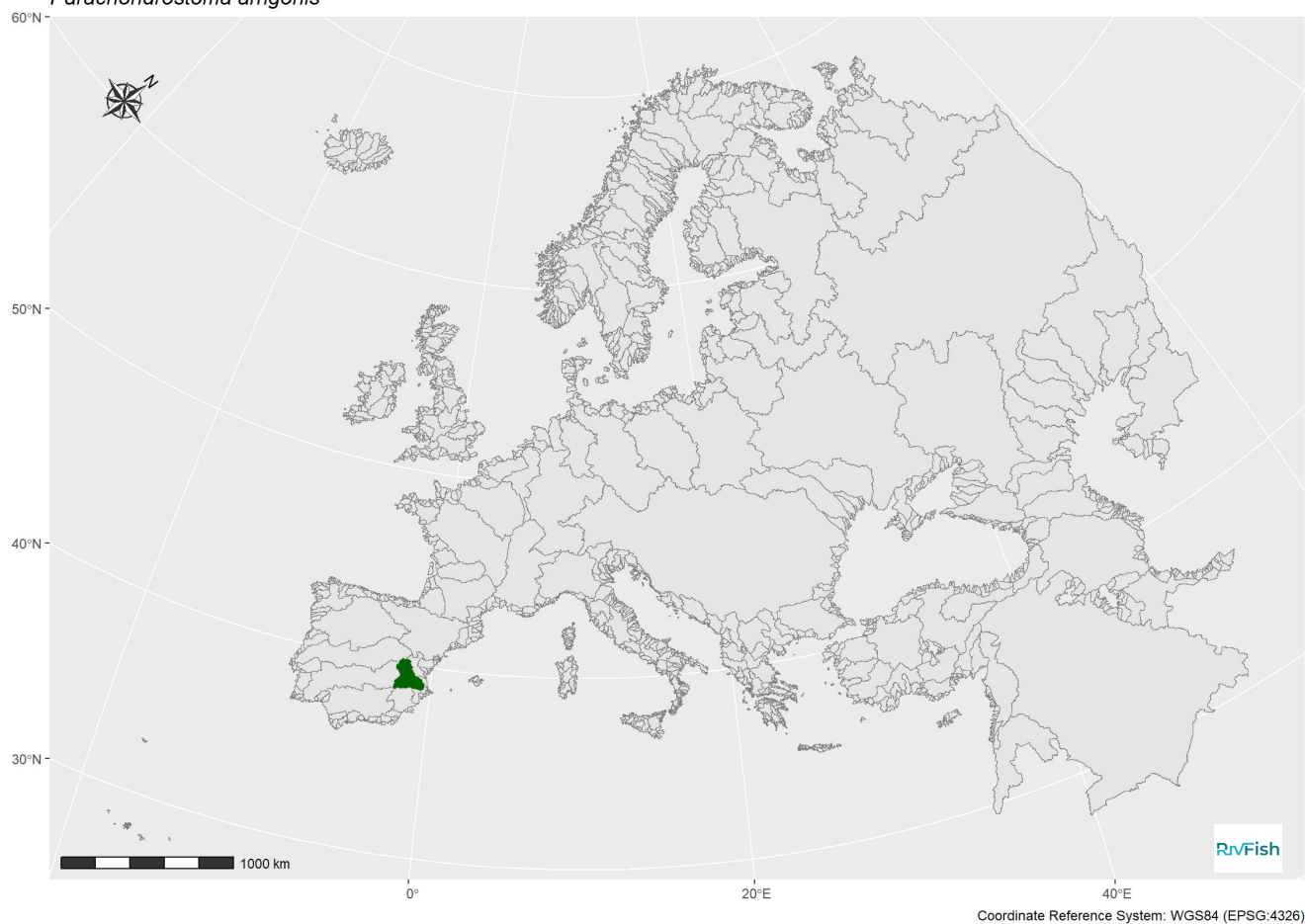




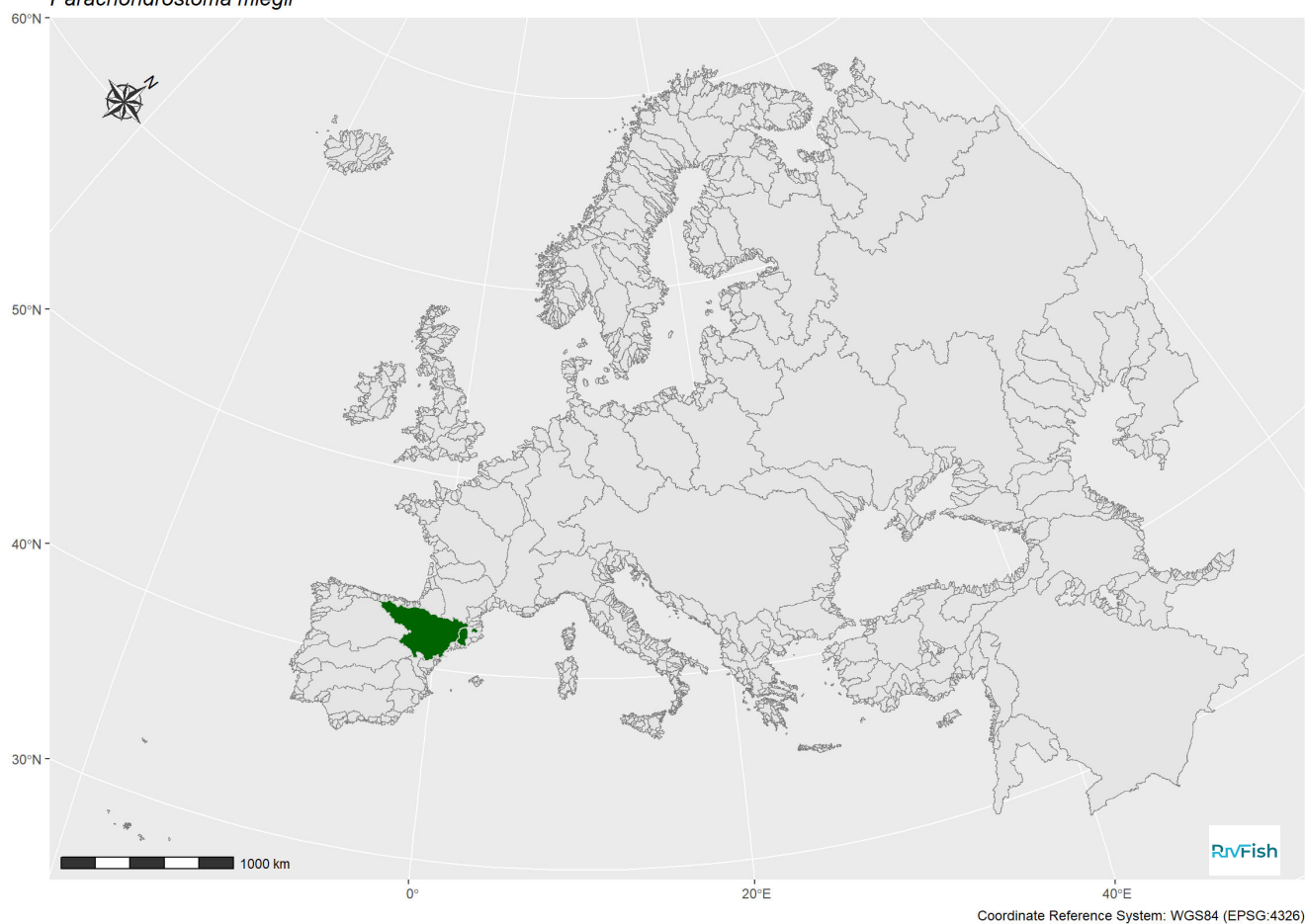
Paracapoeta erhani



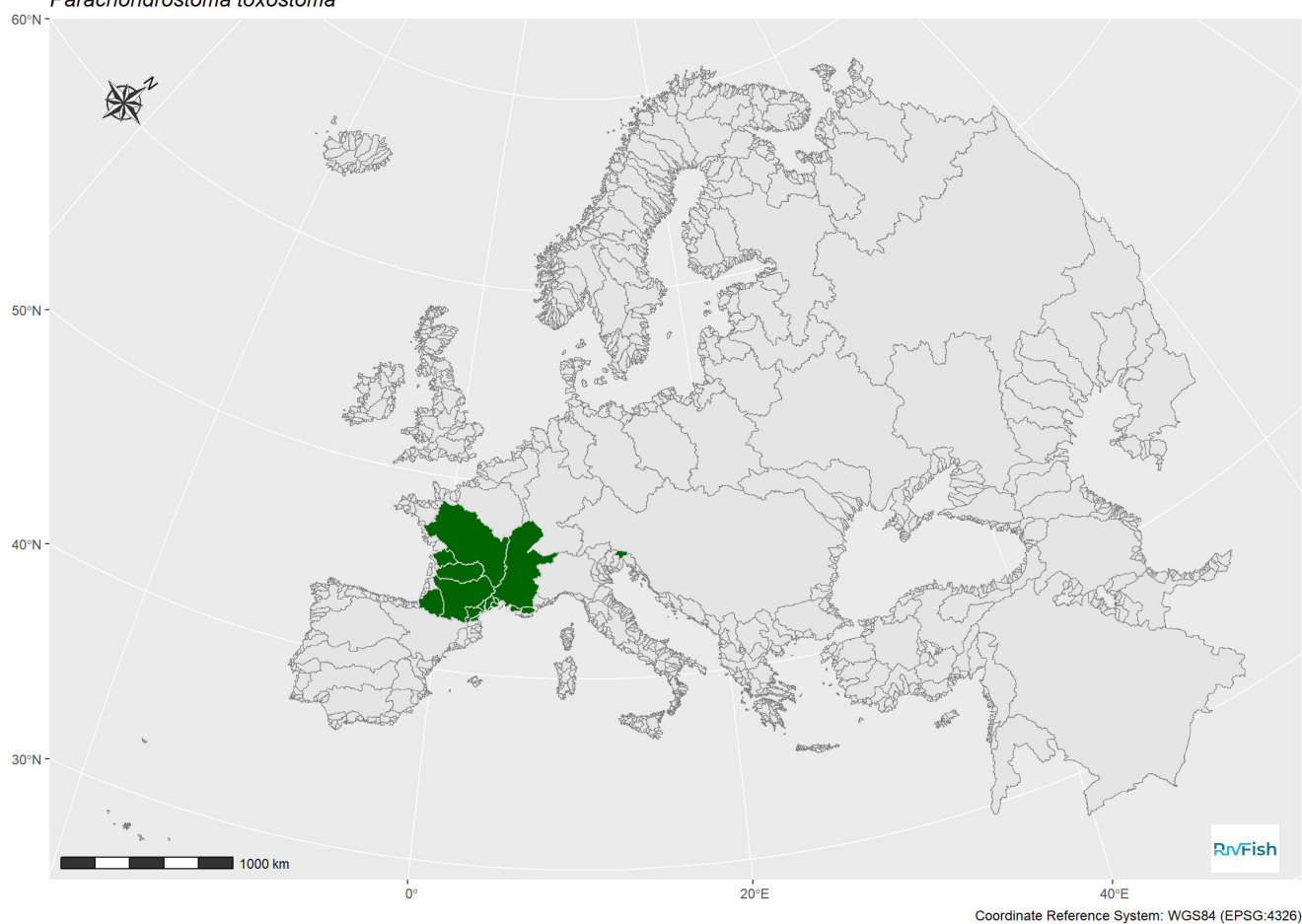
Parachondrostoma arrigonis



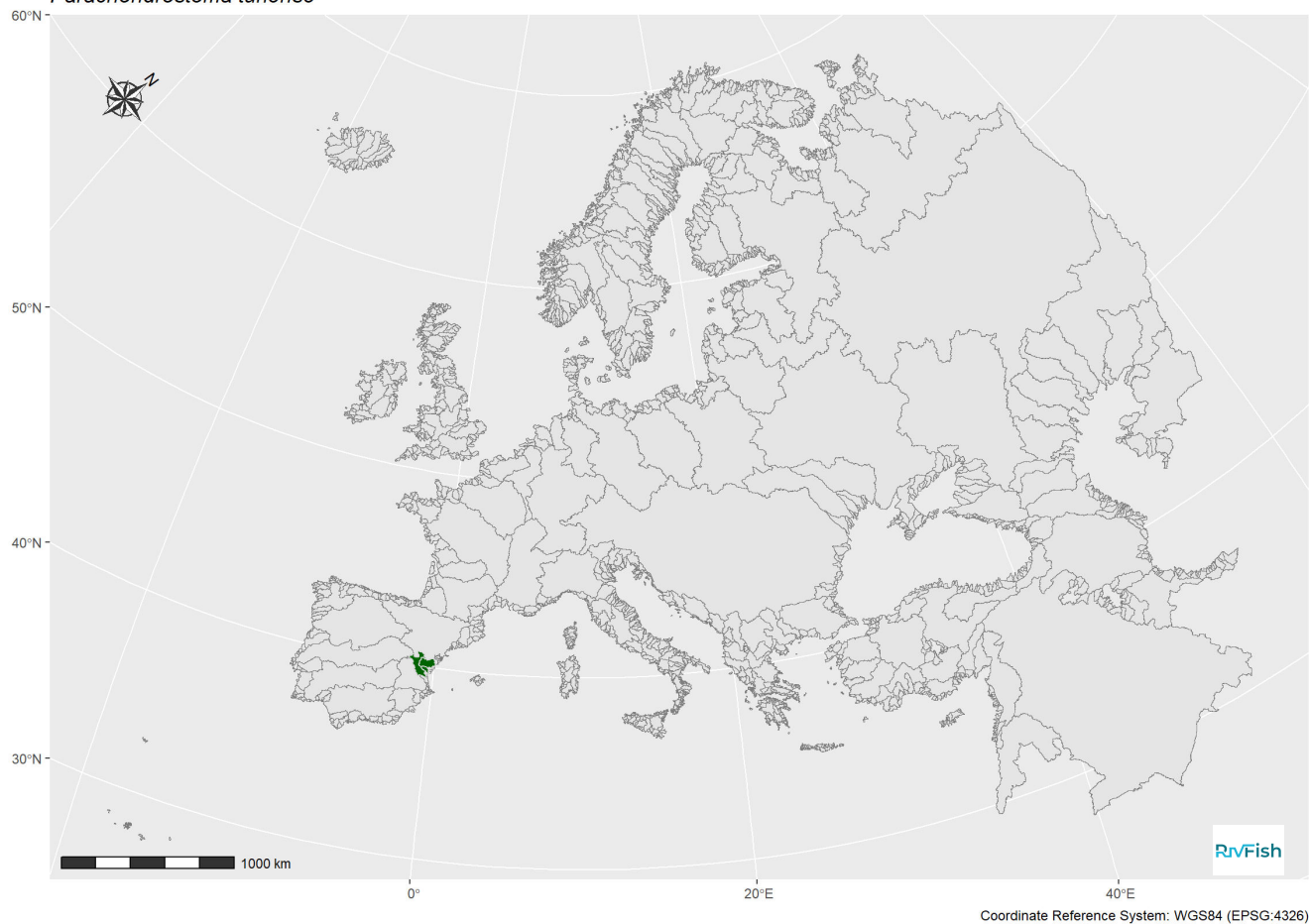
Parachondrostoma miegii



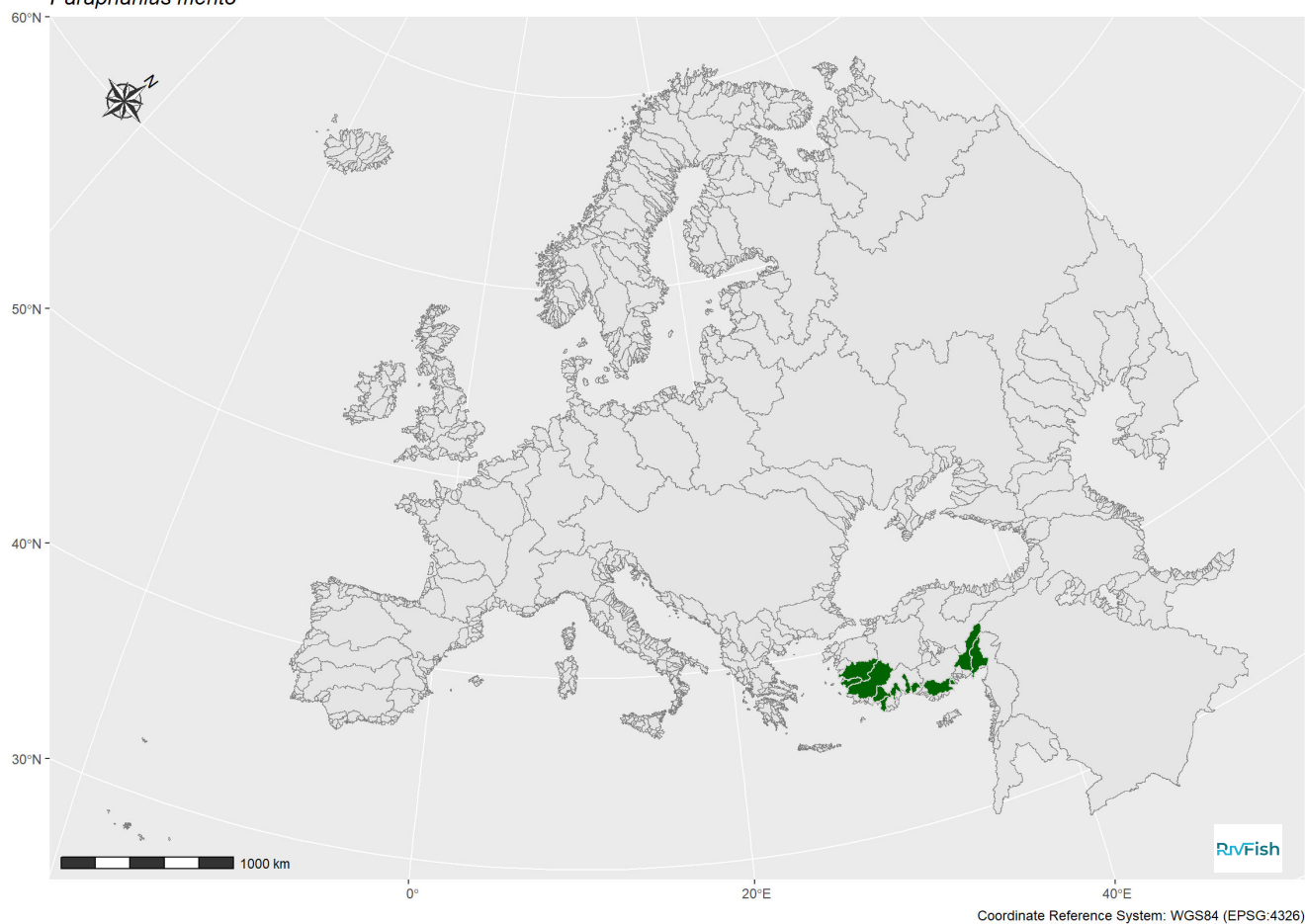
Parachondrostoma toxostoma



Parachondrostoma turiense



Paraphanius mento

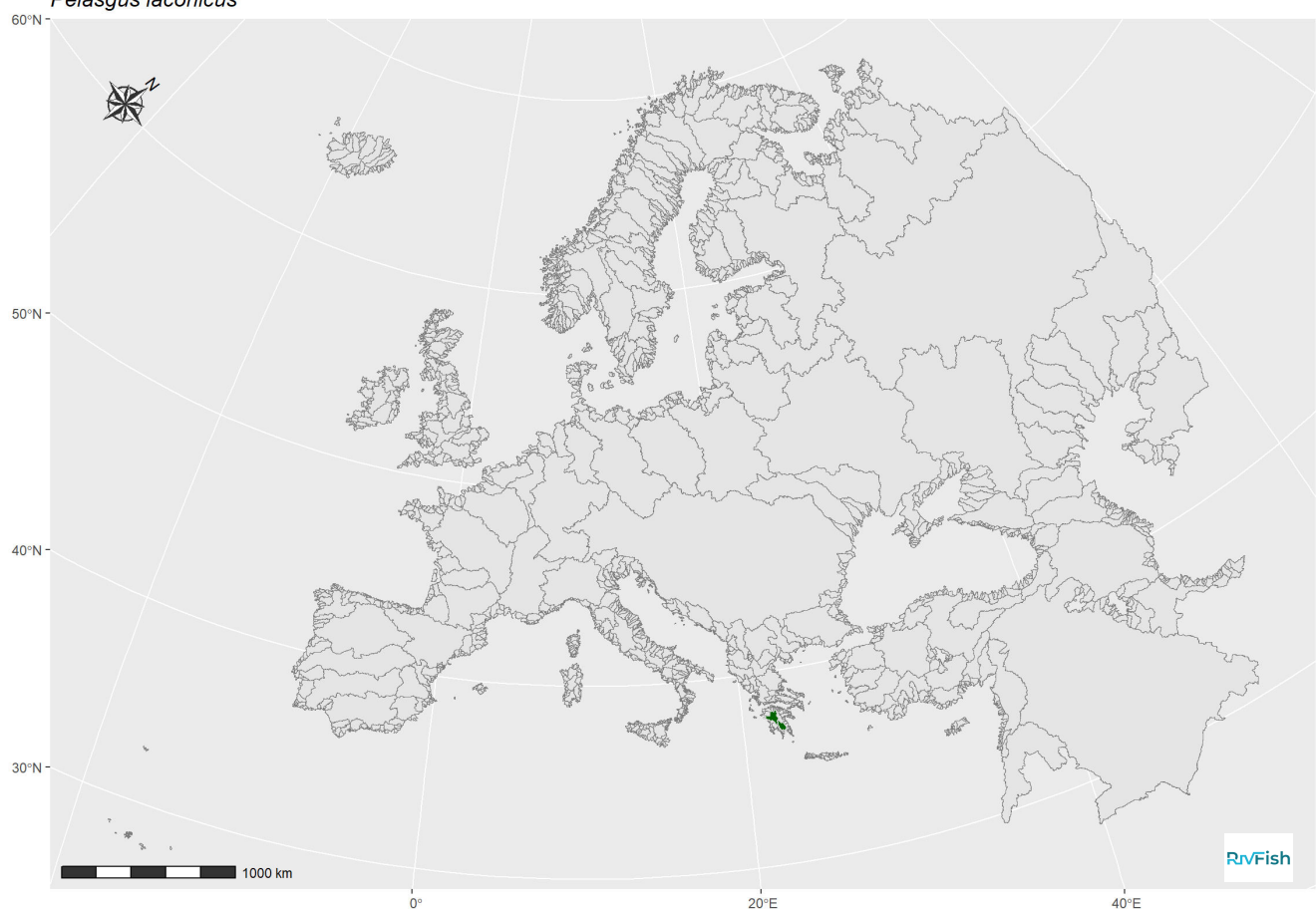


Pelasgus epiroticus



Coordinate Reference System: WGS84 (EPSG:4326)

Pelasgus laconicus



Coordinate Reference System: WGS84 (EPSG:4326)

Pelasgus marathonicus

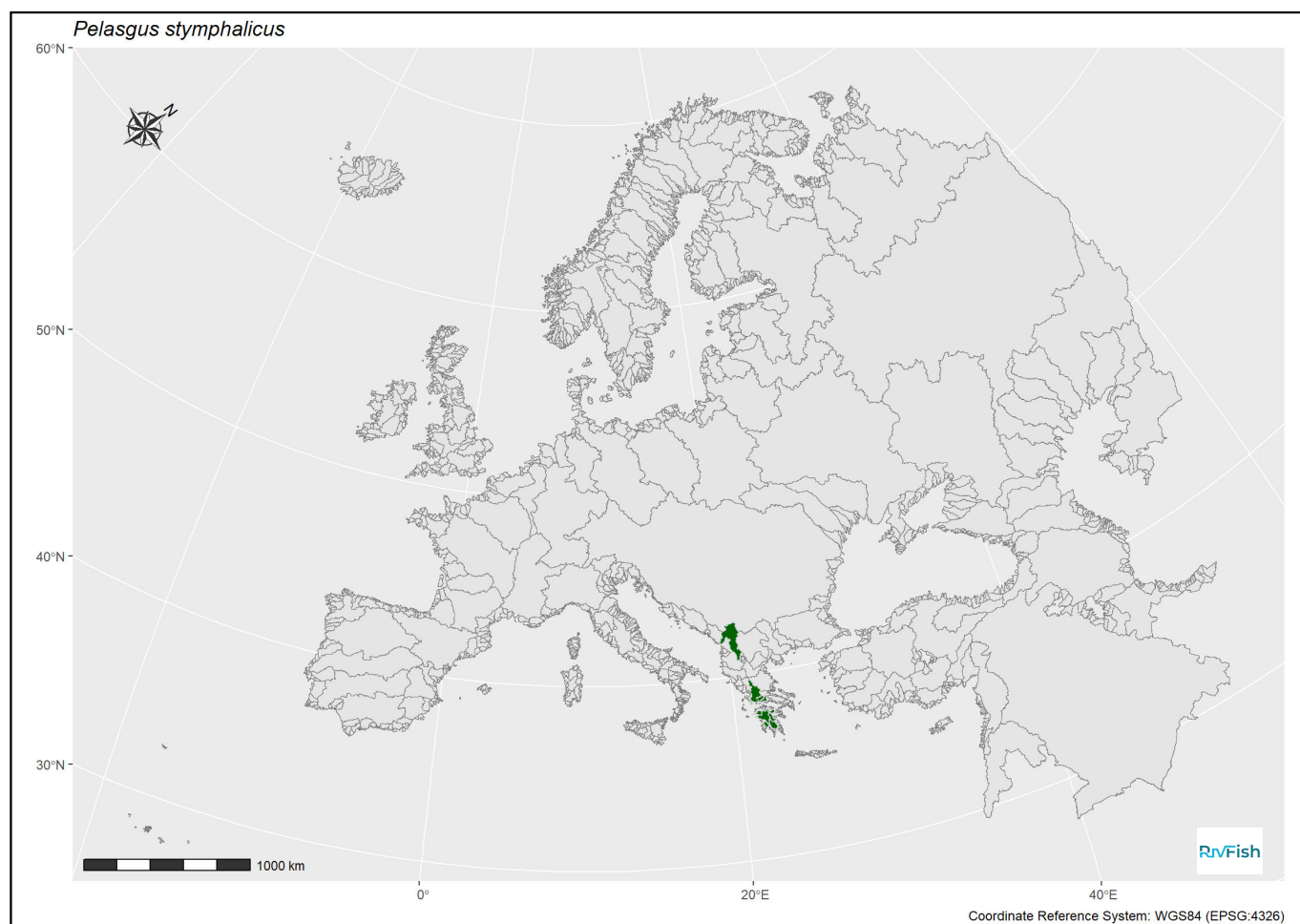
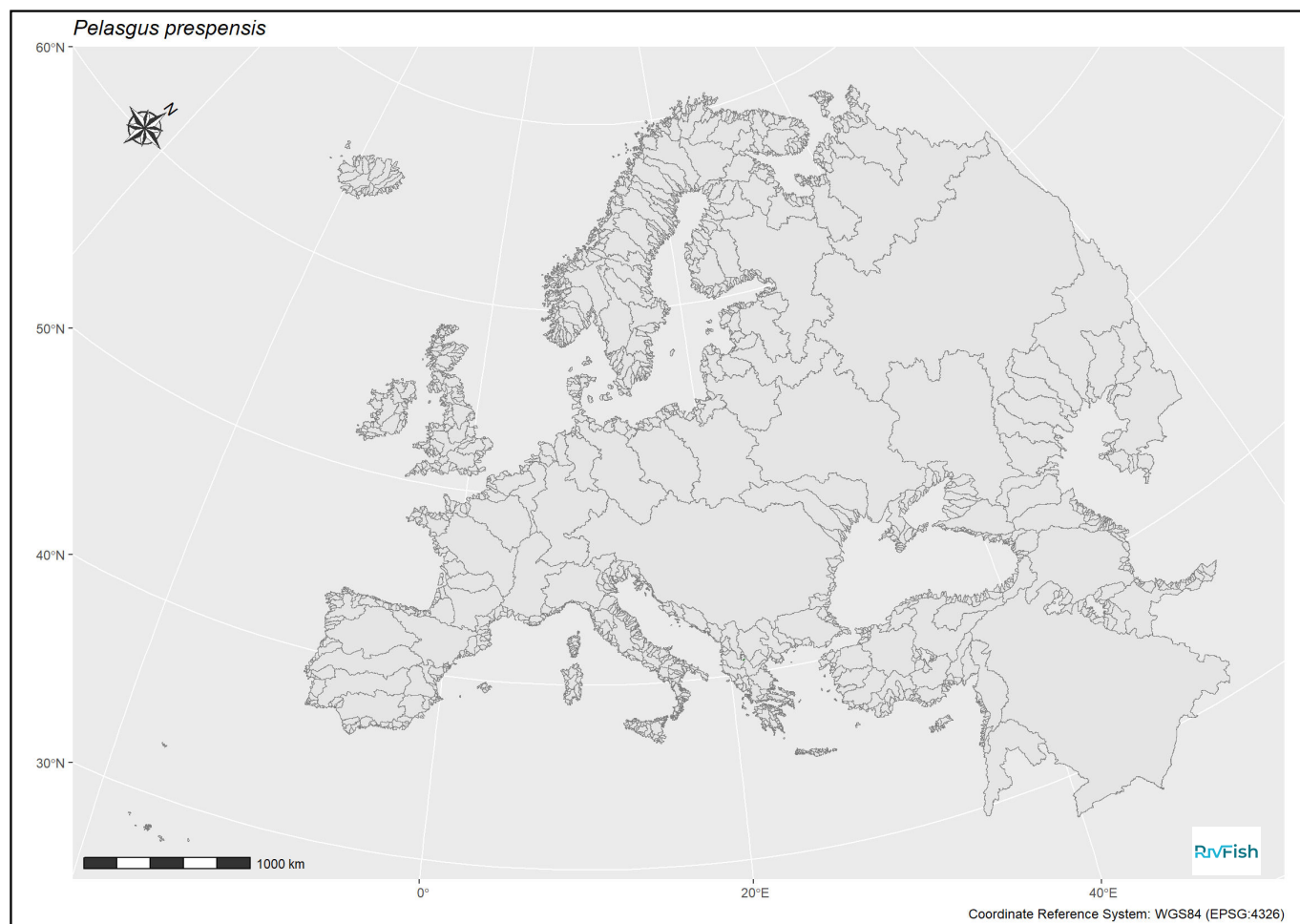


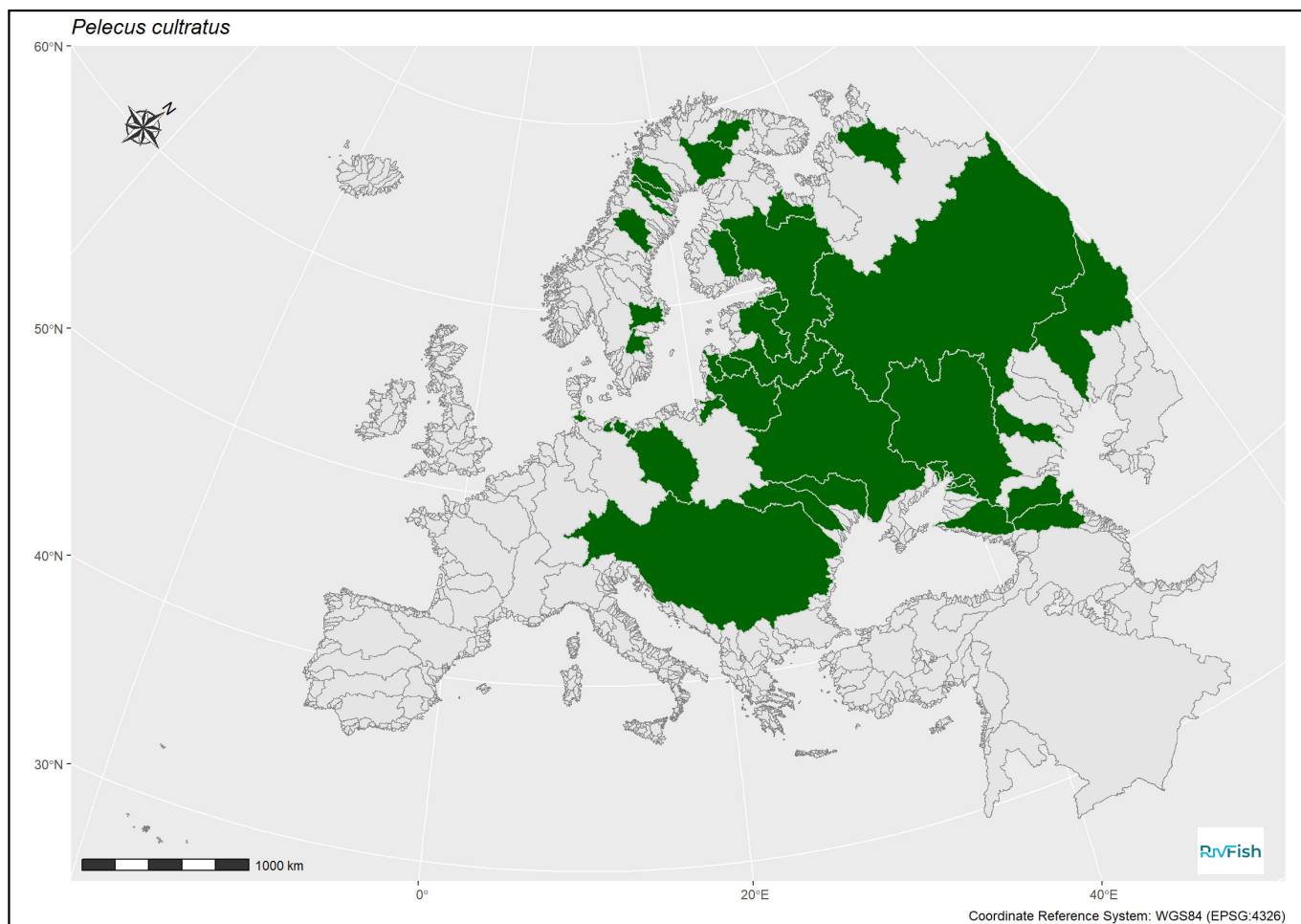
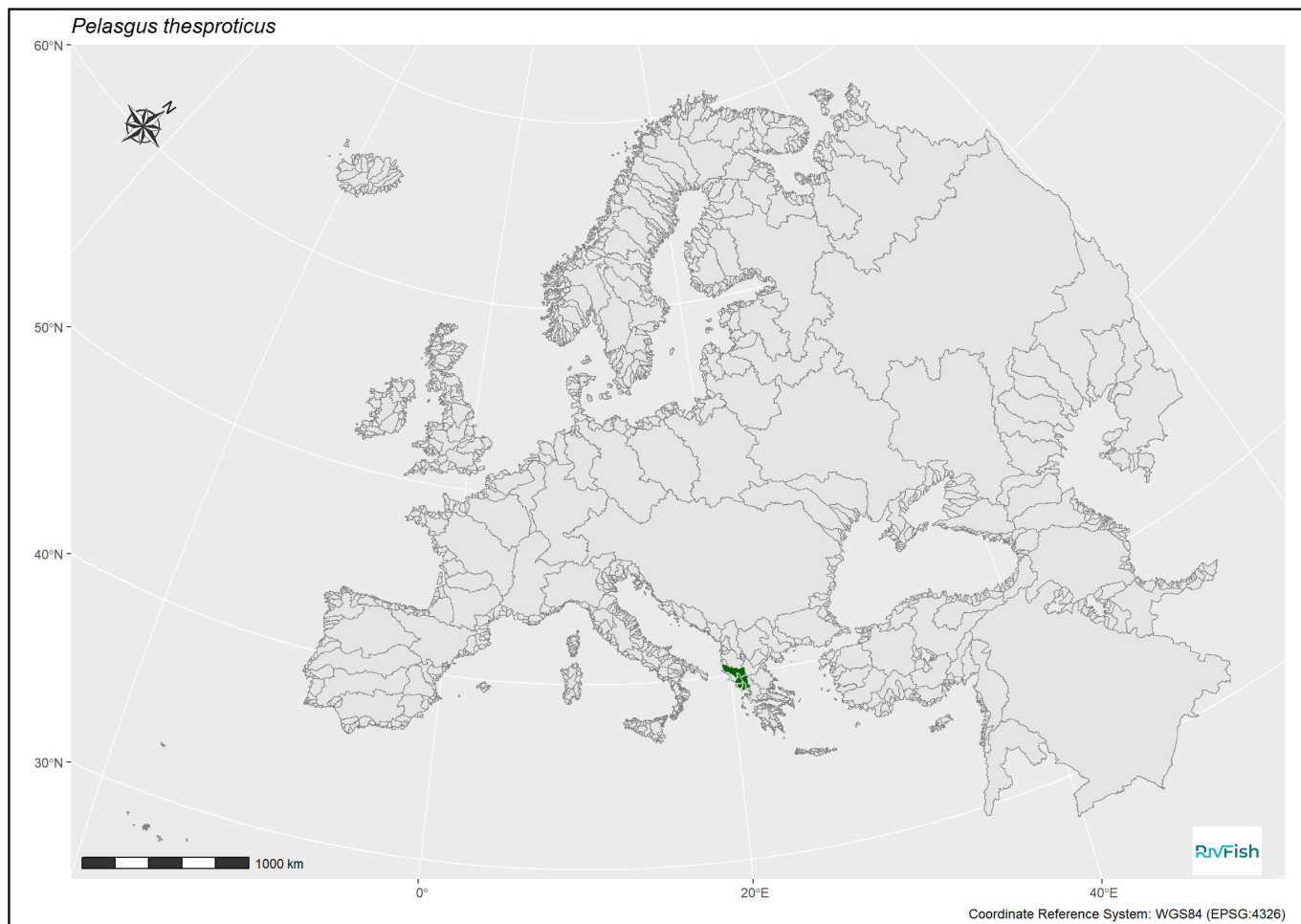
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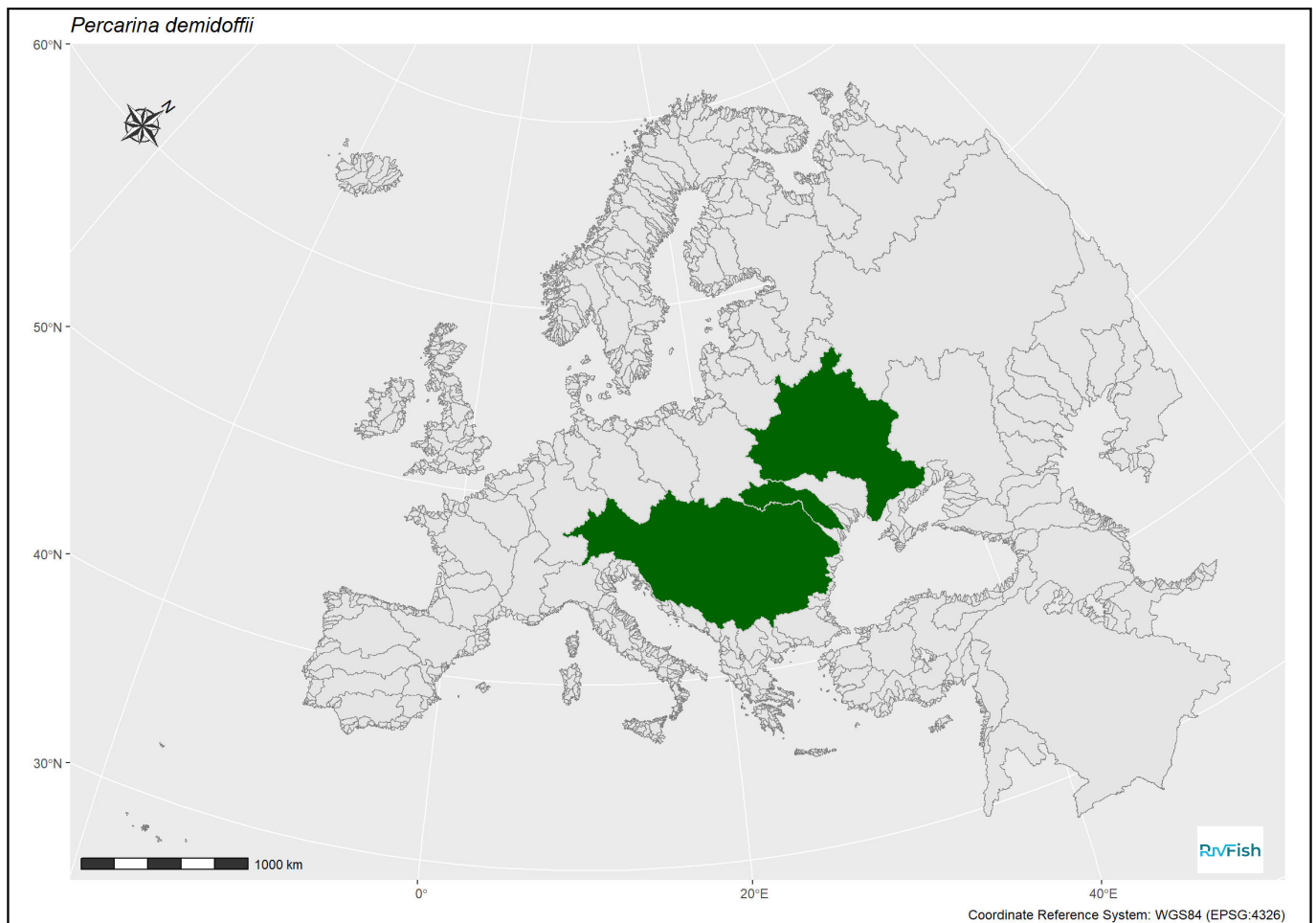
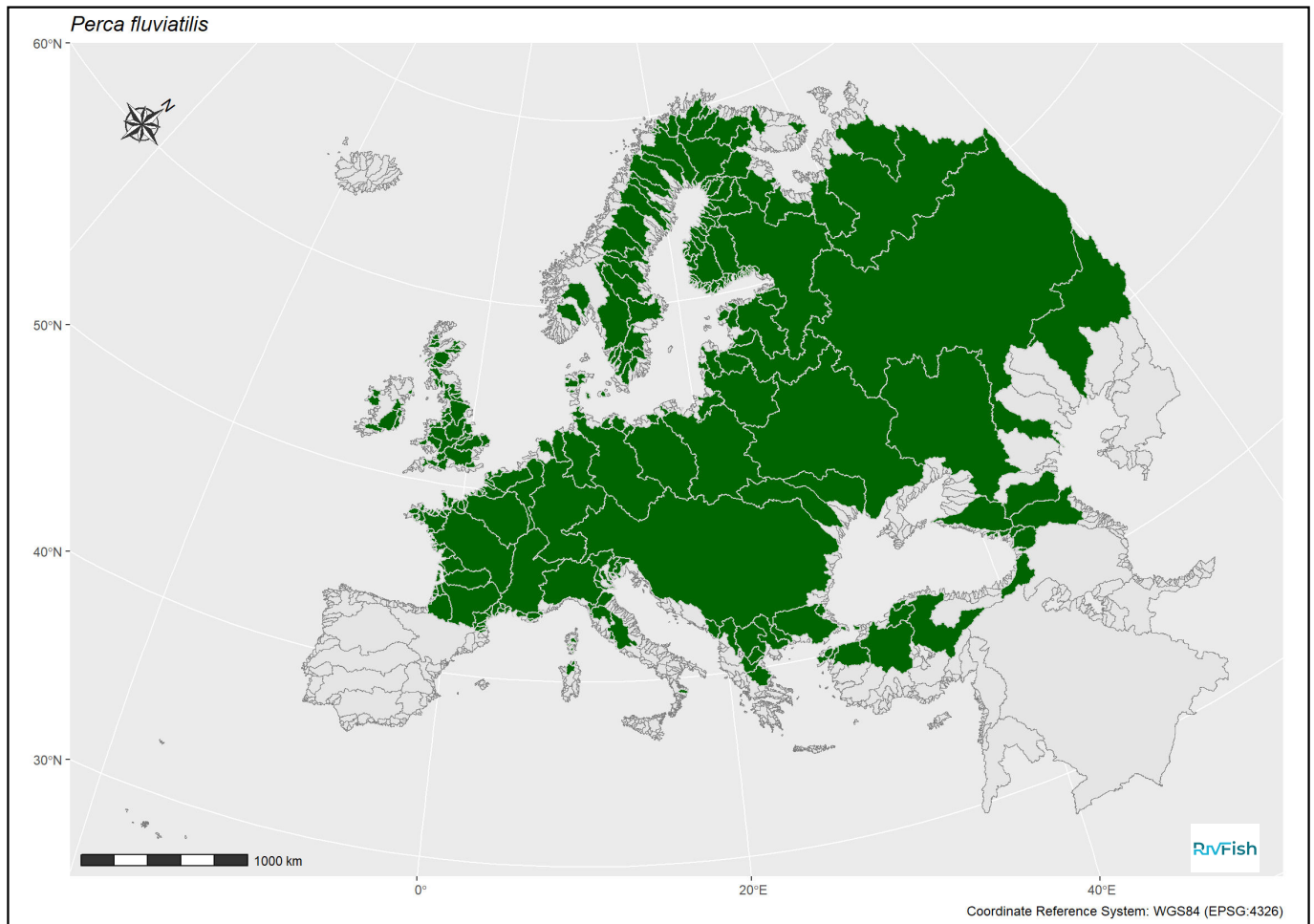
Pelasgus minutus

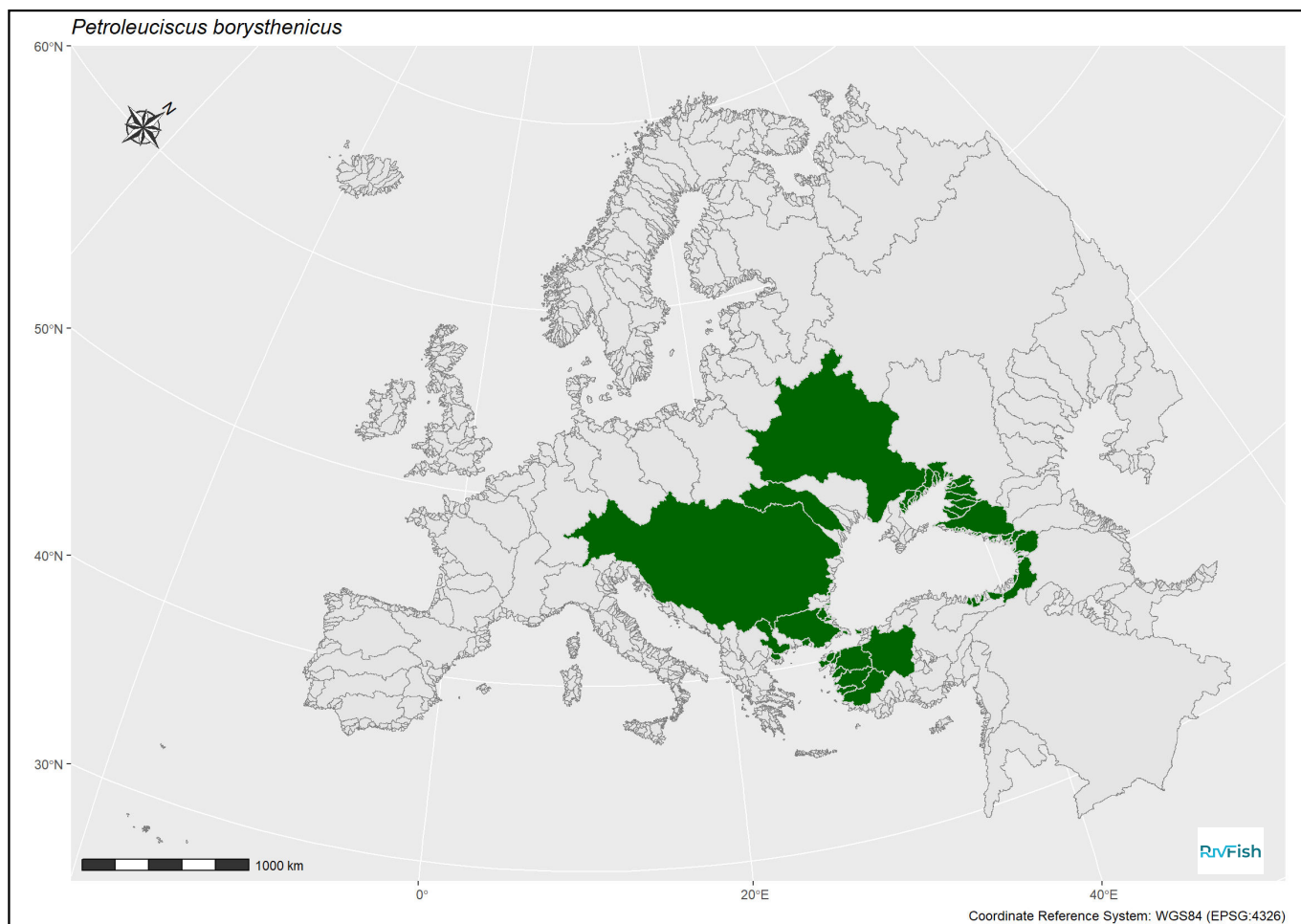
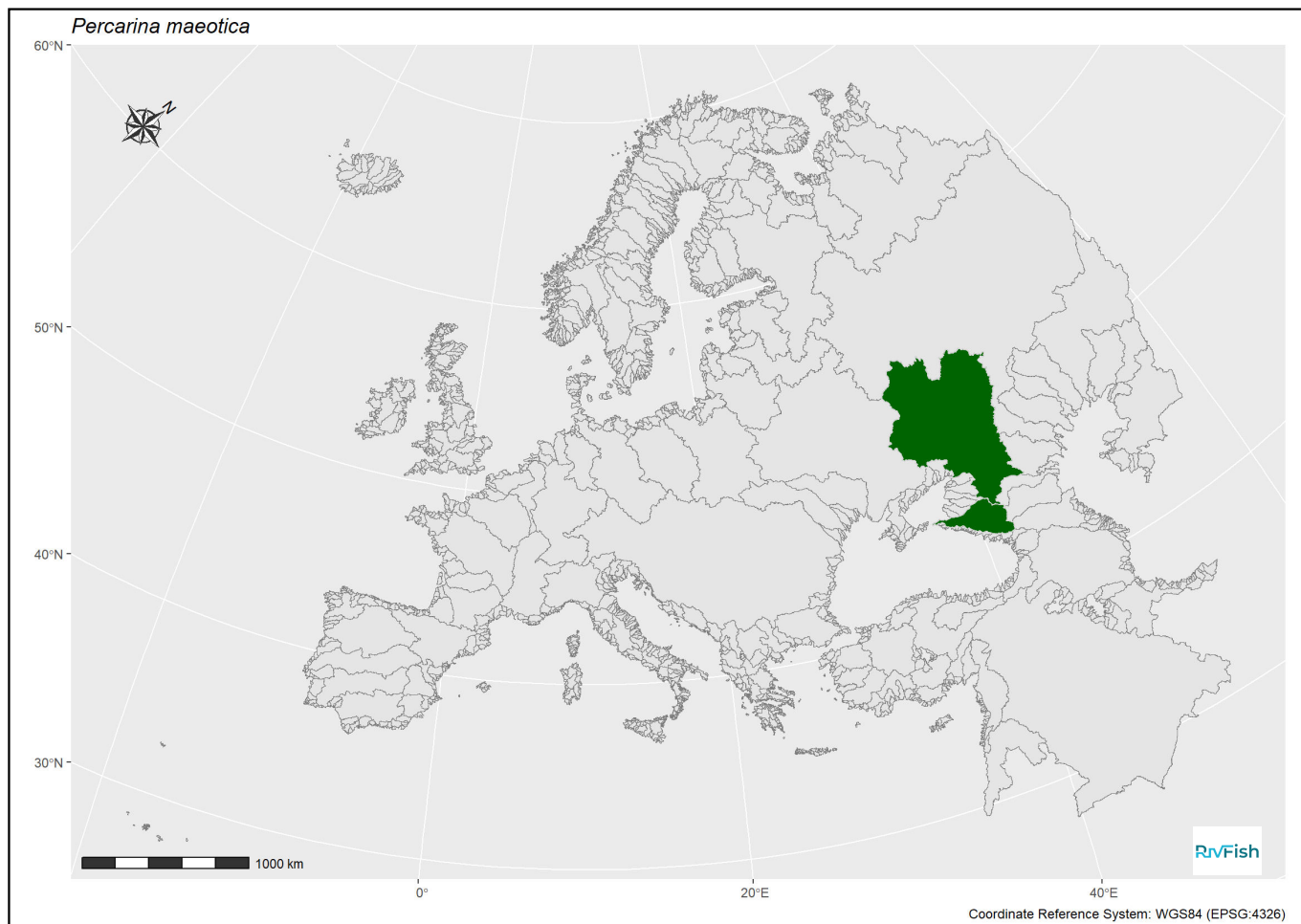


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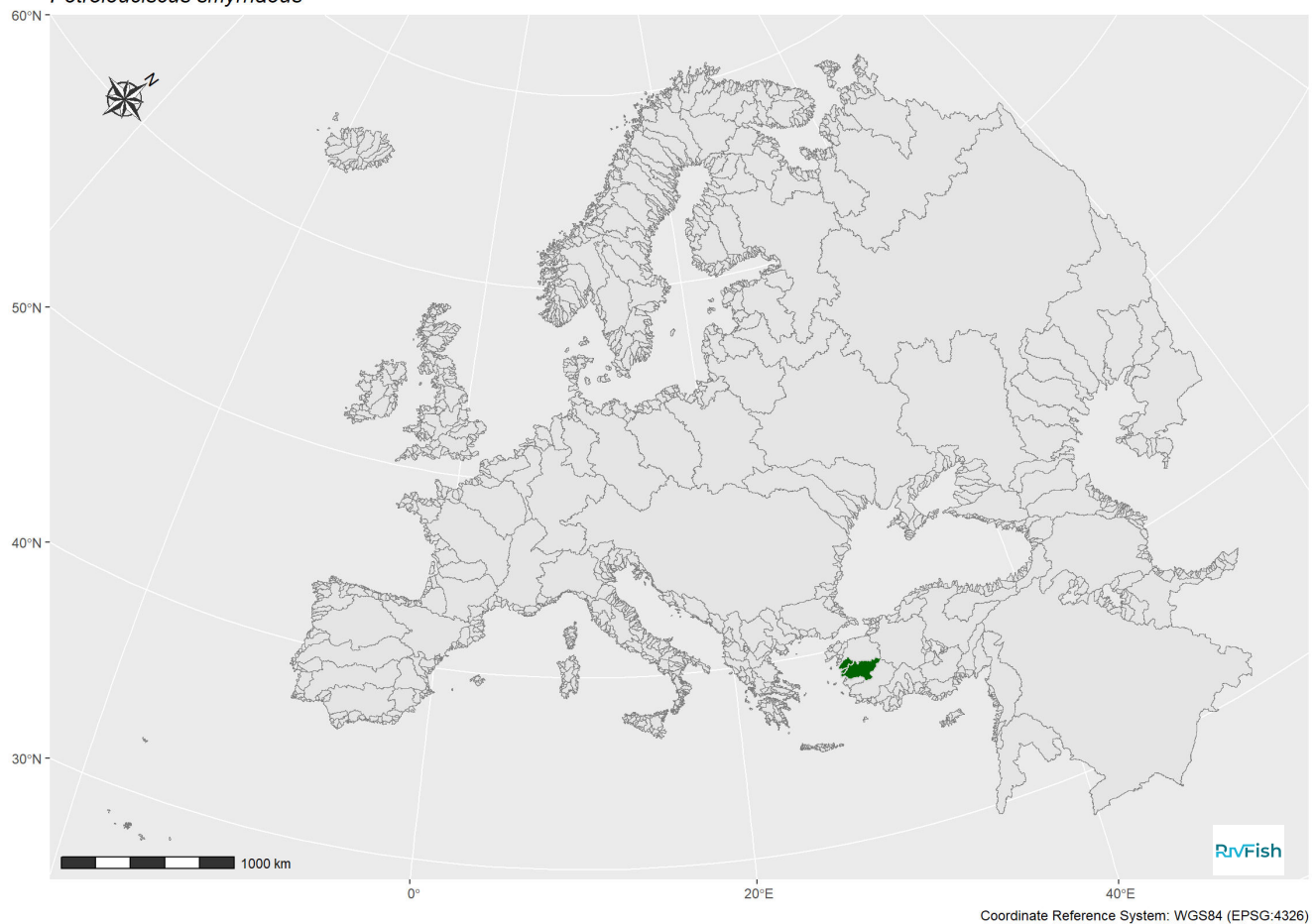




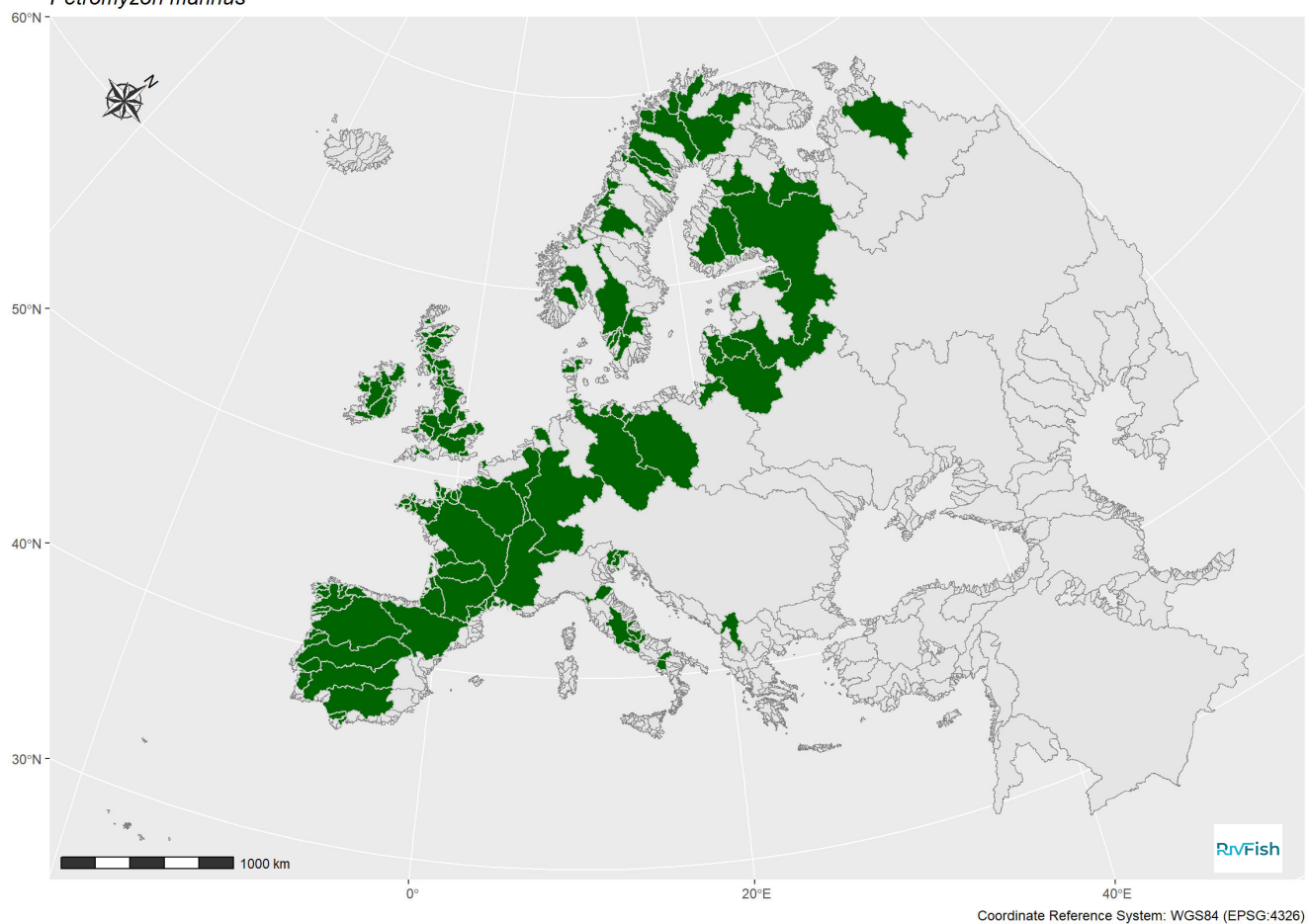




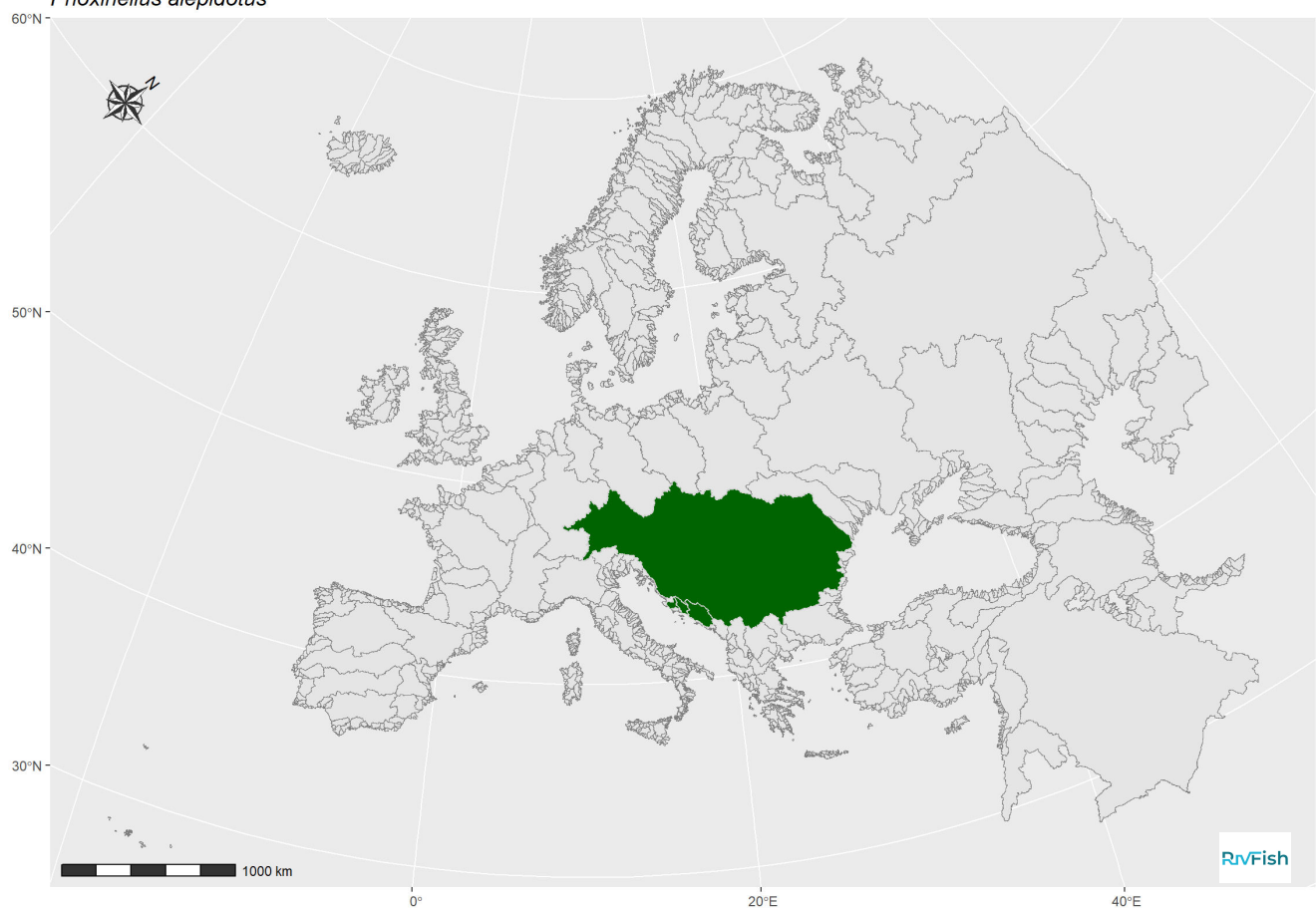
Petroleuciscus smyrnaeus



Petromyzon marinus

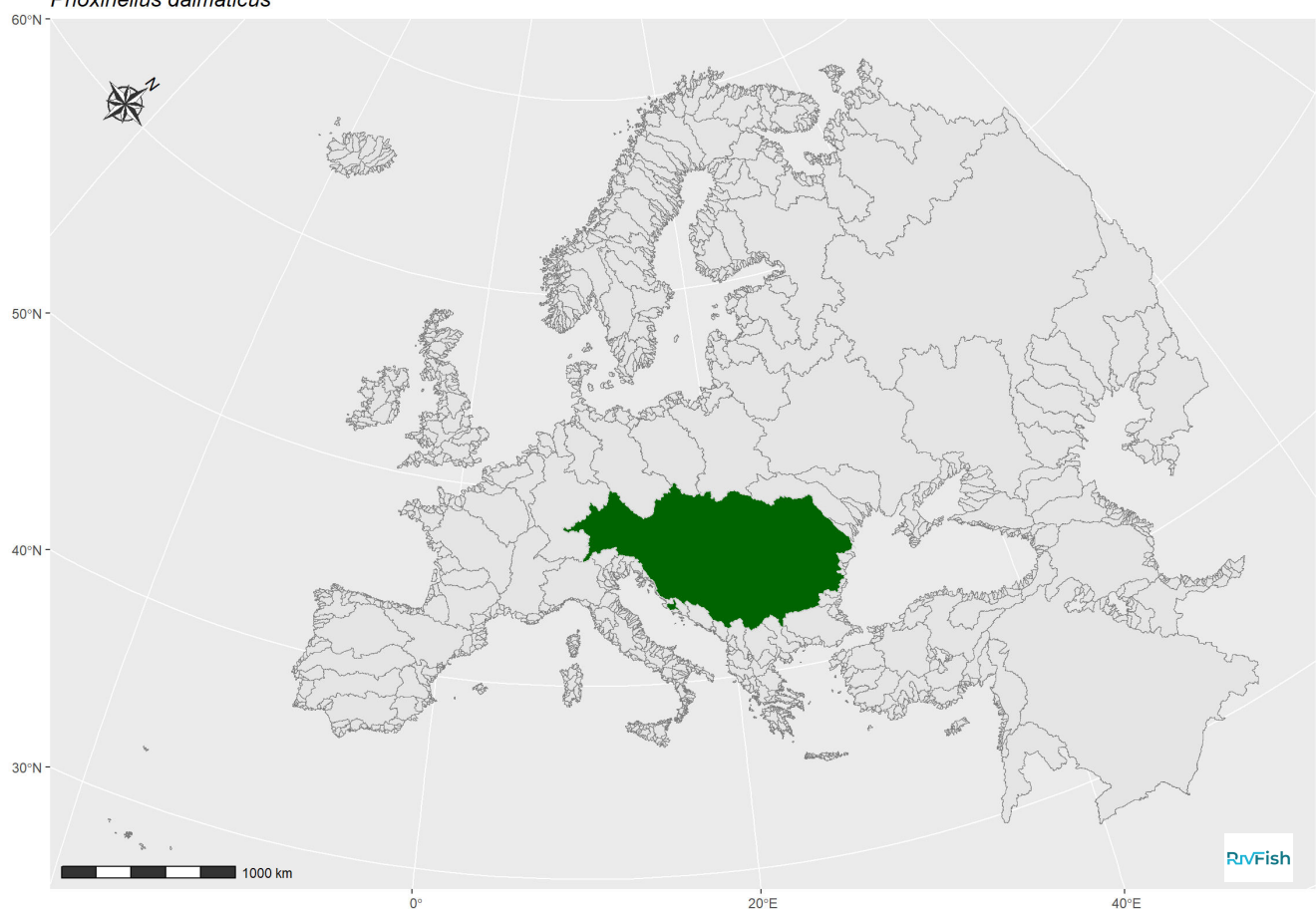


Phoxinellus alepidotus



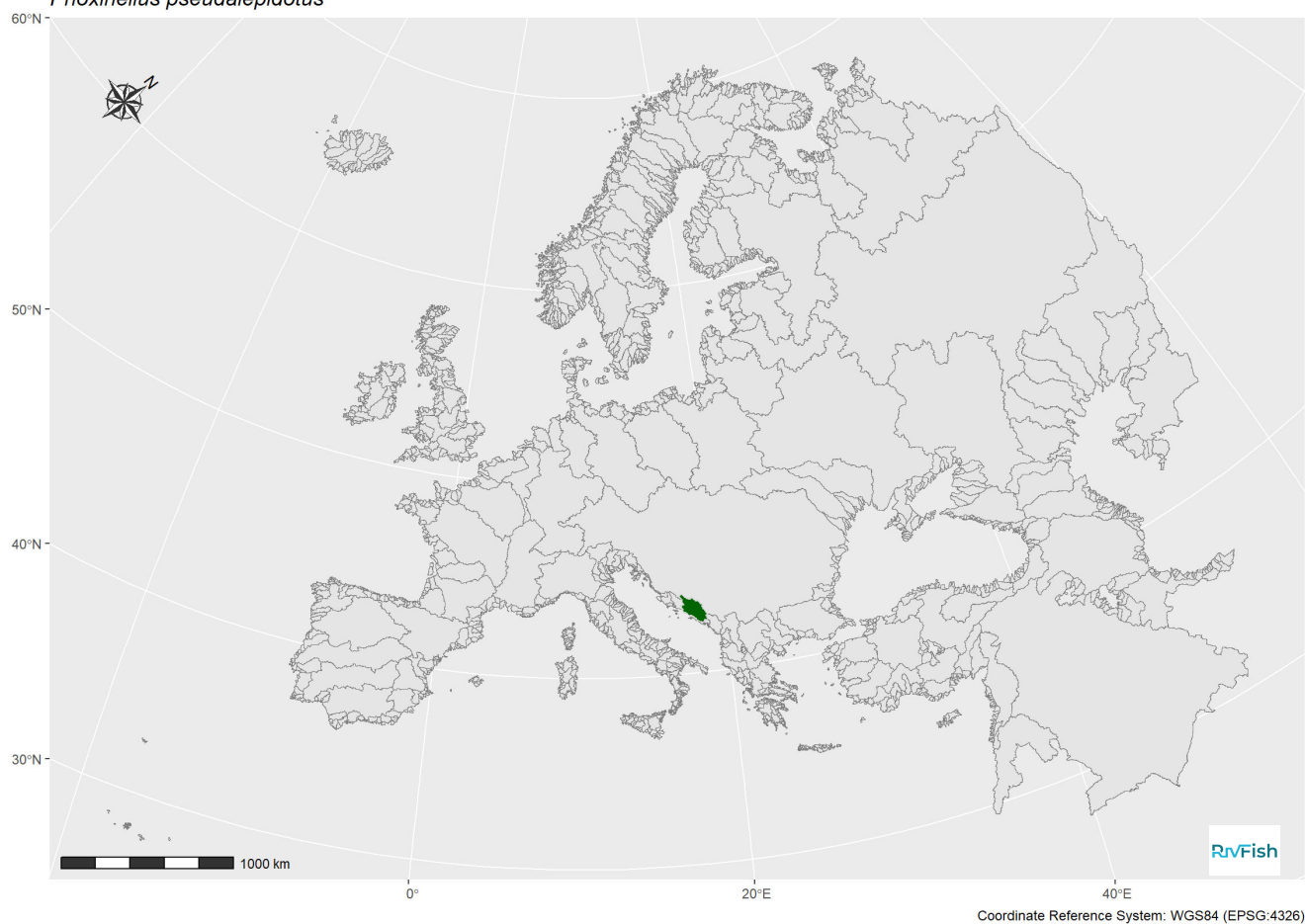
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Phoxinellus dalmaticus

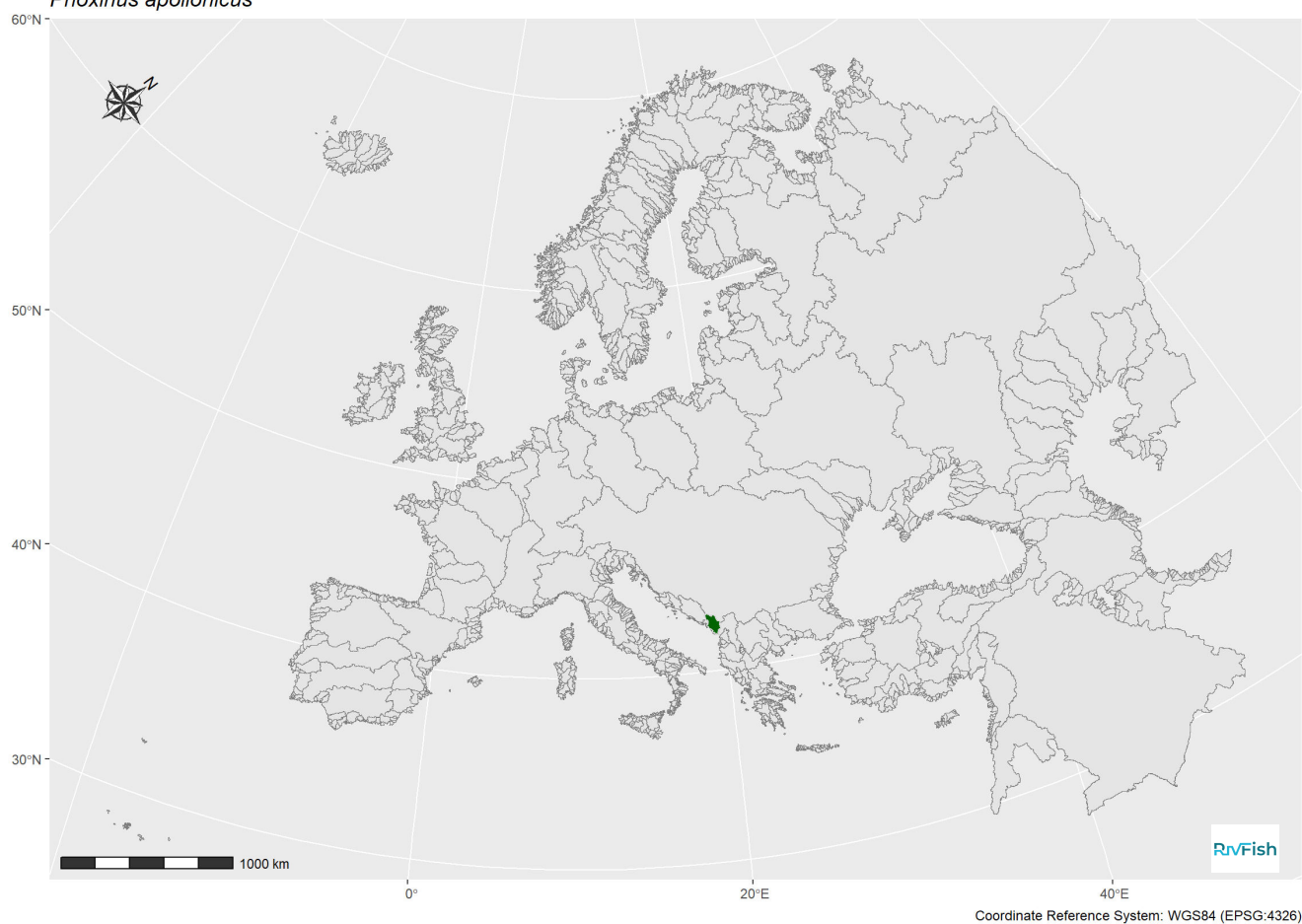


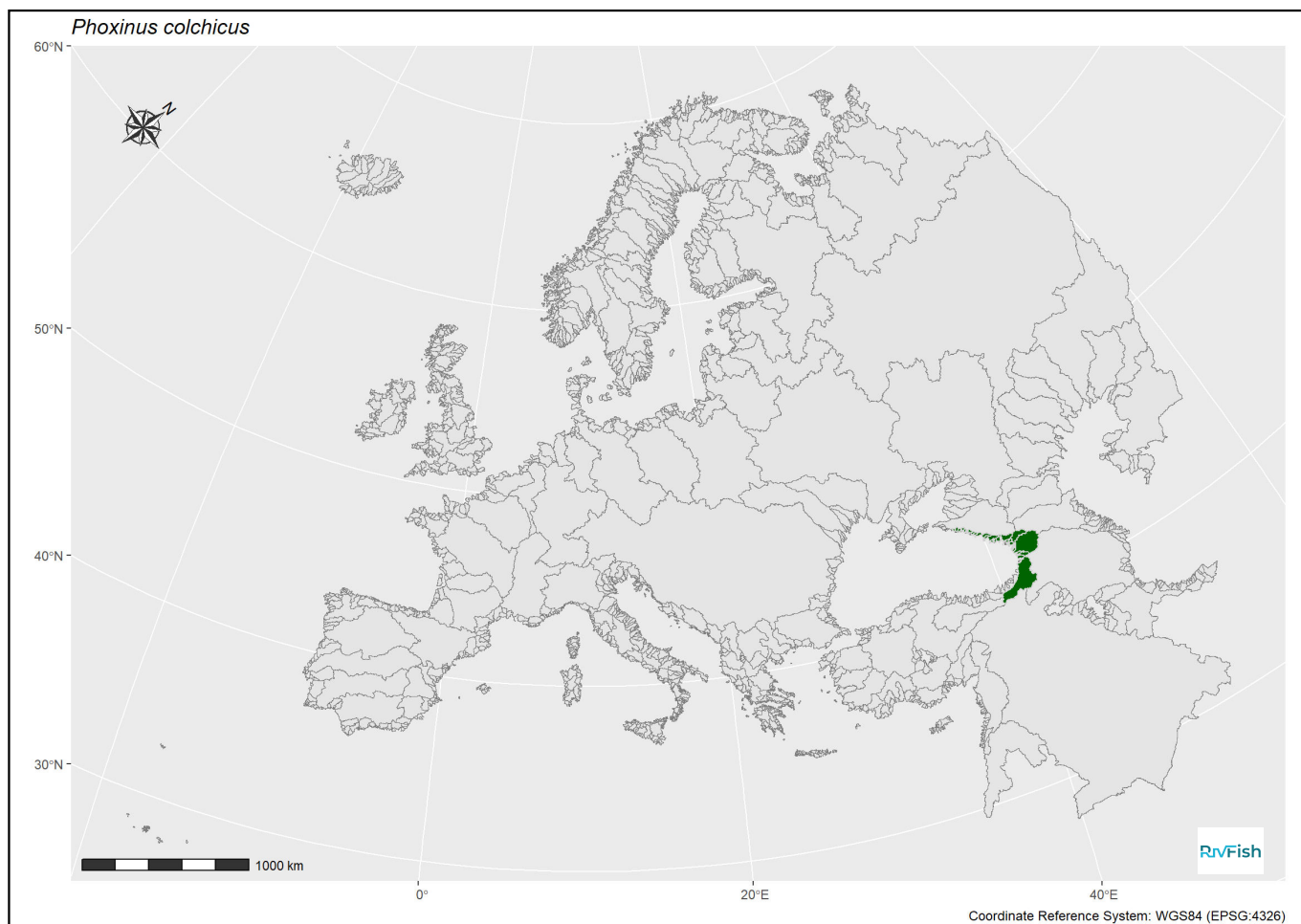
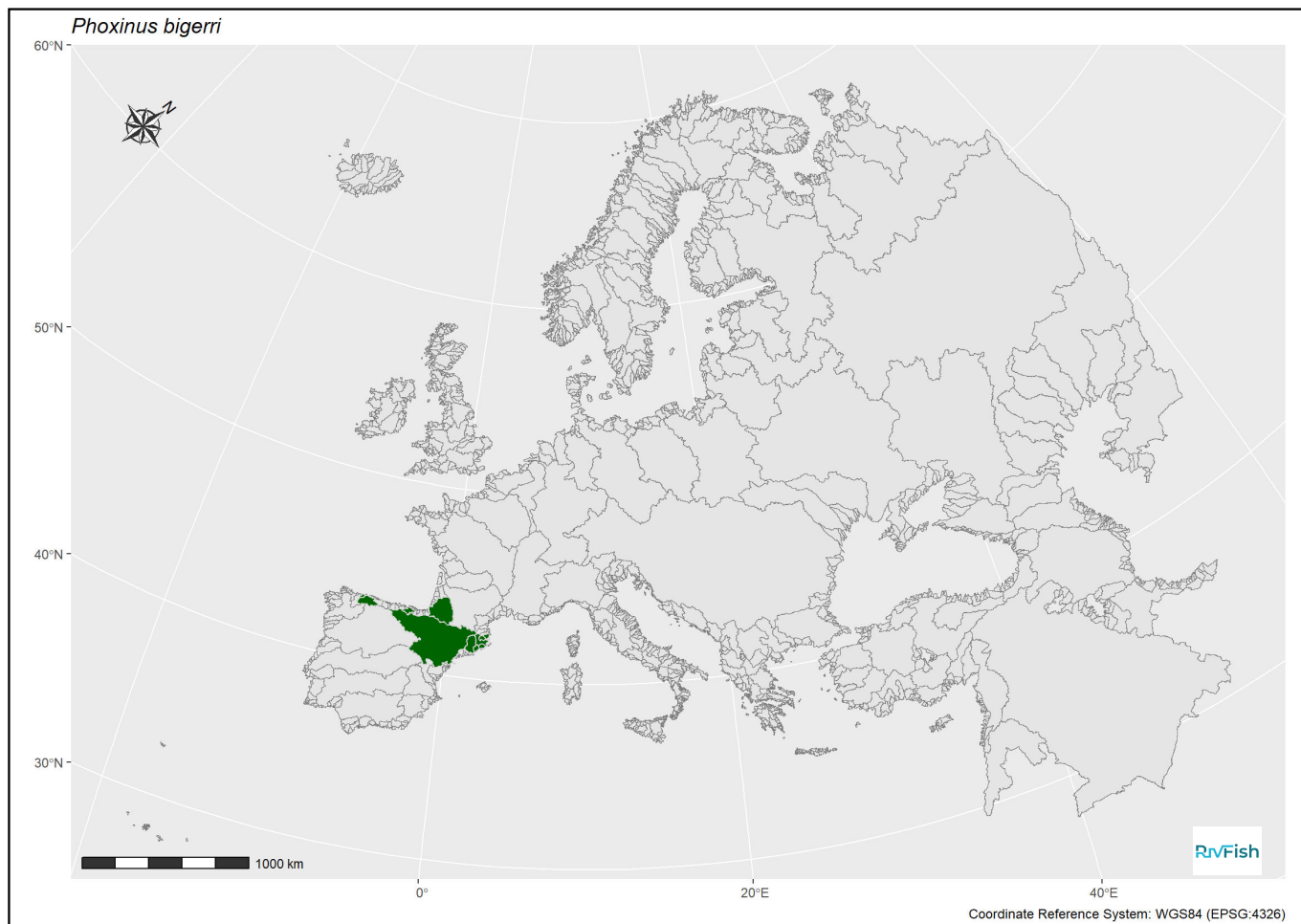
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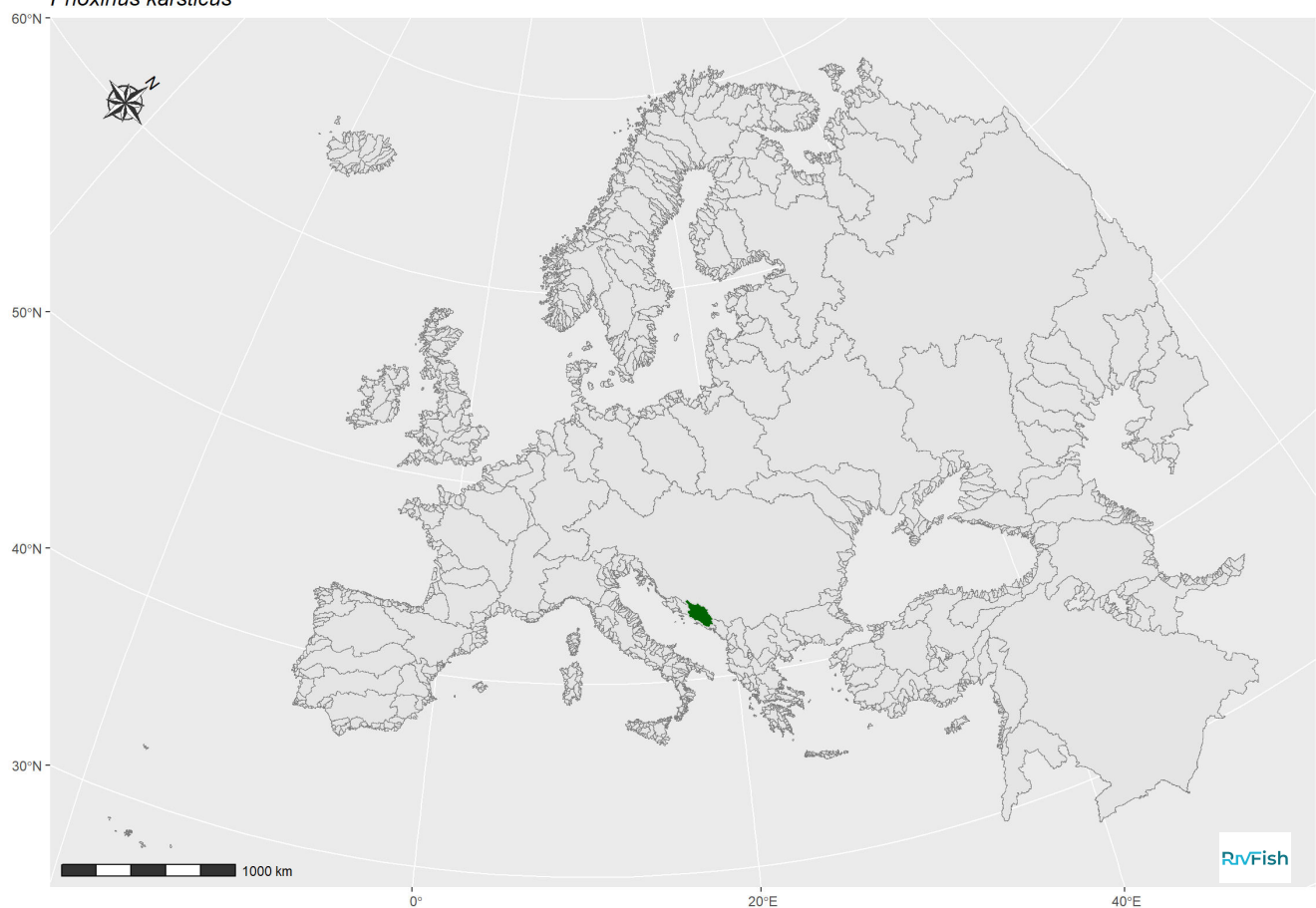


Phoxinus apollonicus





Phoxinus karsticus

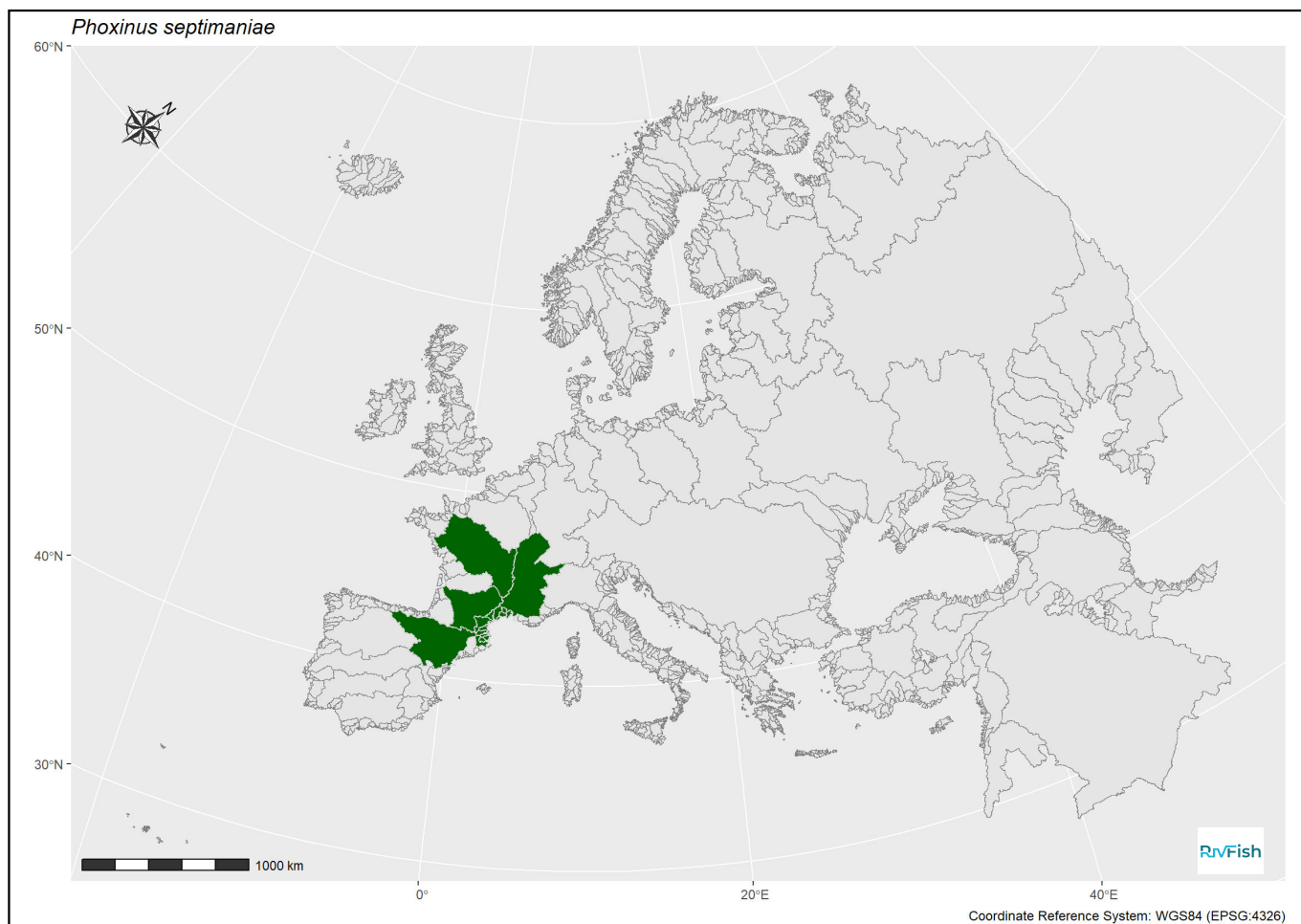
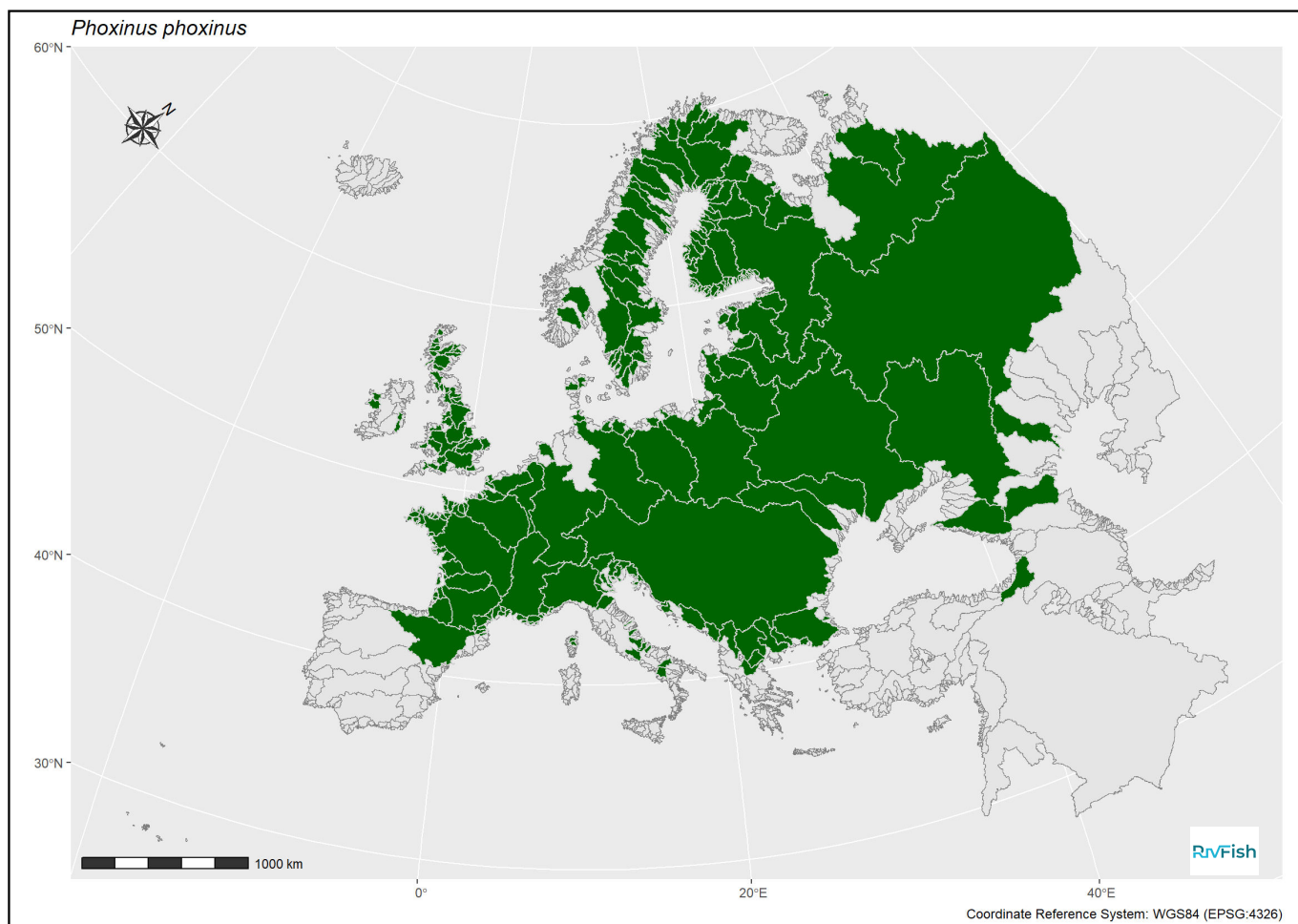


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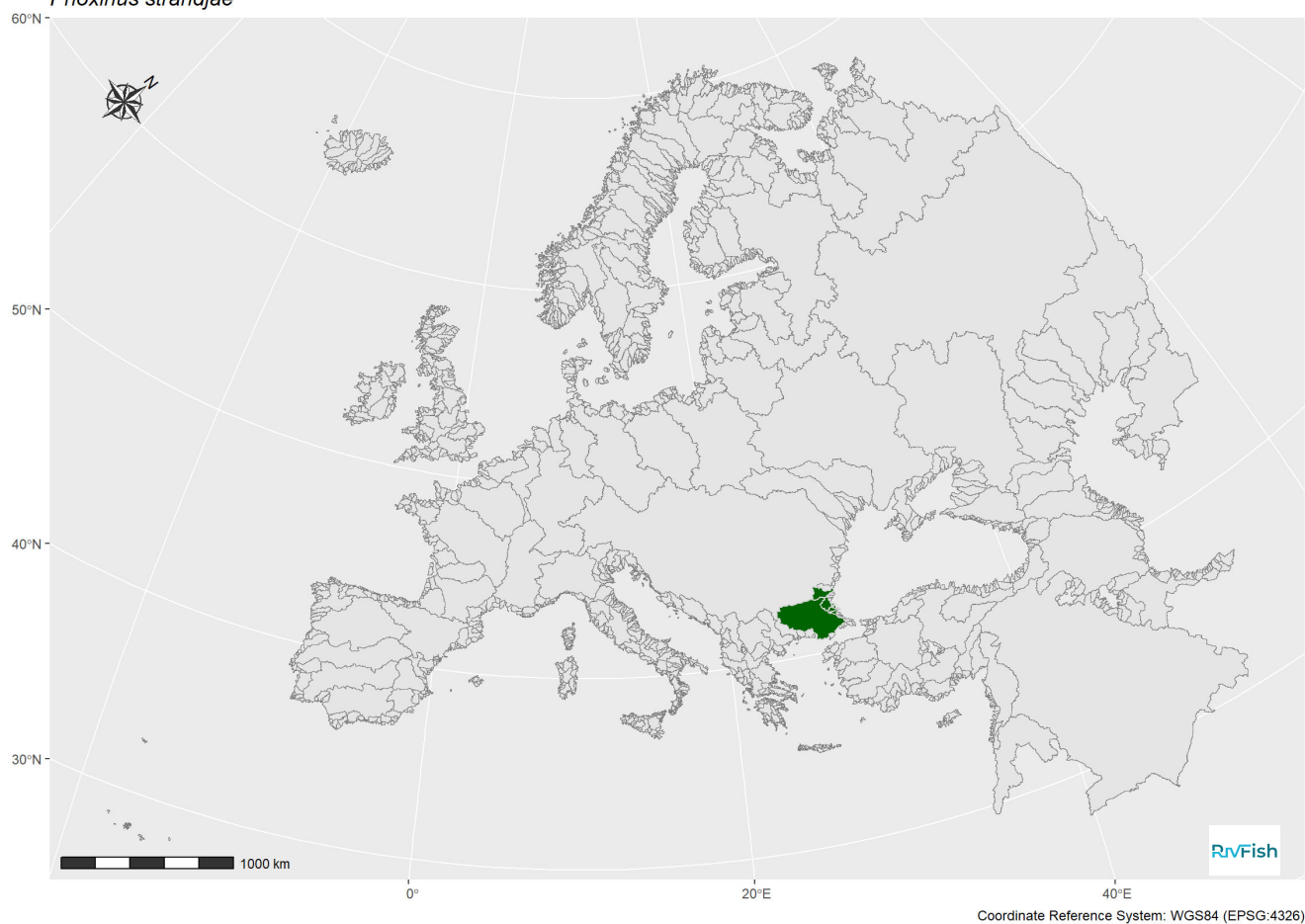
Phoxinus ketmaieri



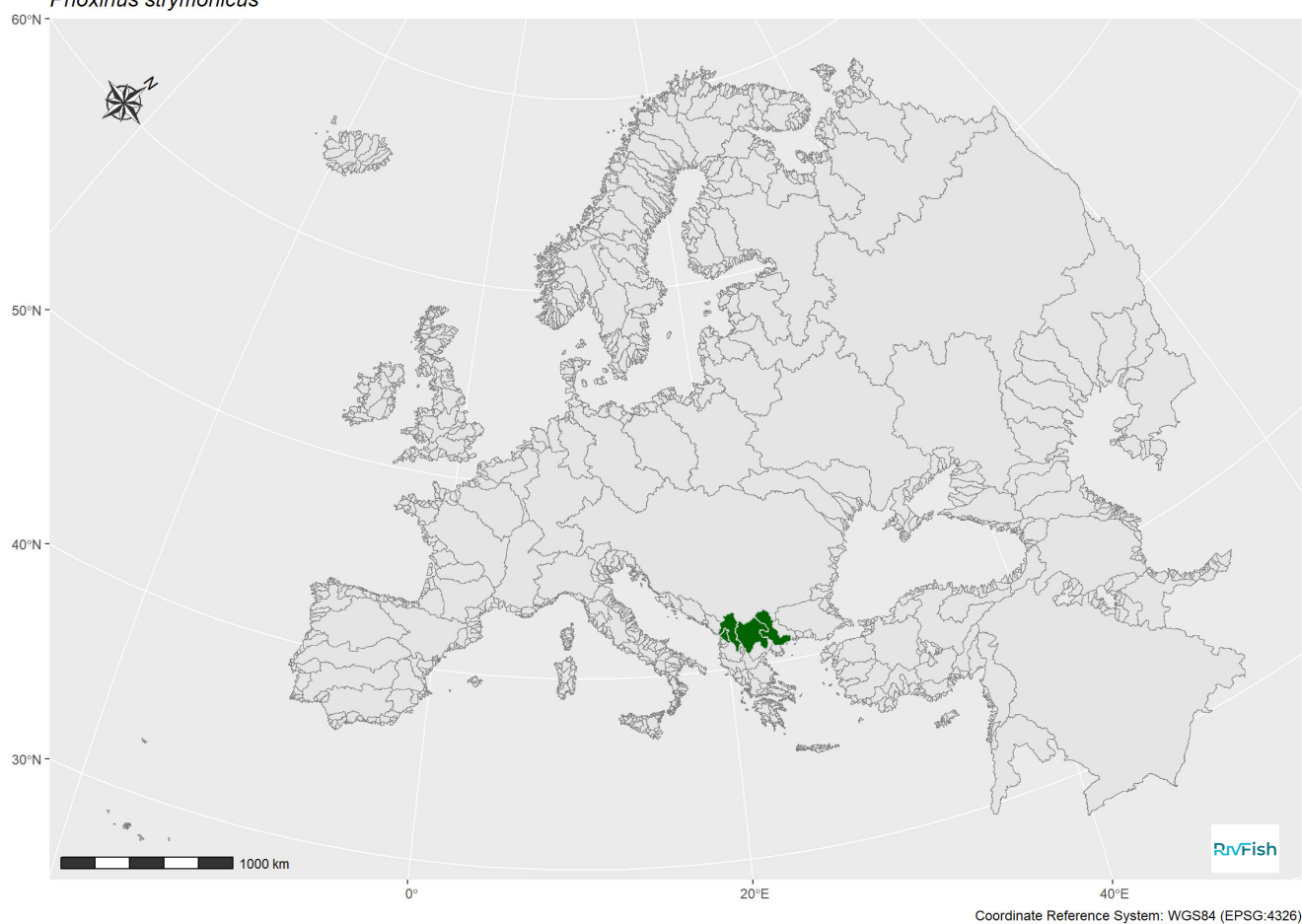
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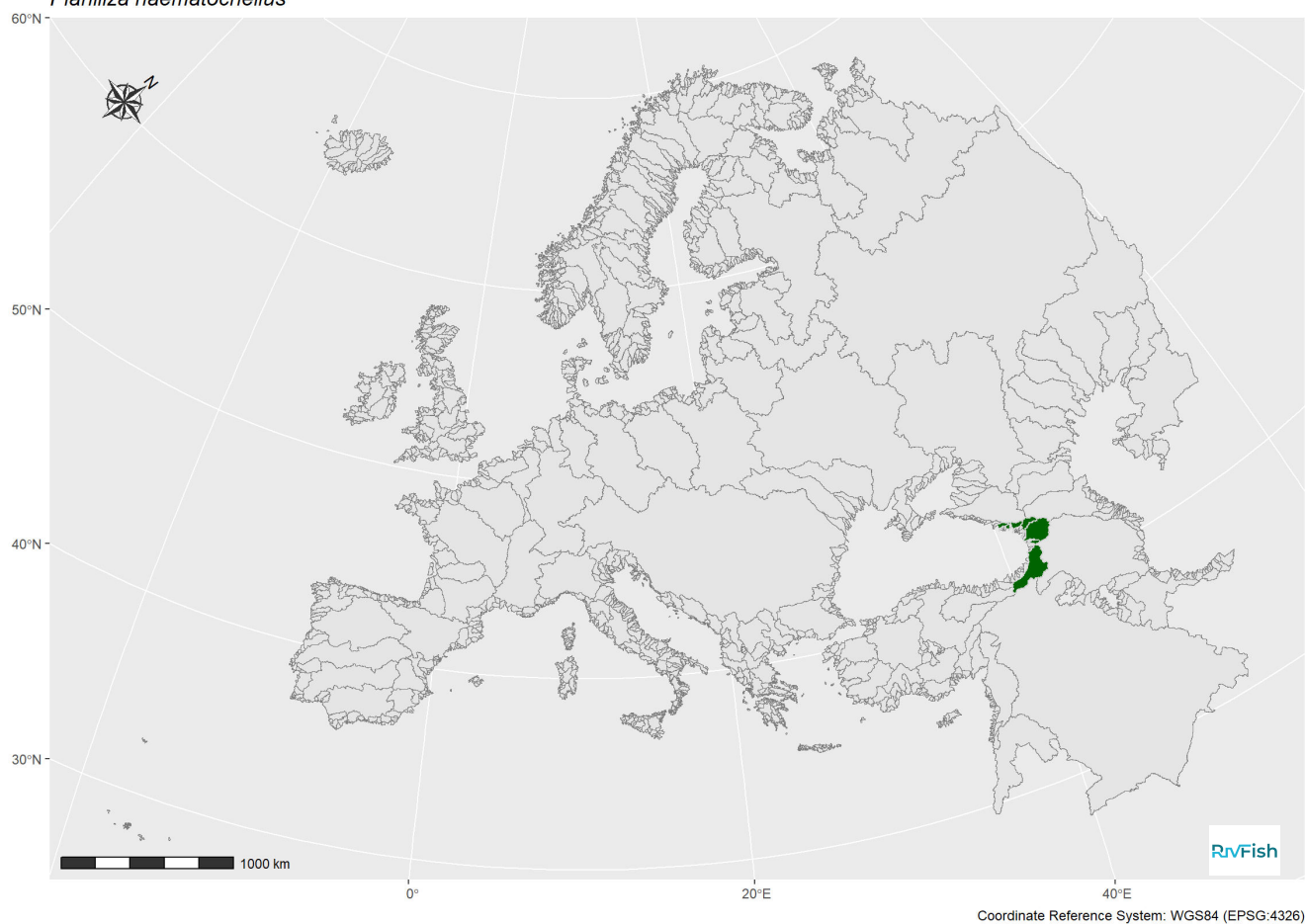
Phoxinus strandjae



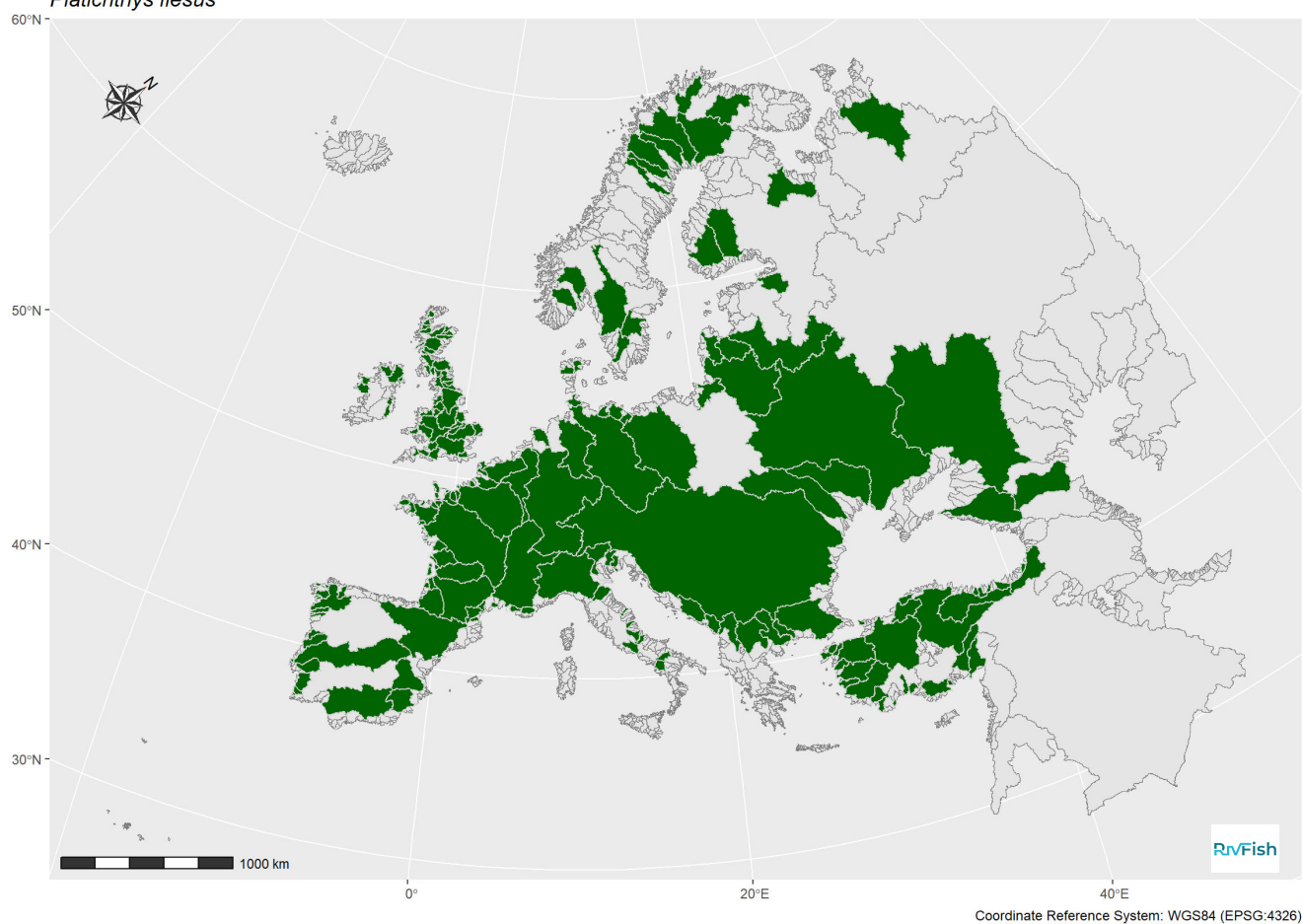
Phoxinus strymonicus

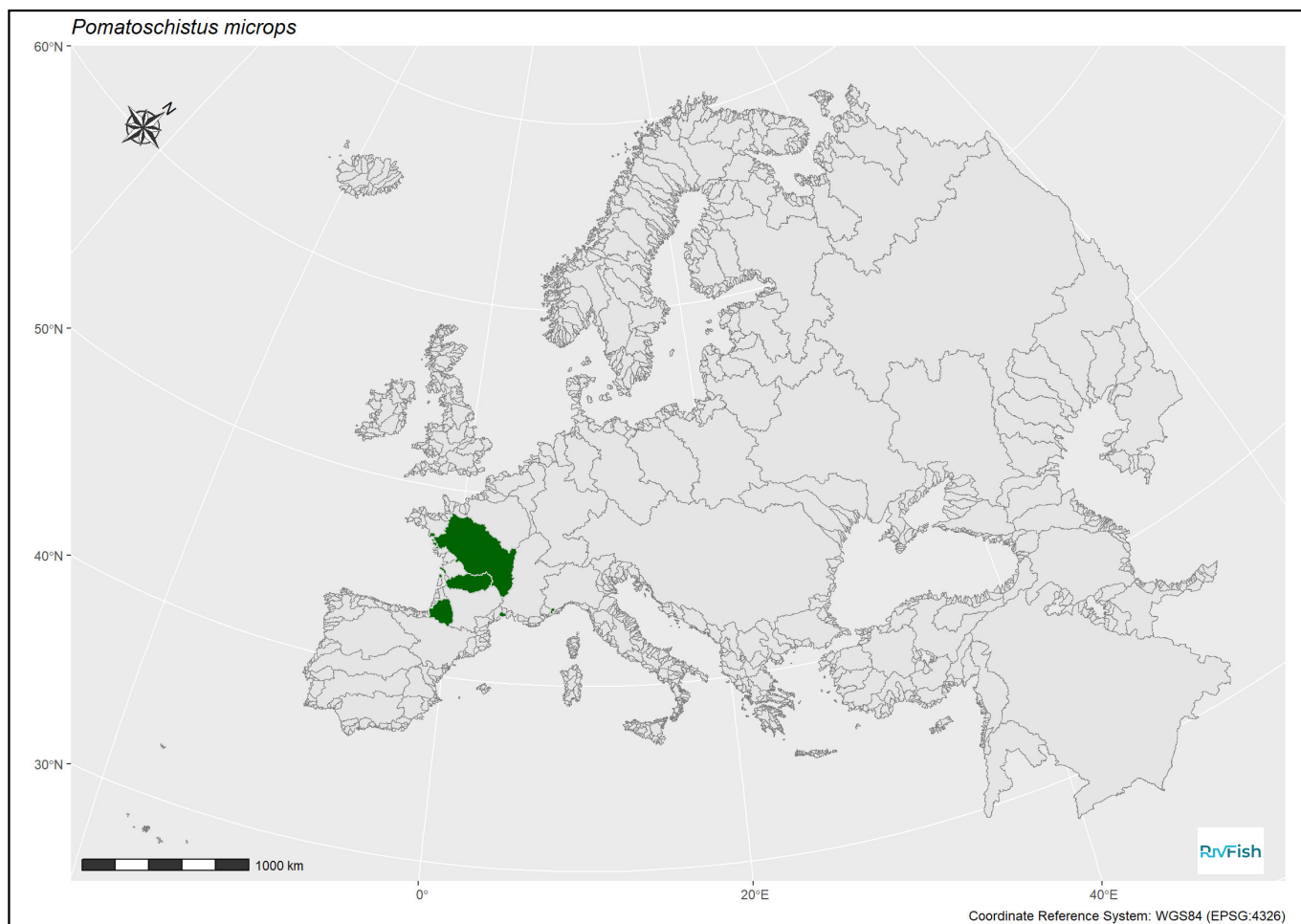
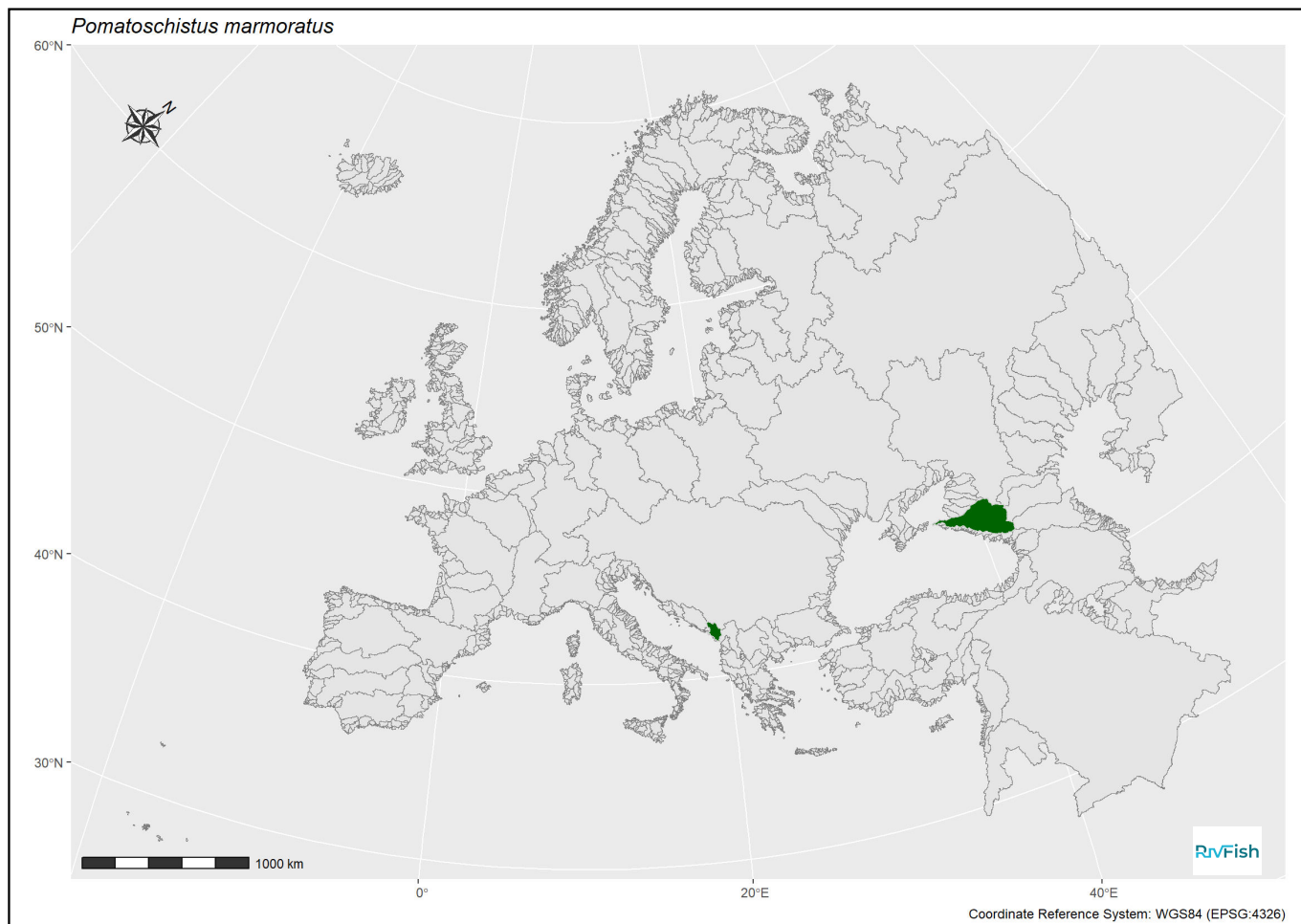


Planiliza haematocheilus

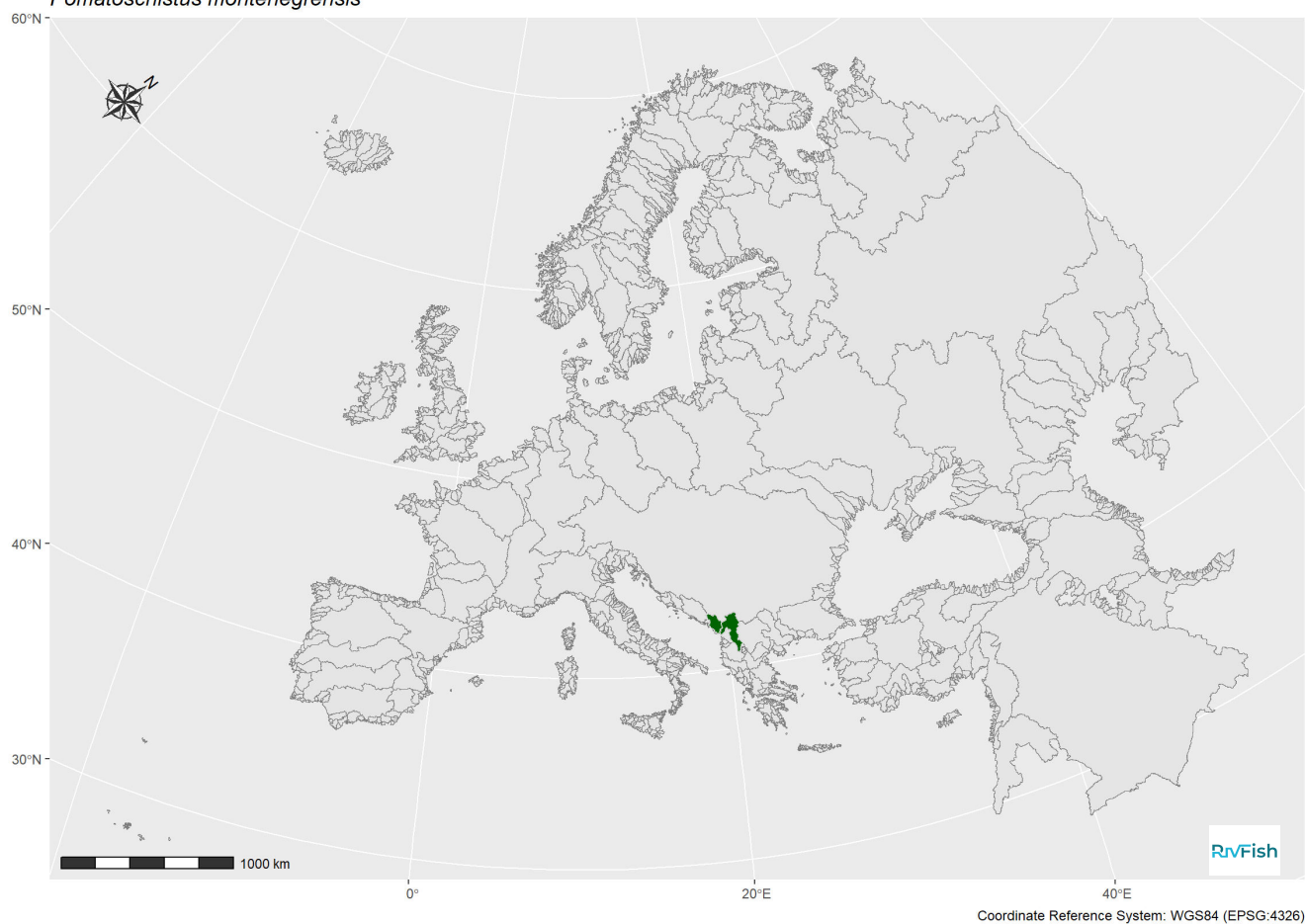


Platichthys flesus

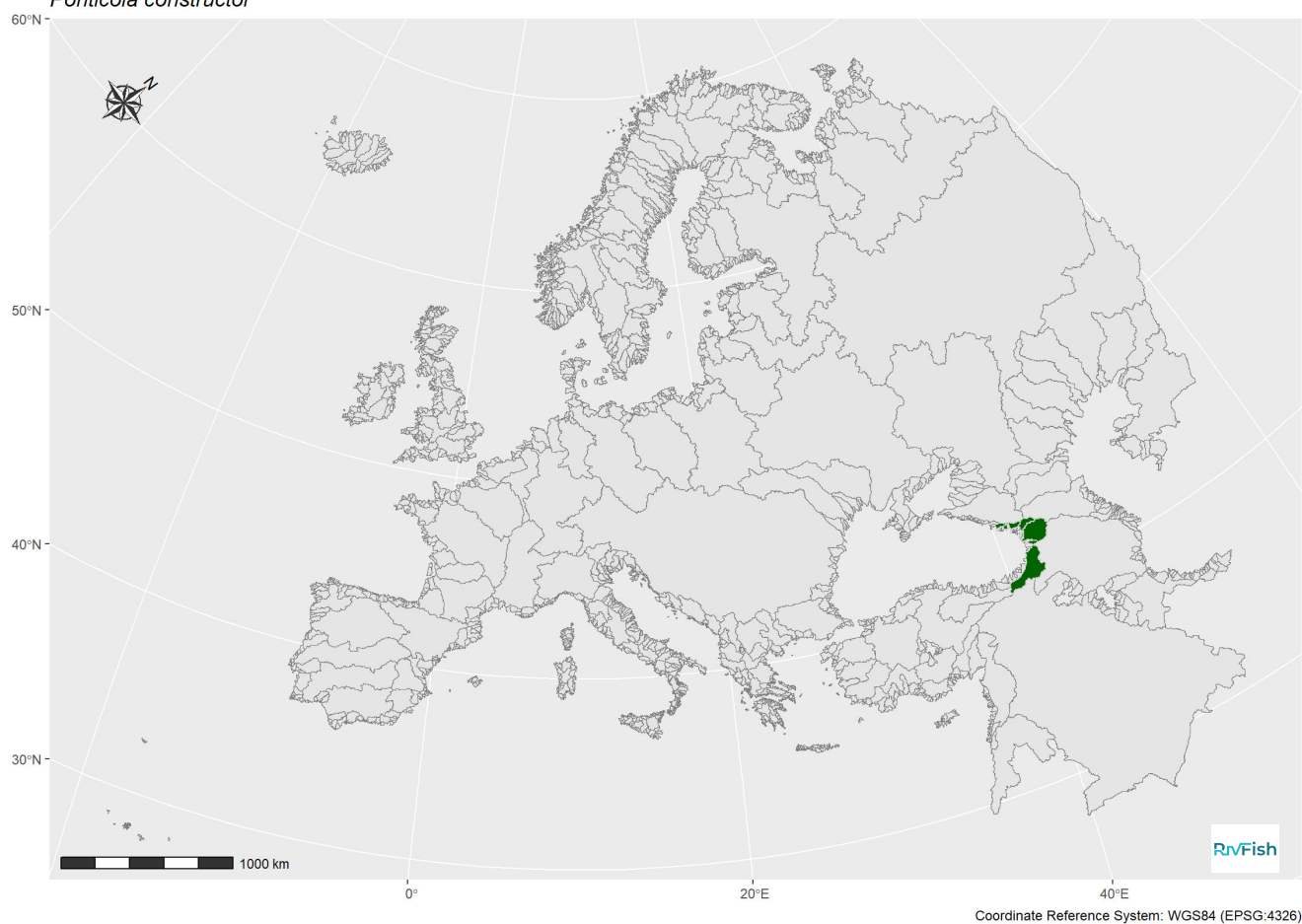




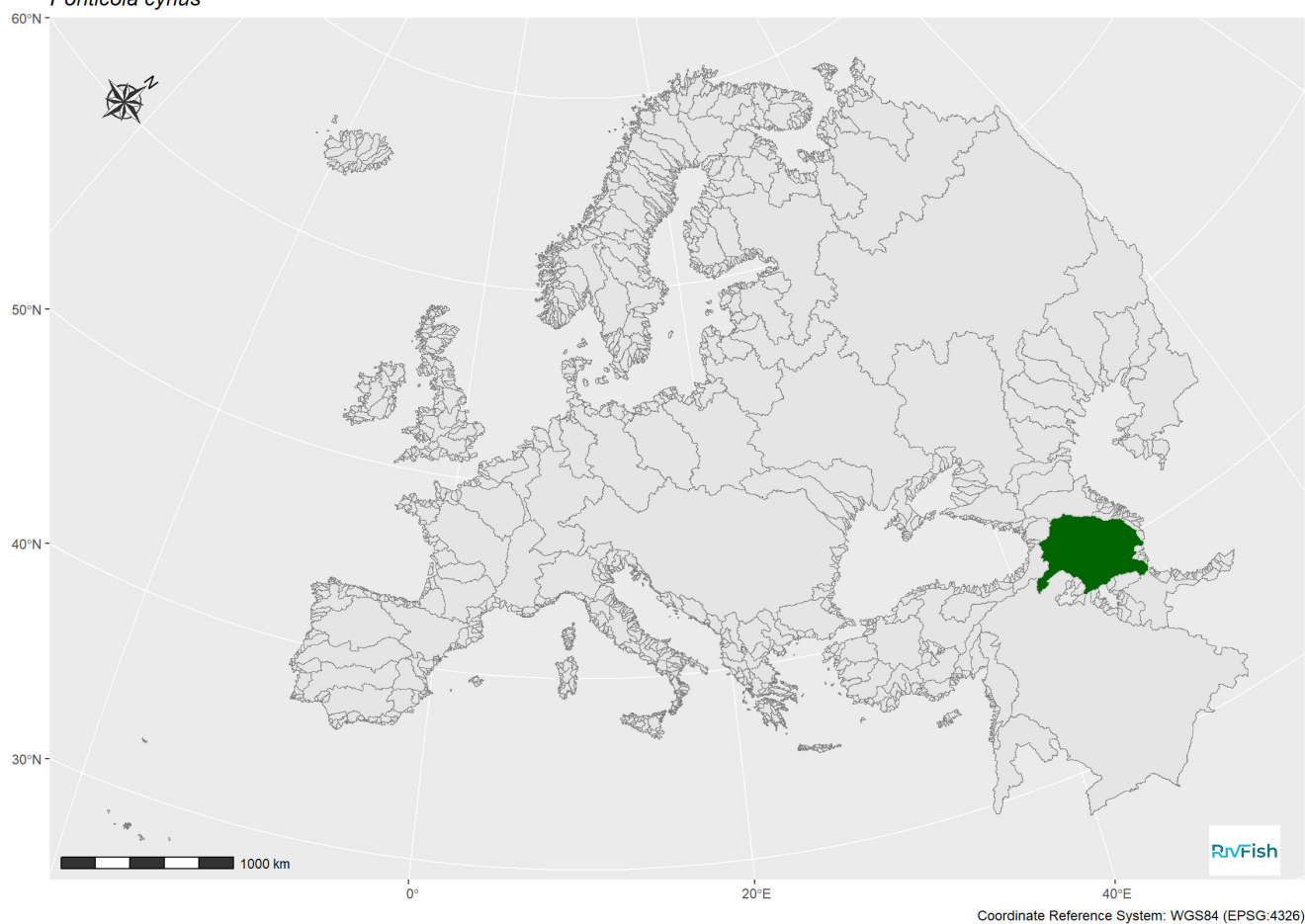
Pomatoschistus montenegrensis



Ponticola constructor

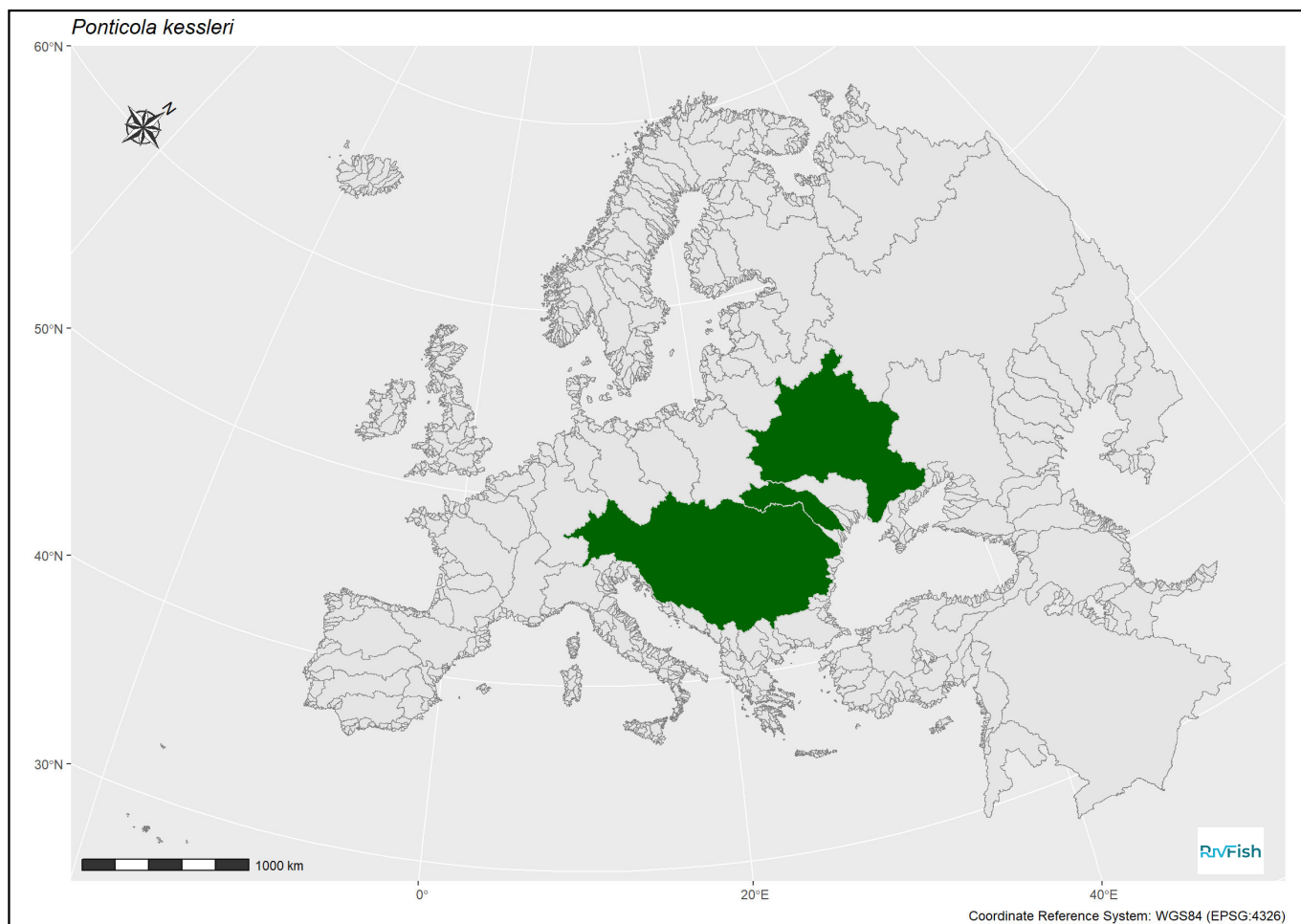
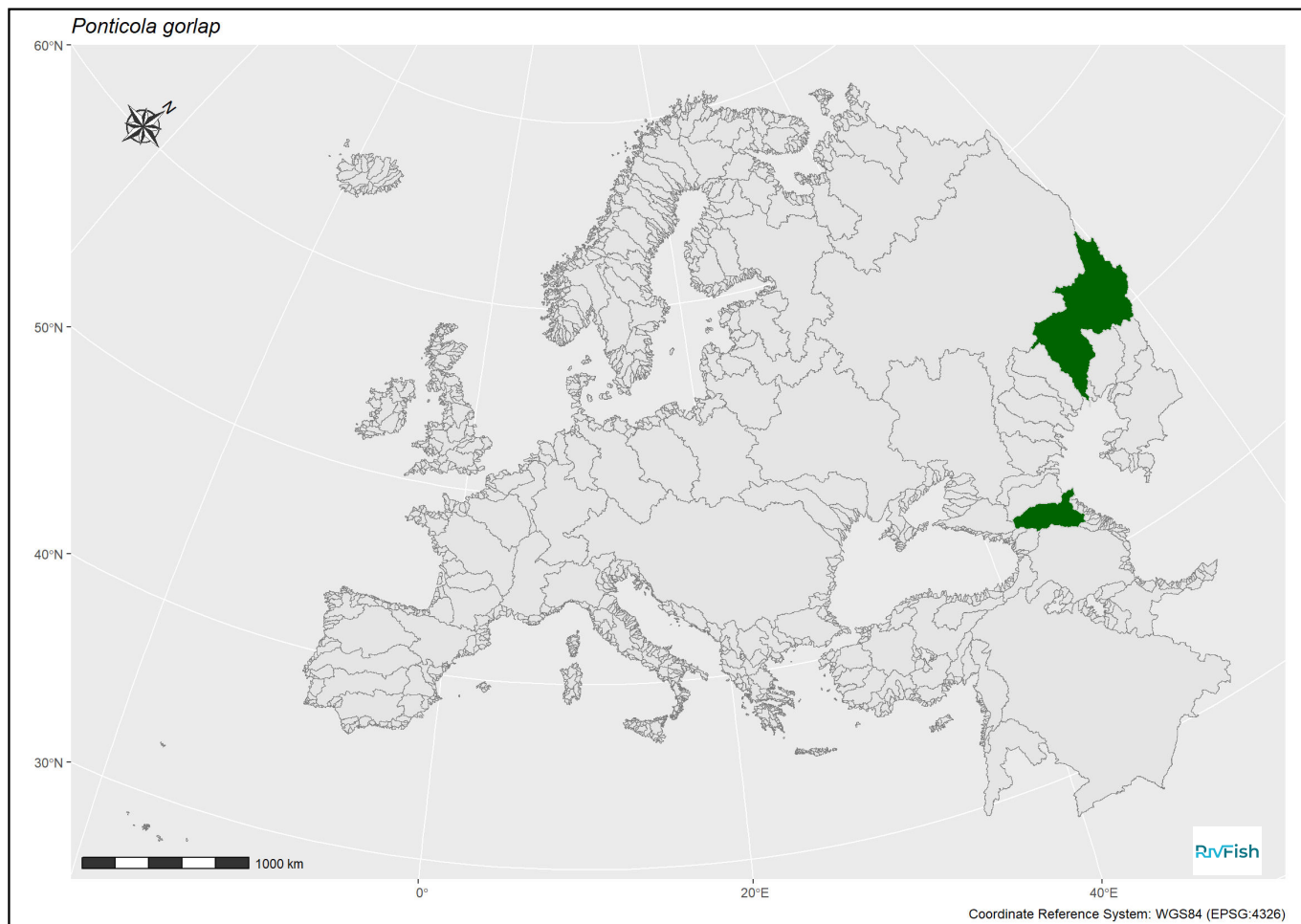


Ponticola cyrius

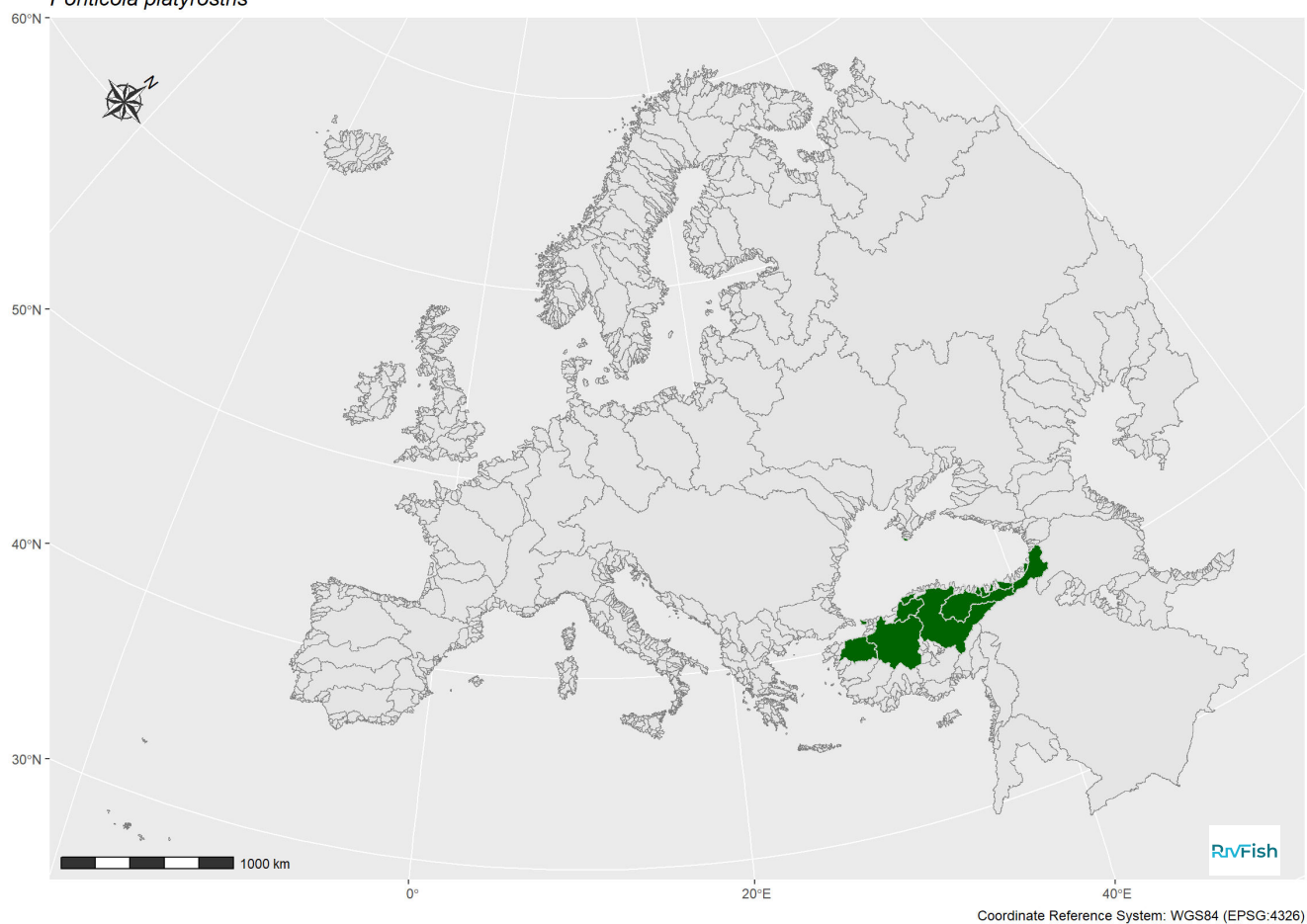


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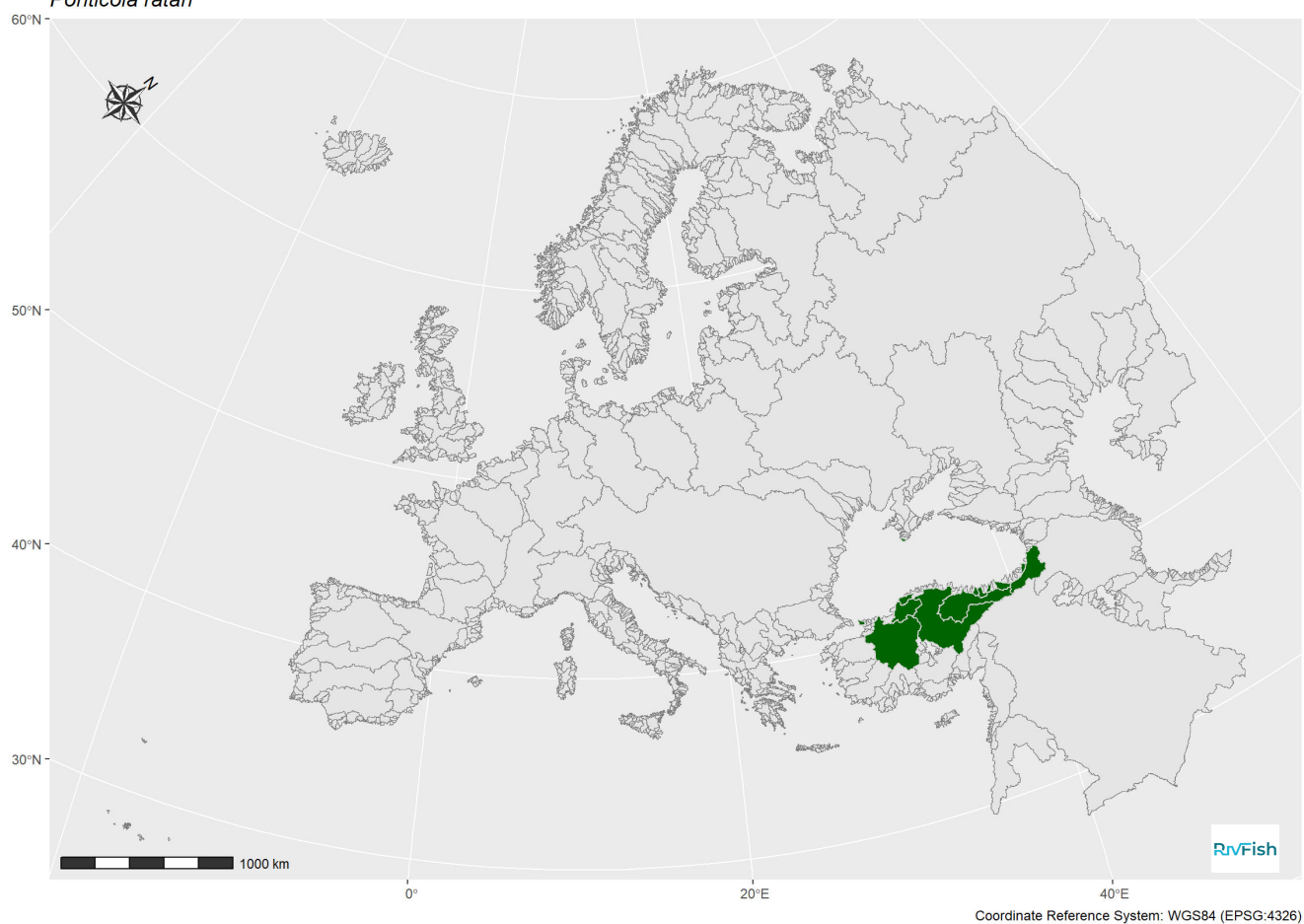




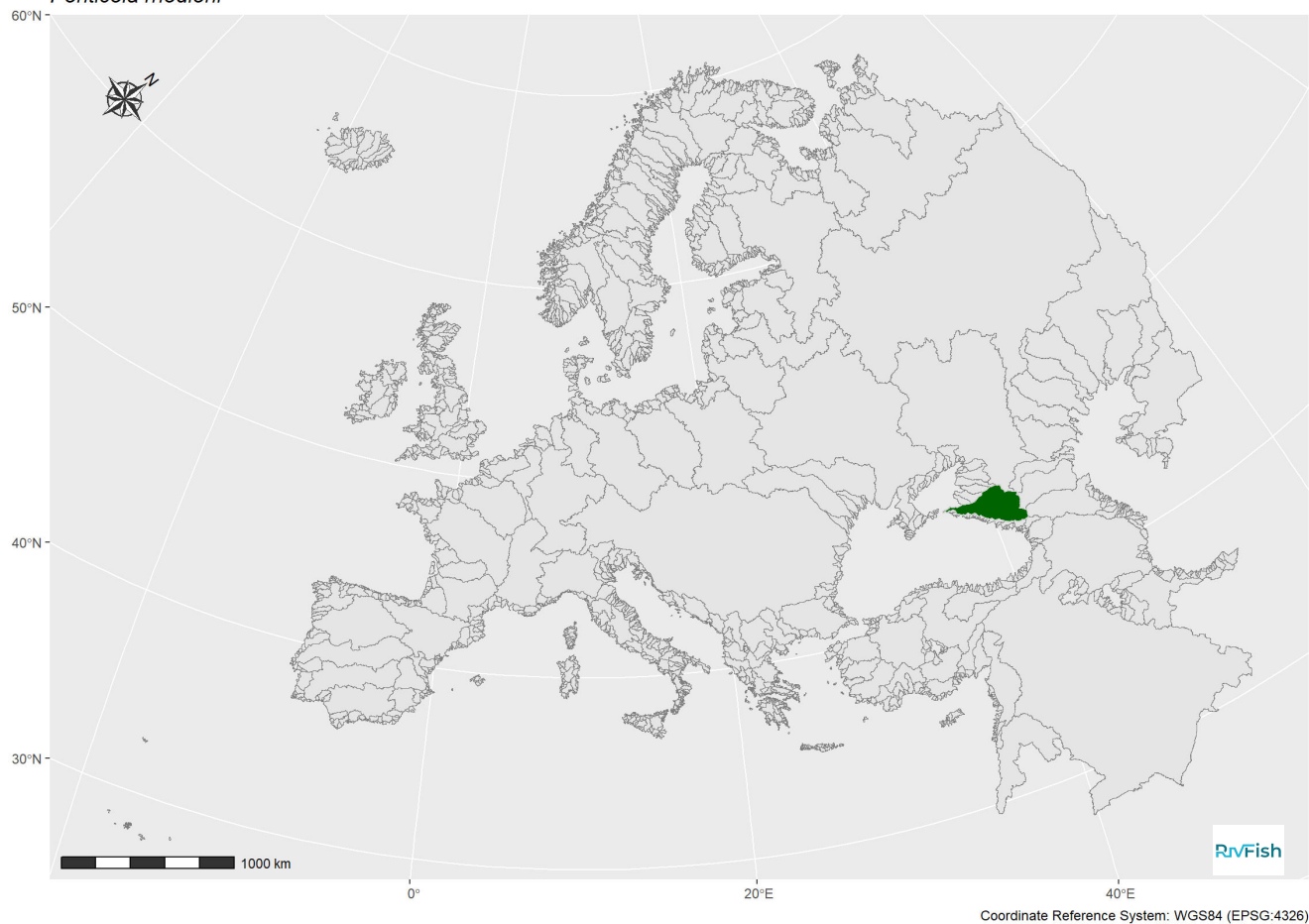
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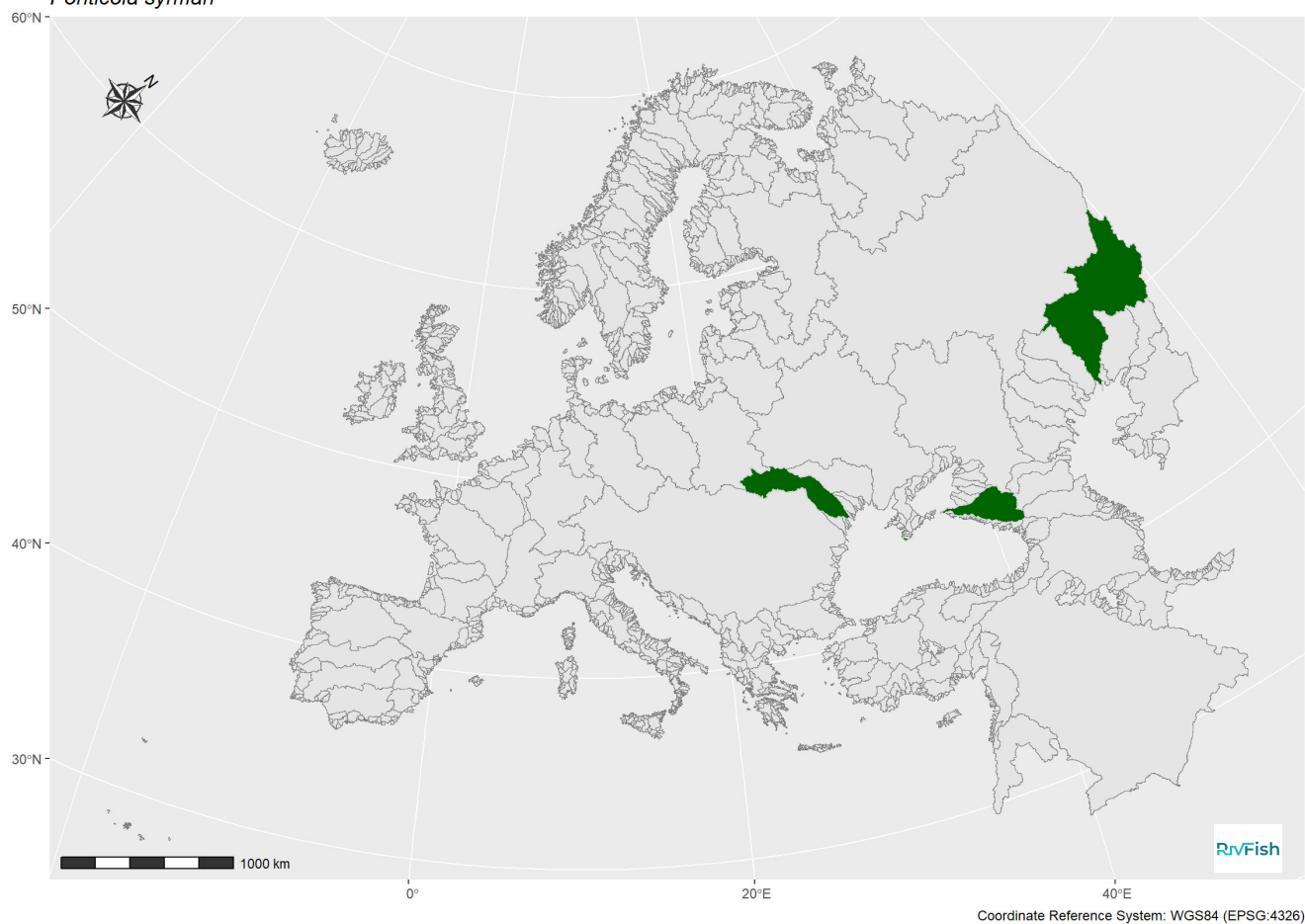
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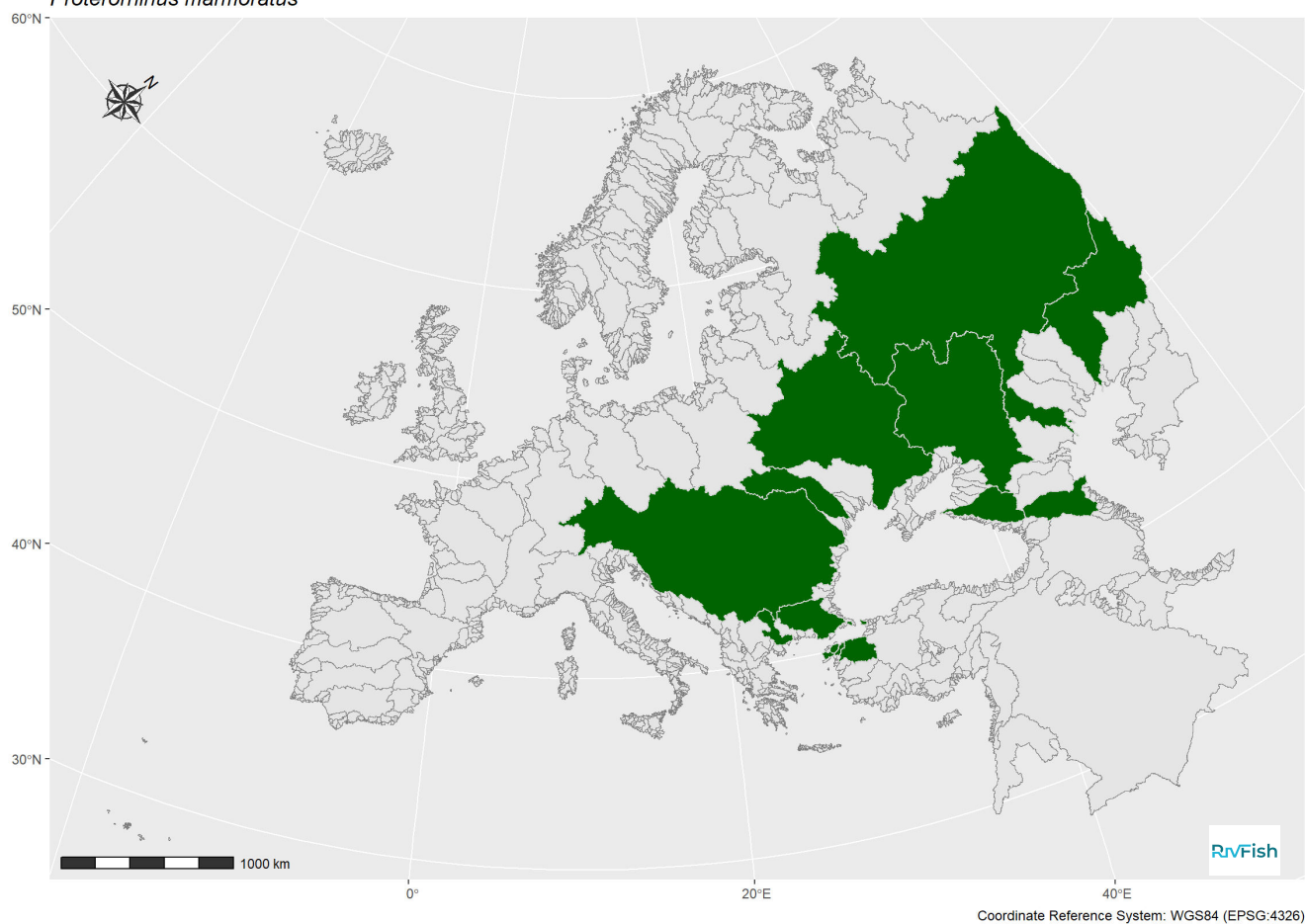
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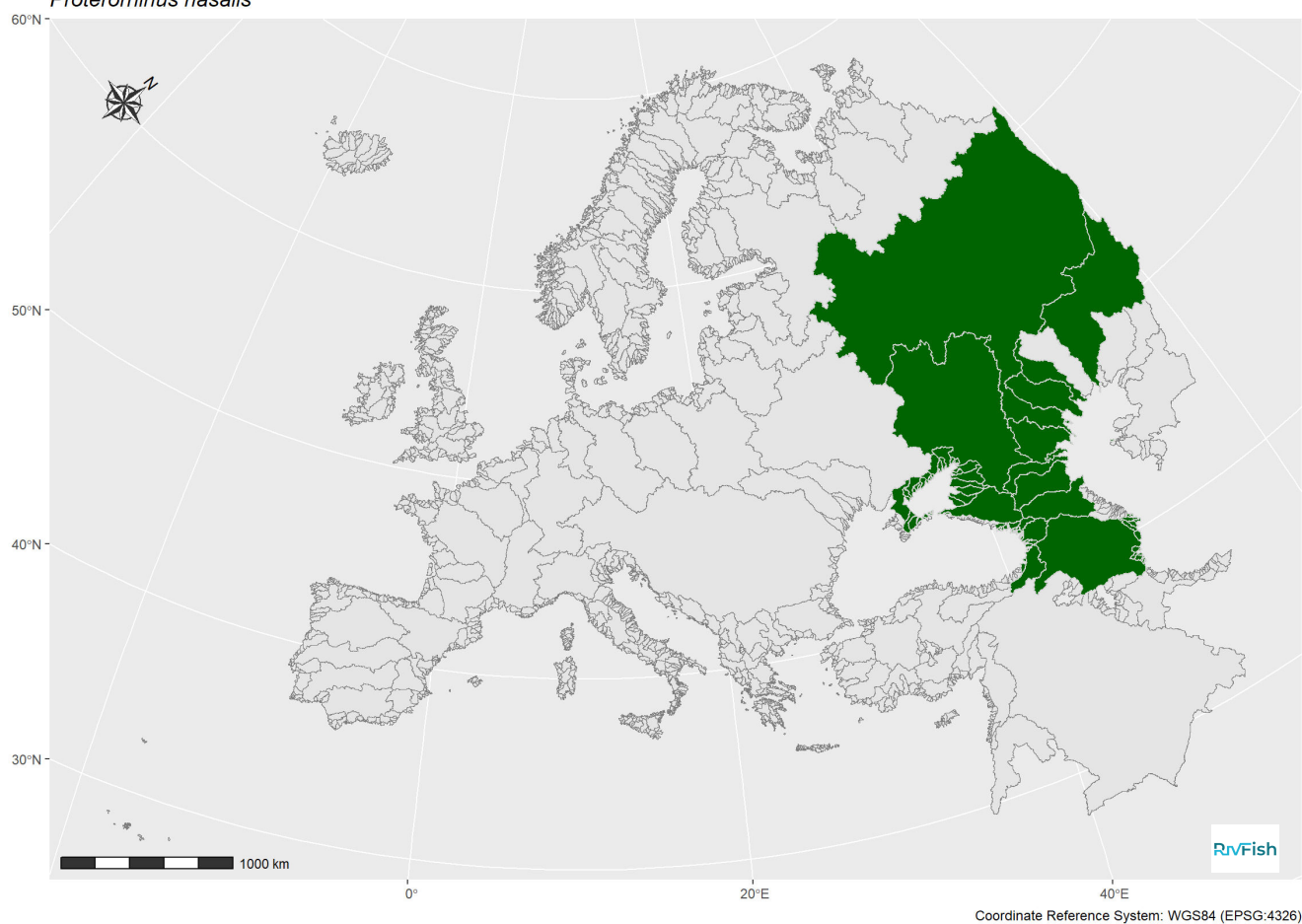
Ponticola syrman



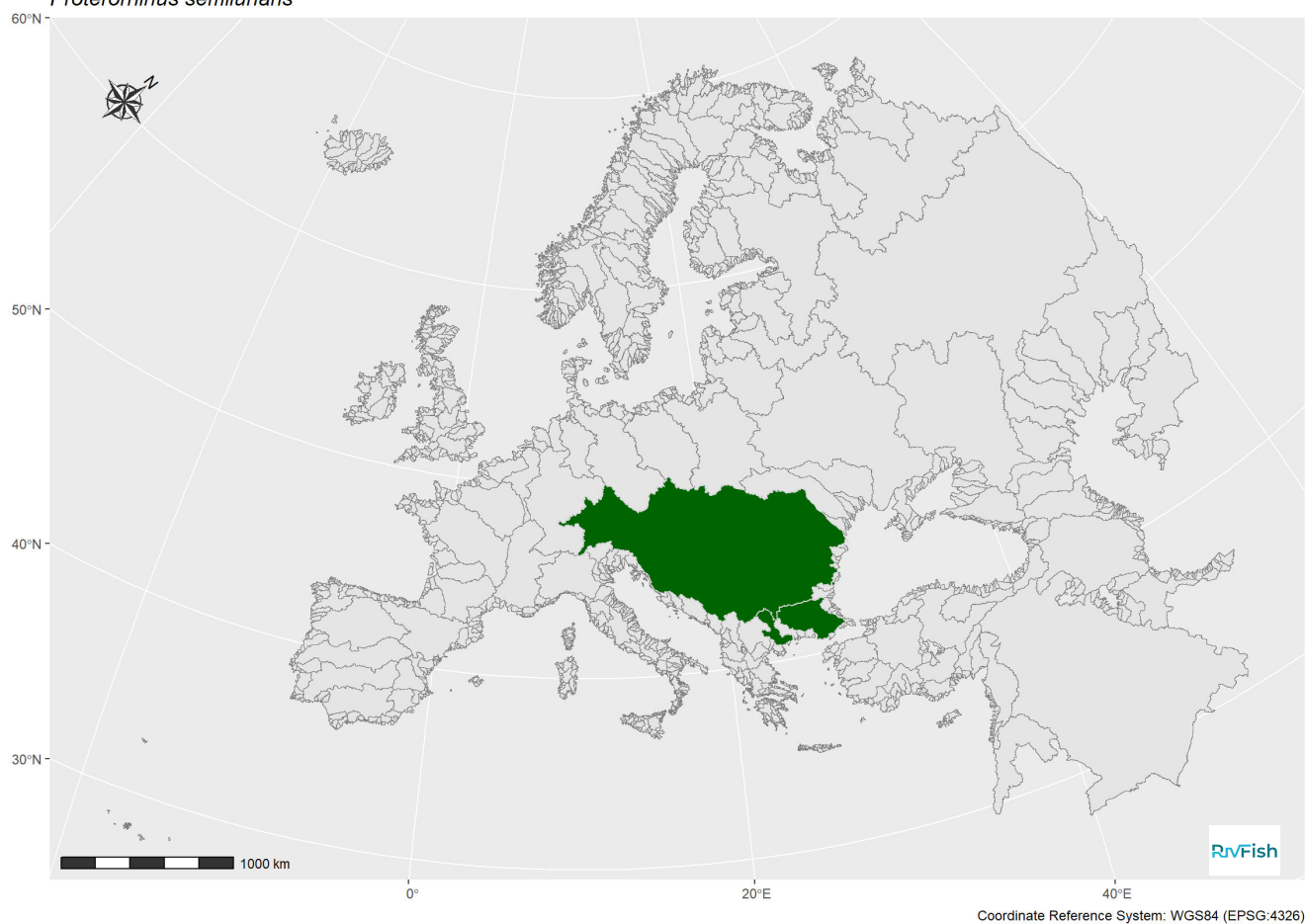
Proterorhinus marmoratus



Proterorhinus nasalis

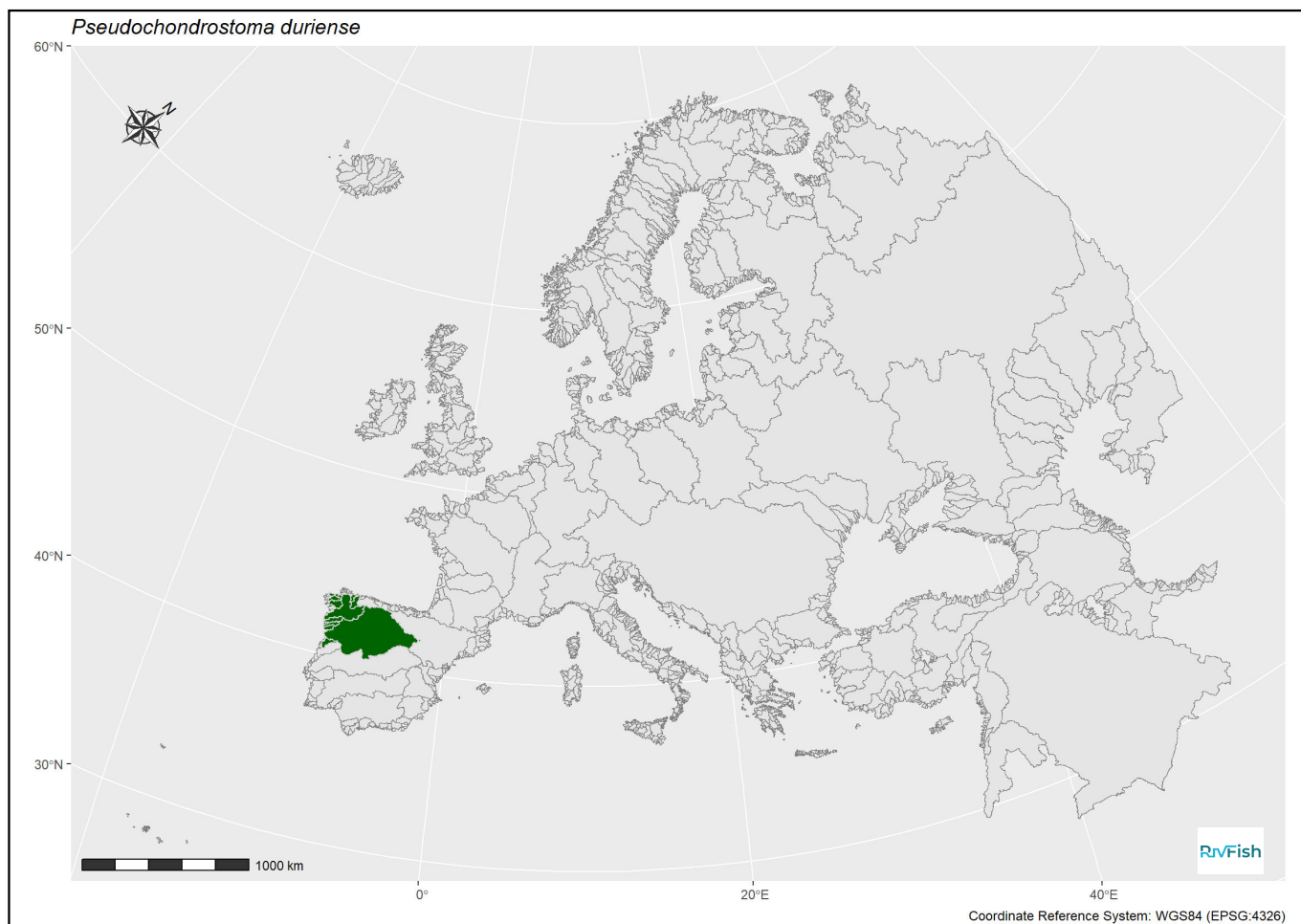
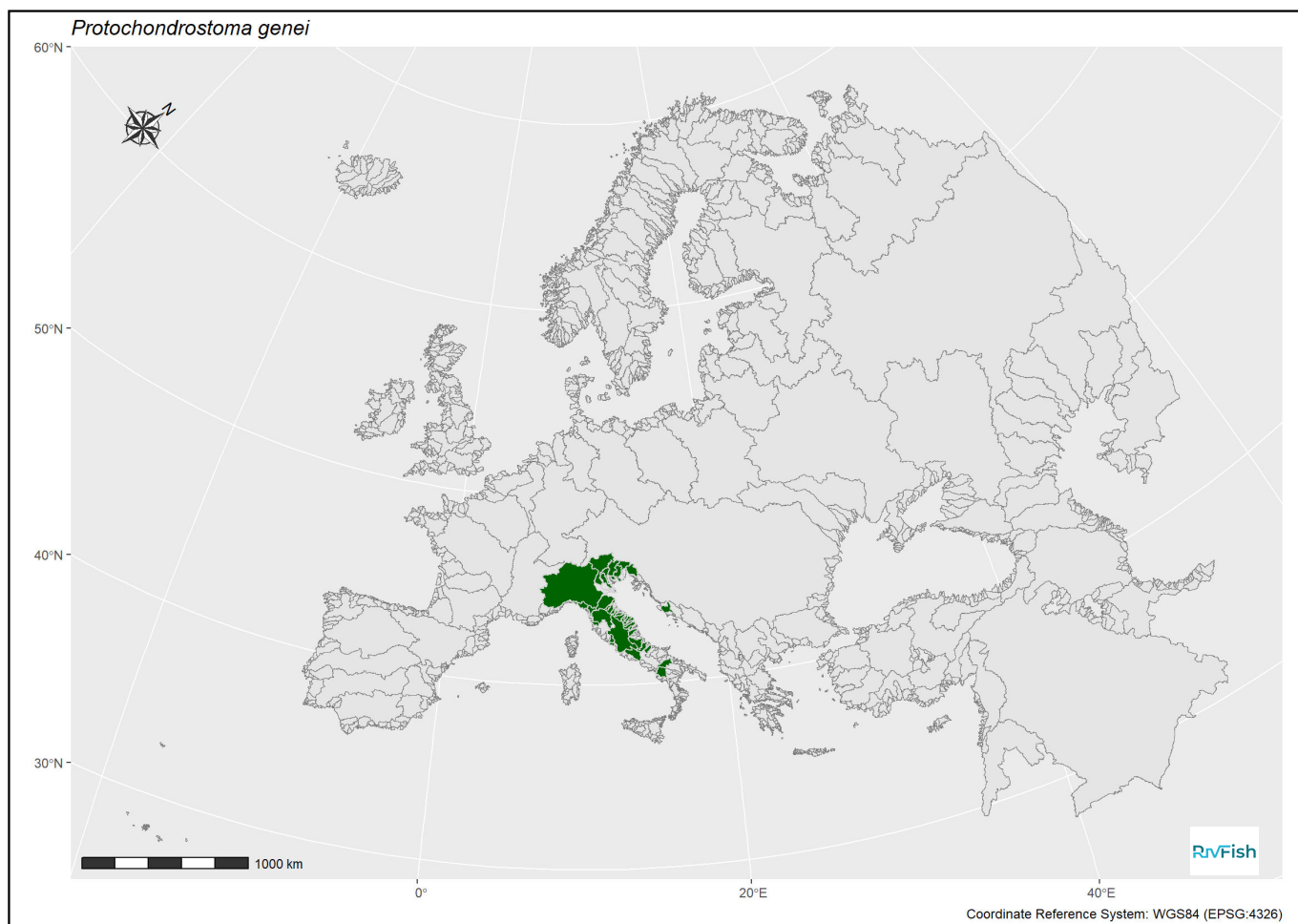


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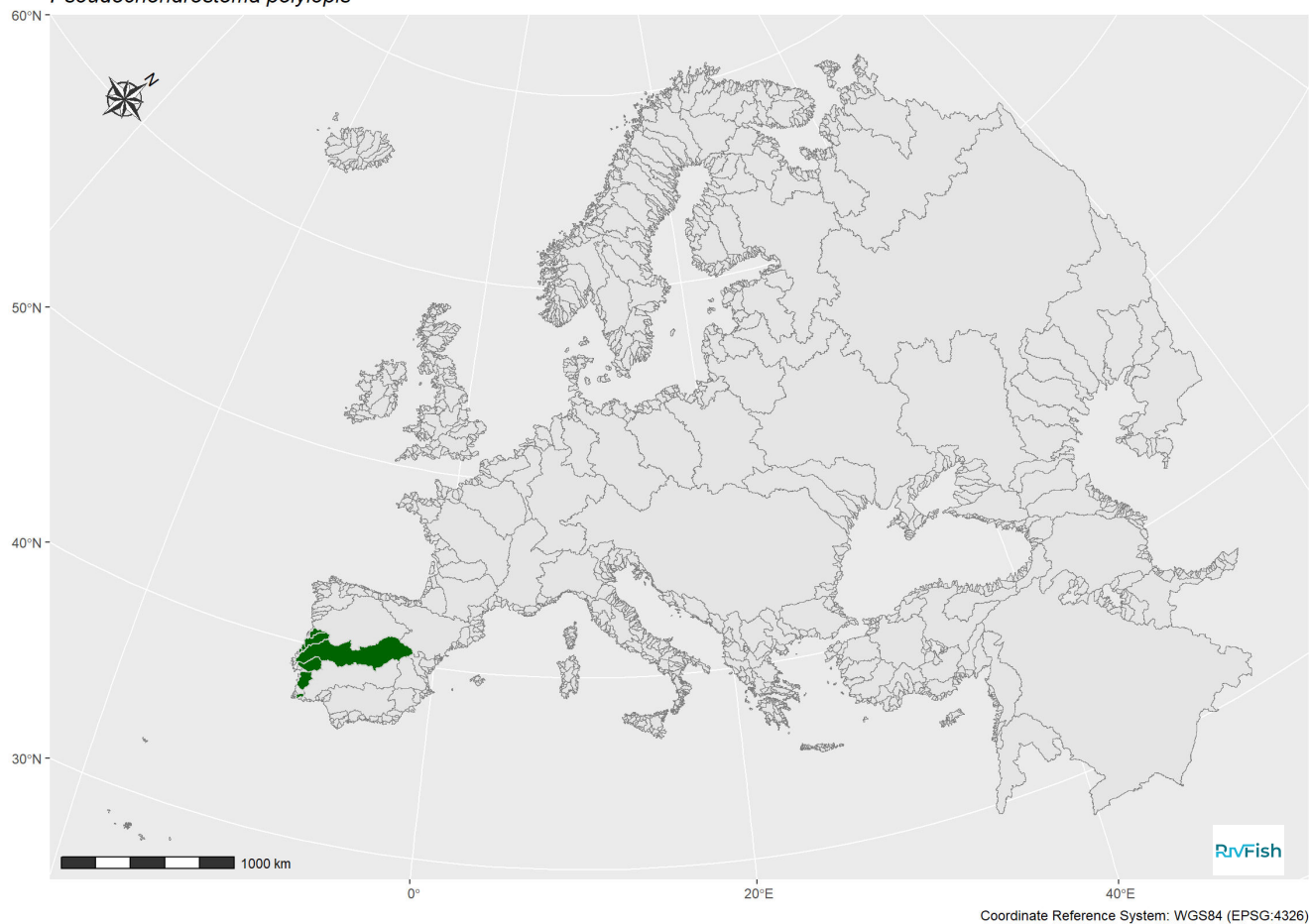


Proterorhinus tataricus

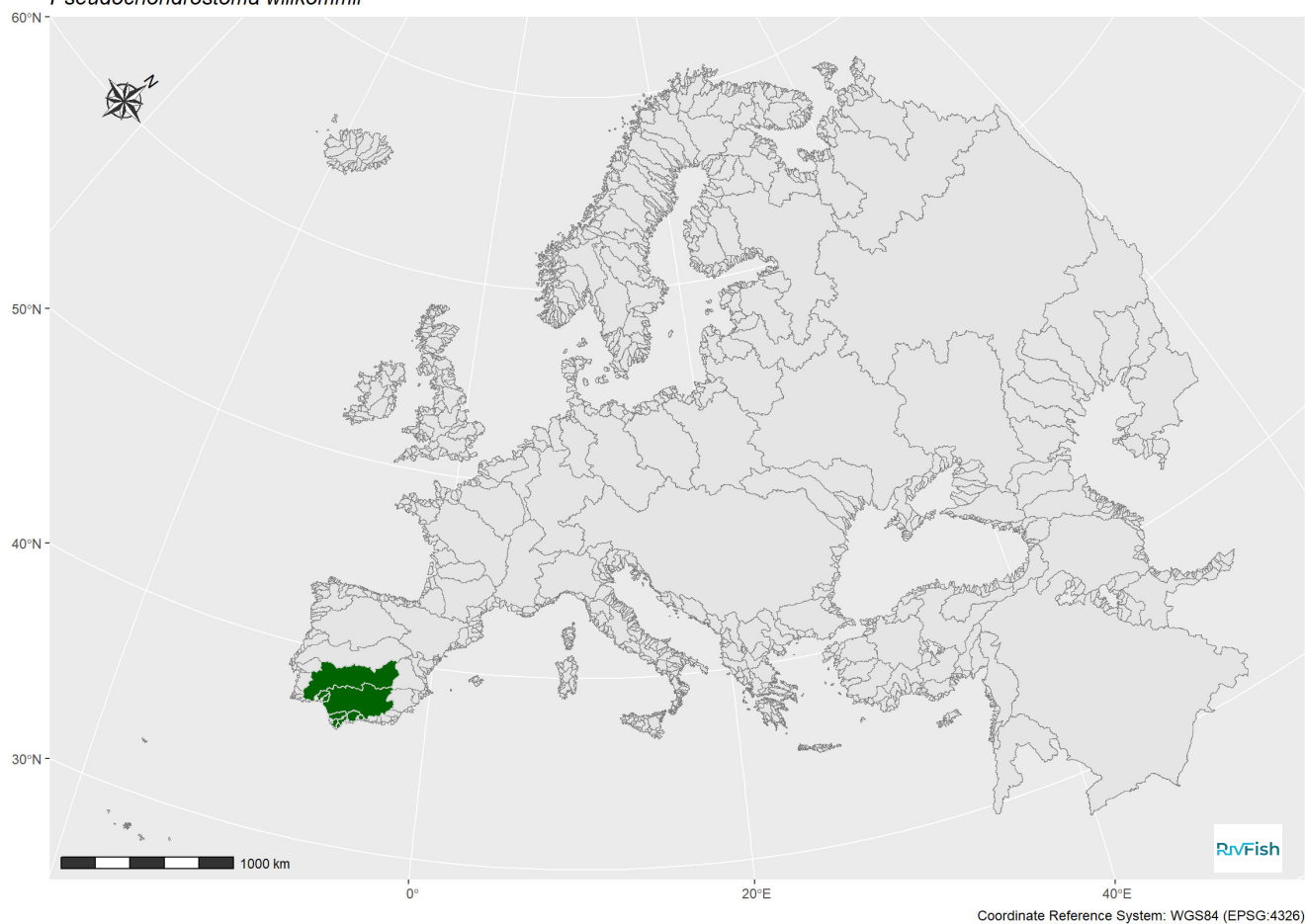


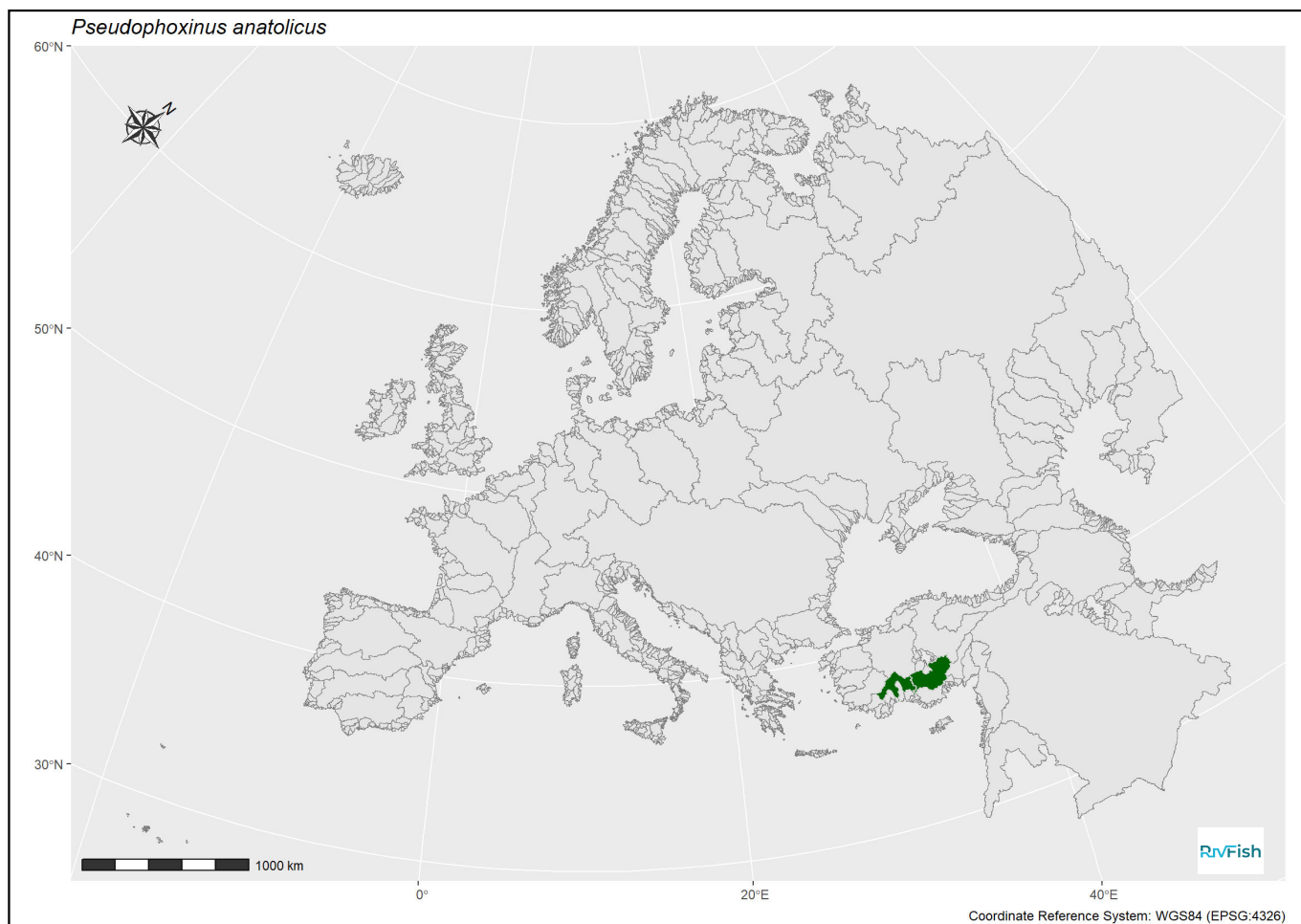
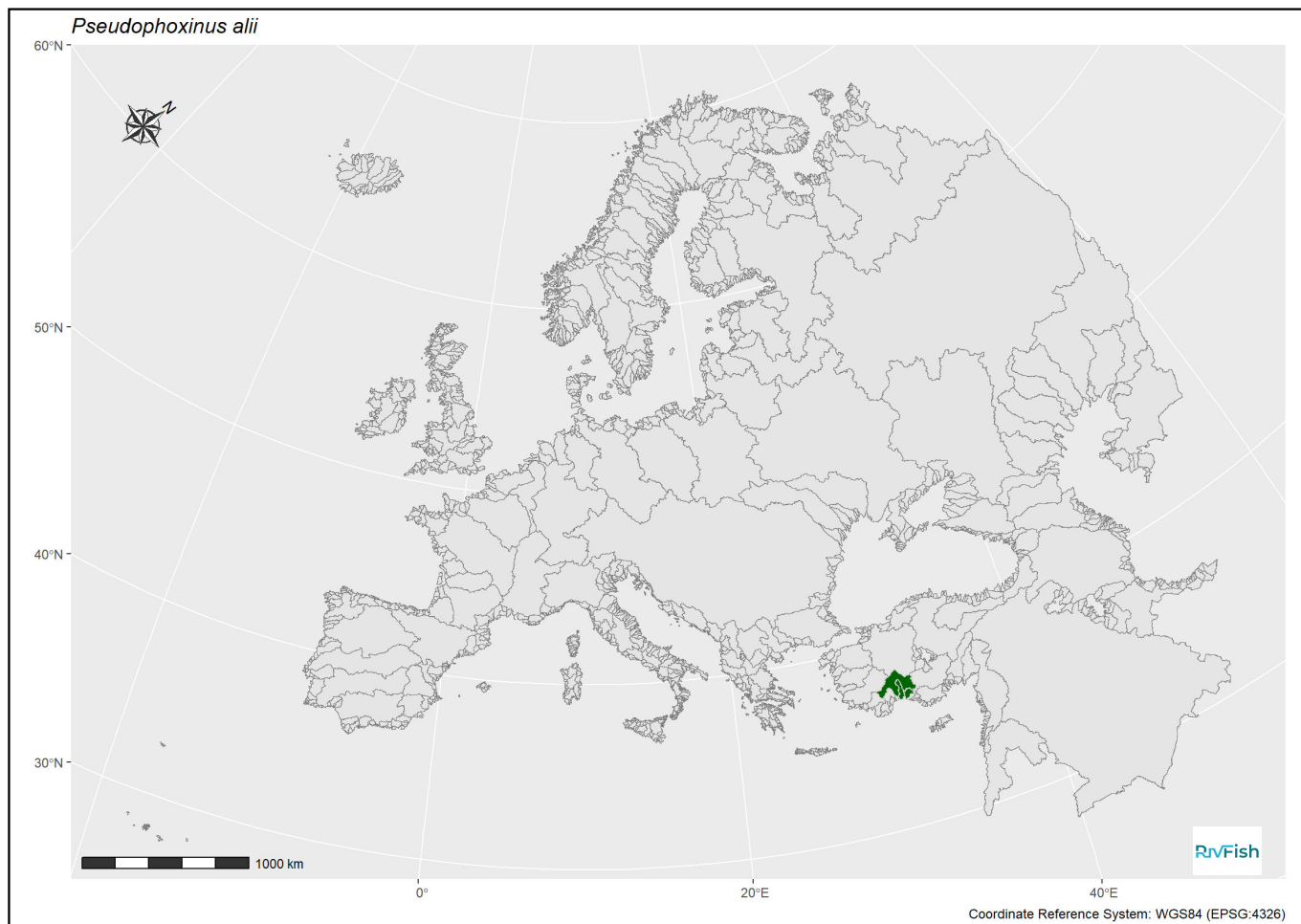


Pseudochondrostoma polylepis

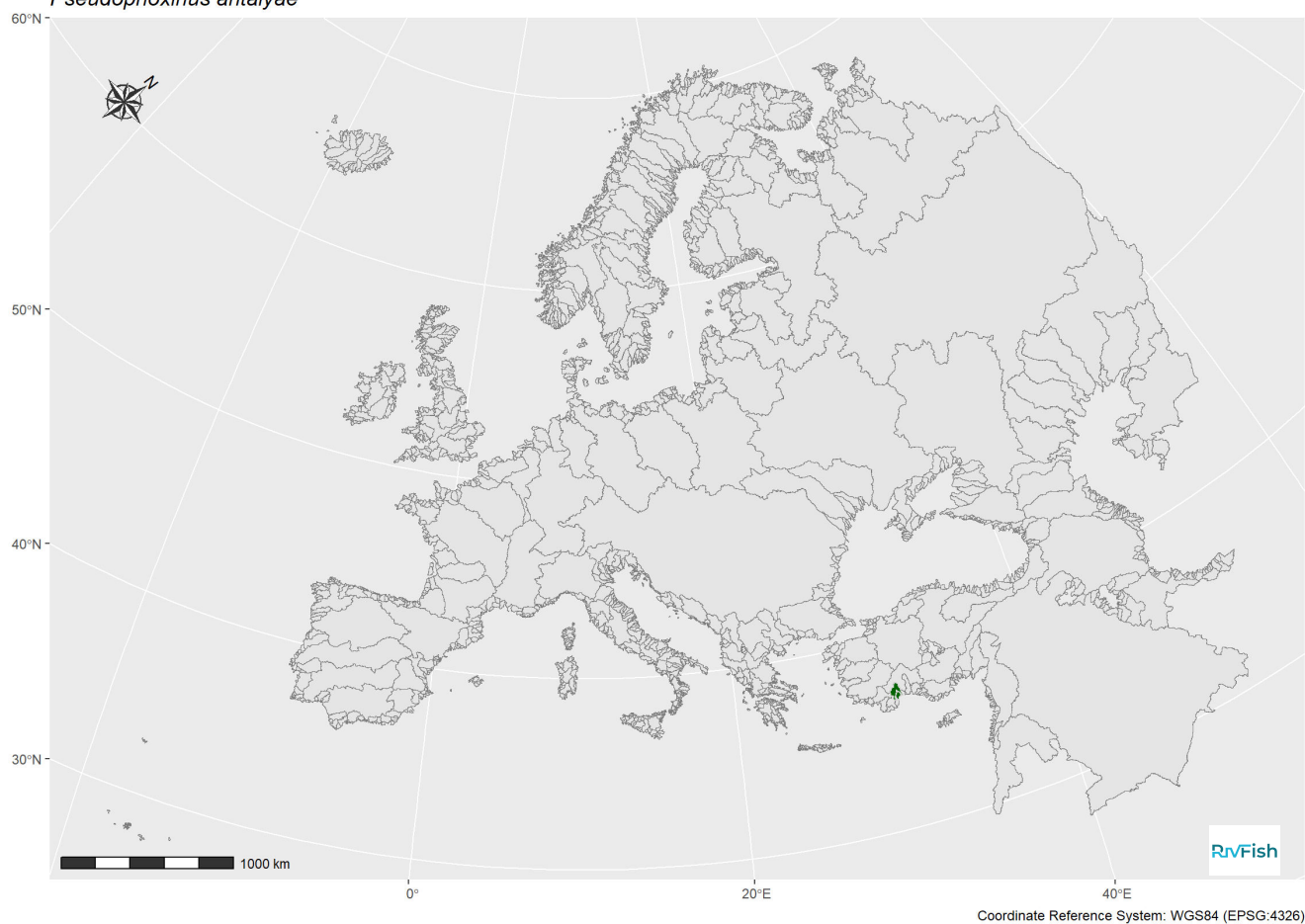


Pseudochondrostoma willkommii

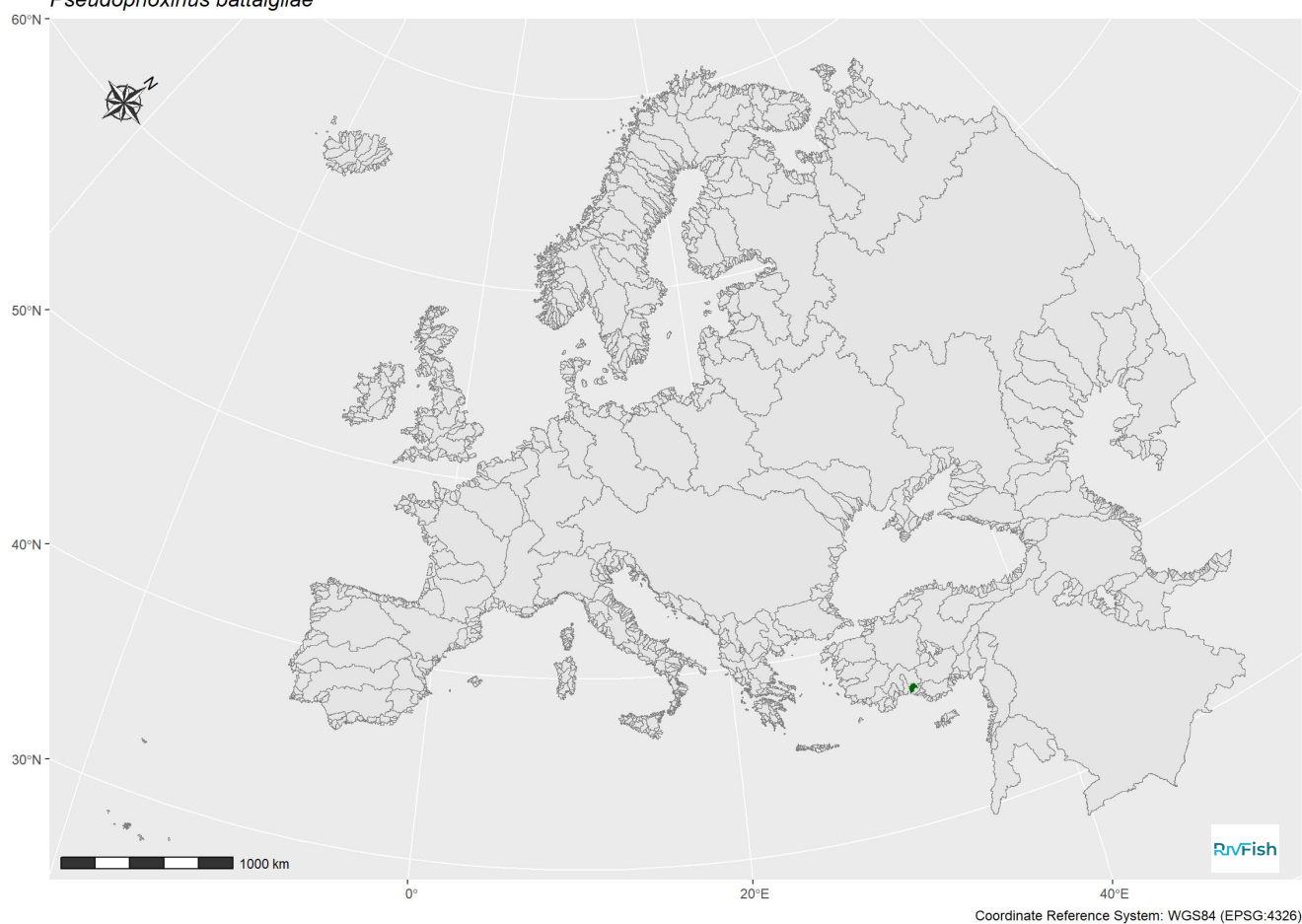




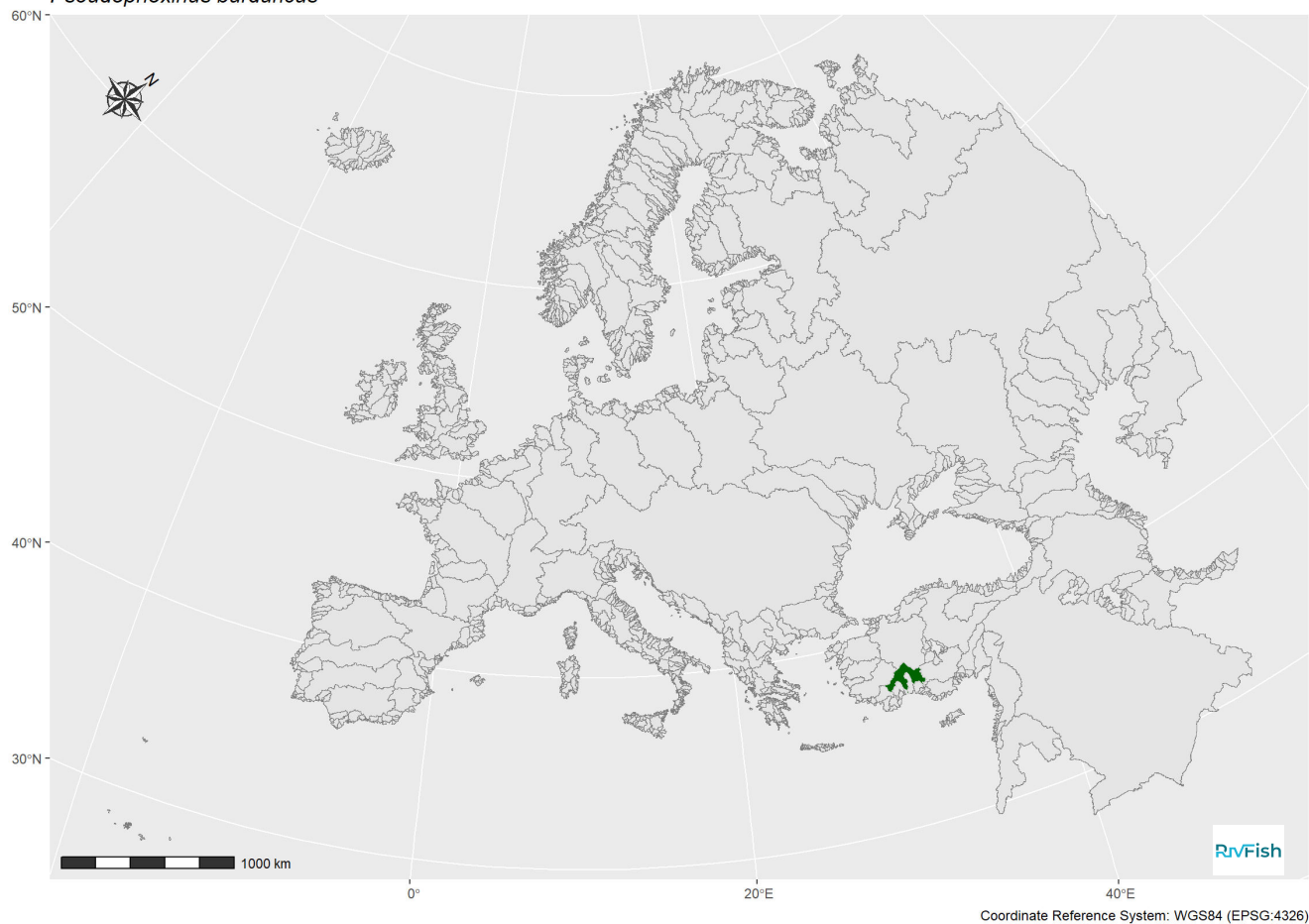
Pseudophoxinus antalyae



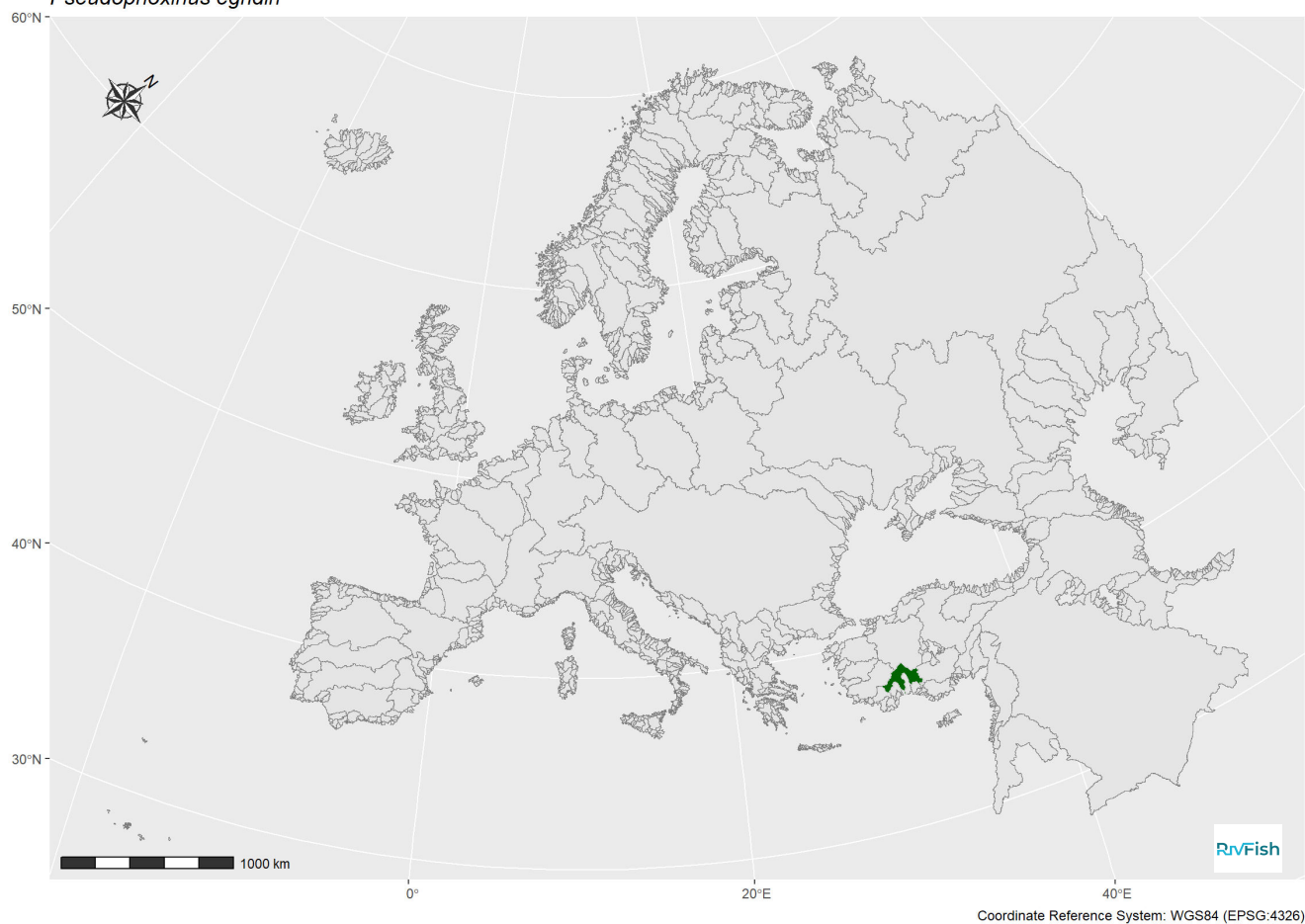
Pseudophoxinus battalgilae



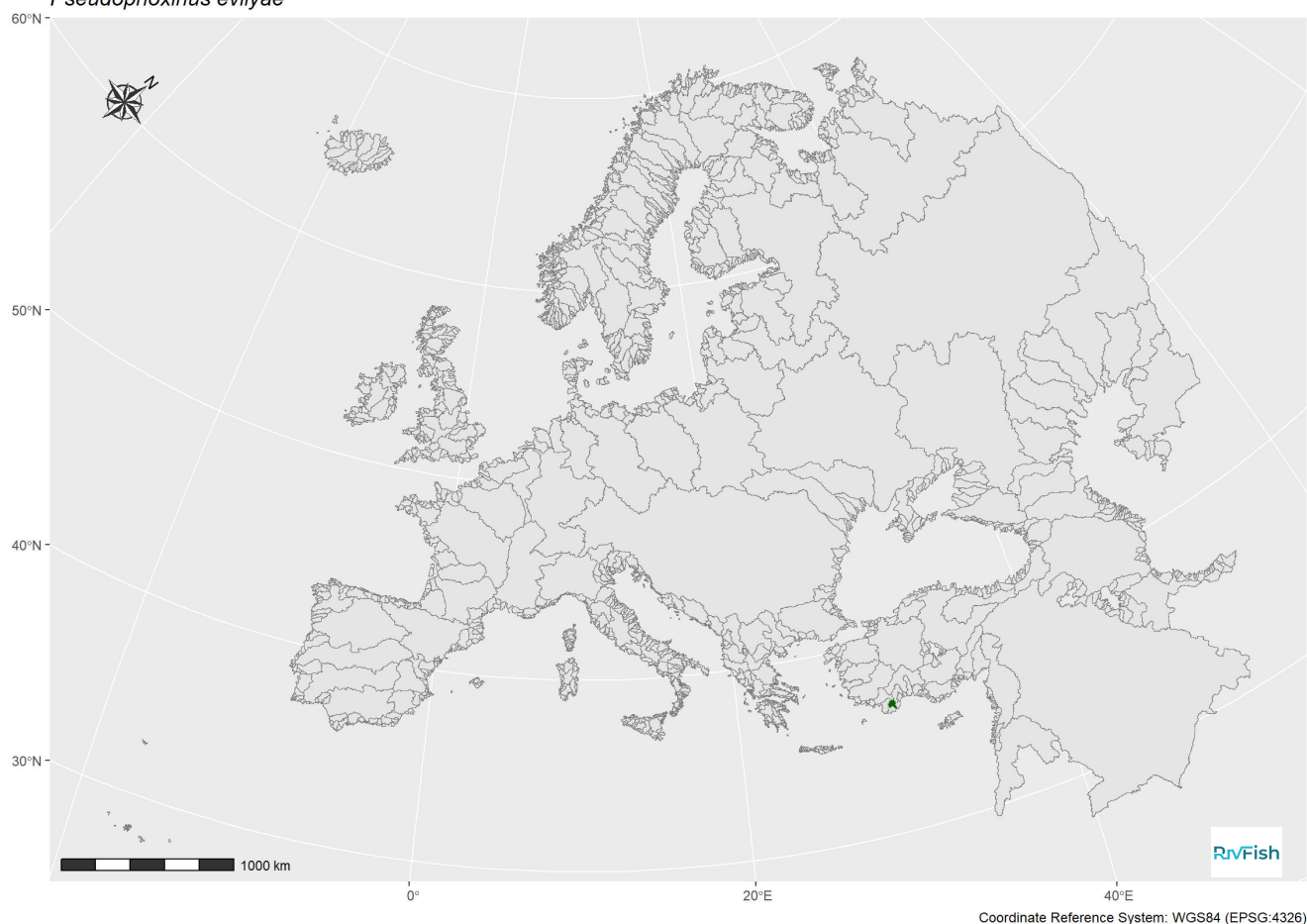
Pseudophoxinus burduricus



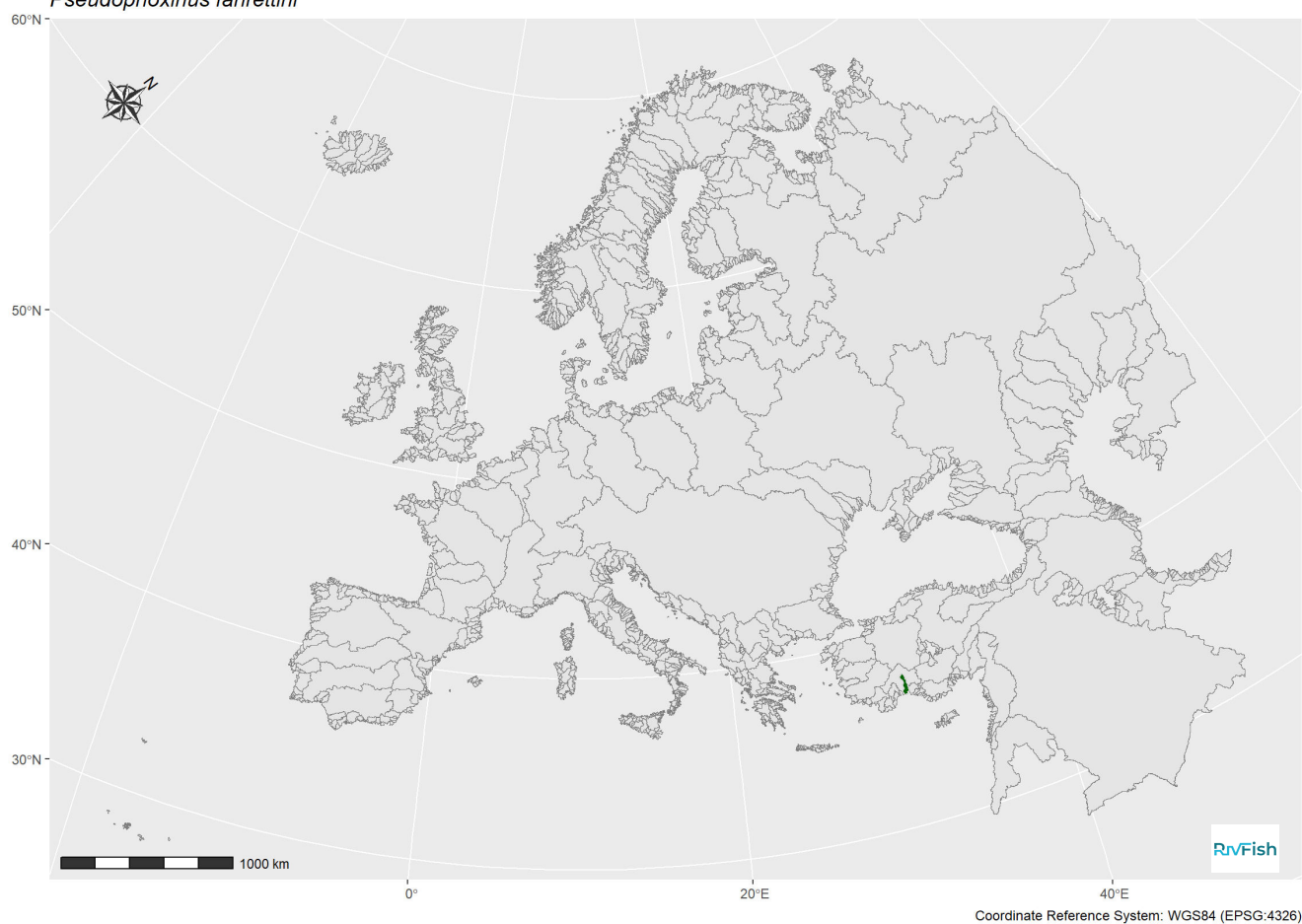
Pseudophoxinus egridiri



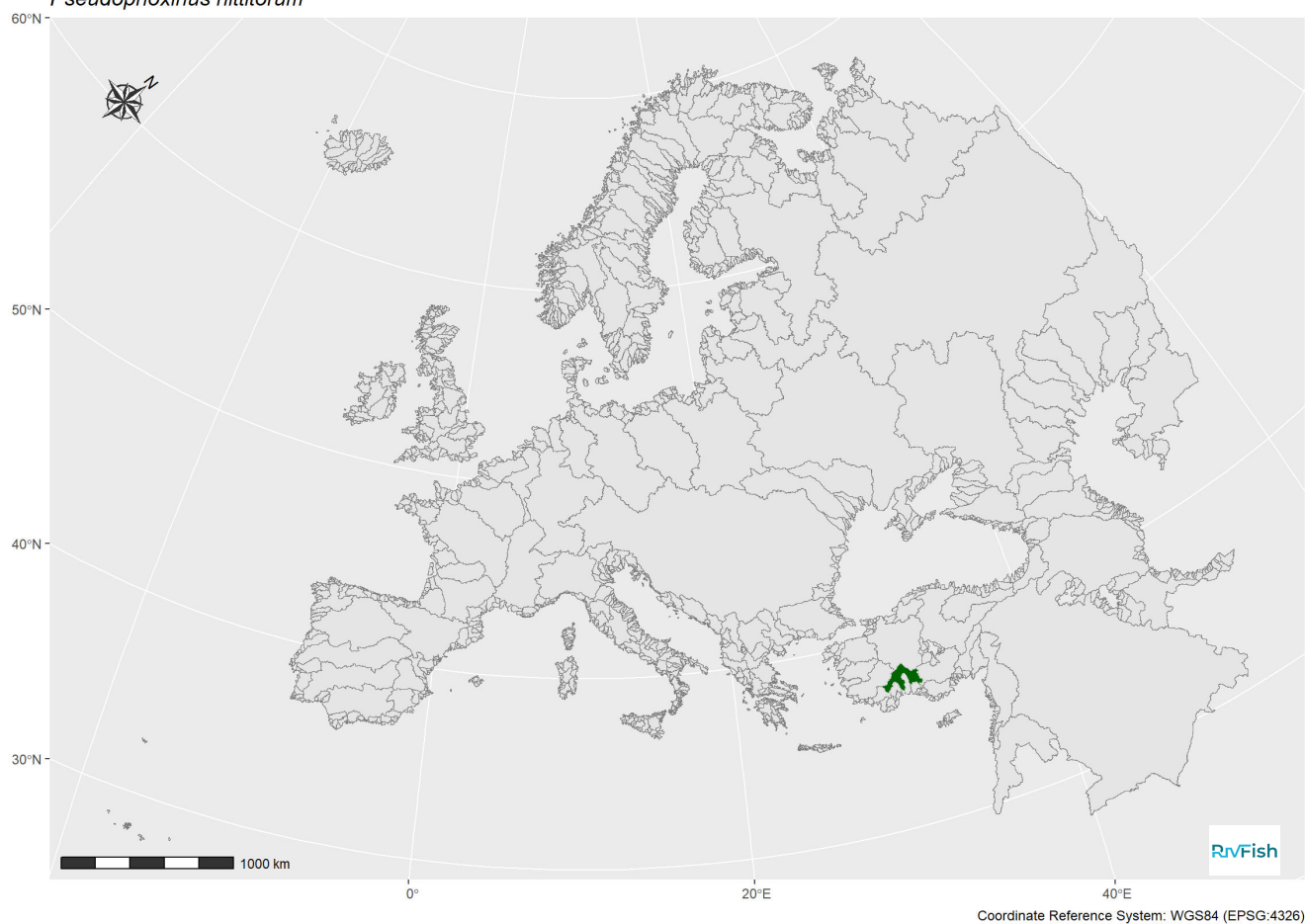
Pseudophoxinus evliyae



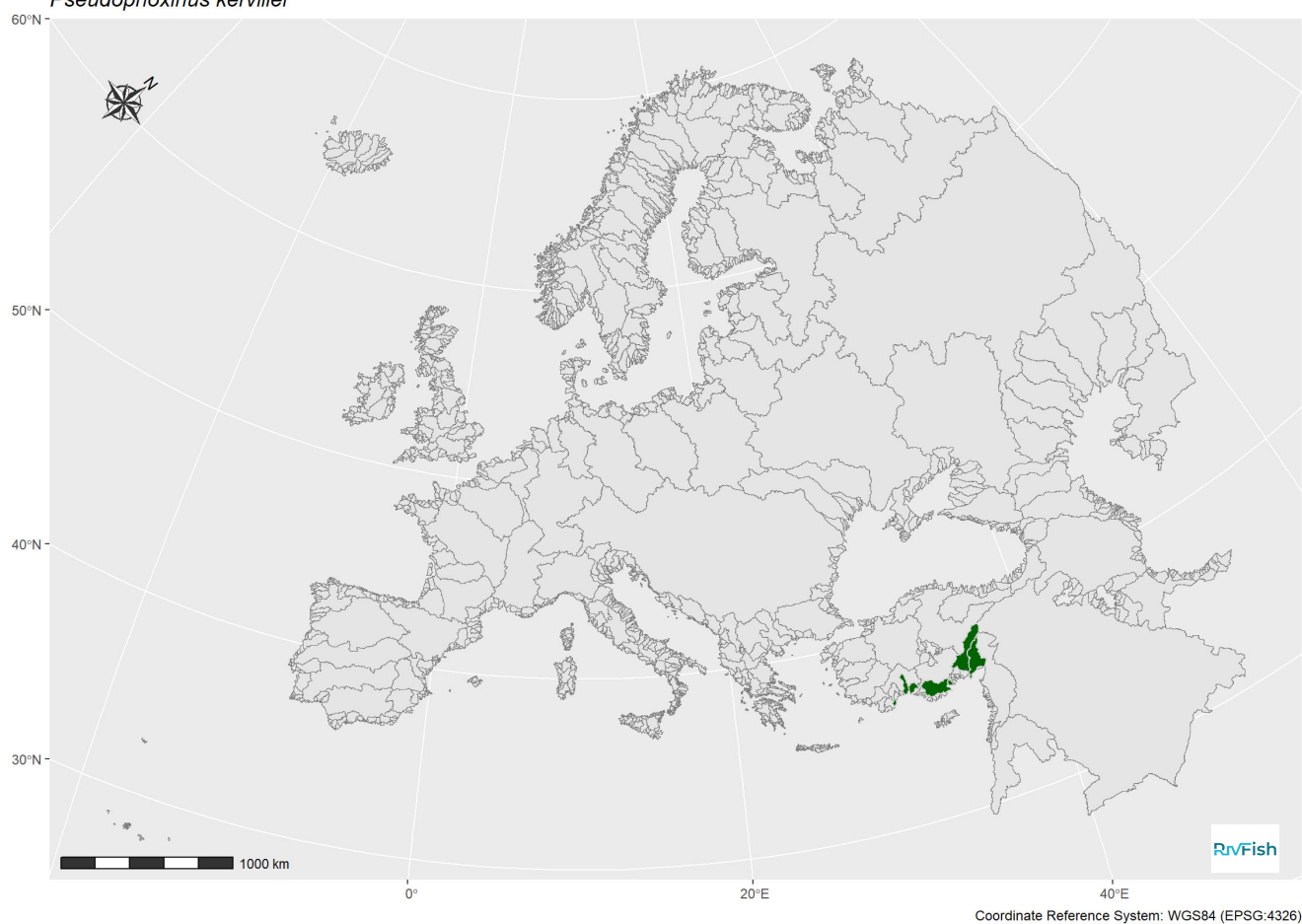
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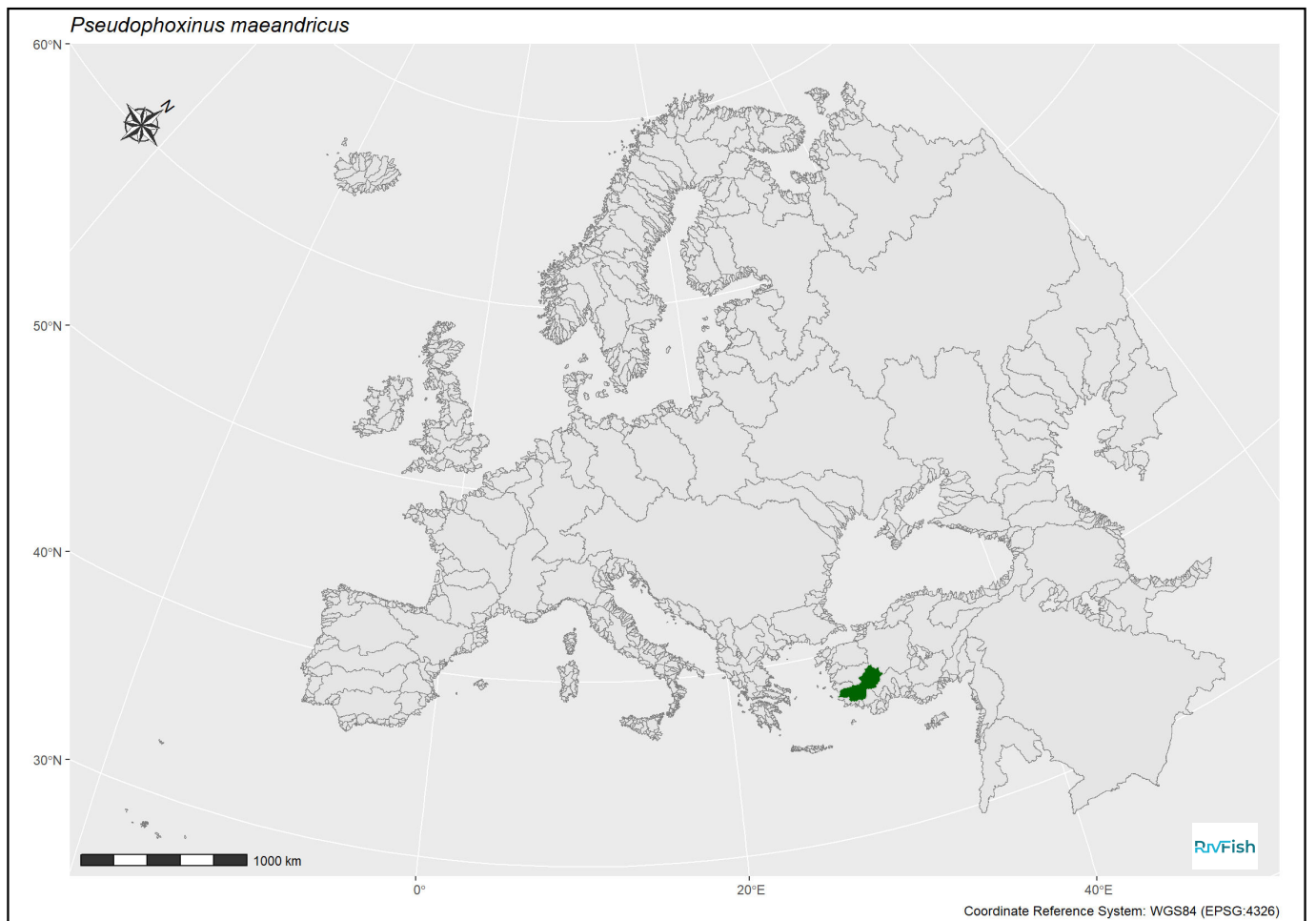
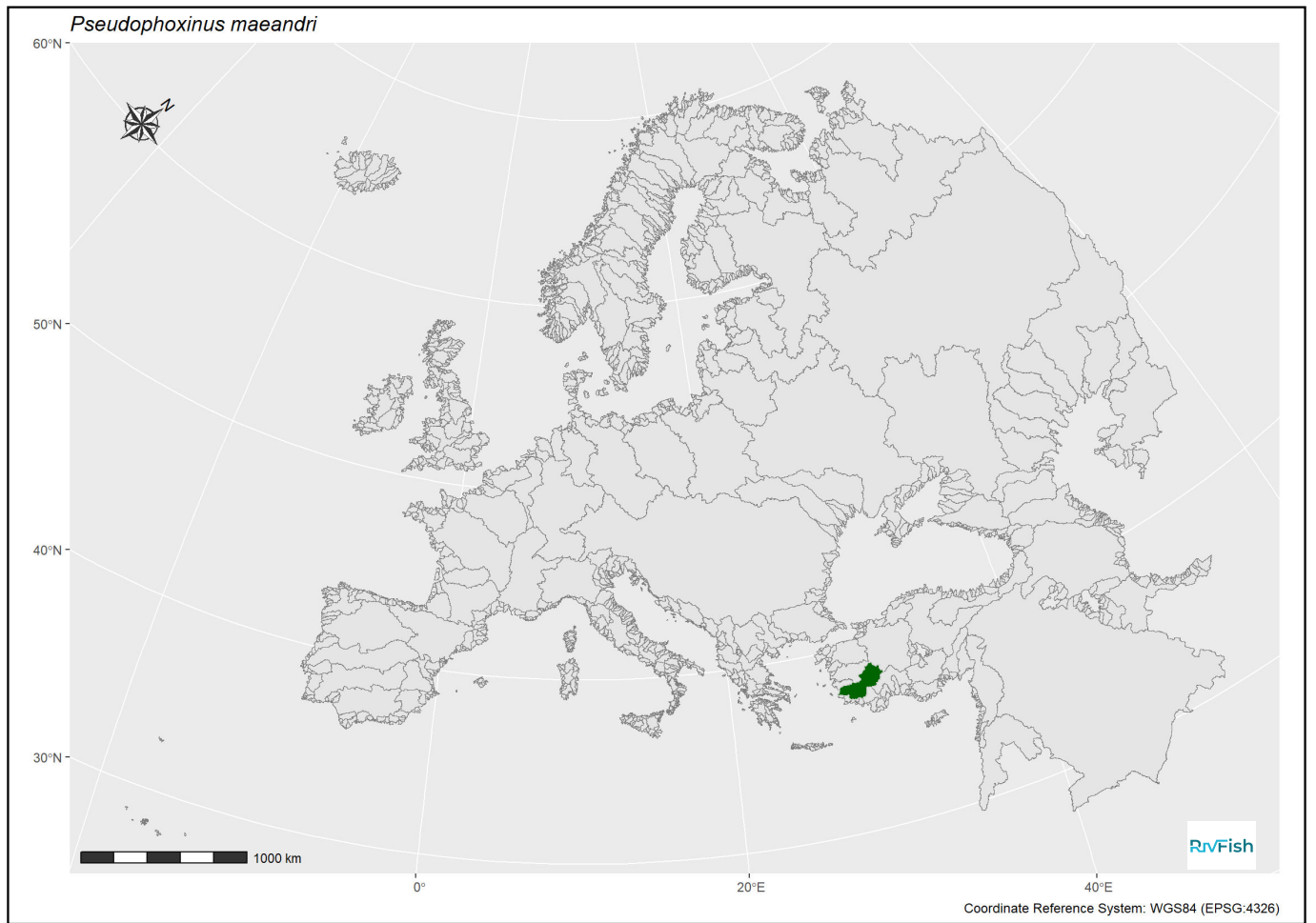


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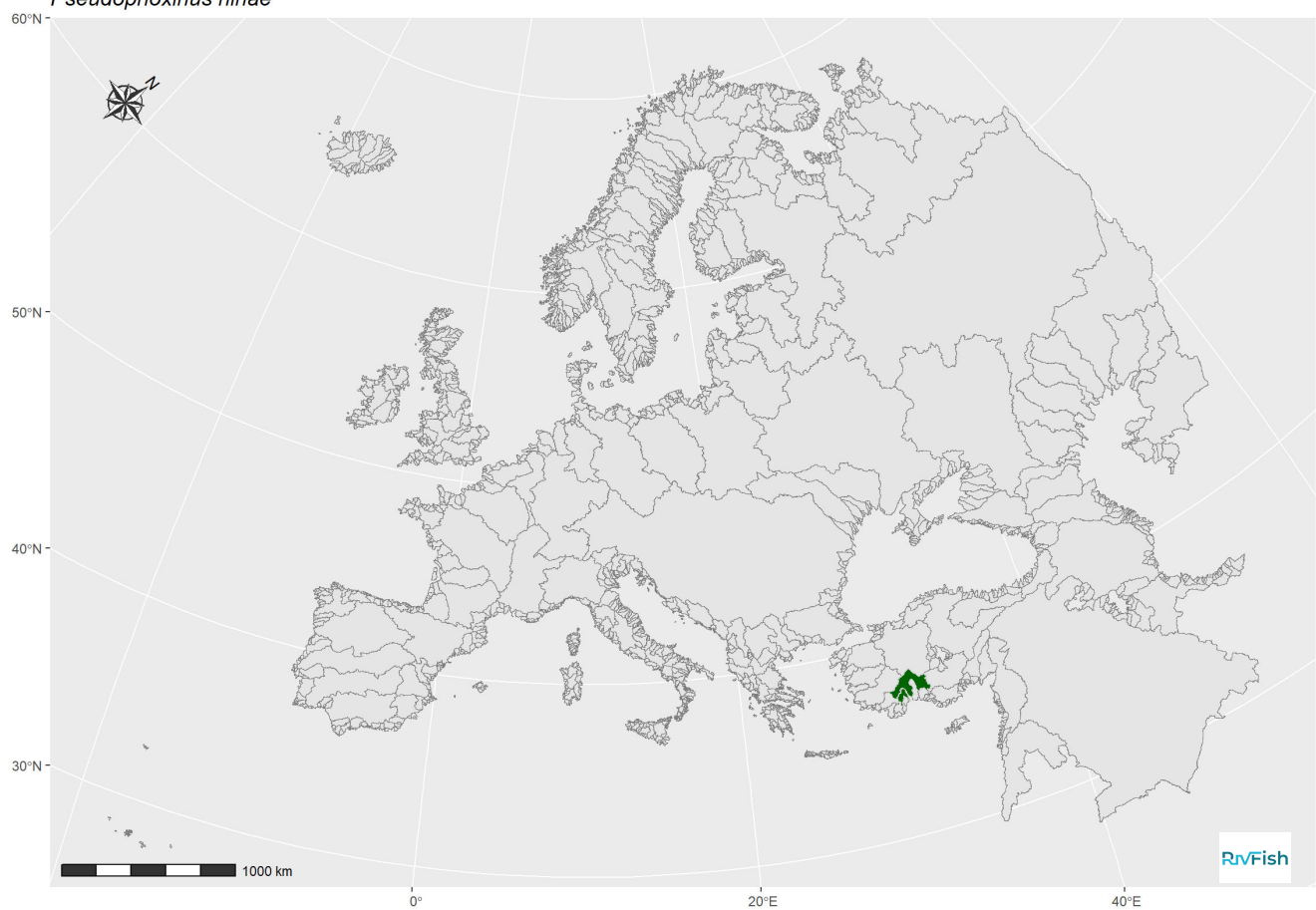


Pseudophoxinus kervillei





Pseudophoxinus ninae

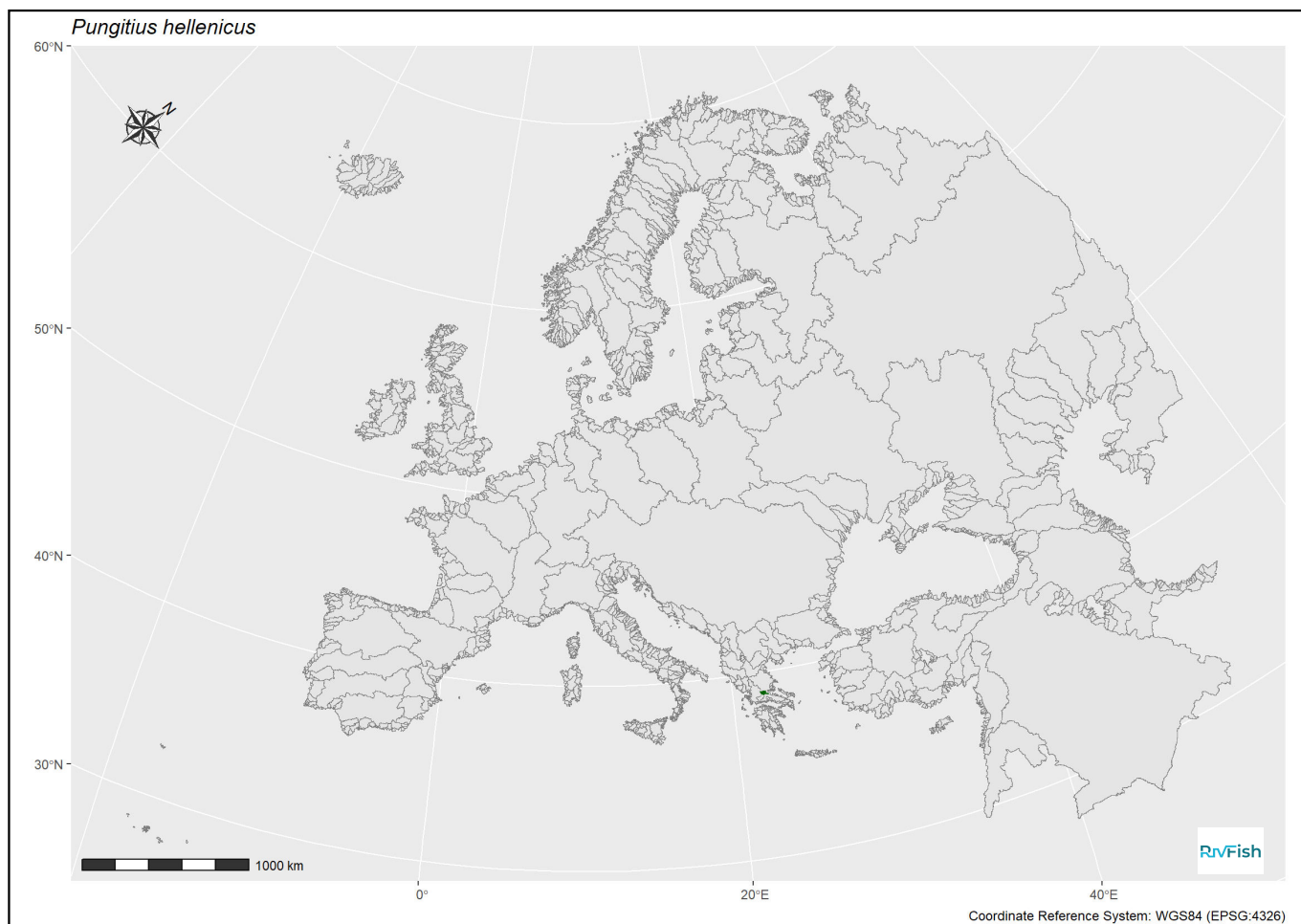
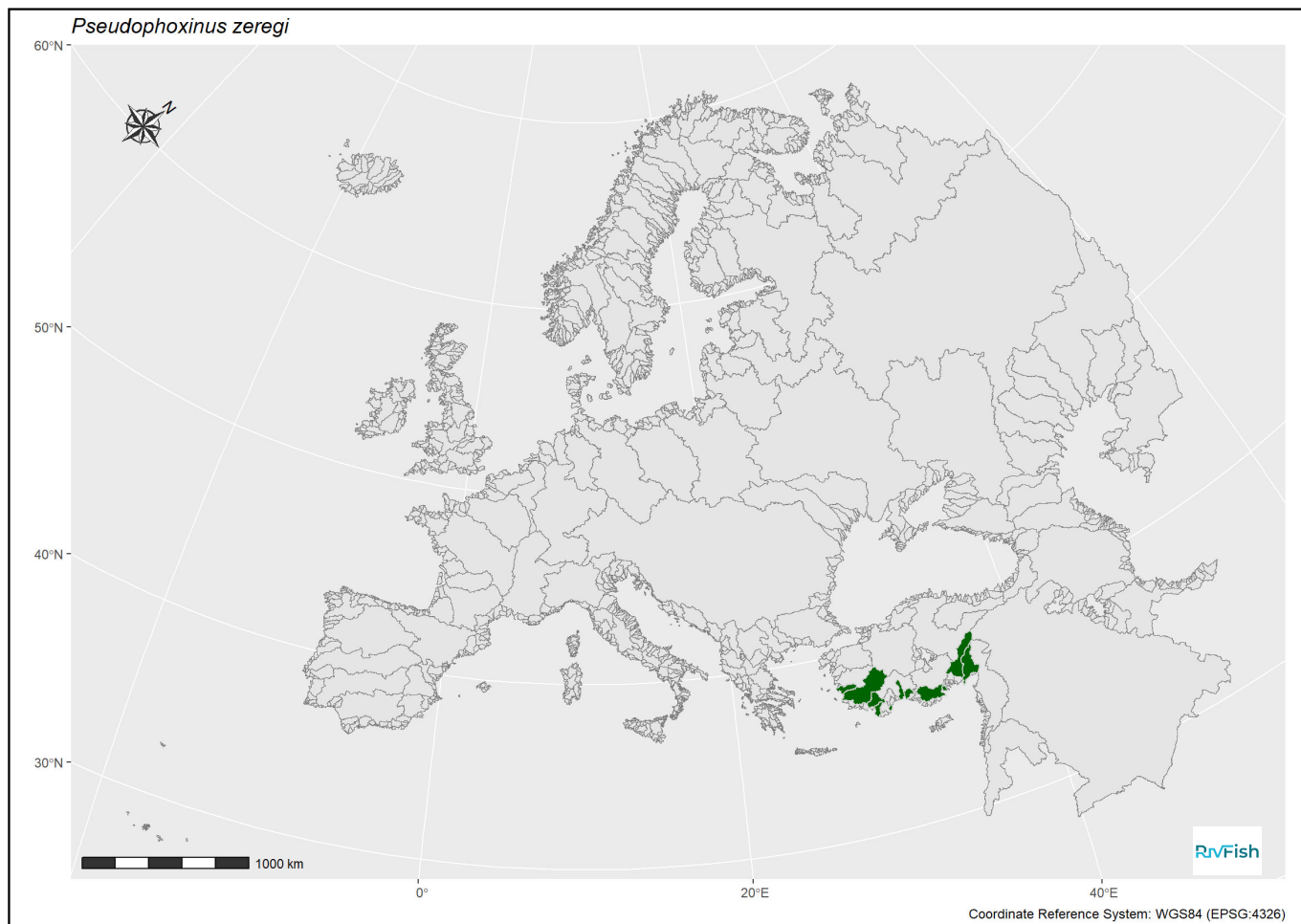


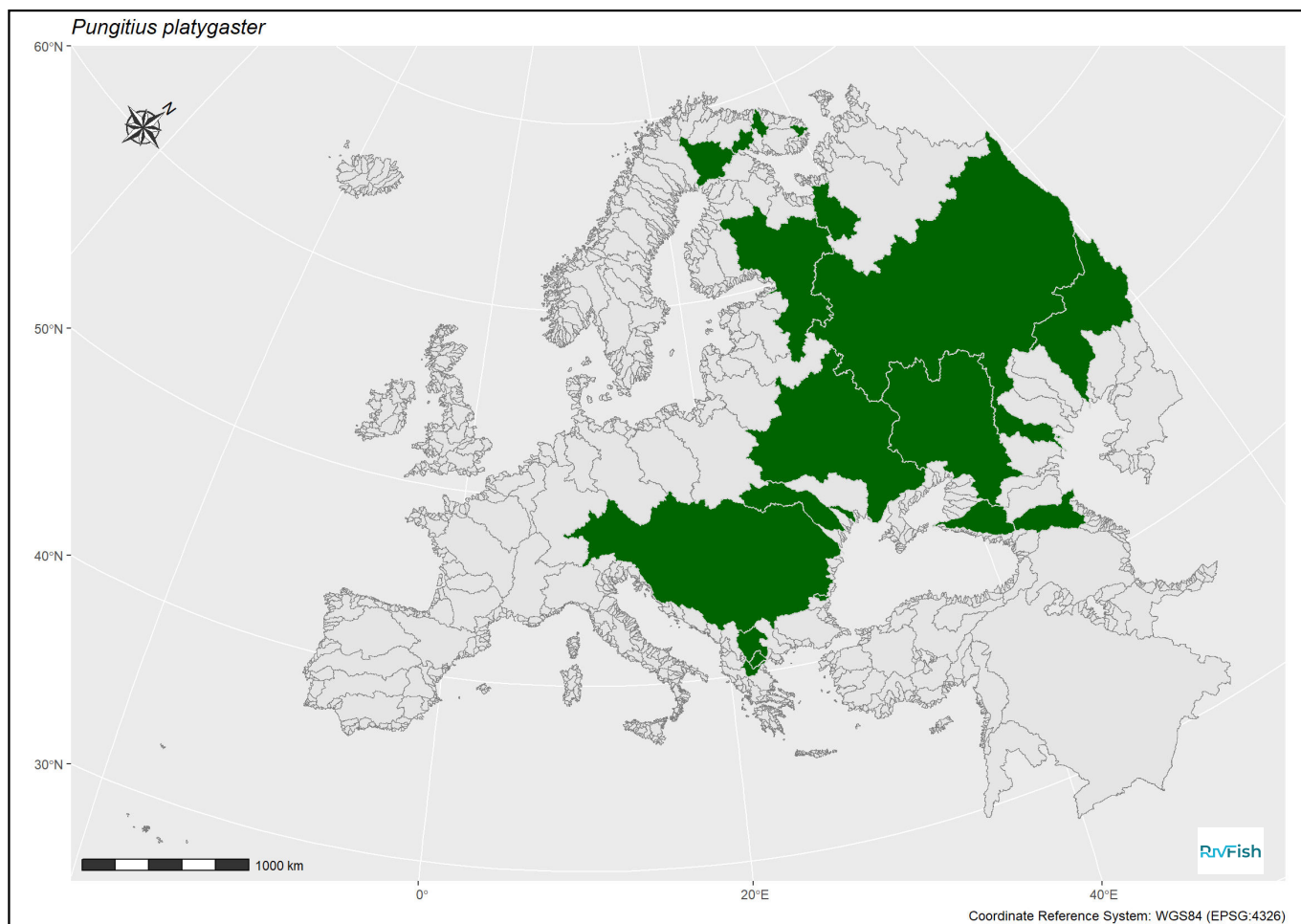
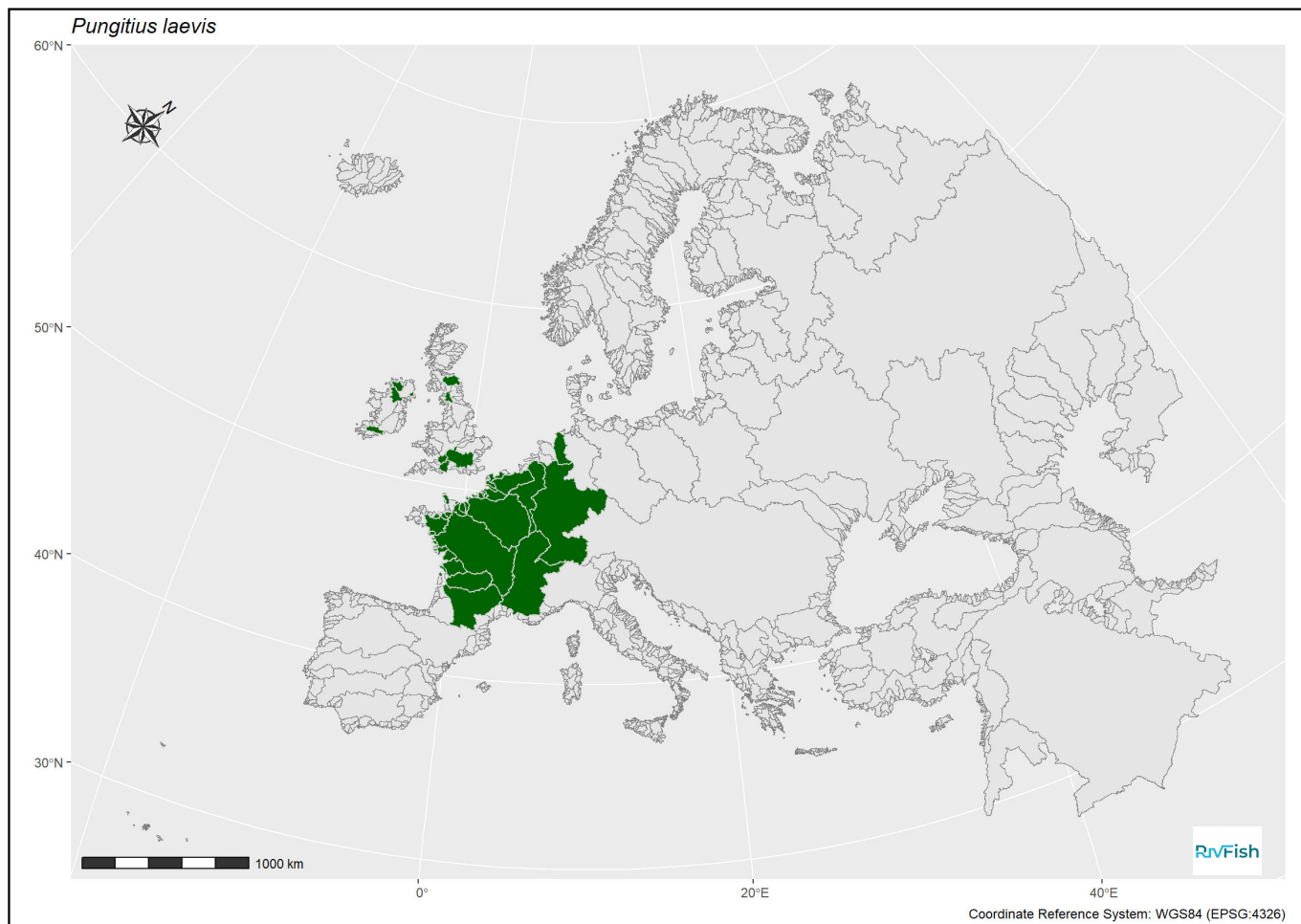
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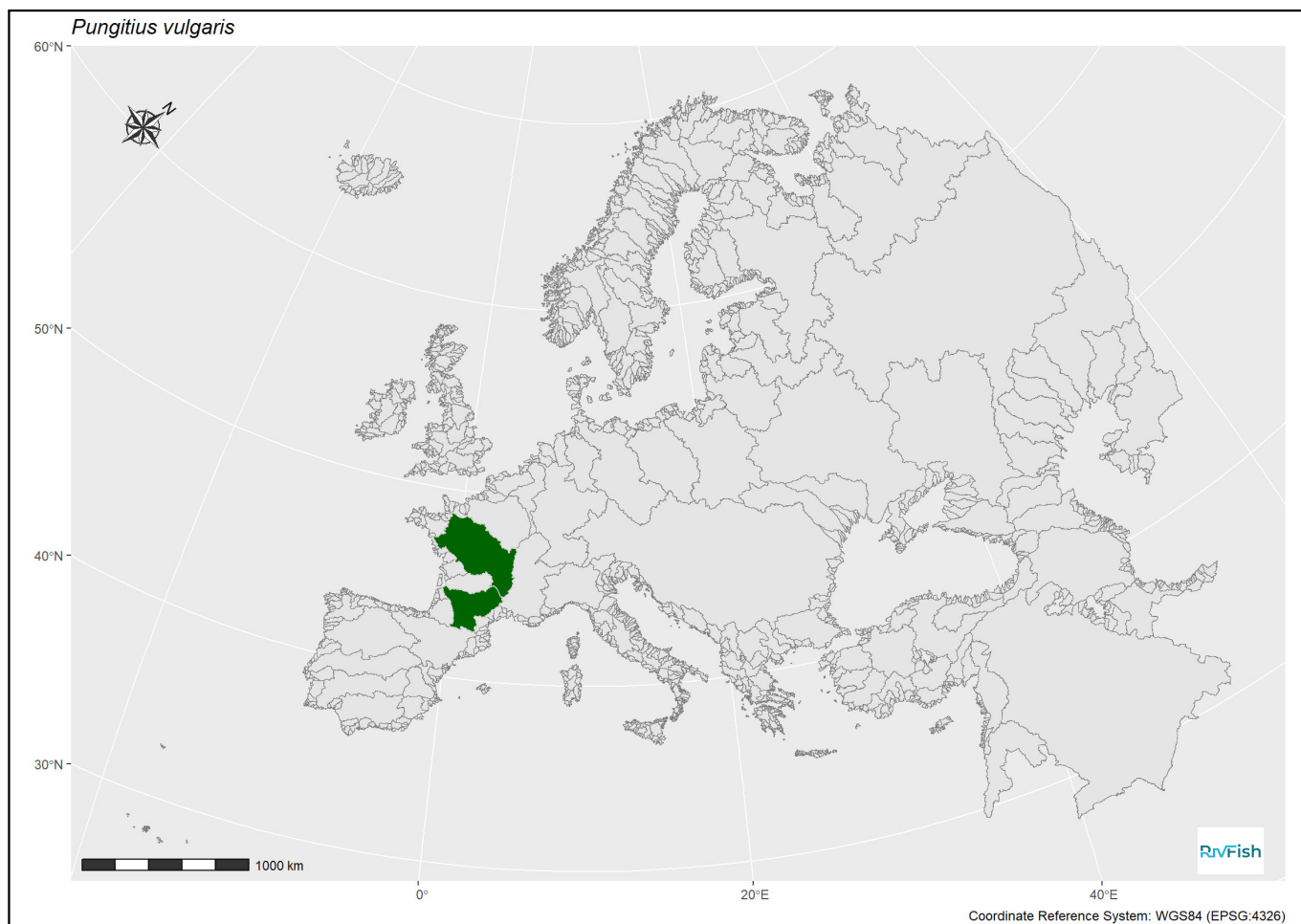
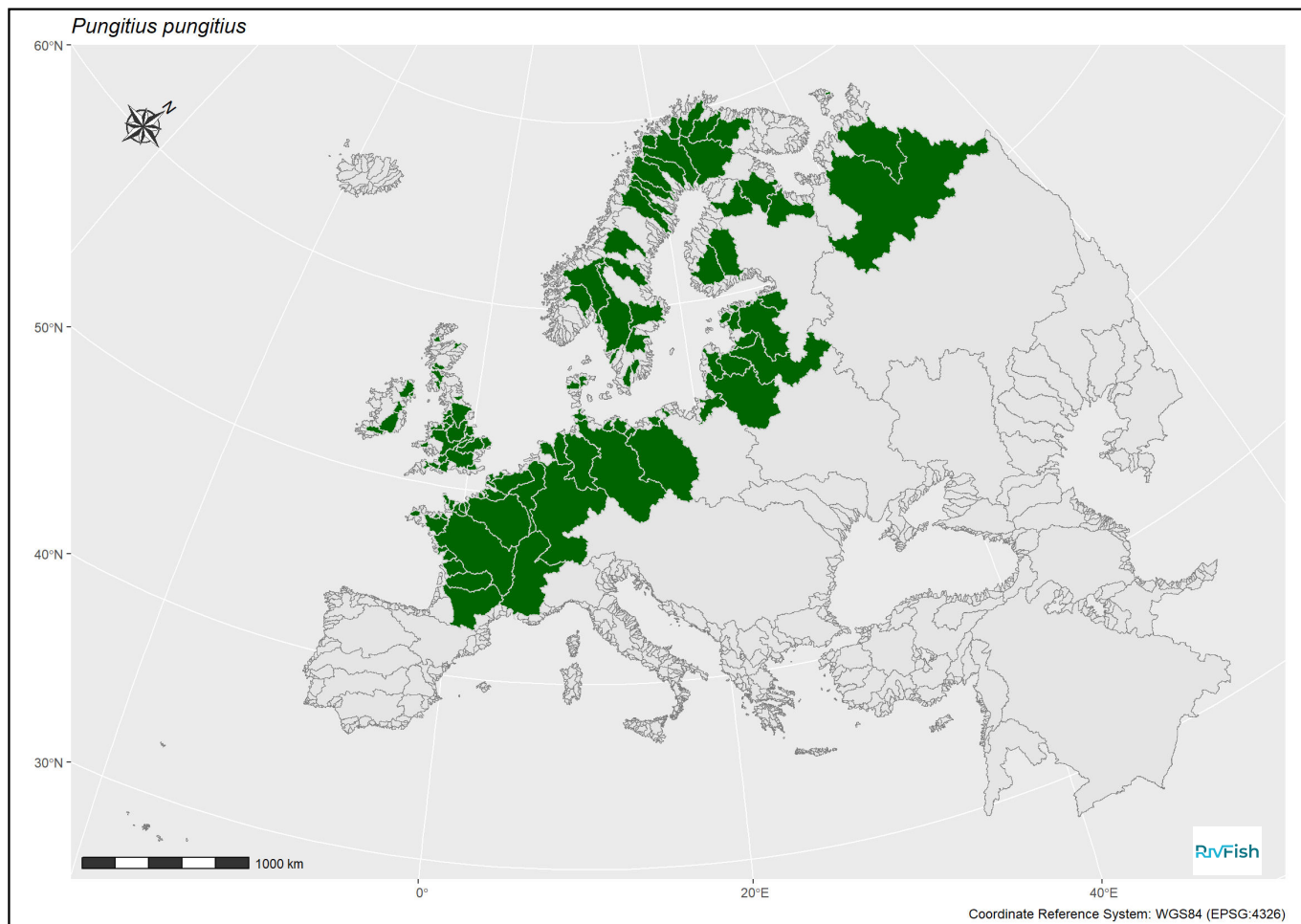
Pseudophoxinus zekayi

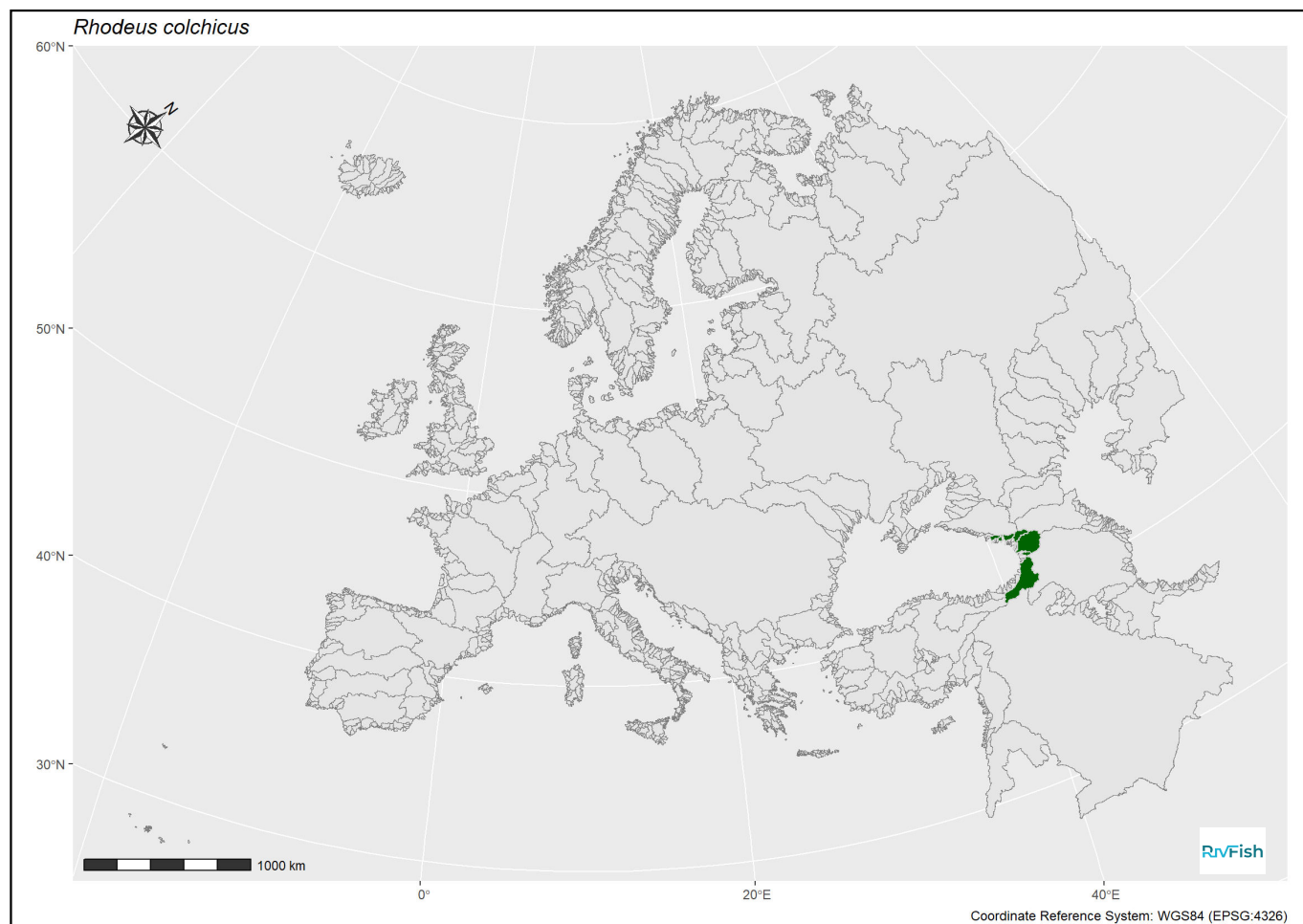
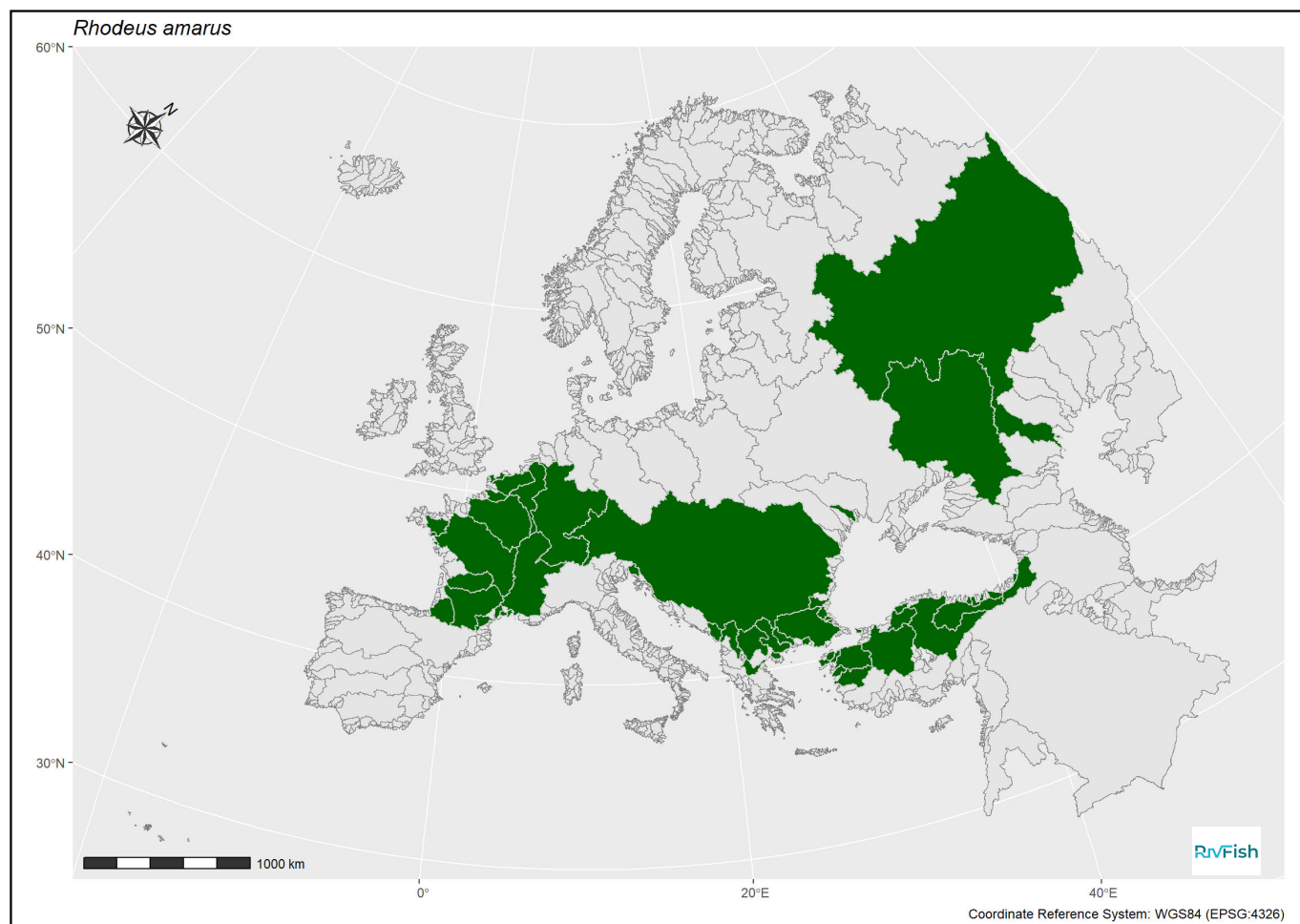


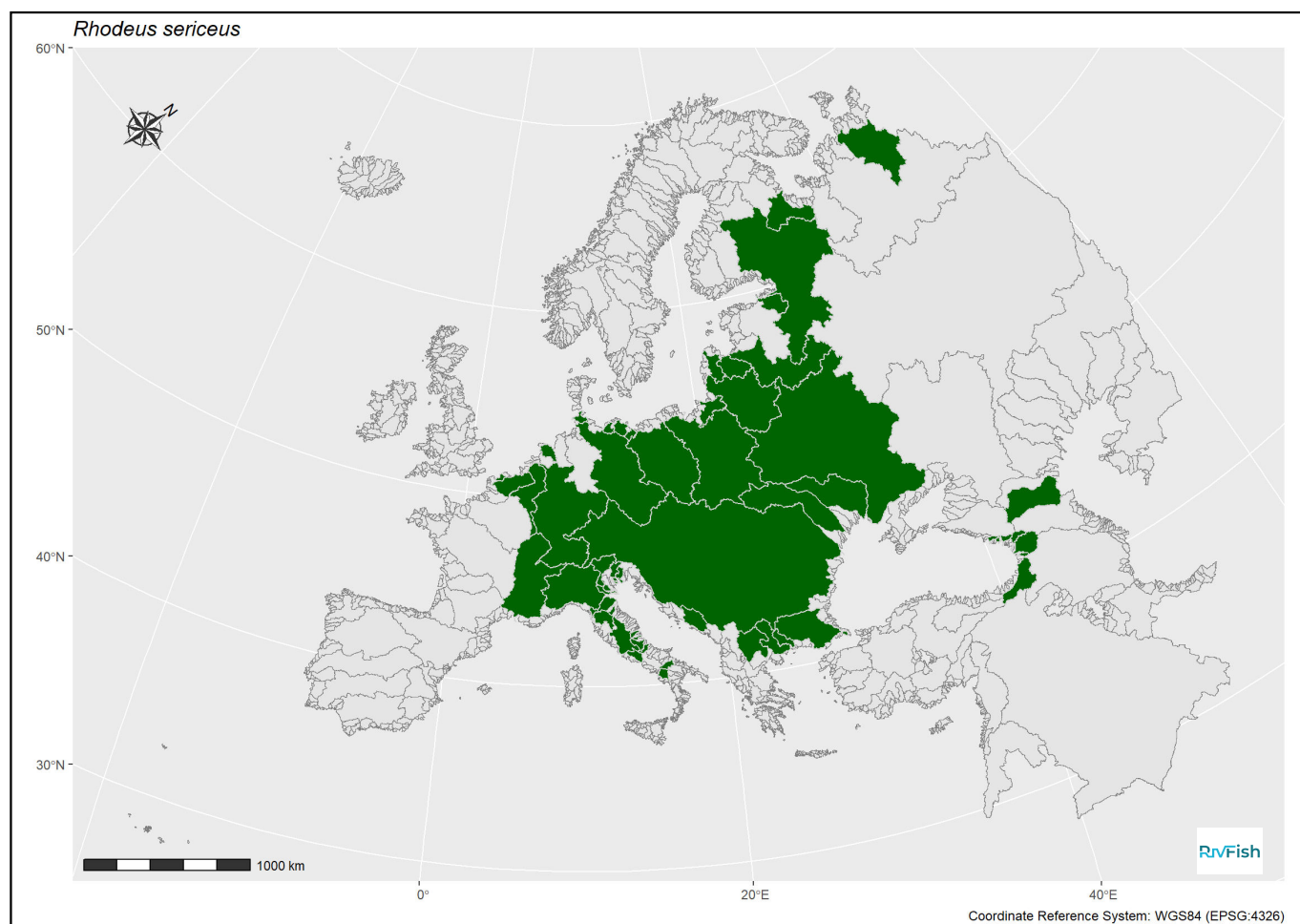
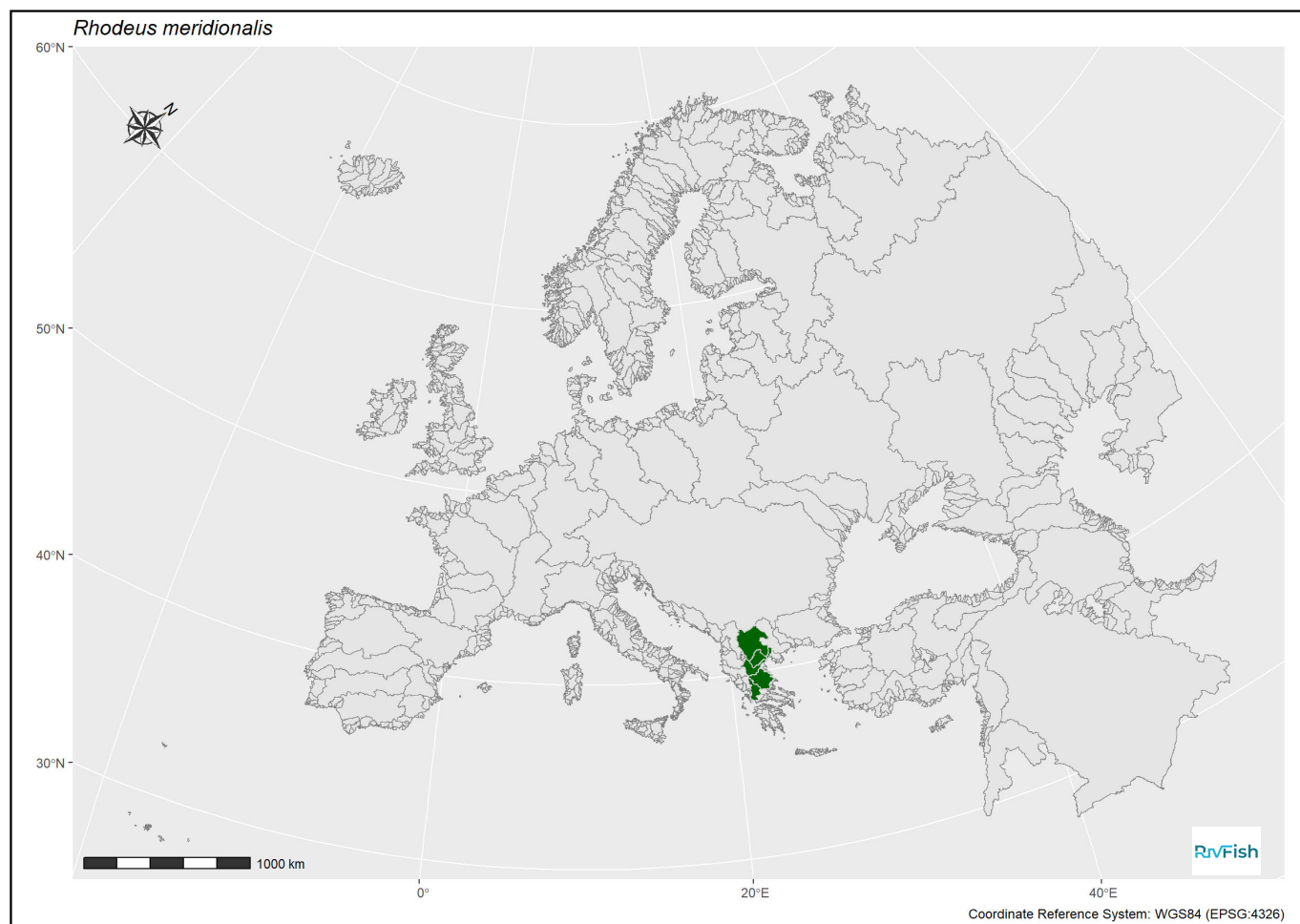
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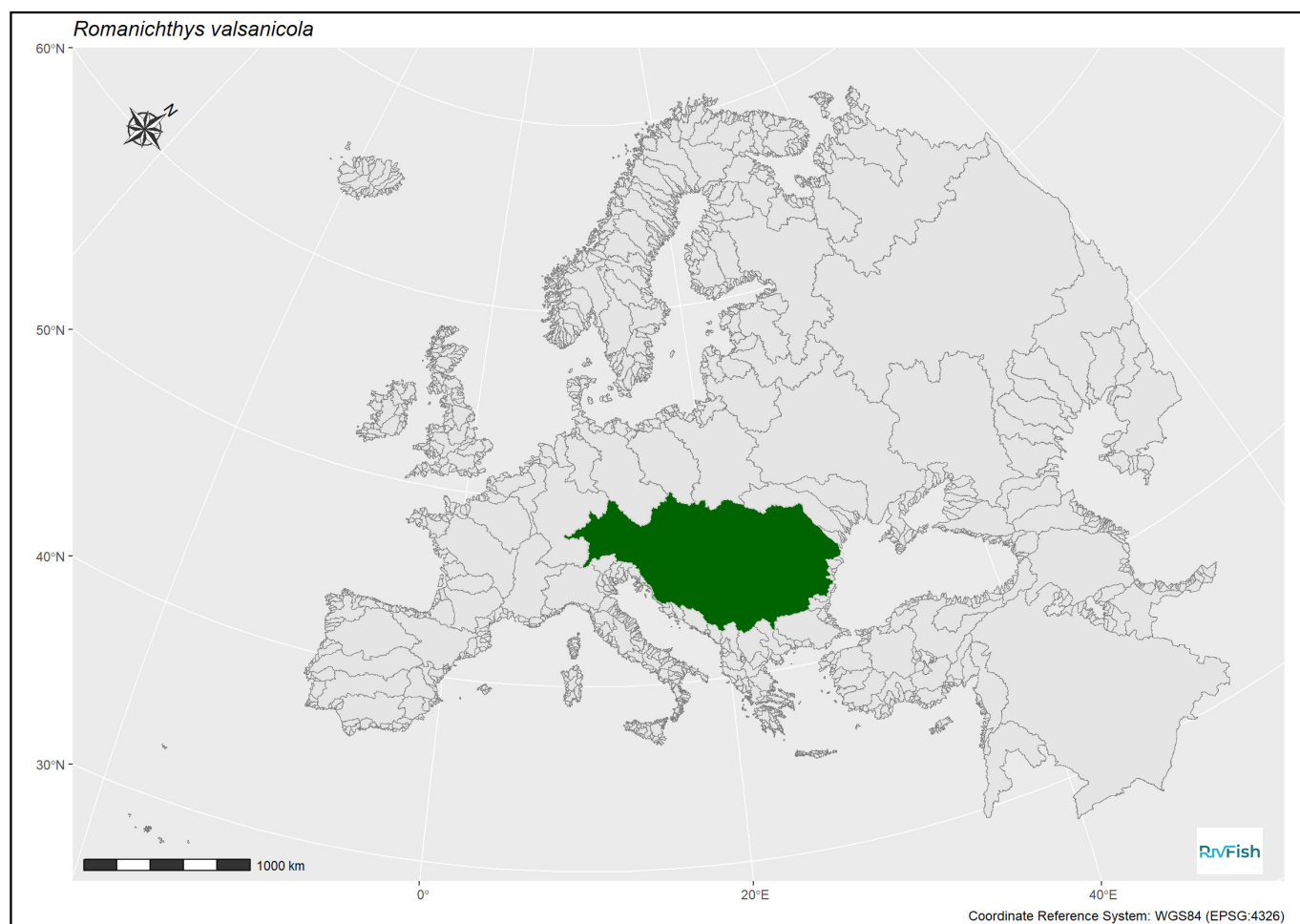
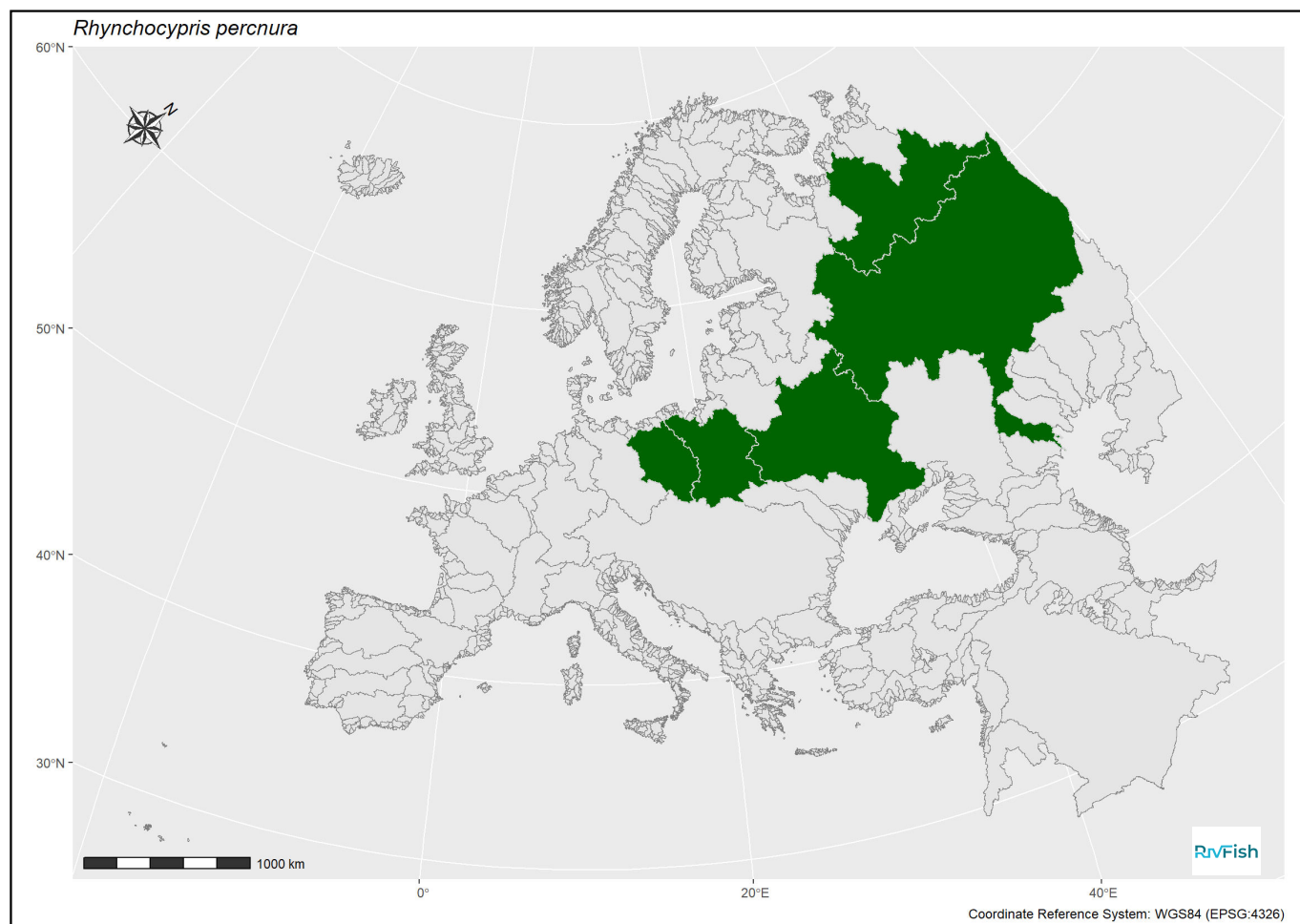


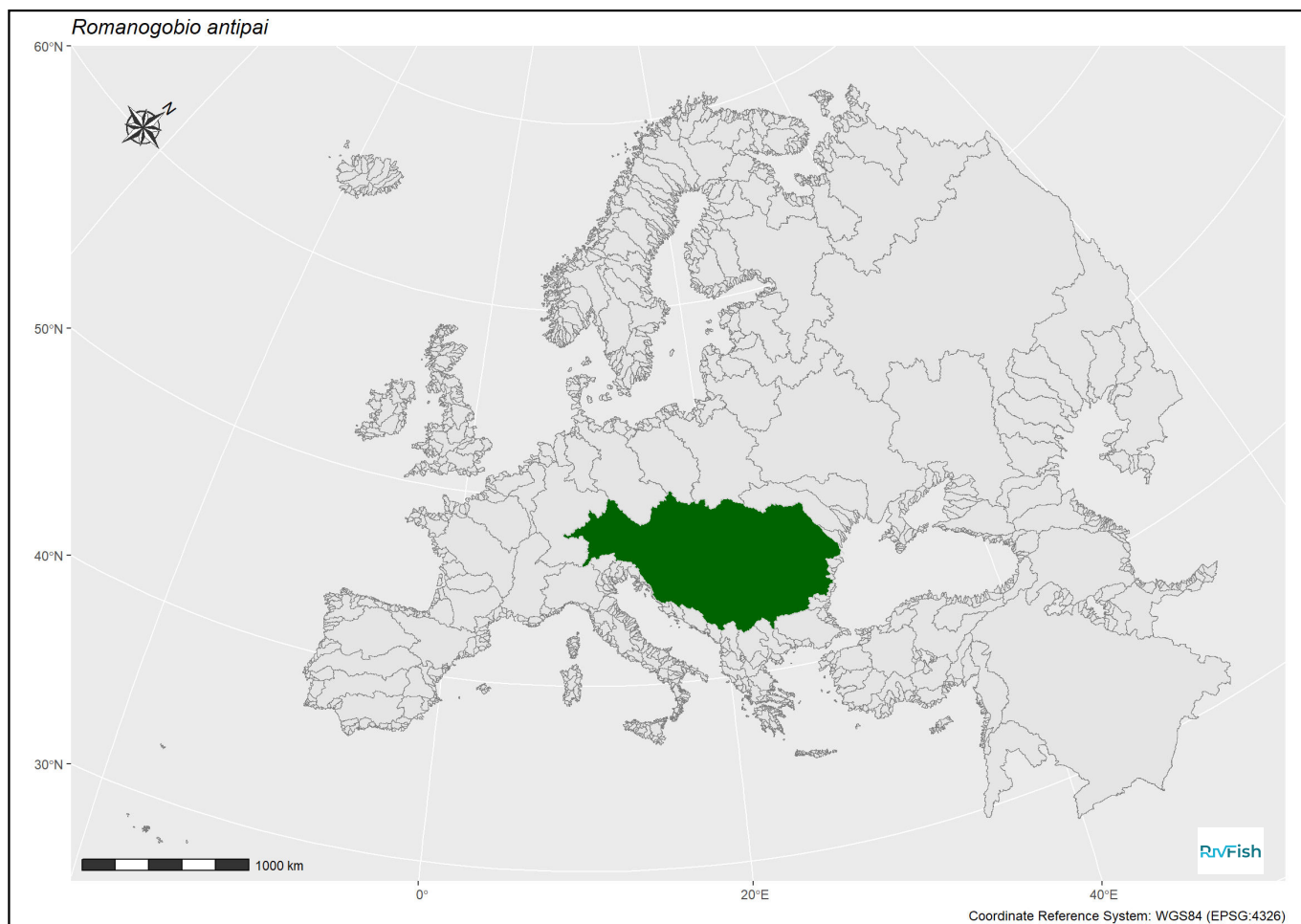
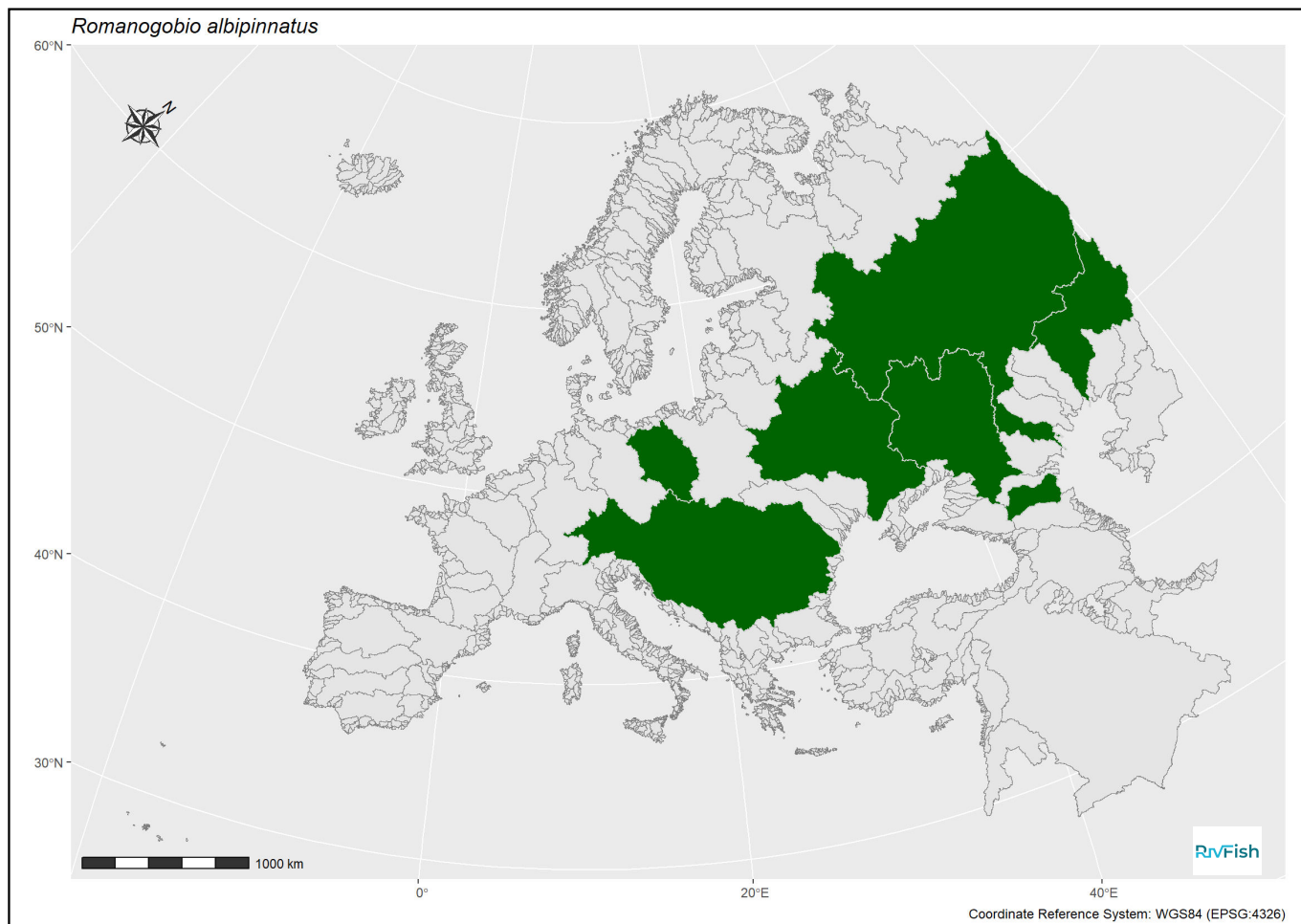


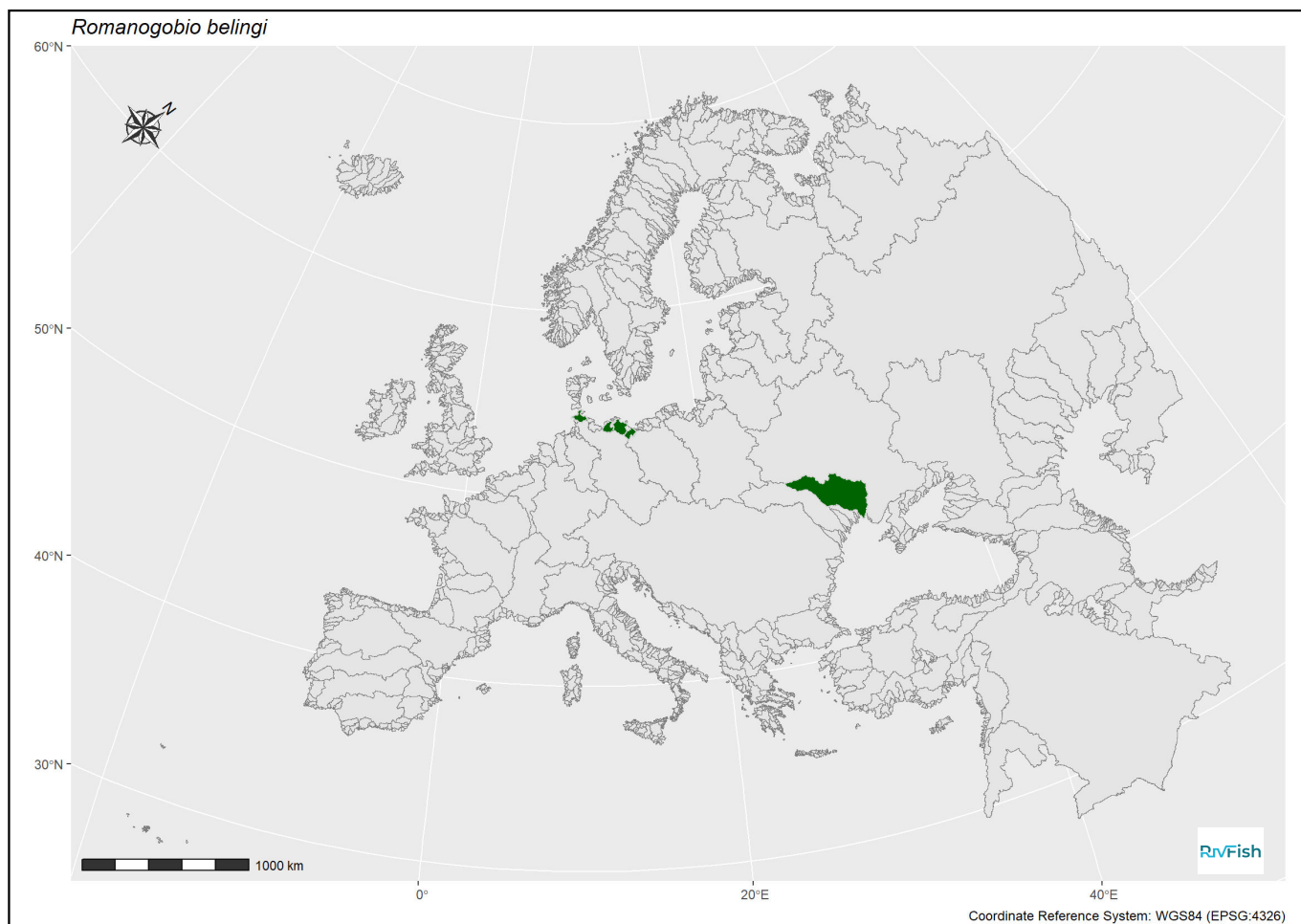
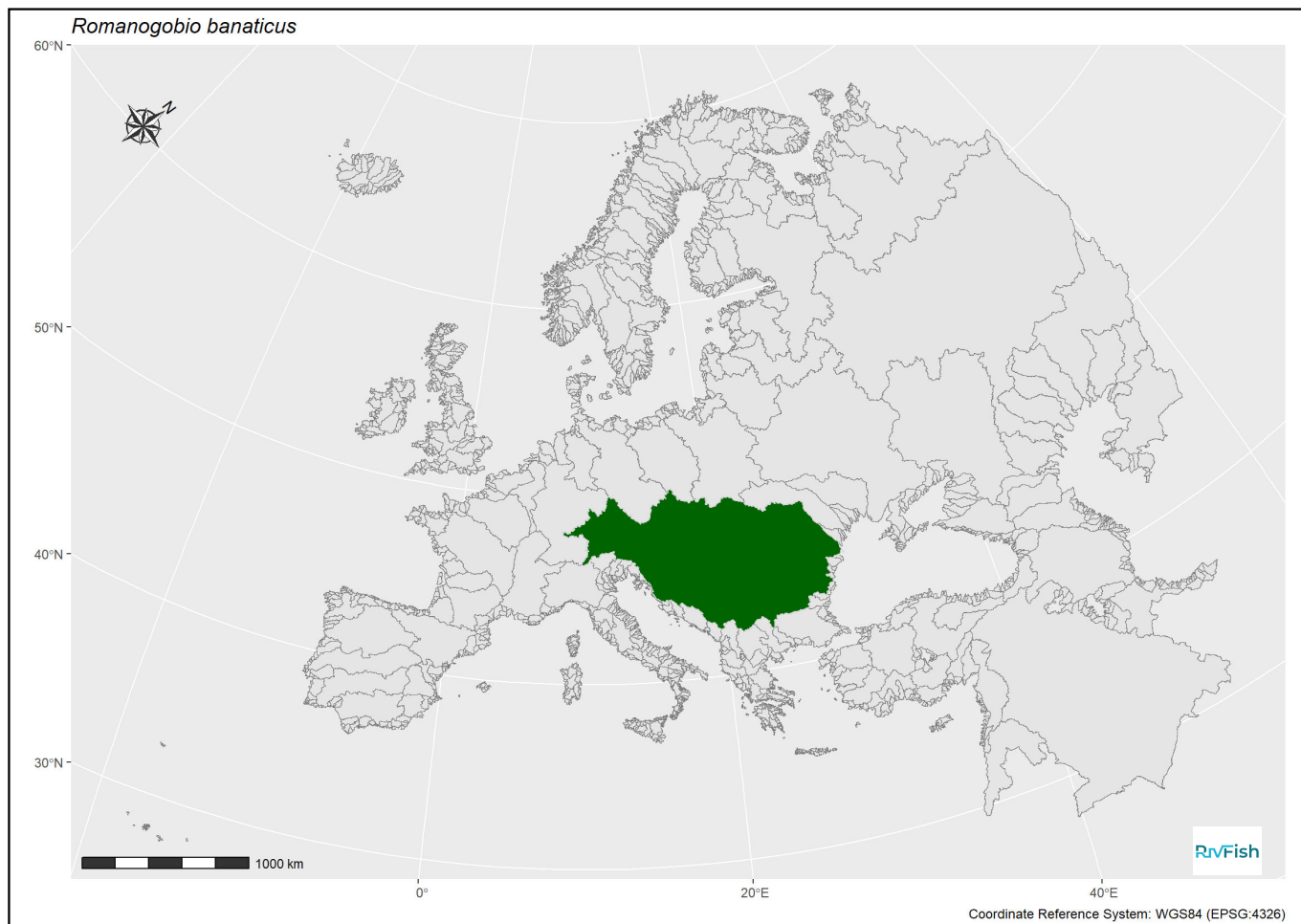




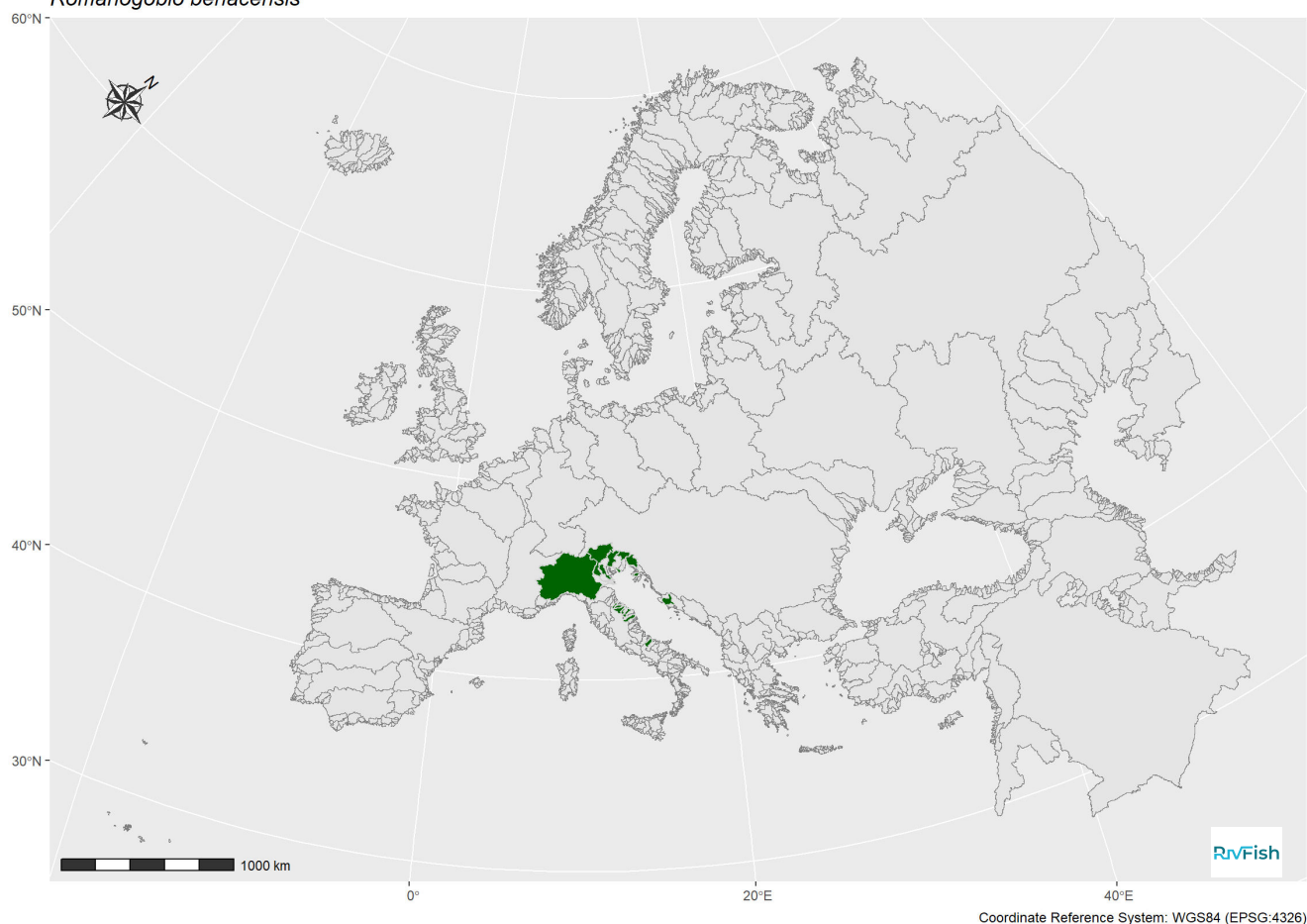




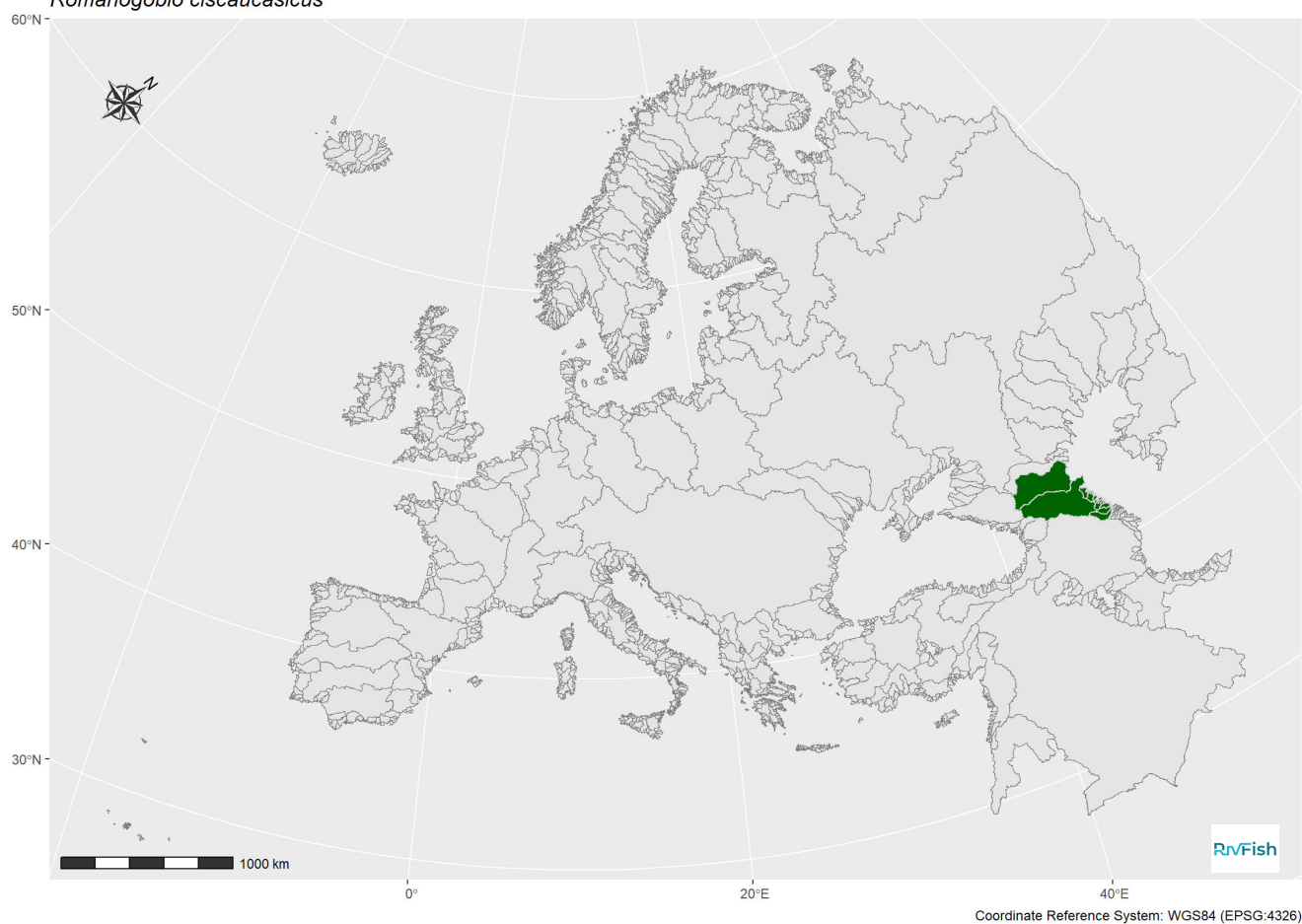




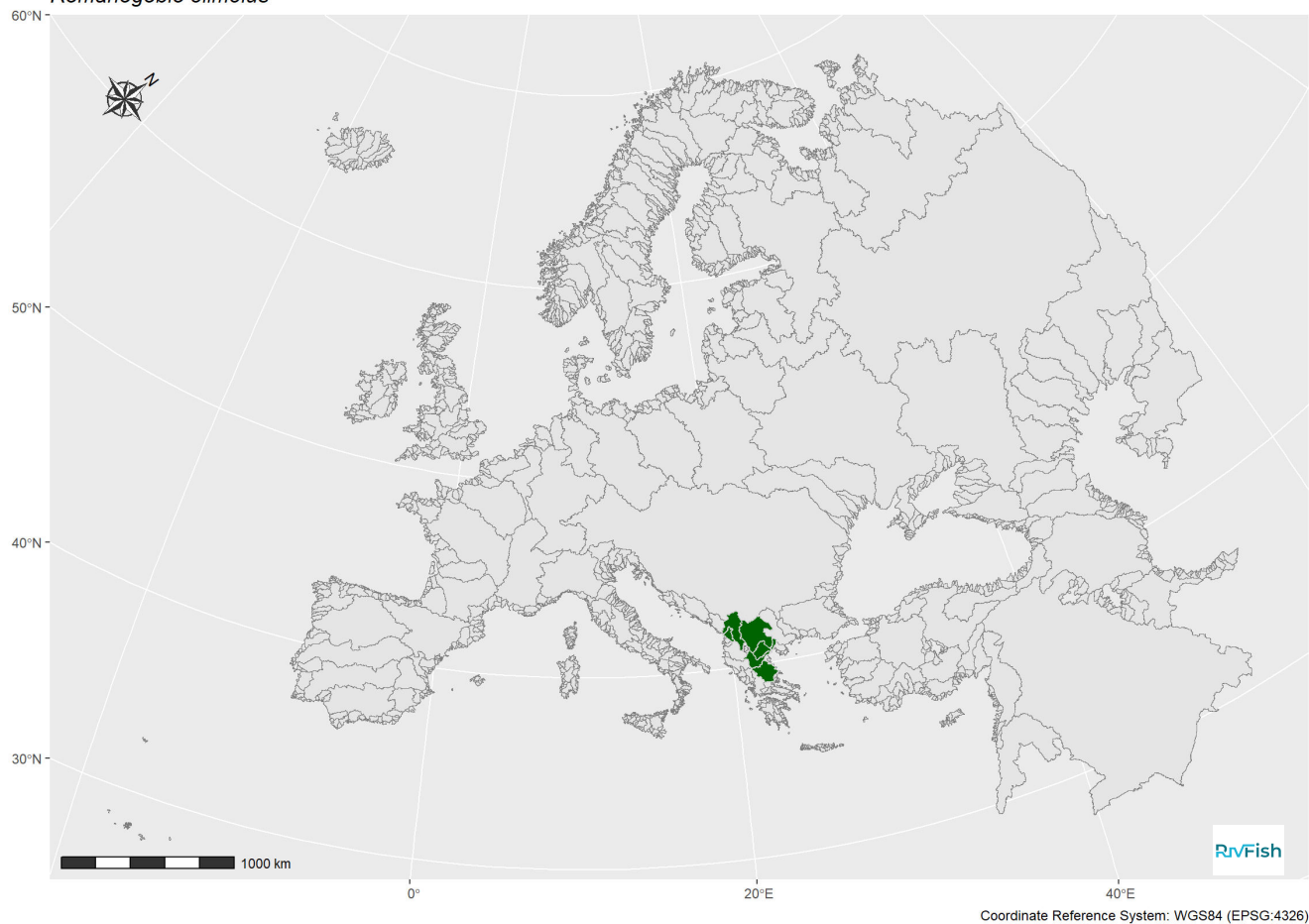
Romanogobio benacensis



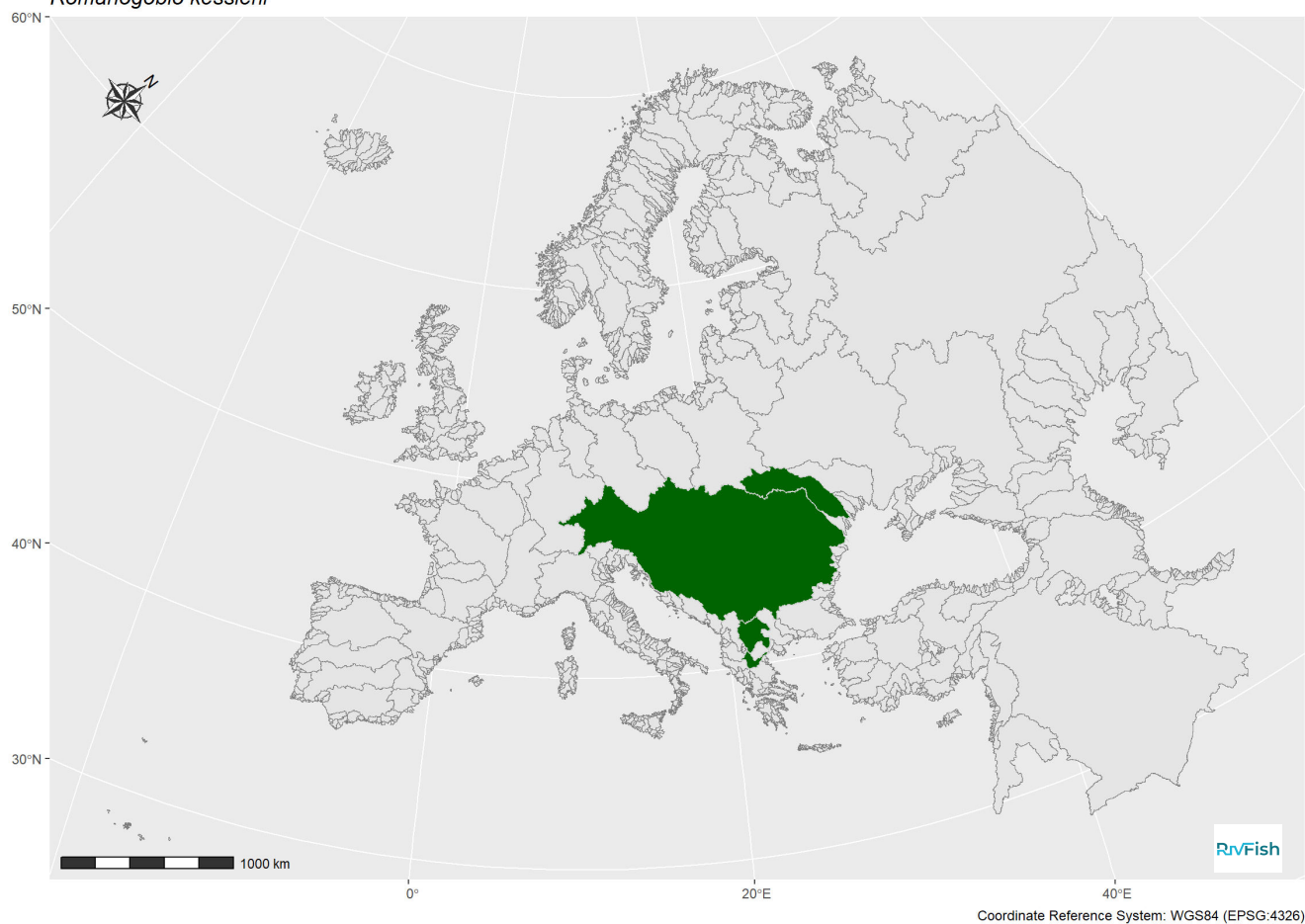
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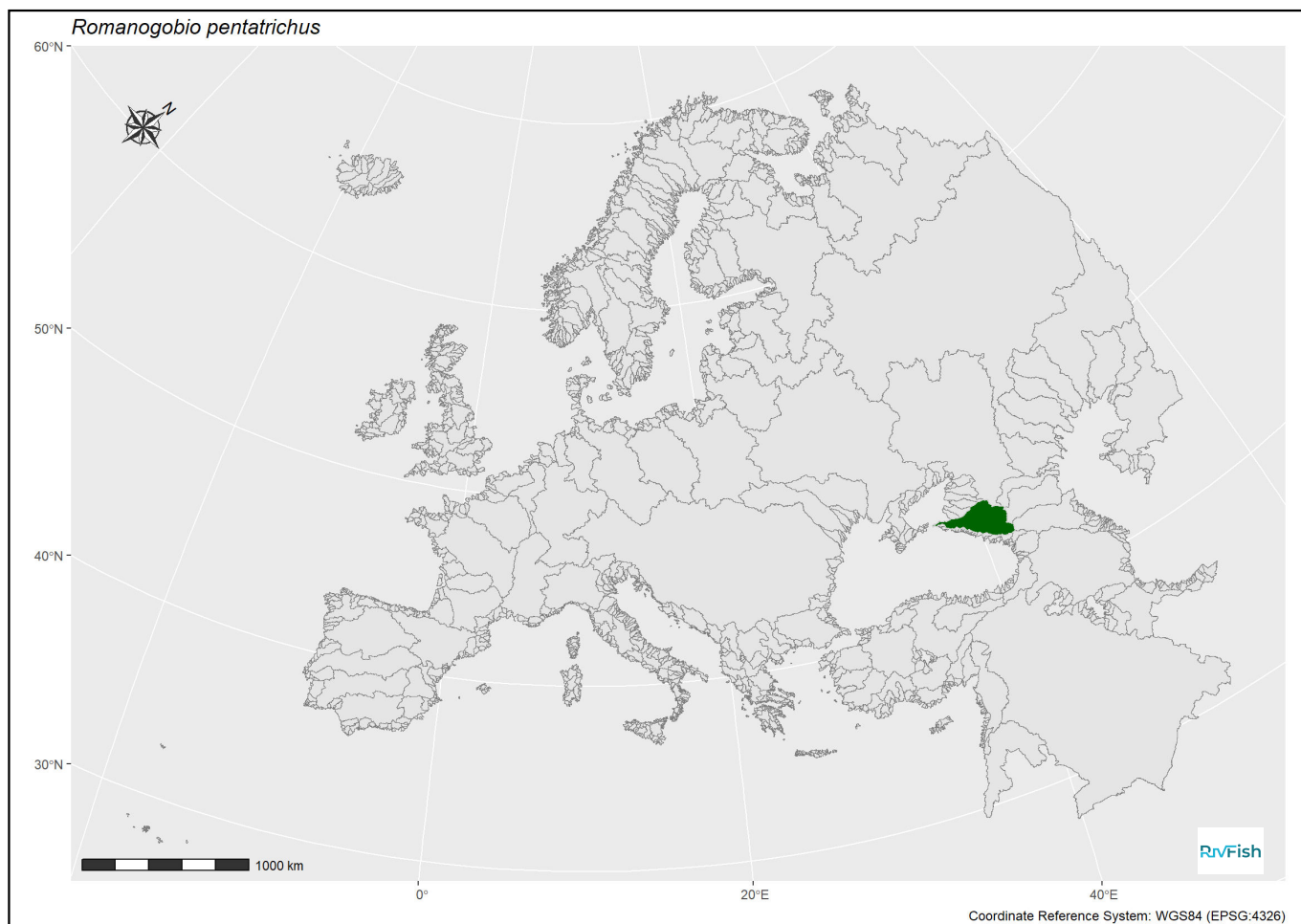
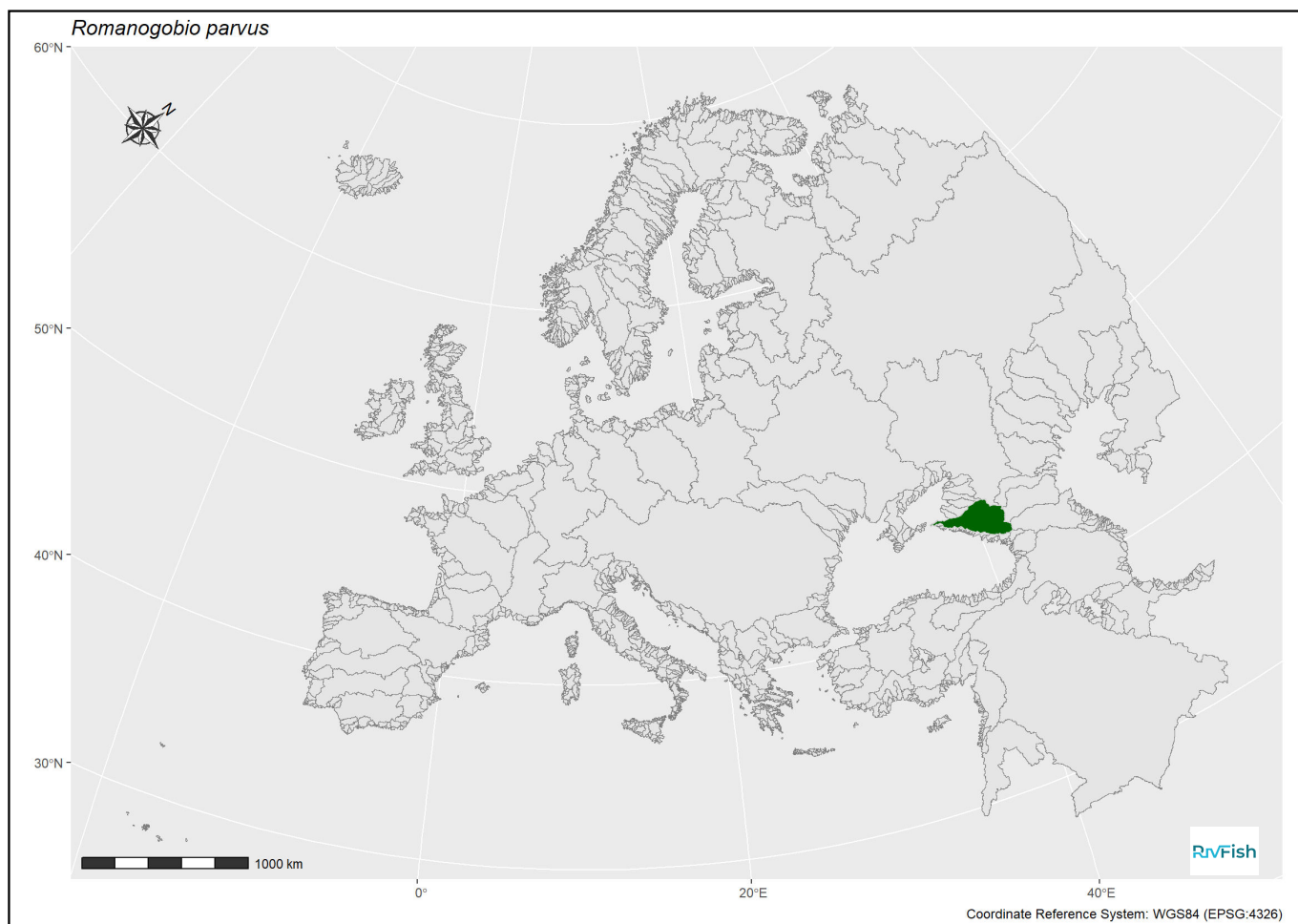


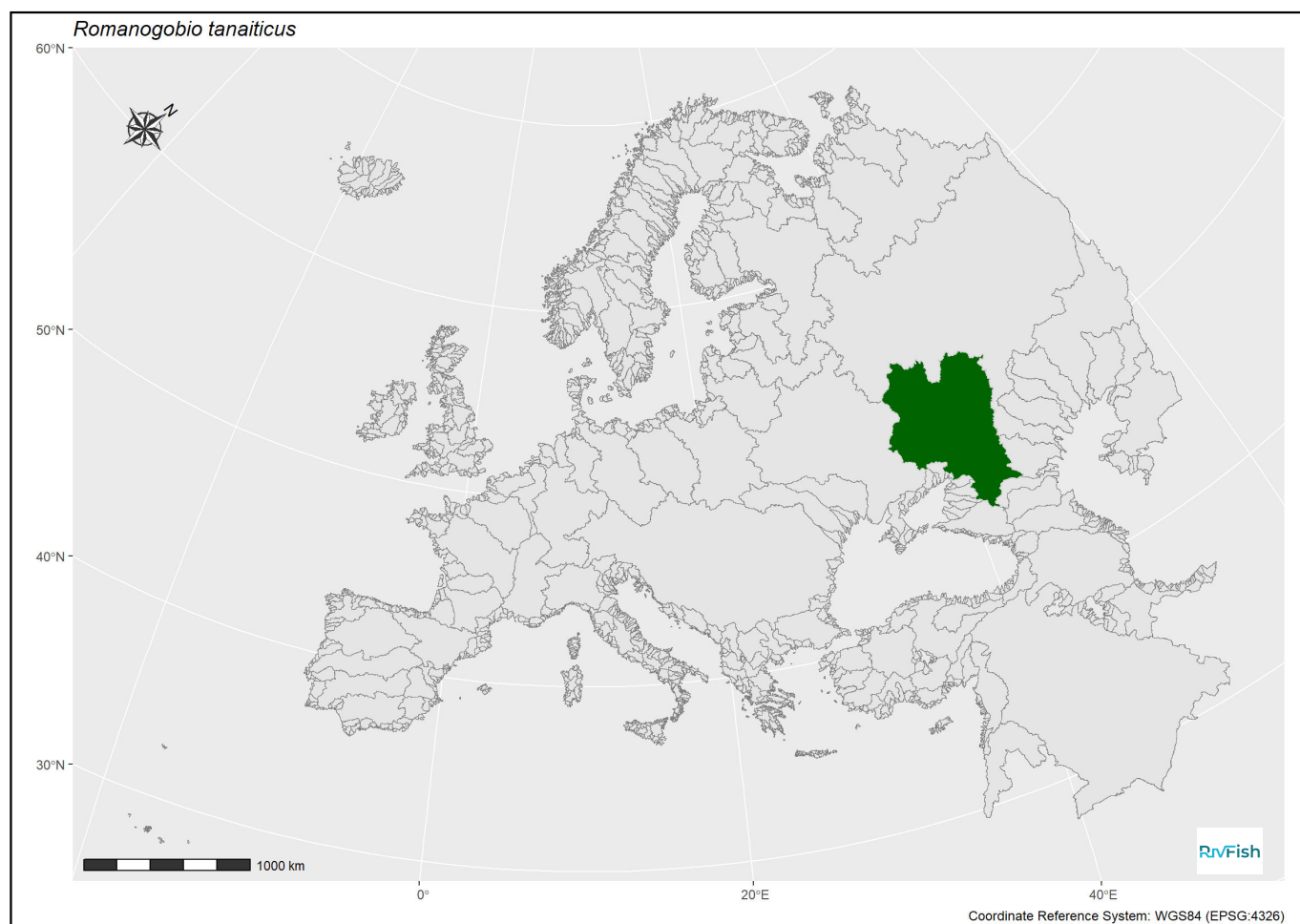
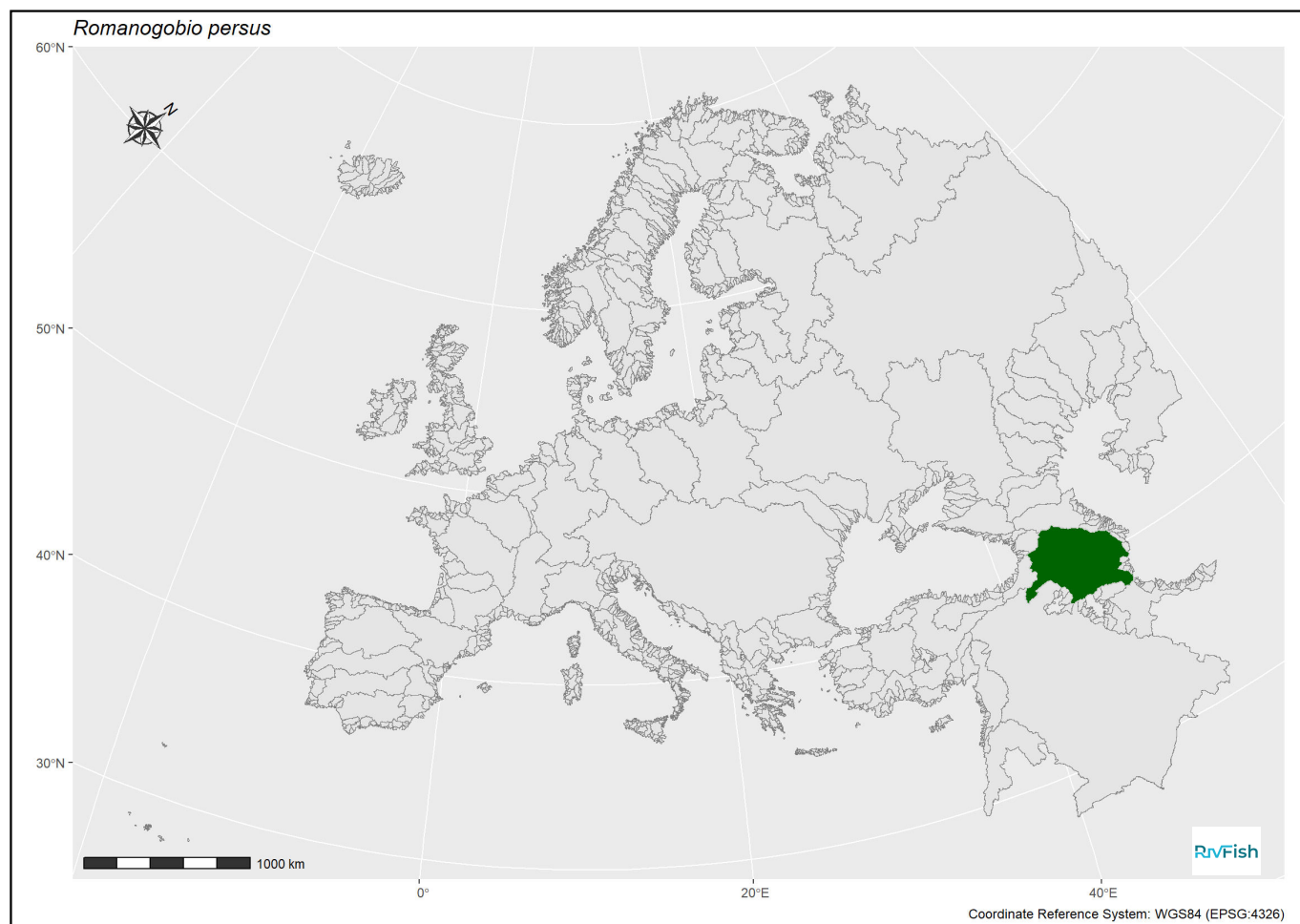
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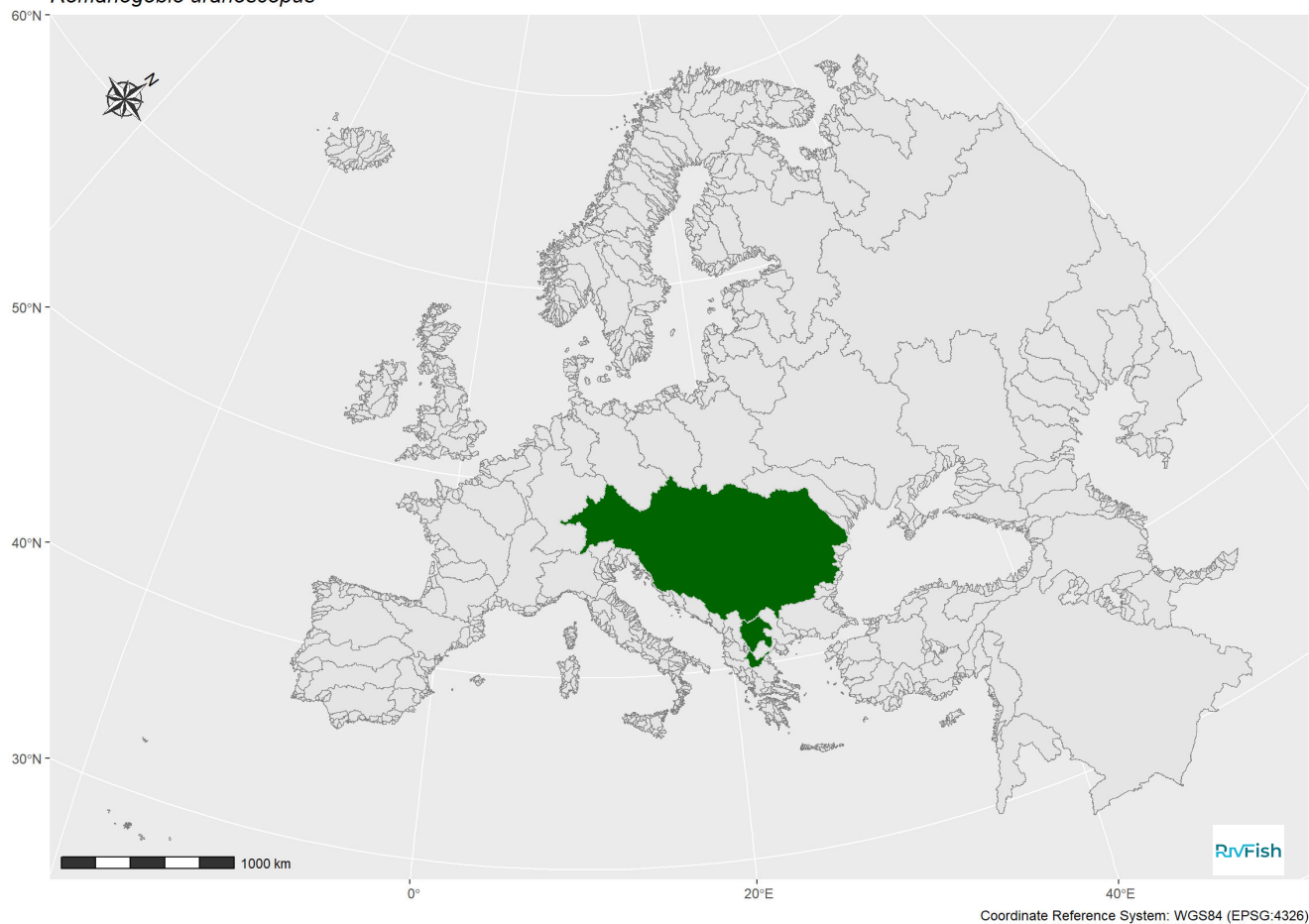
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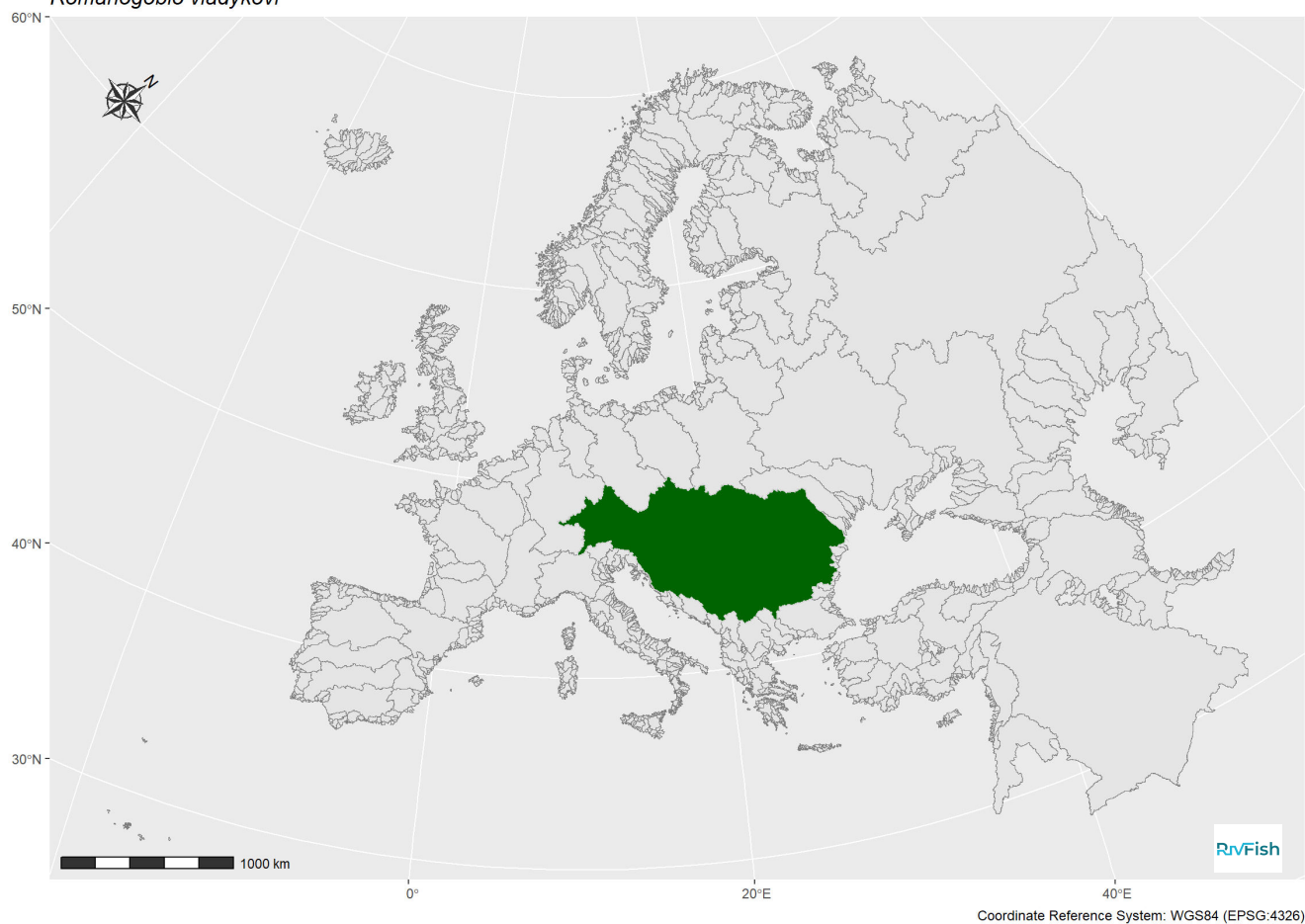


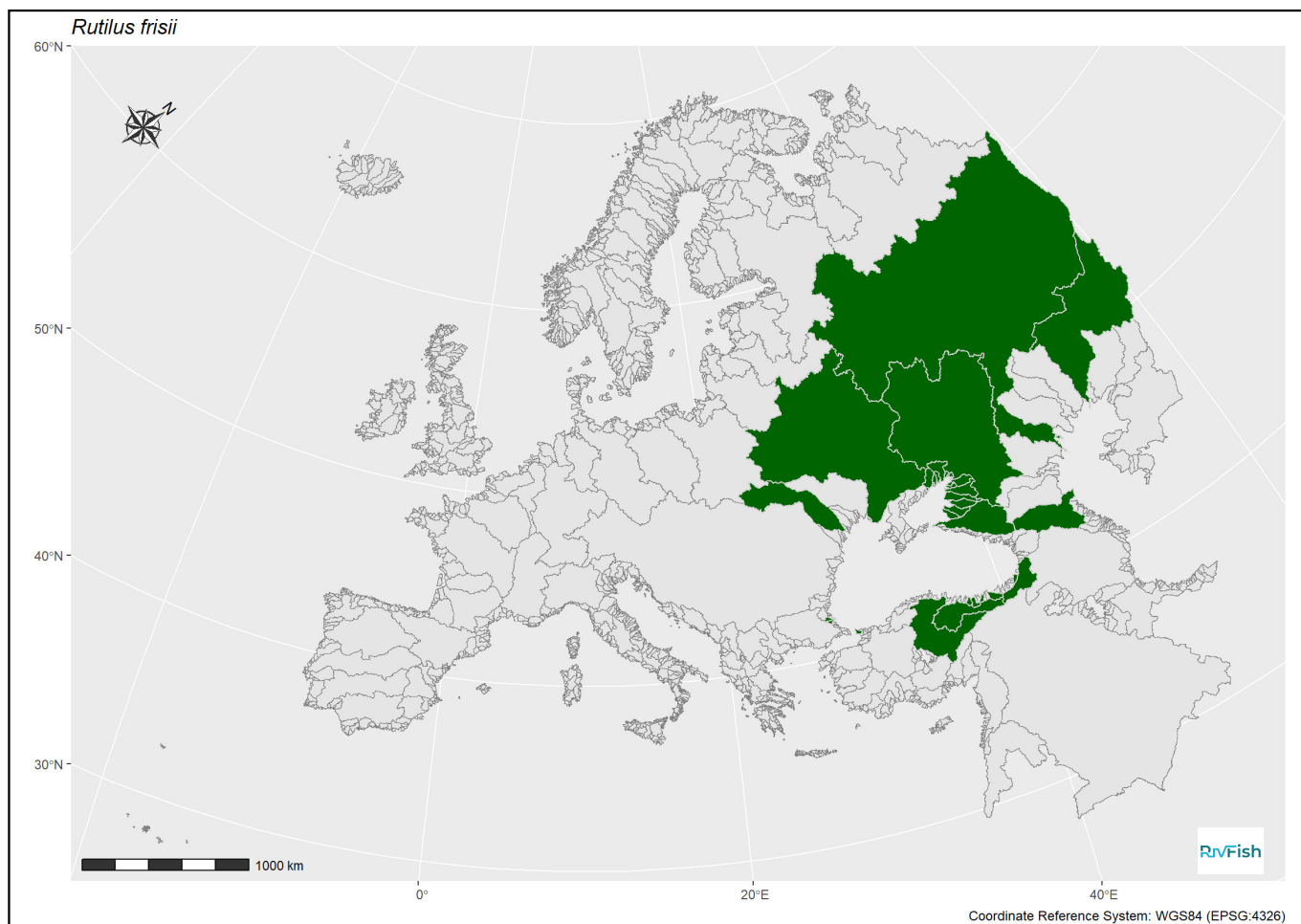
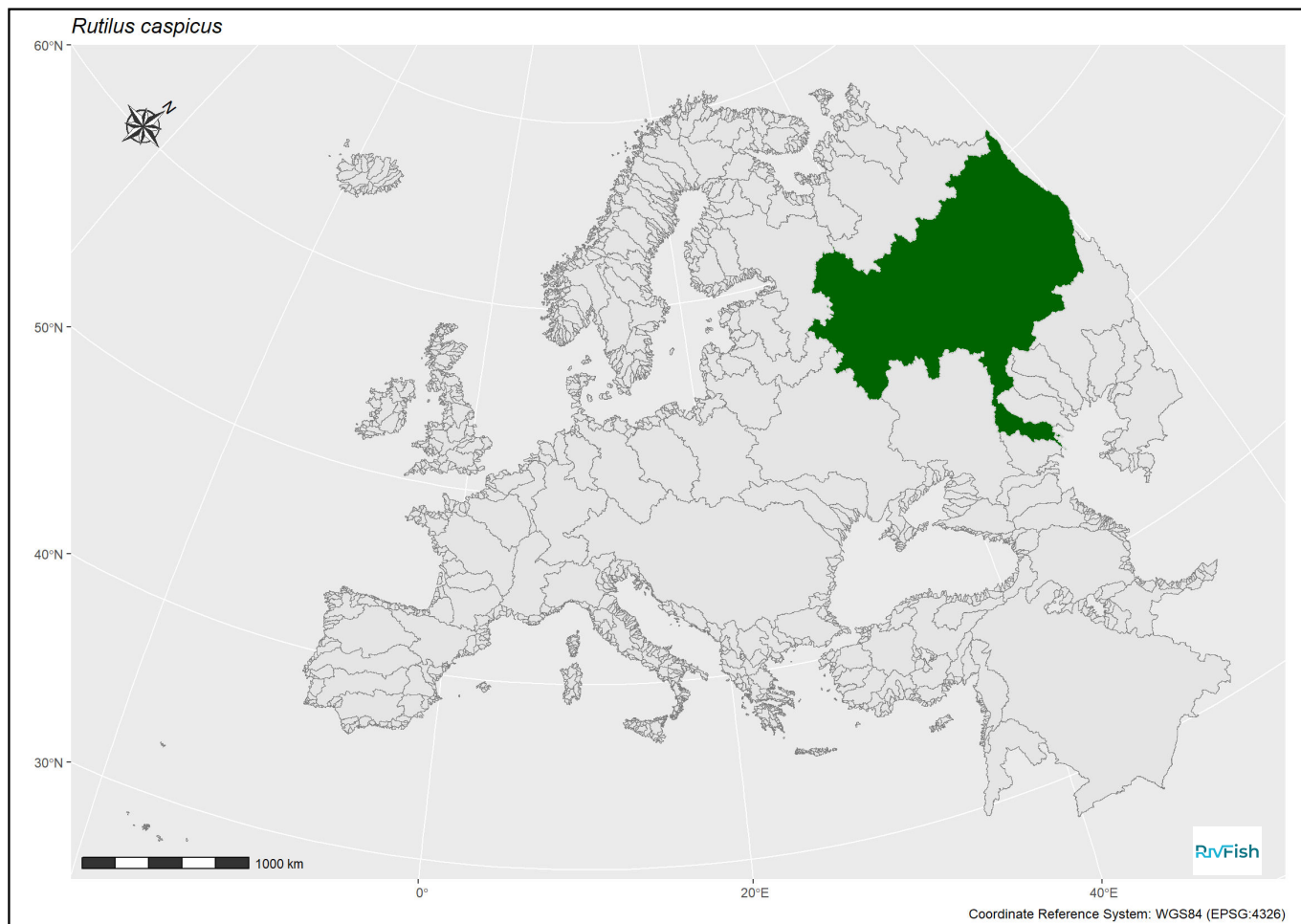


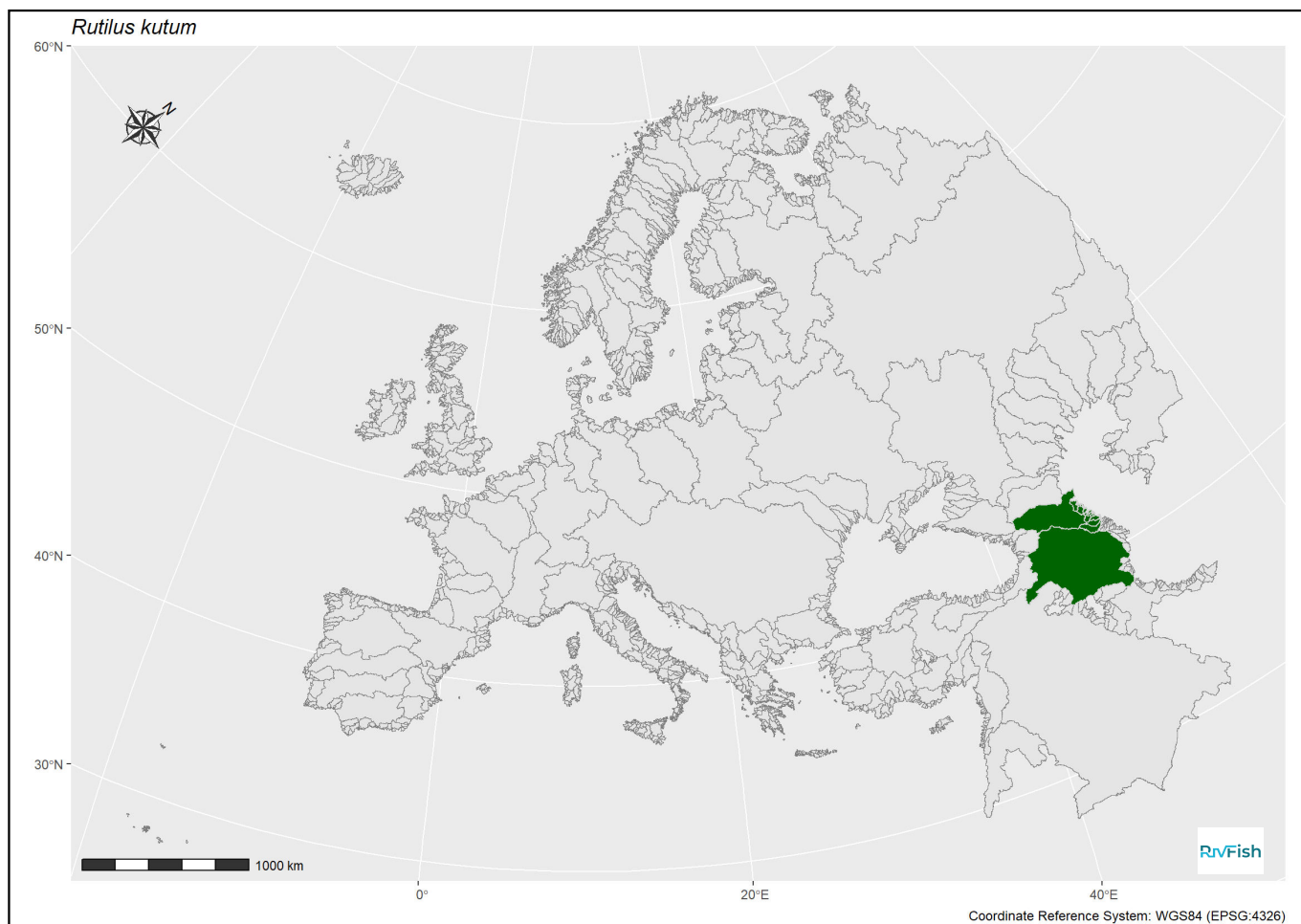
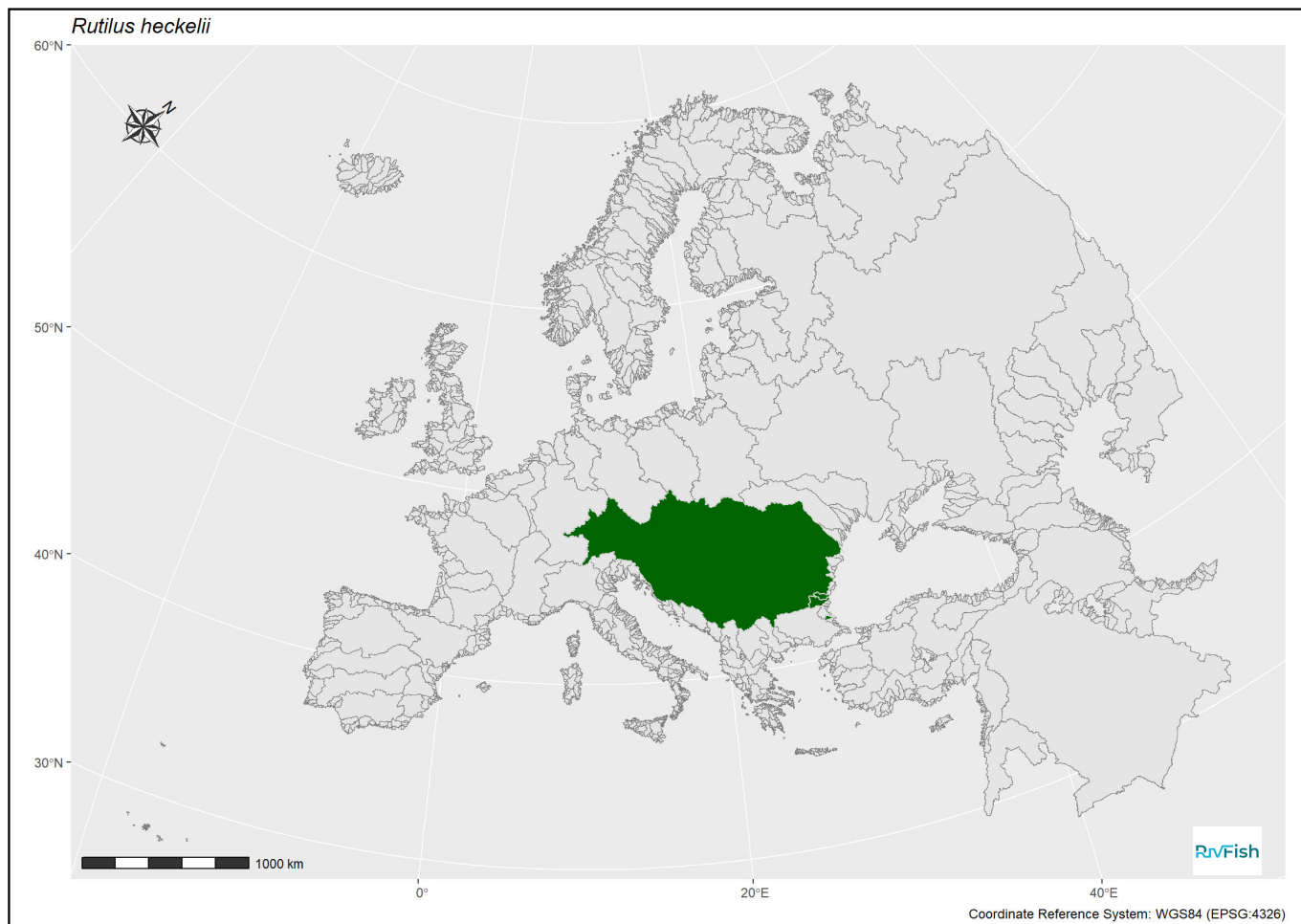
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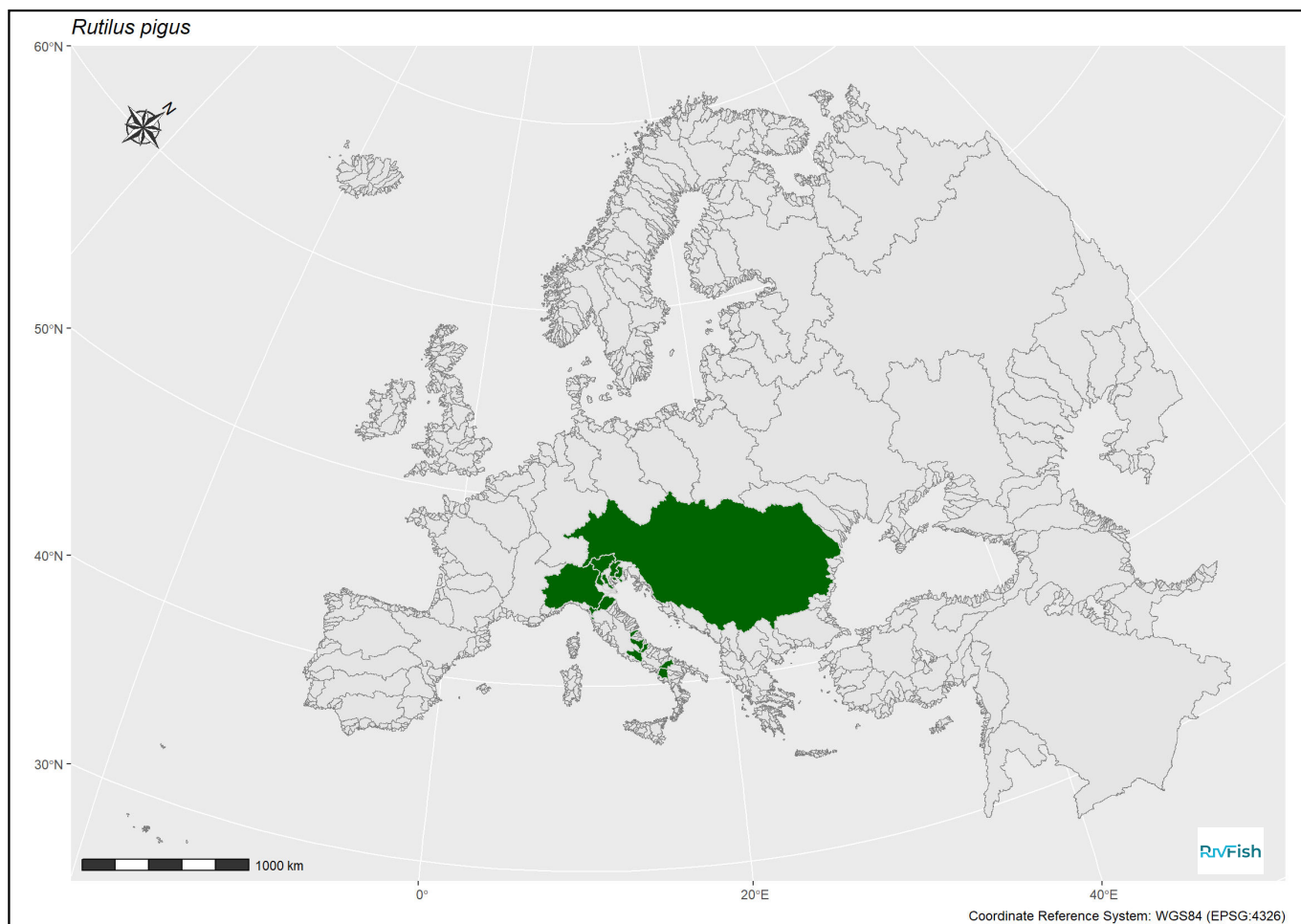
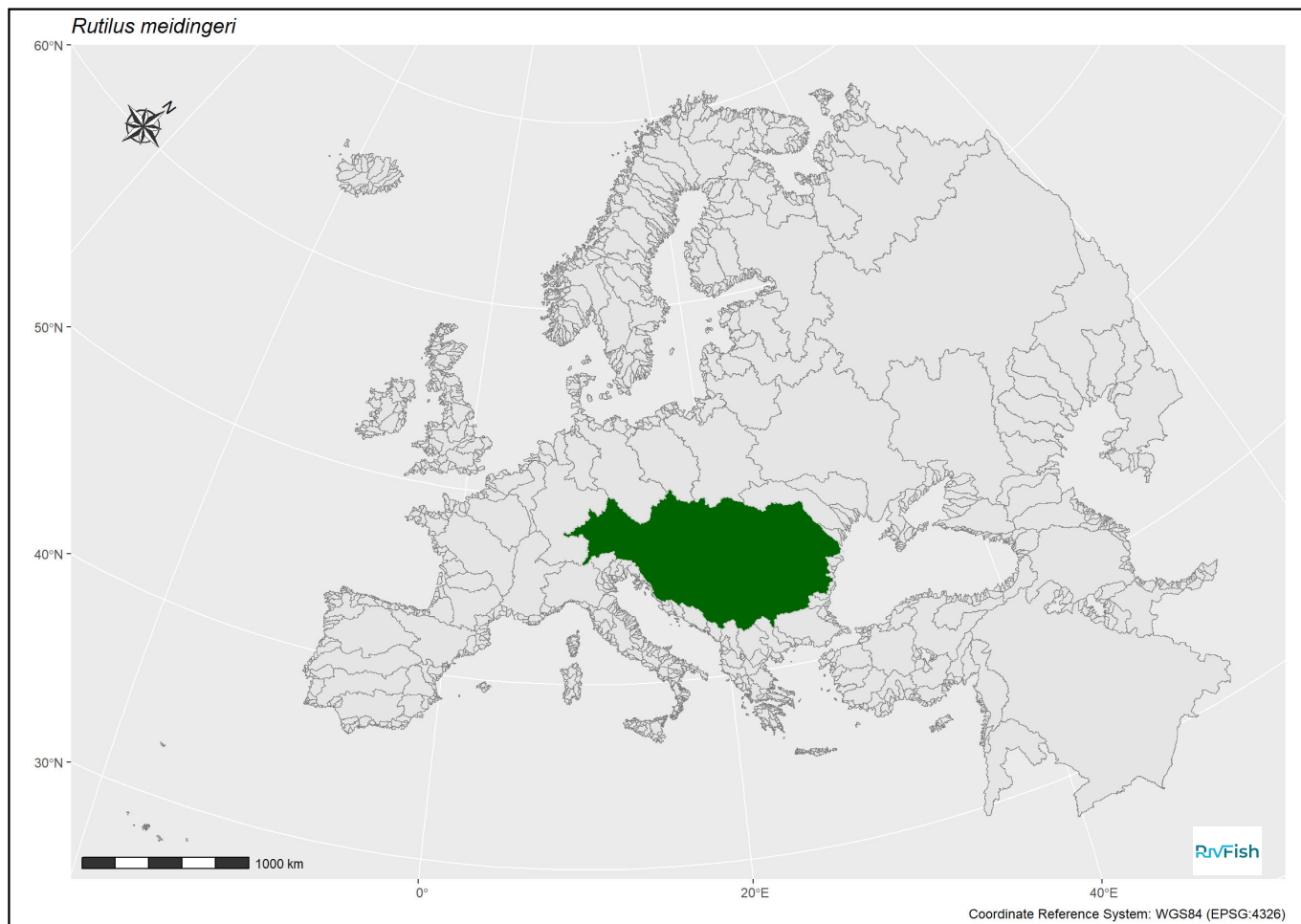


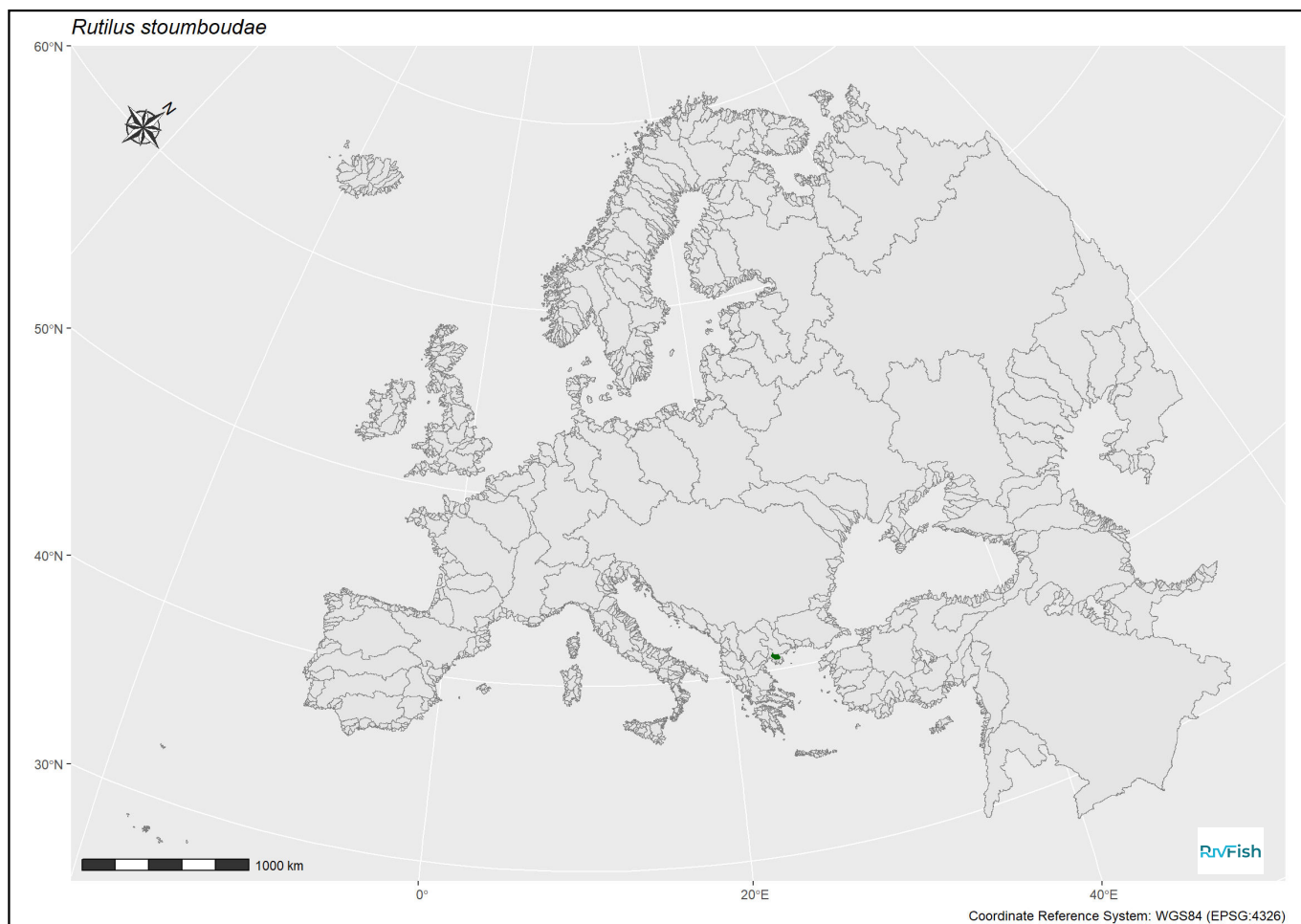
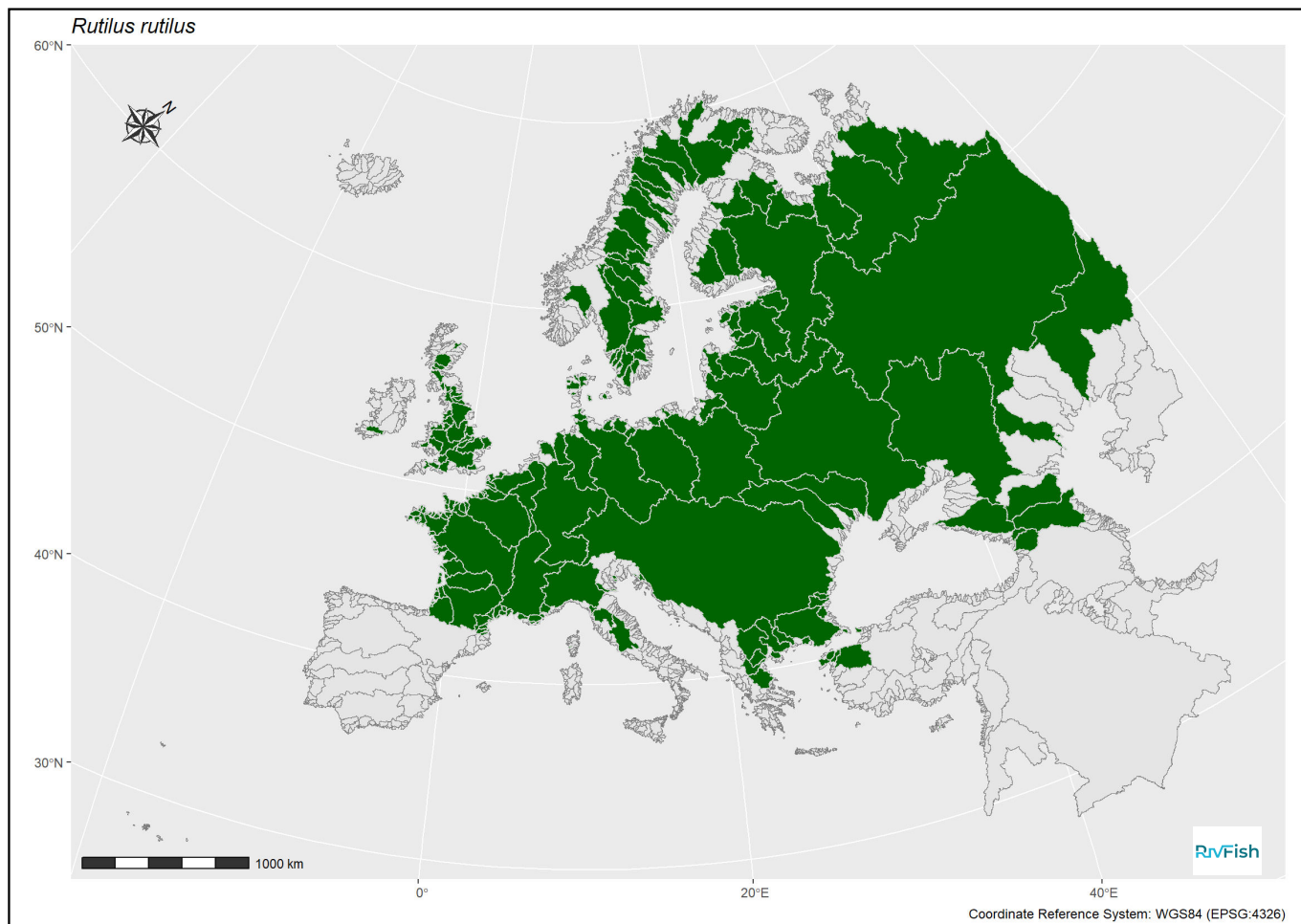
Romanogobio vladkovi

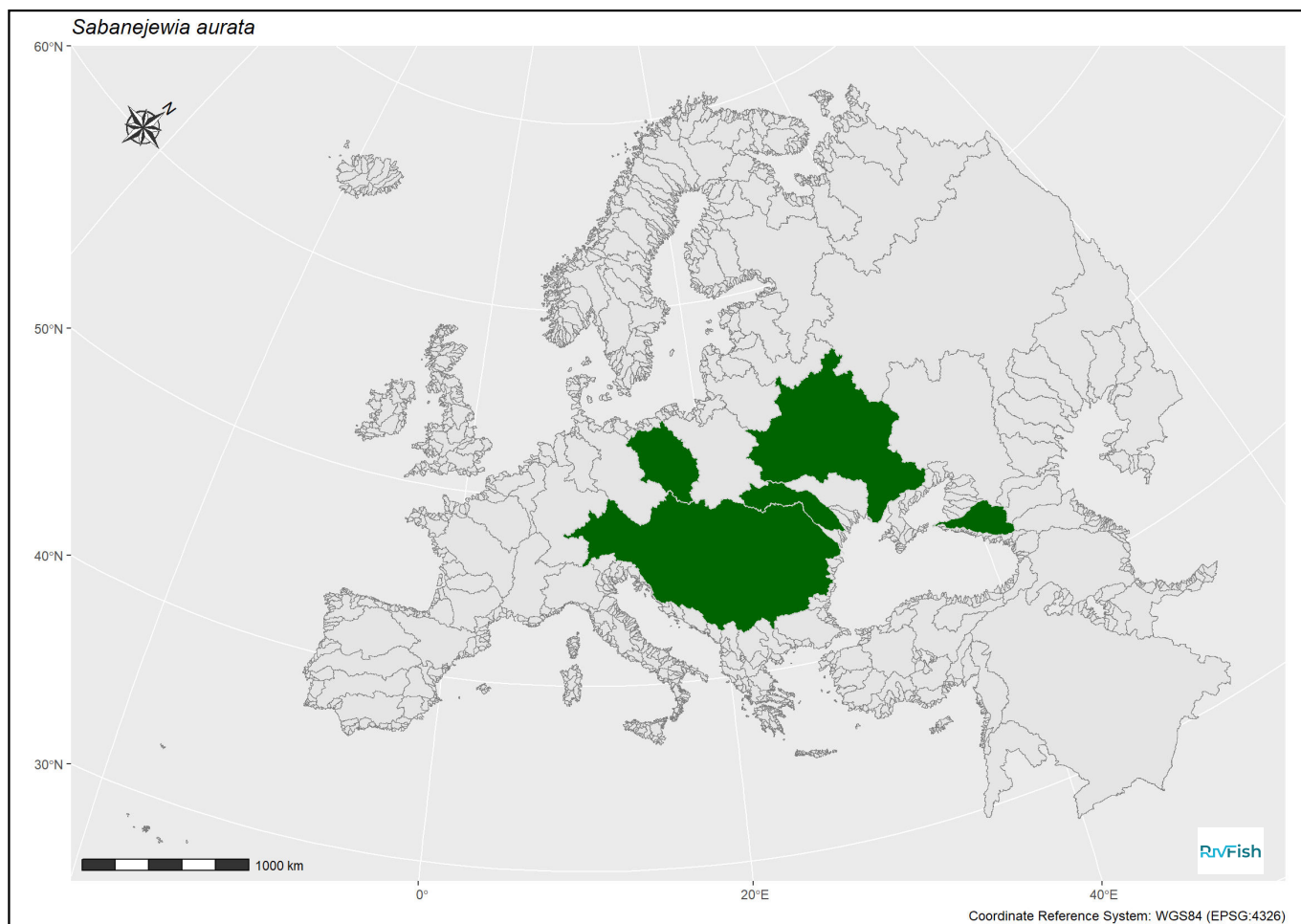
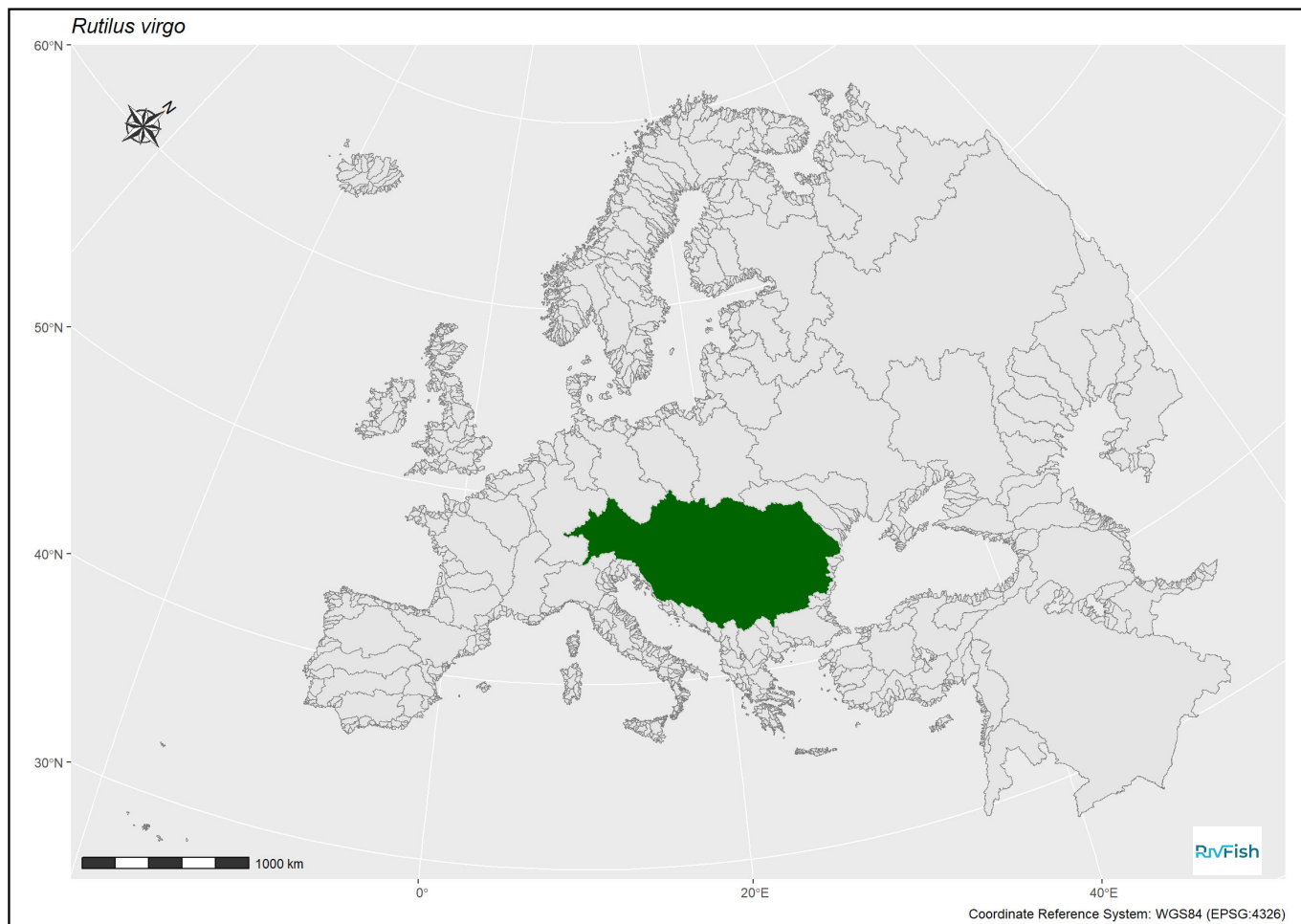


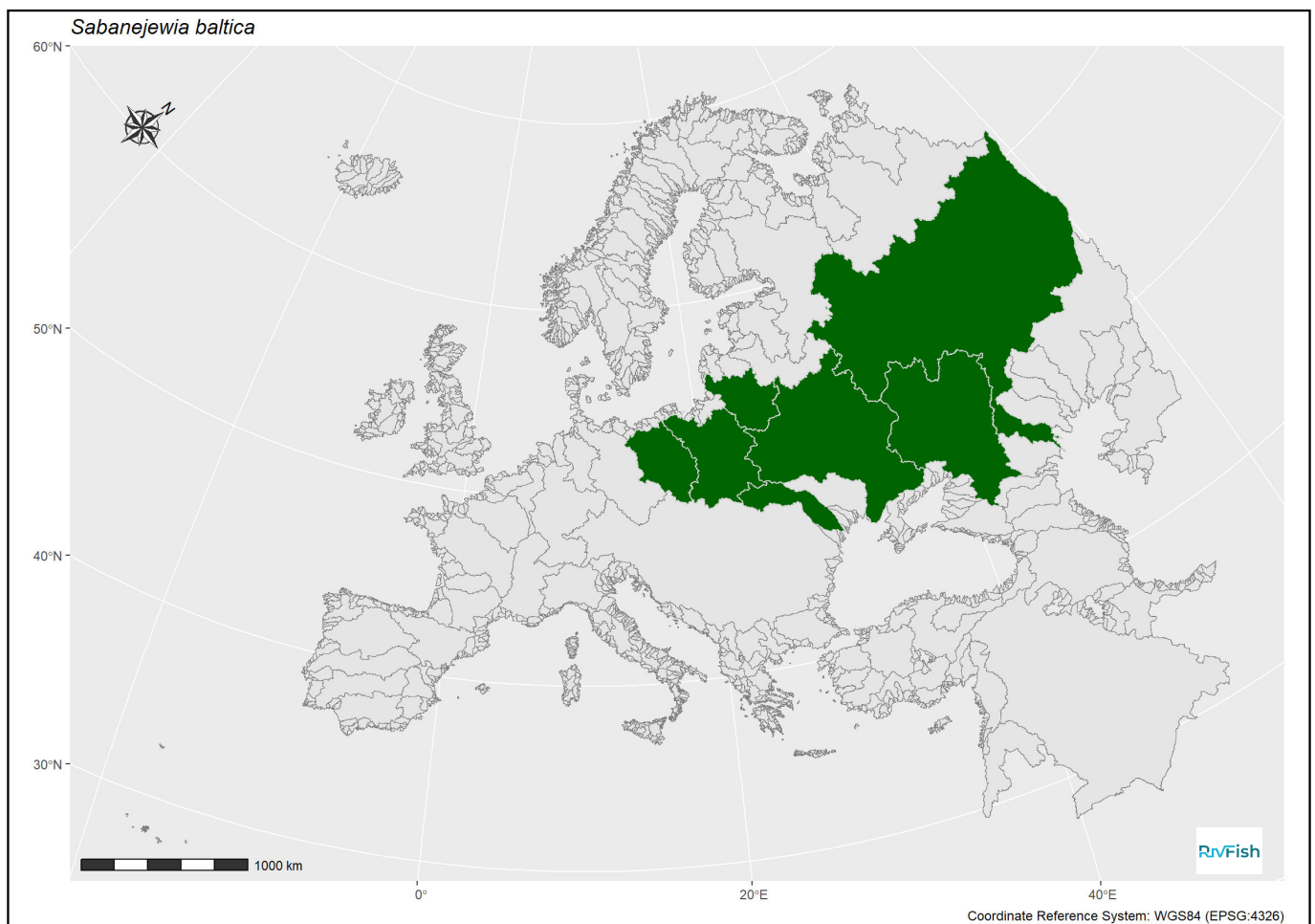
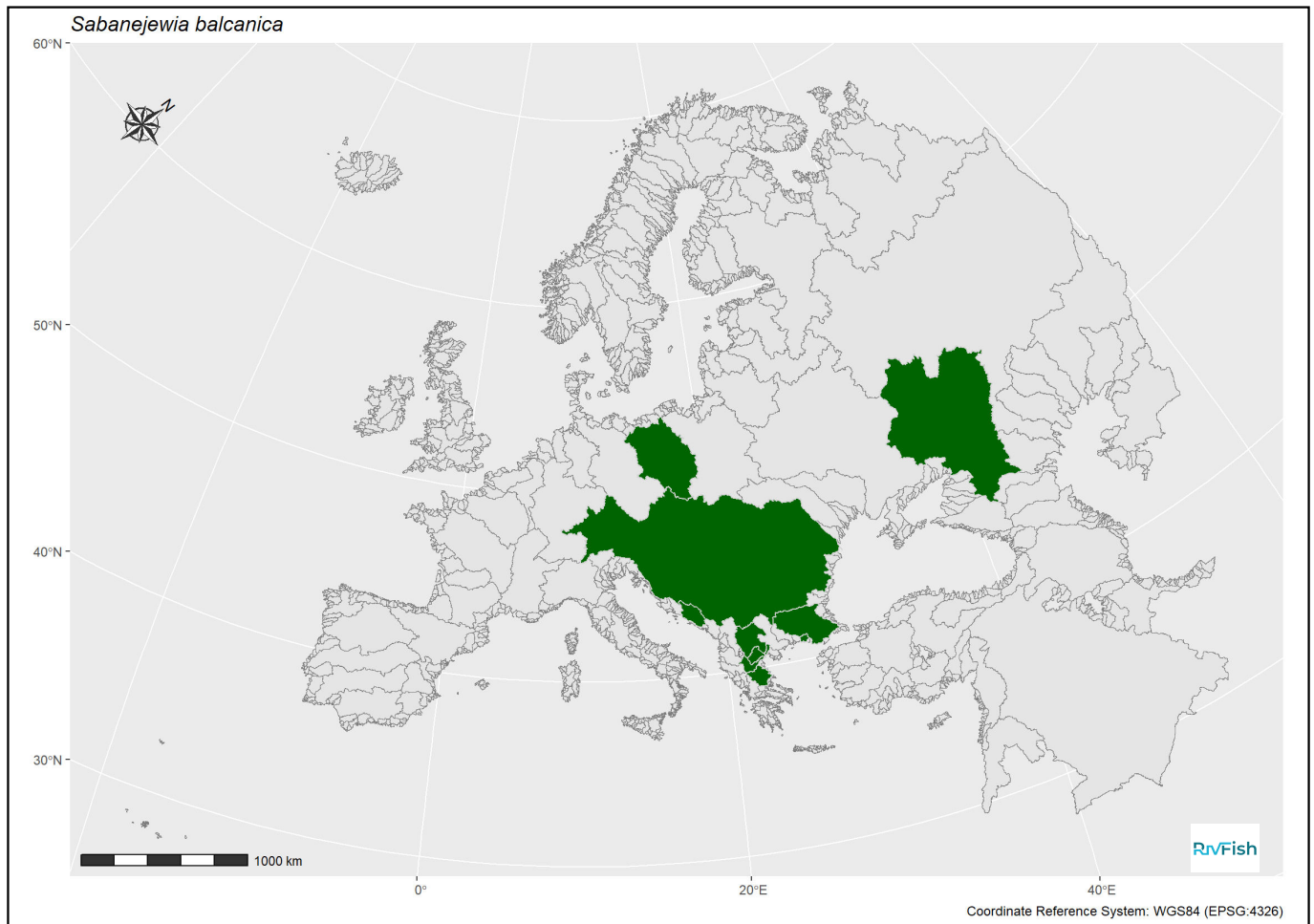




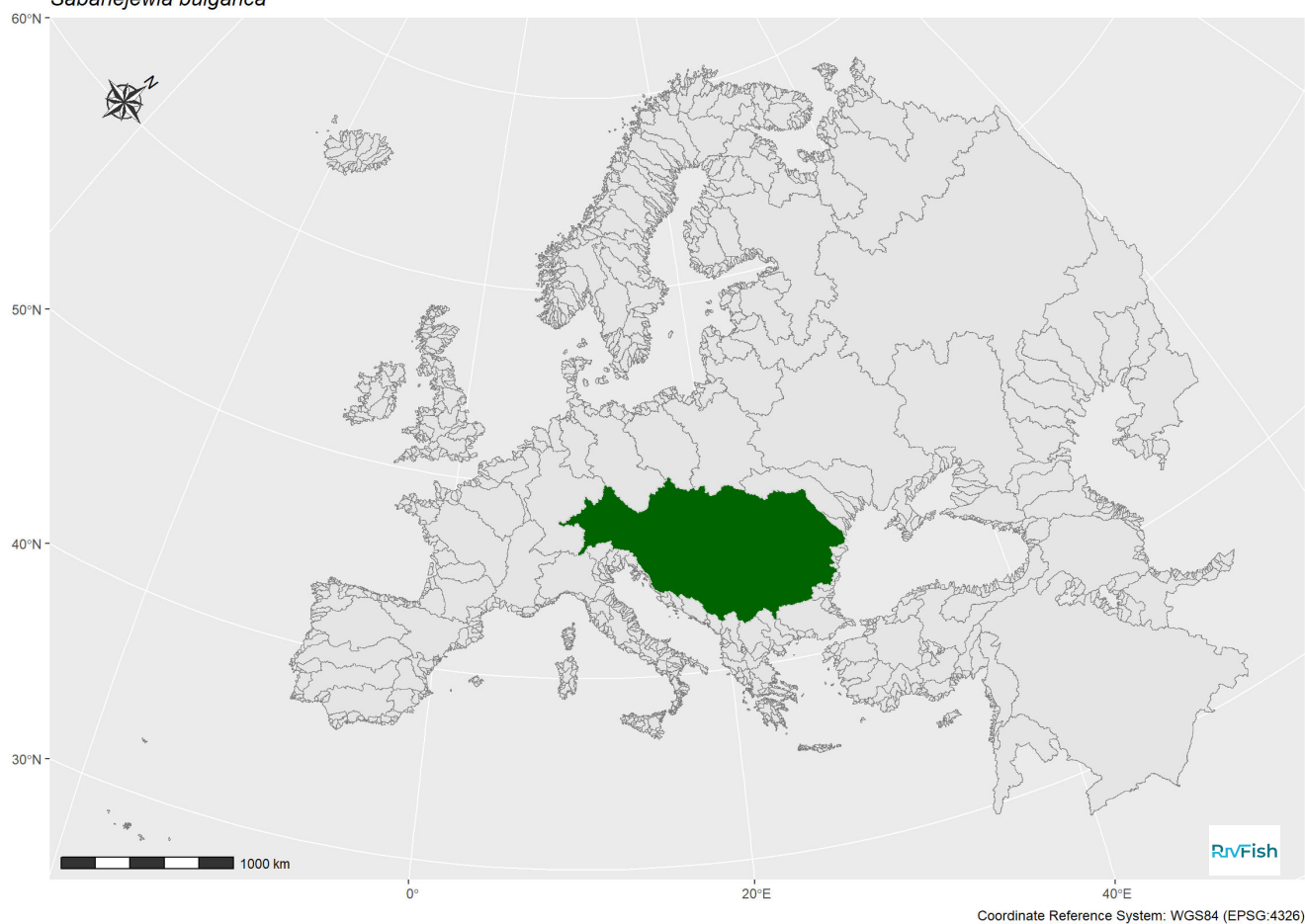




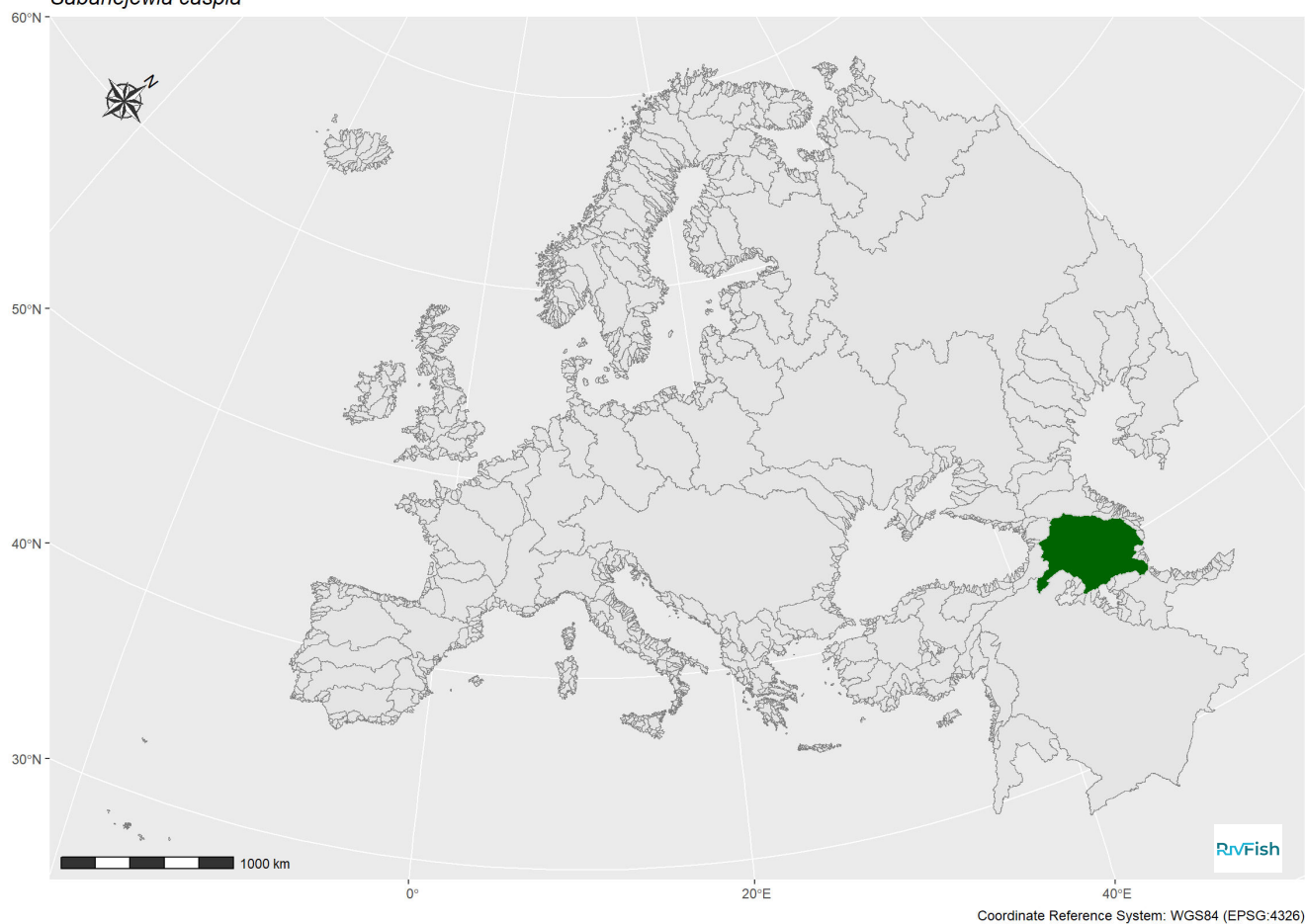




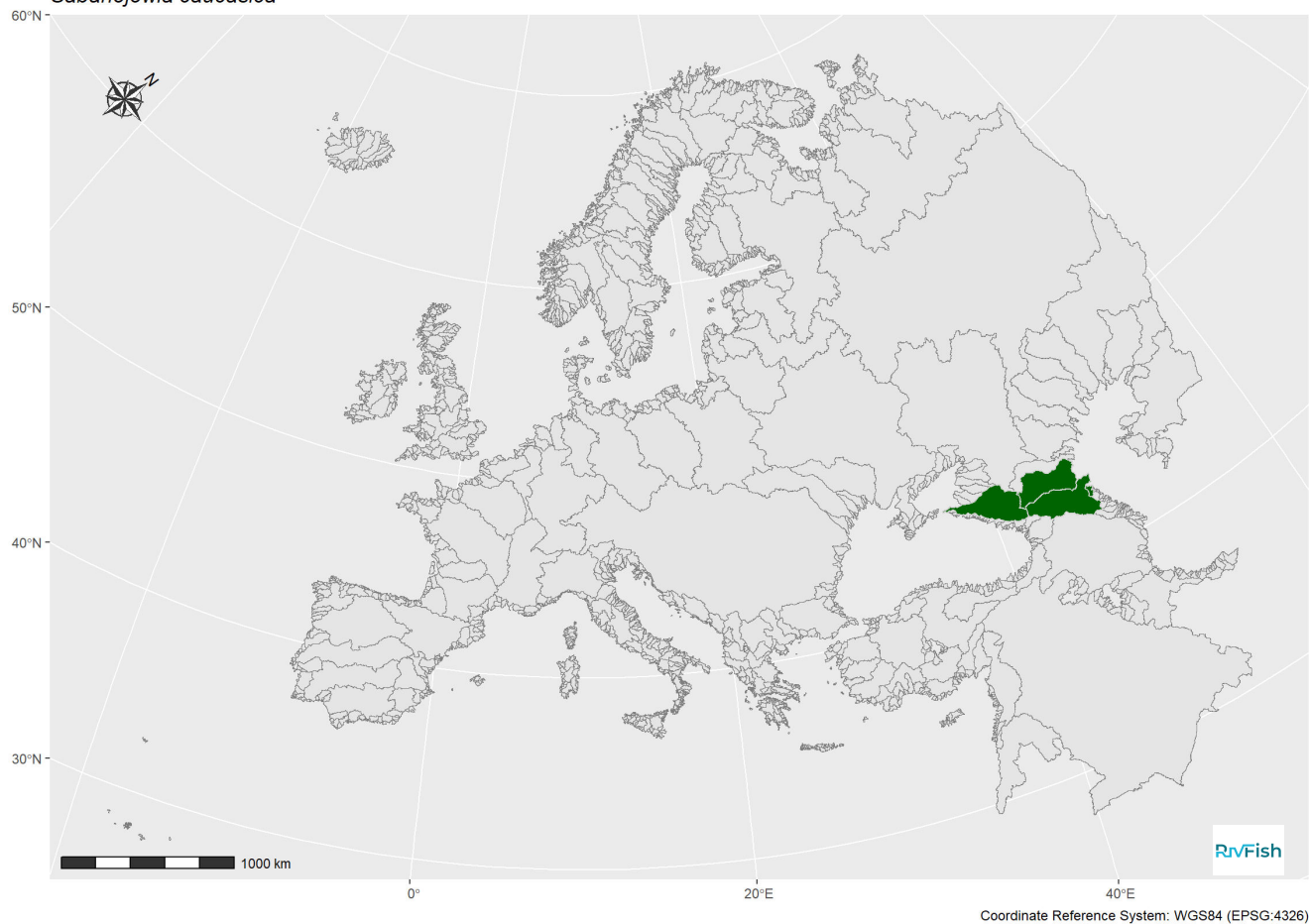
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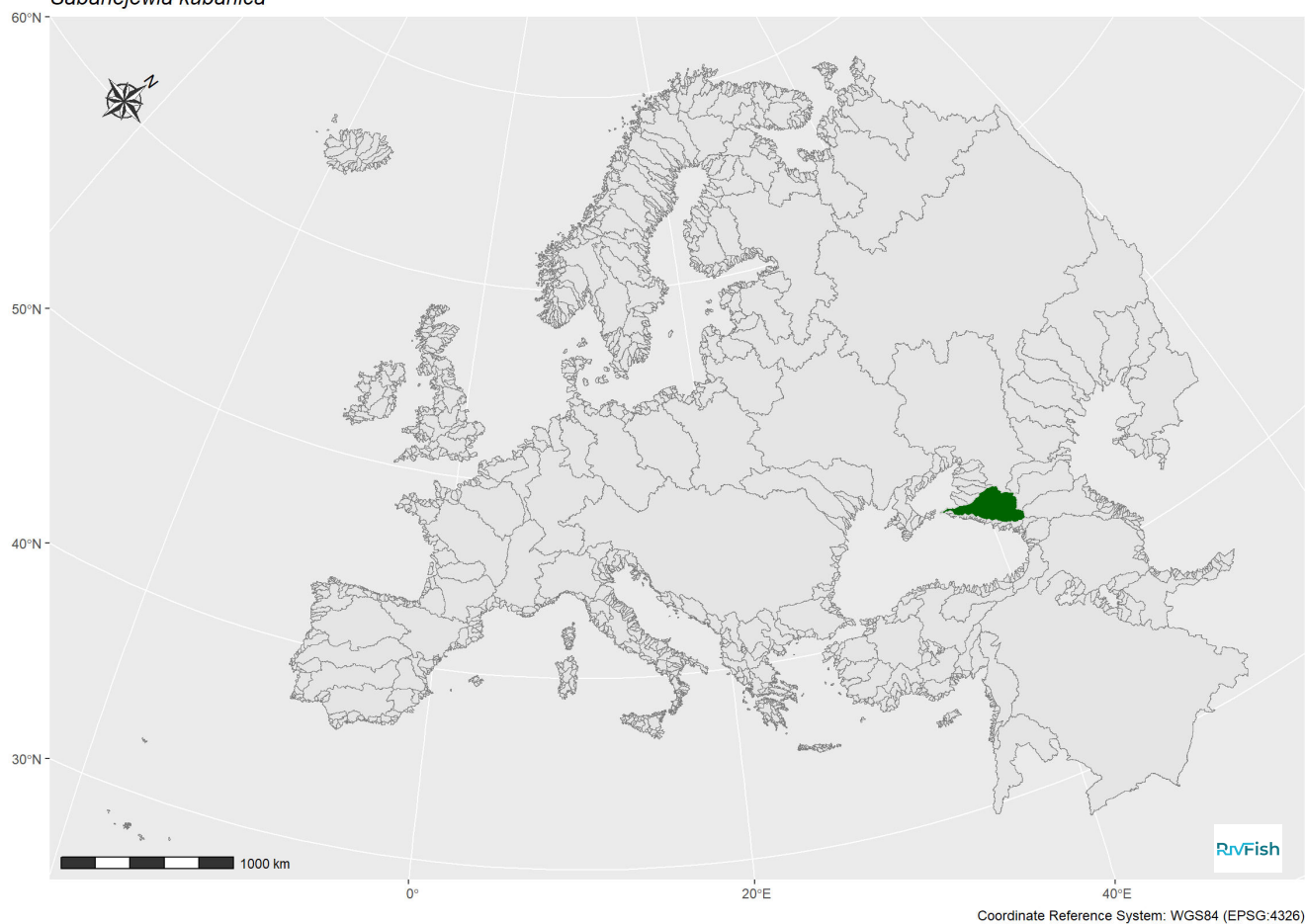
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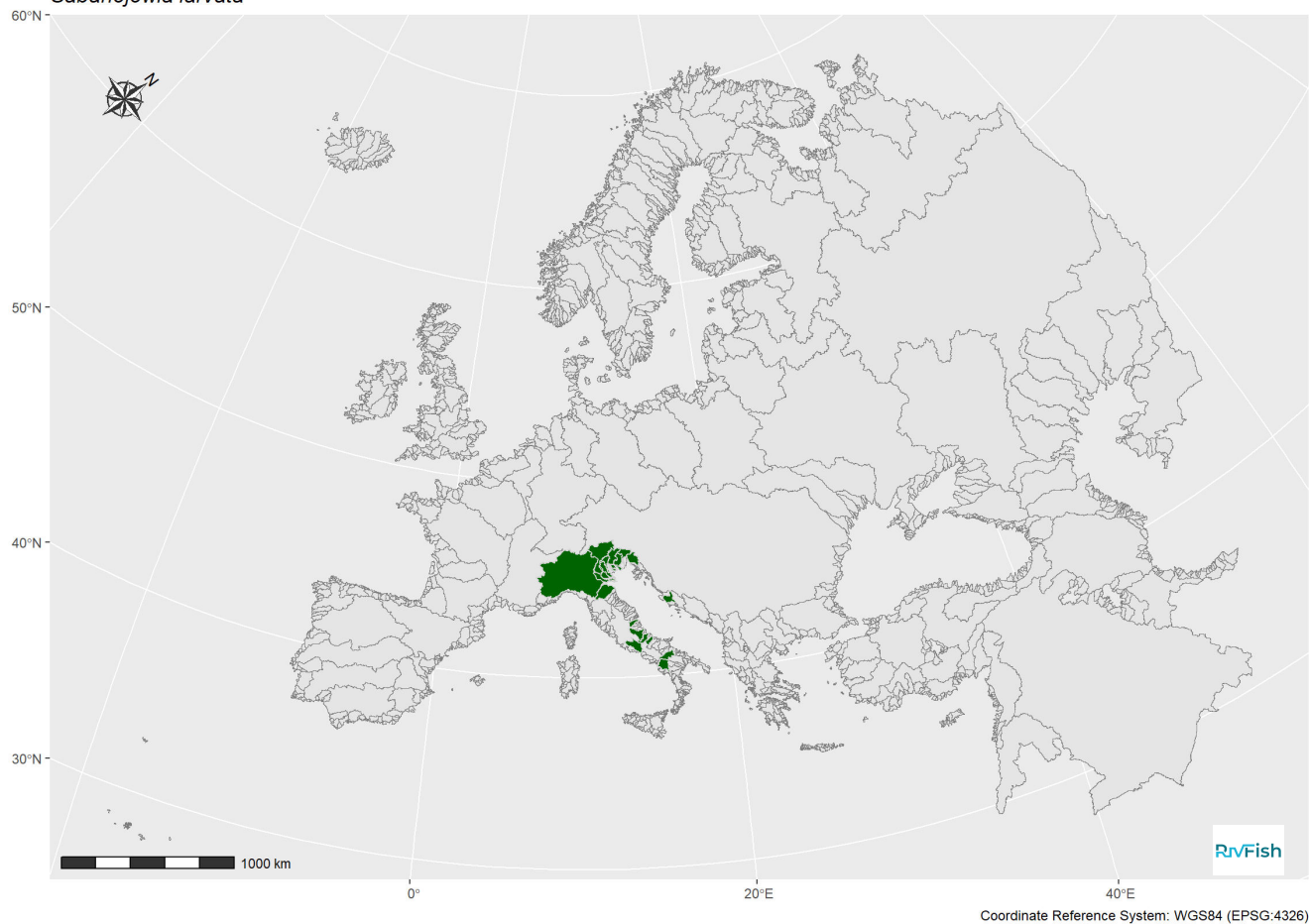
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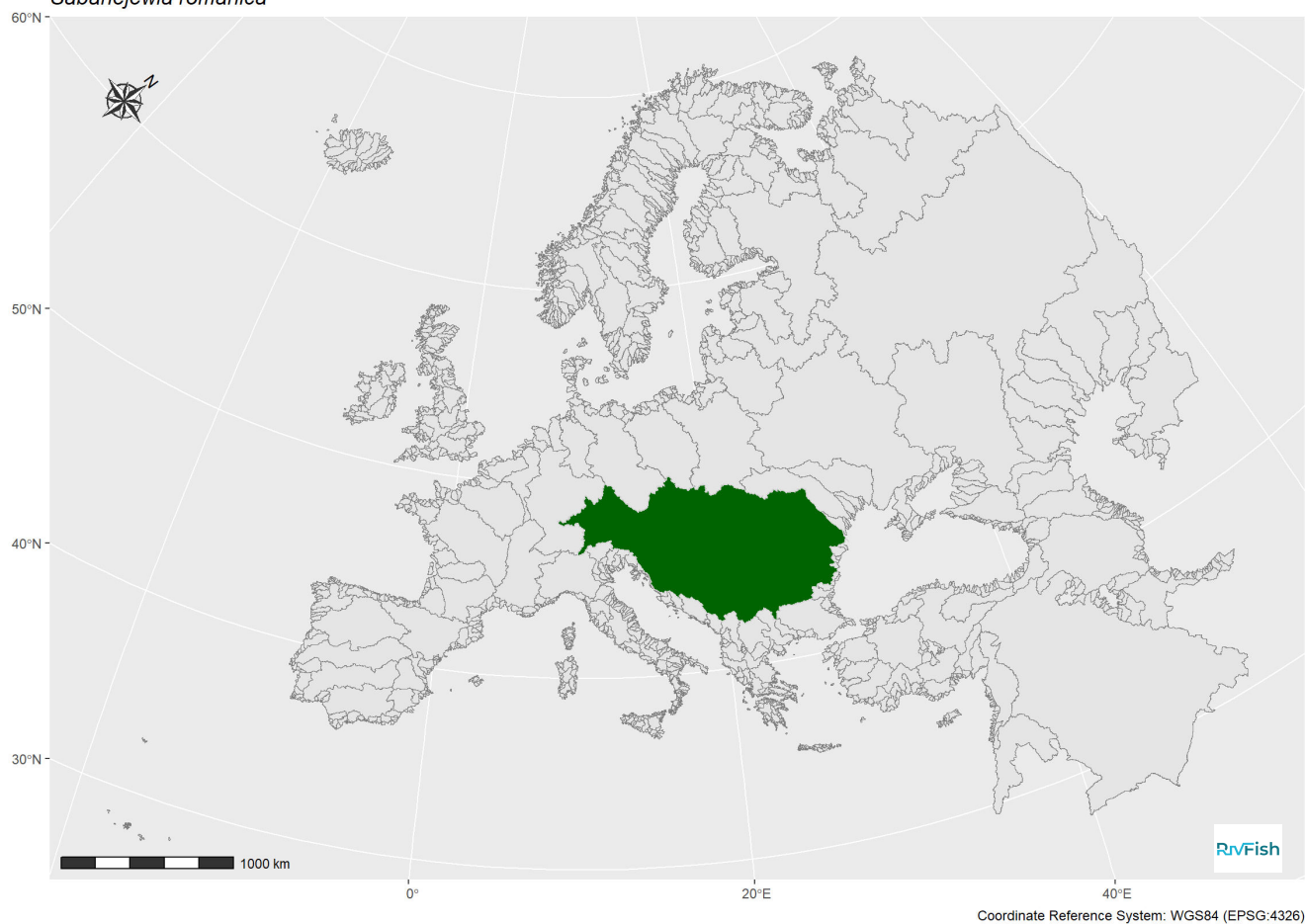
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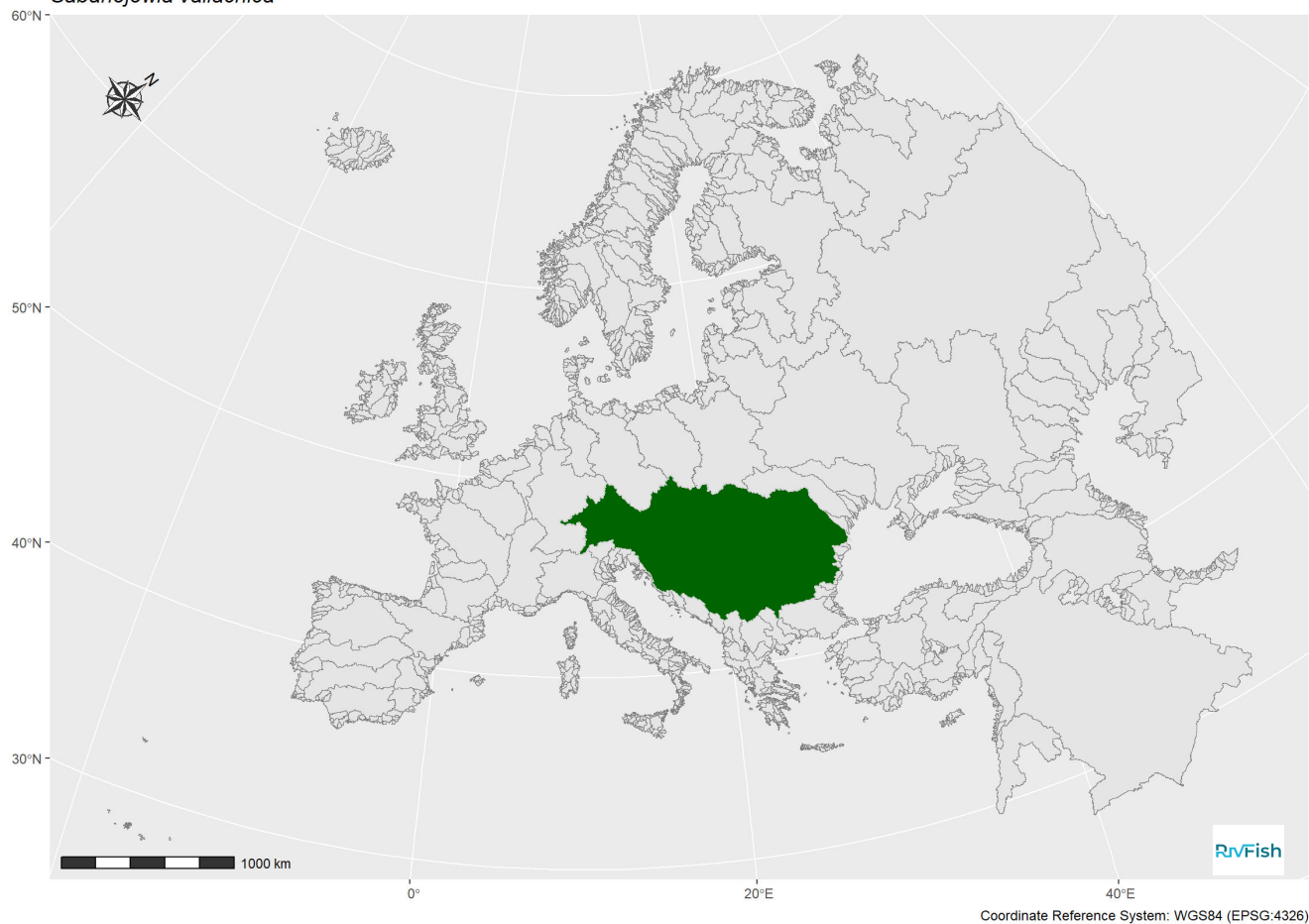
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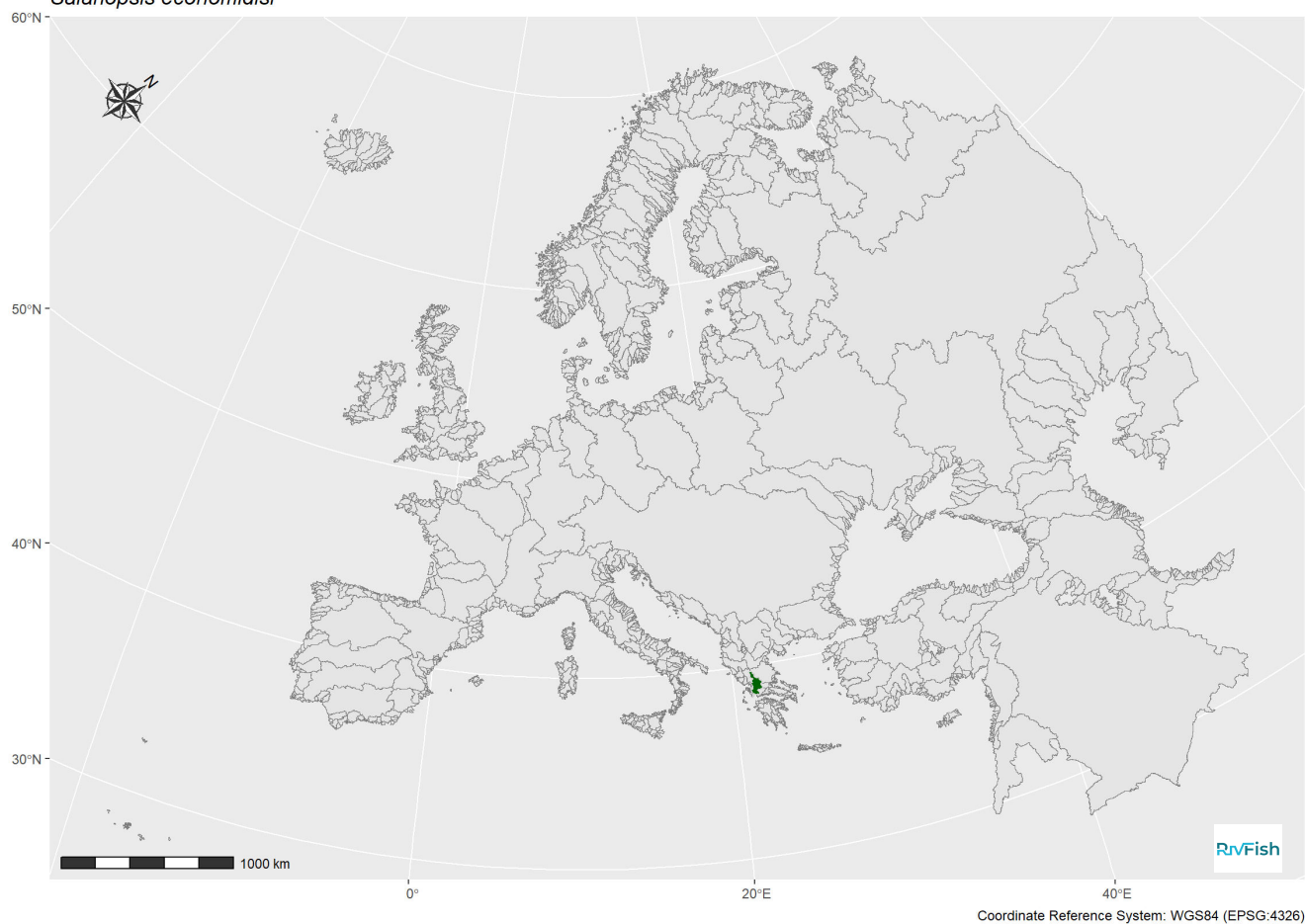
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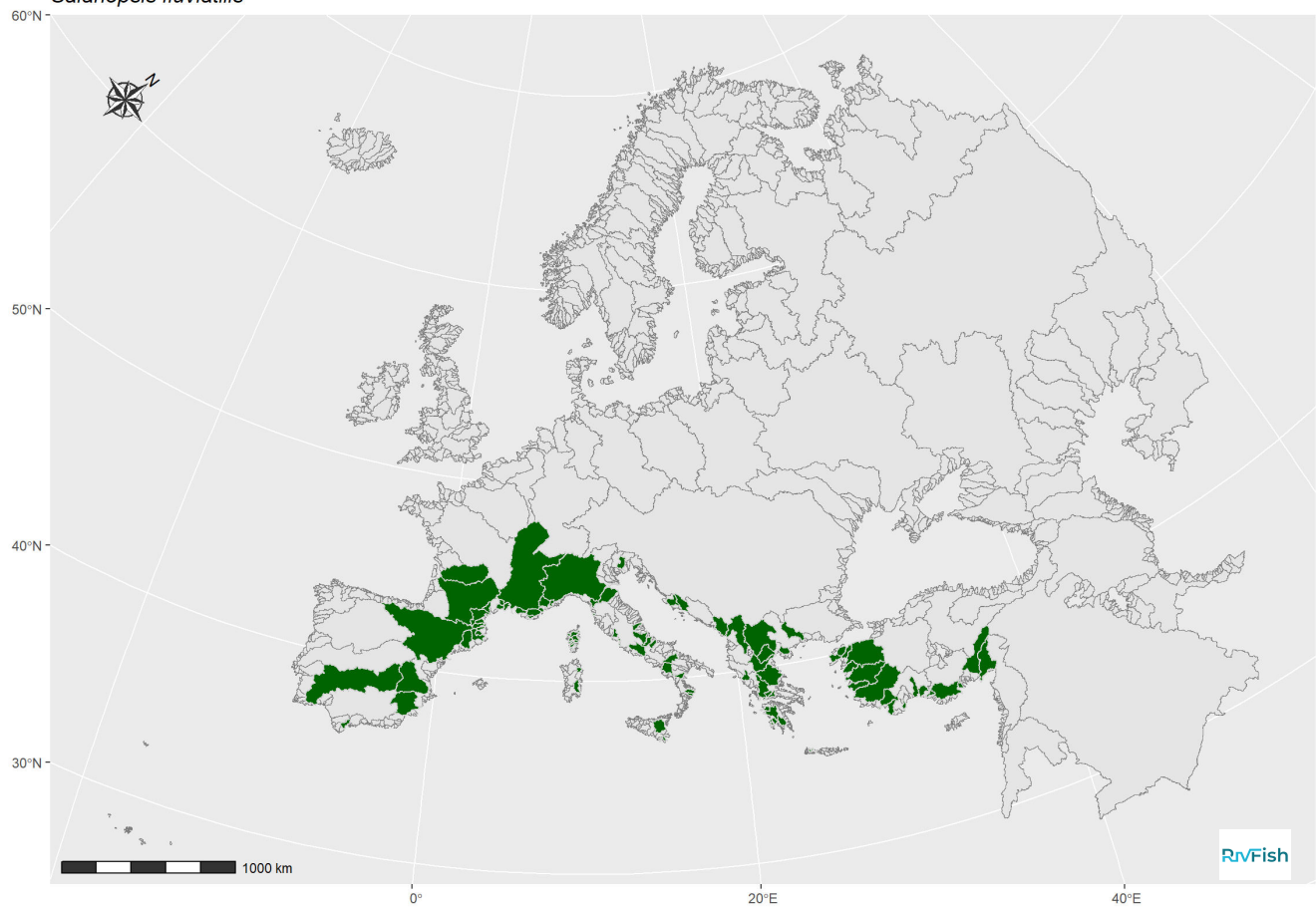
Sabanejewia vallahica



Salariopsis economidisi

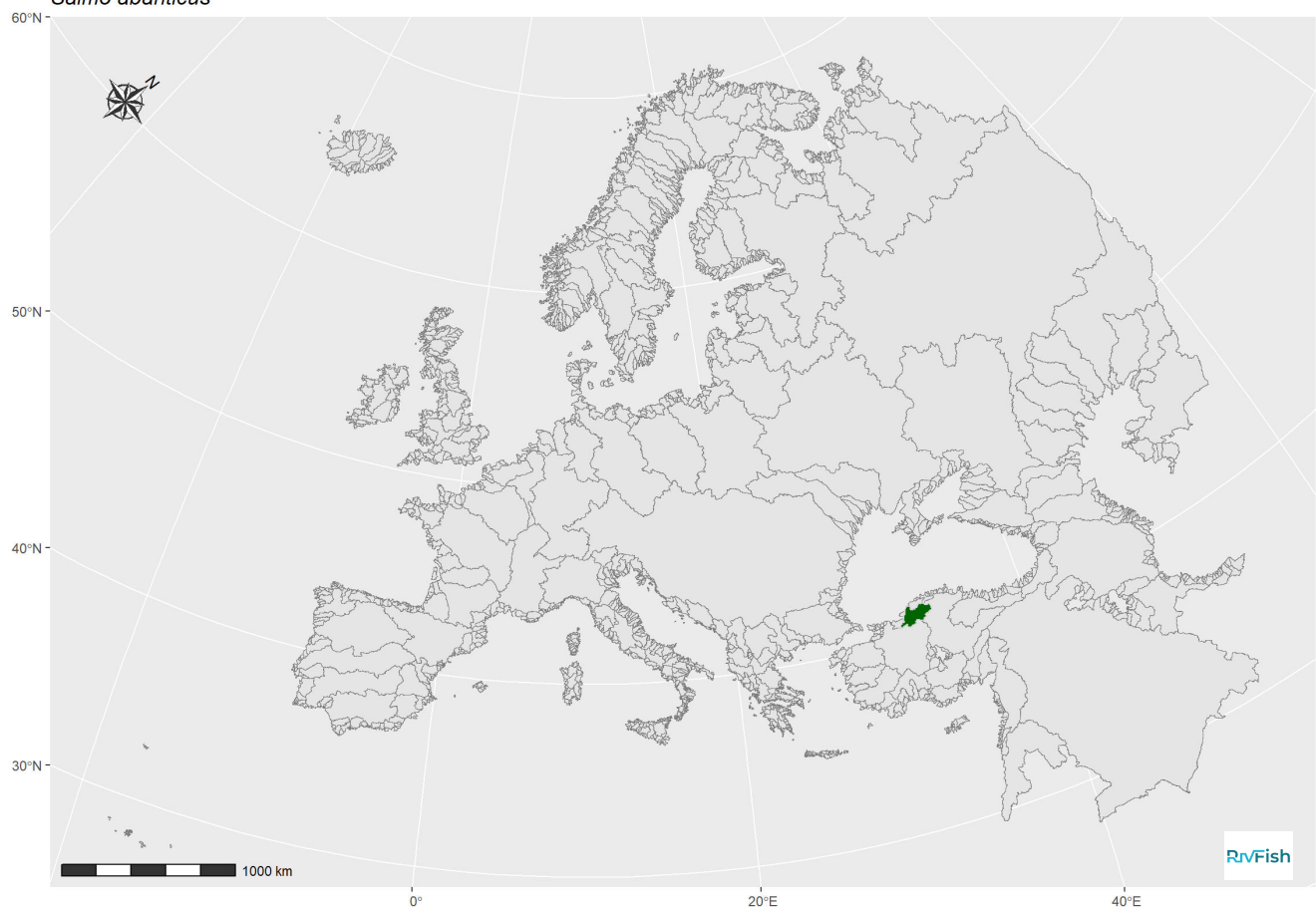


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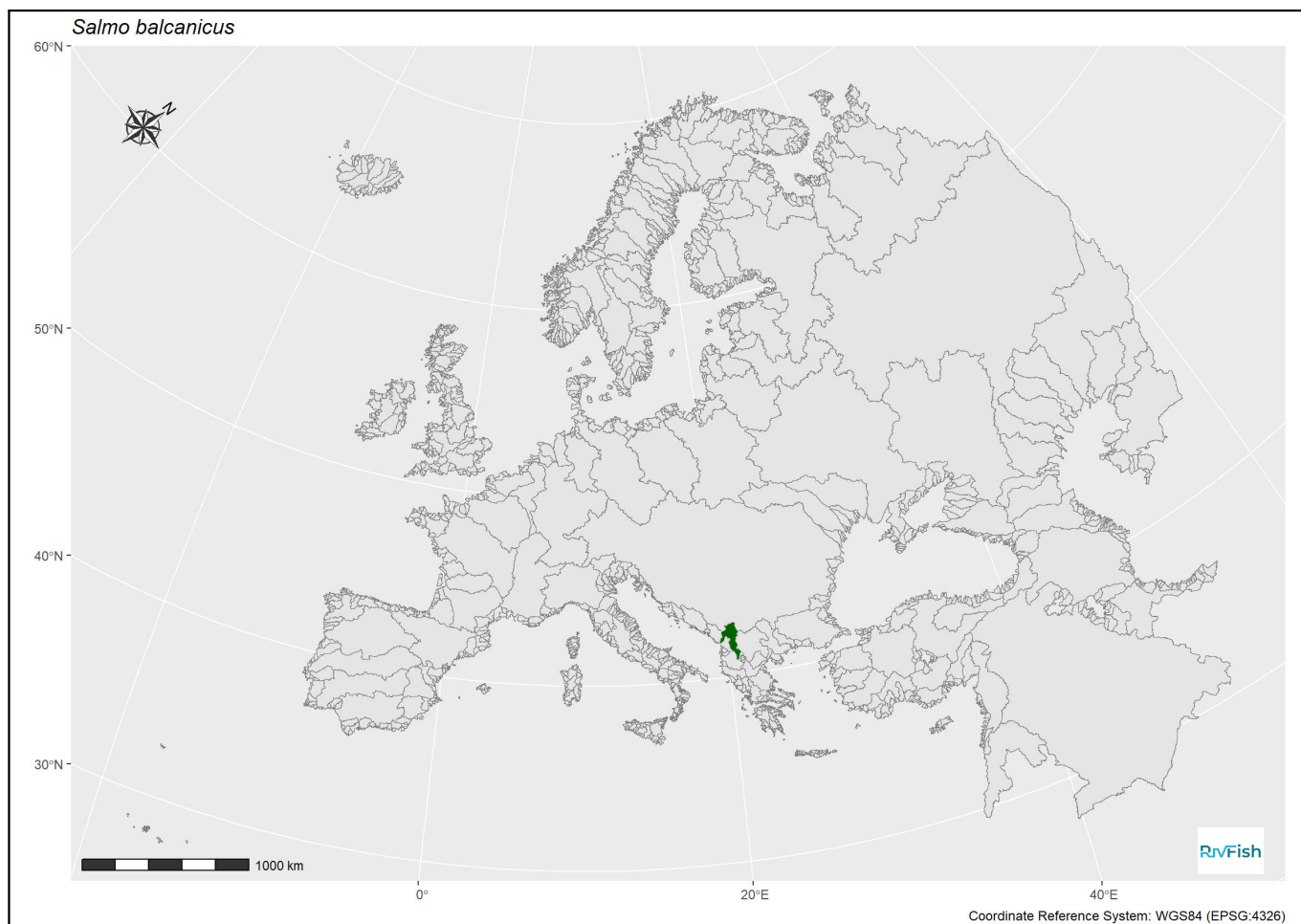
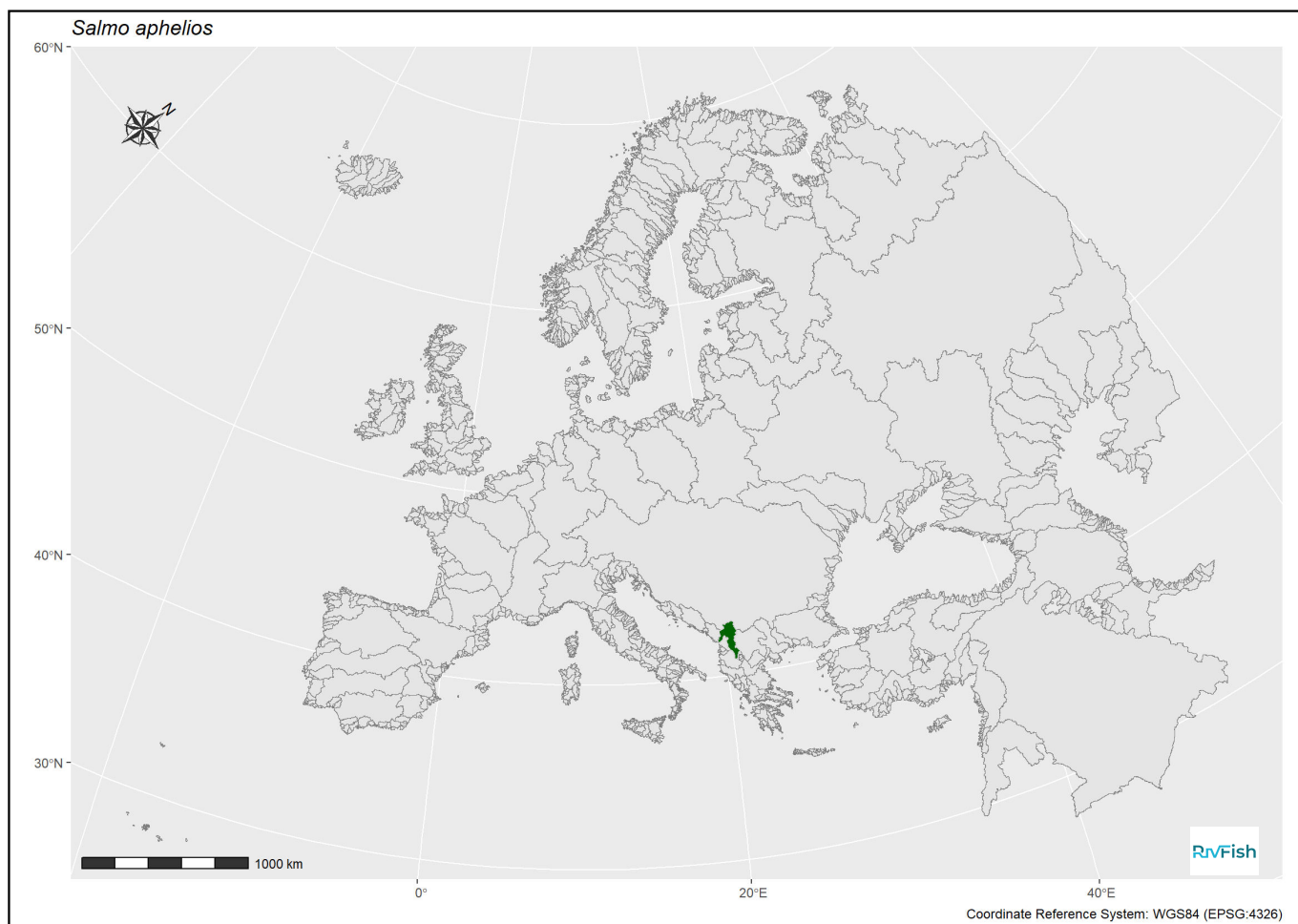


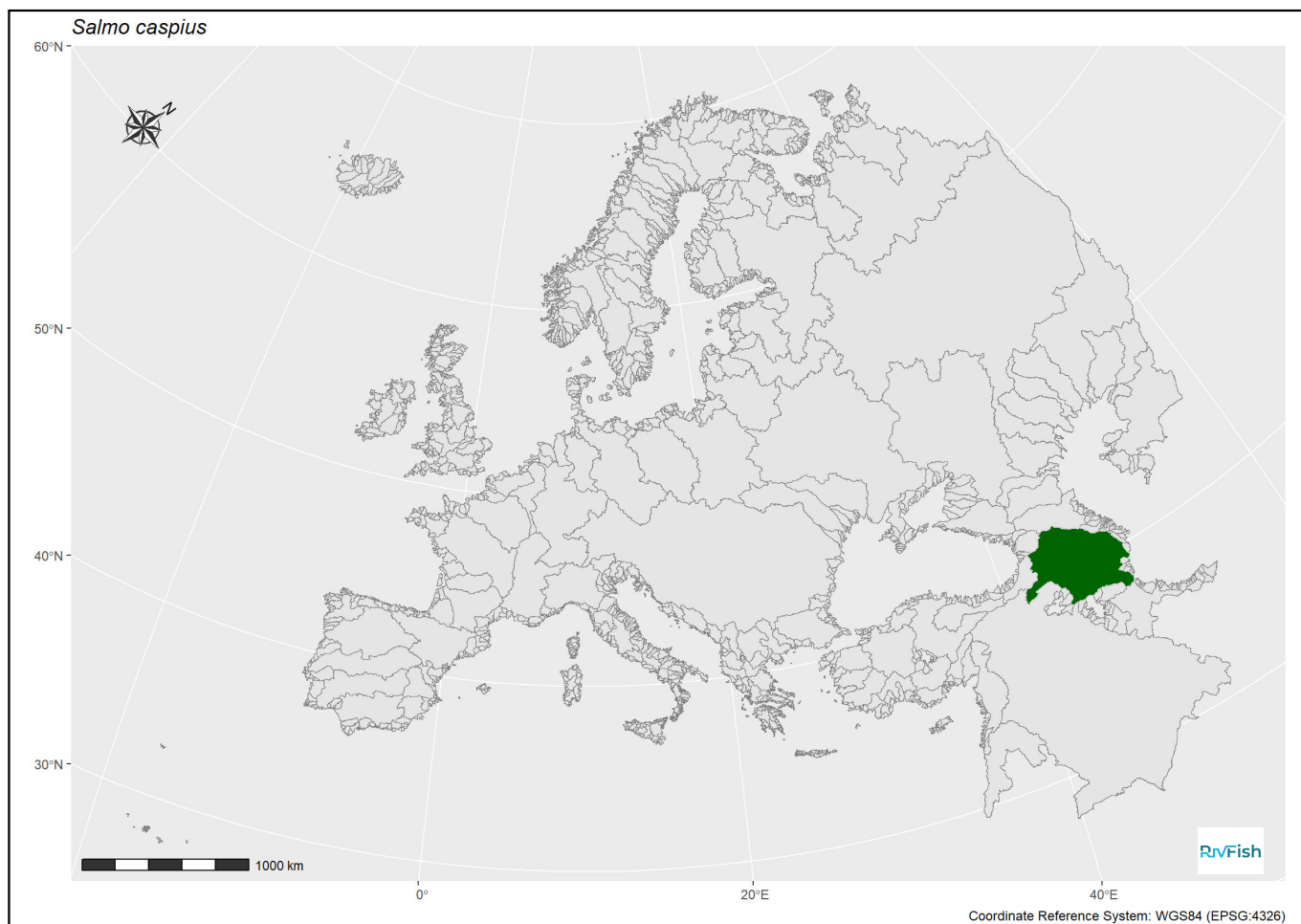
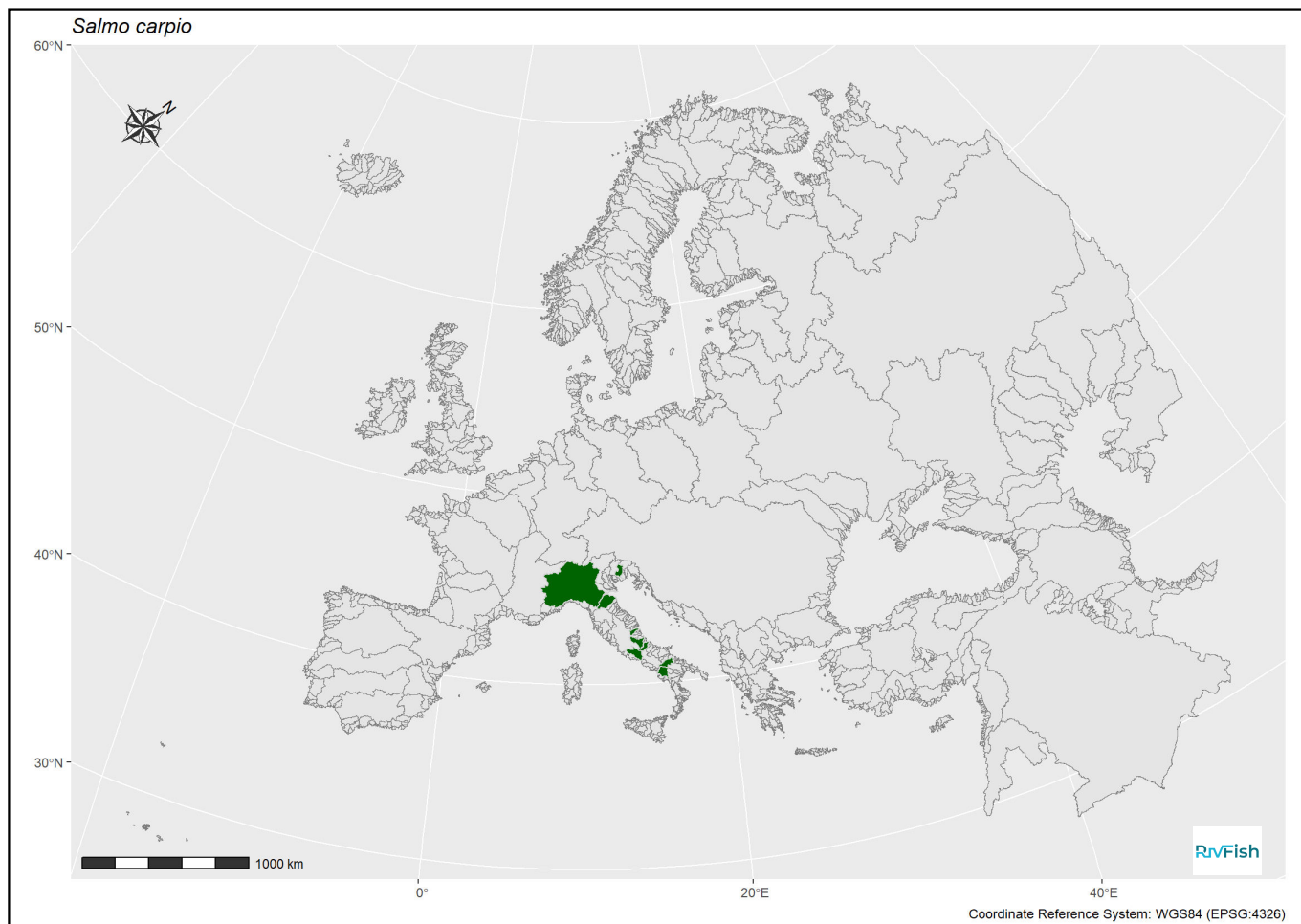
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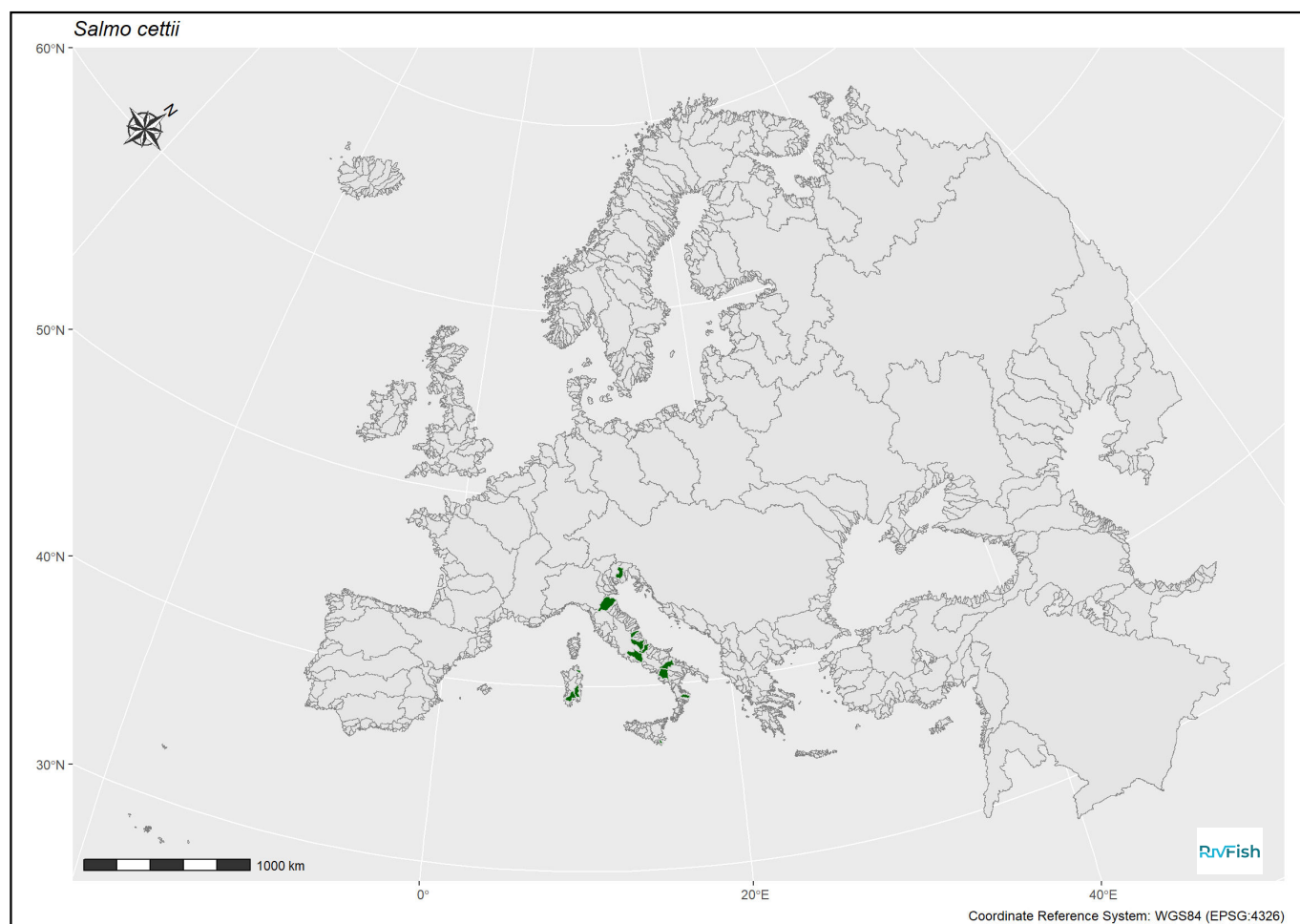
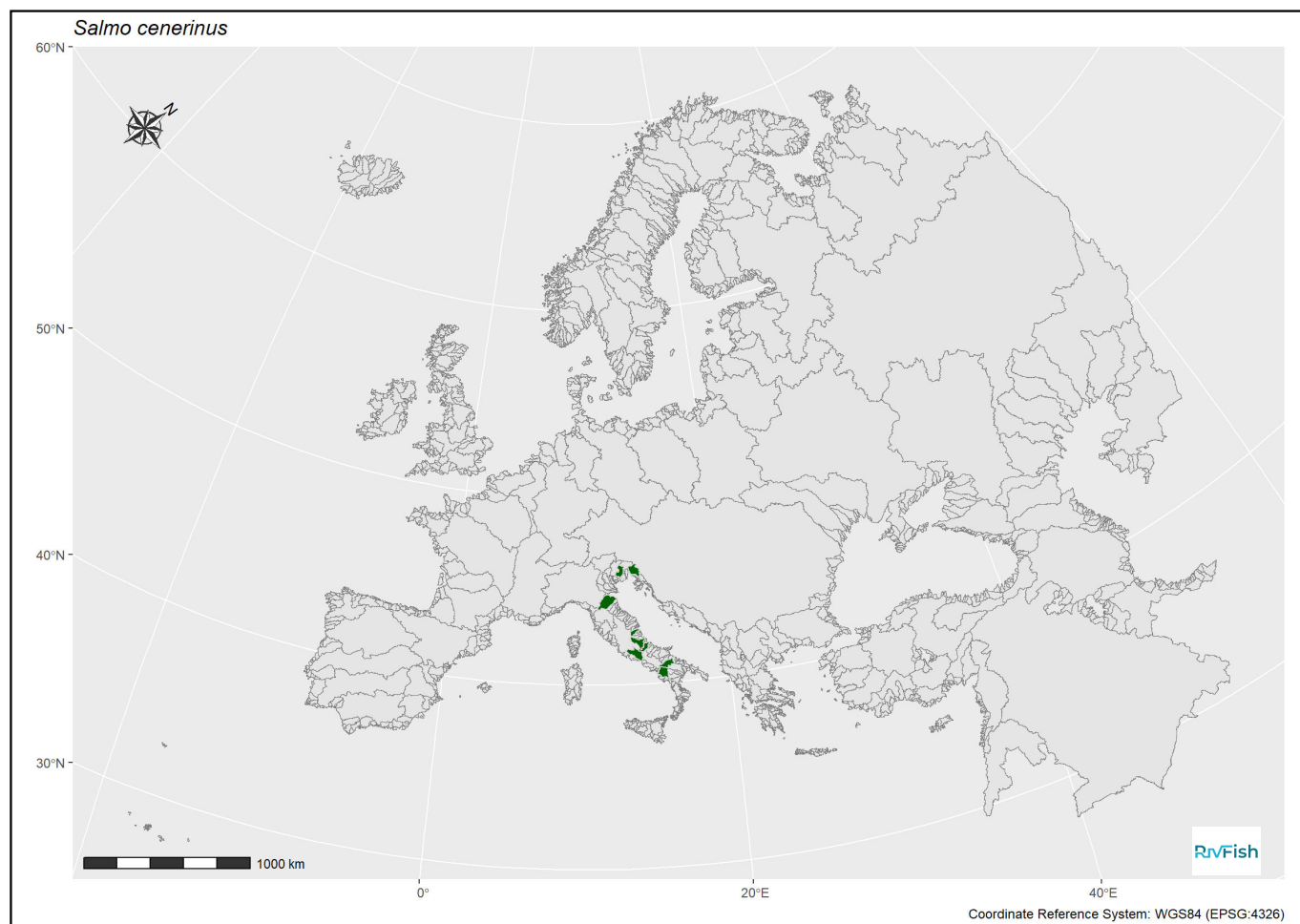
Salmo abanticus

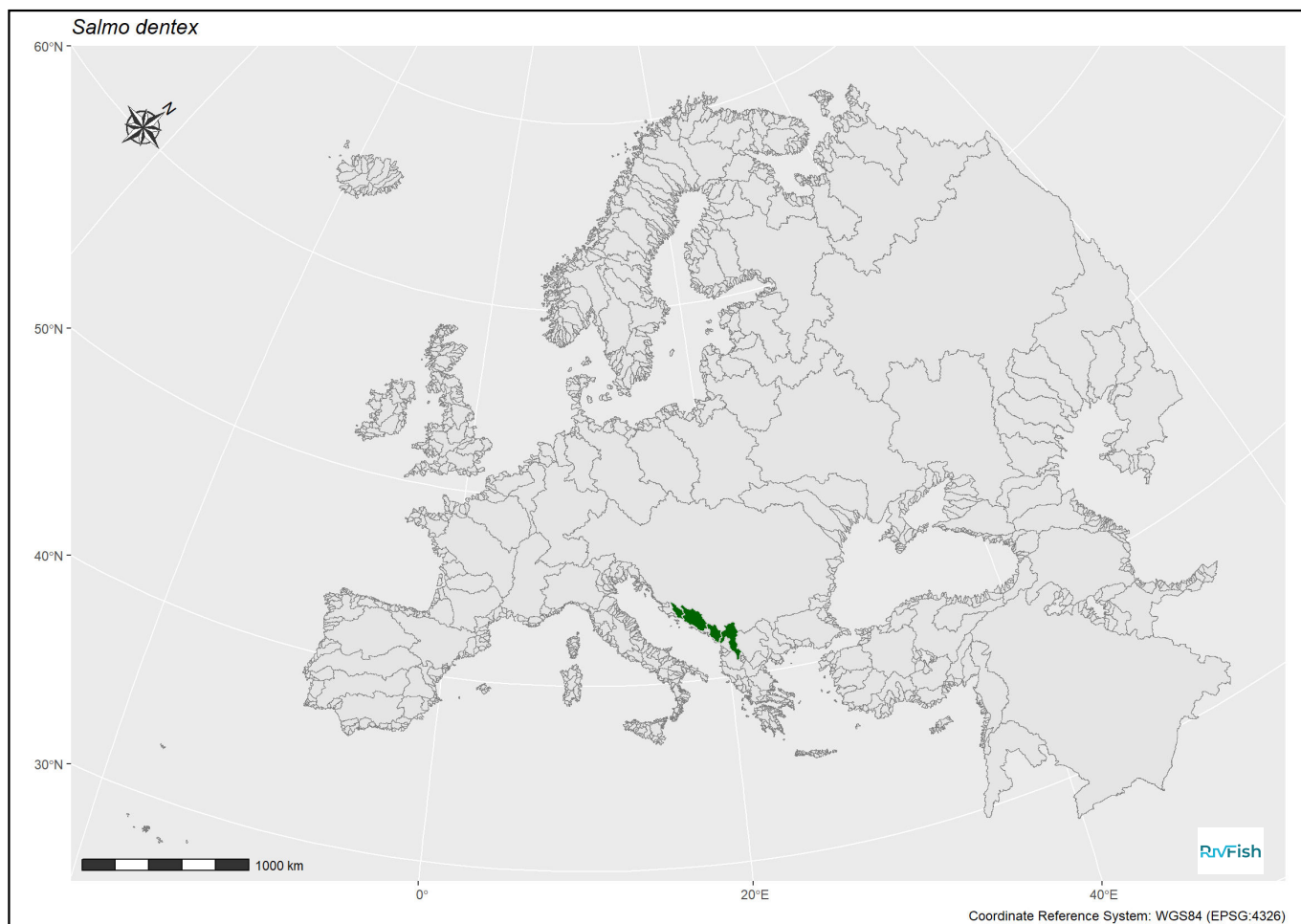
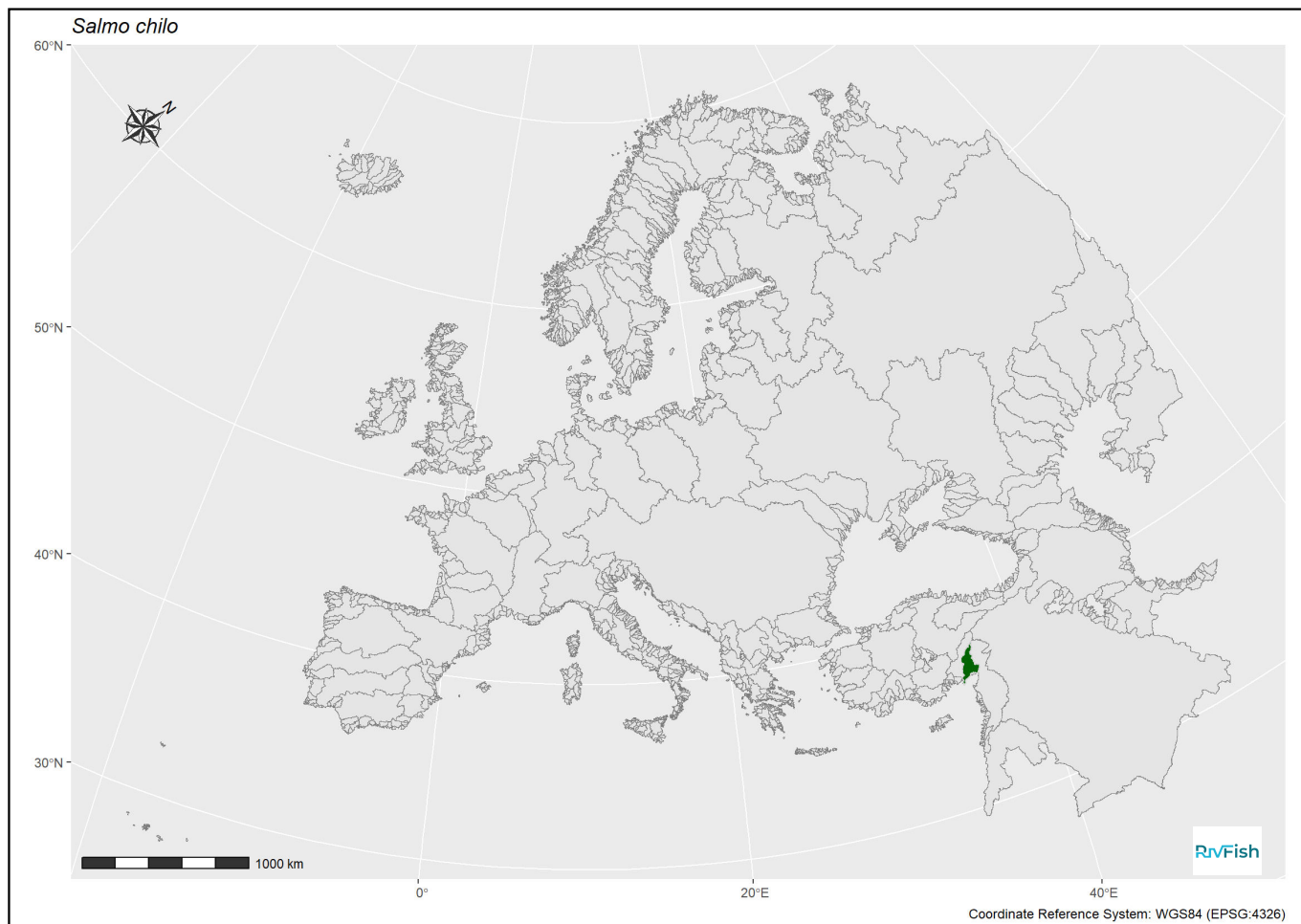


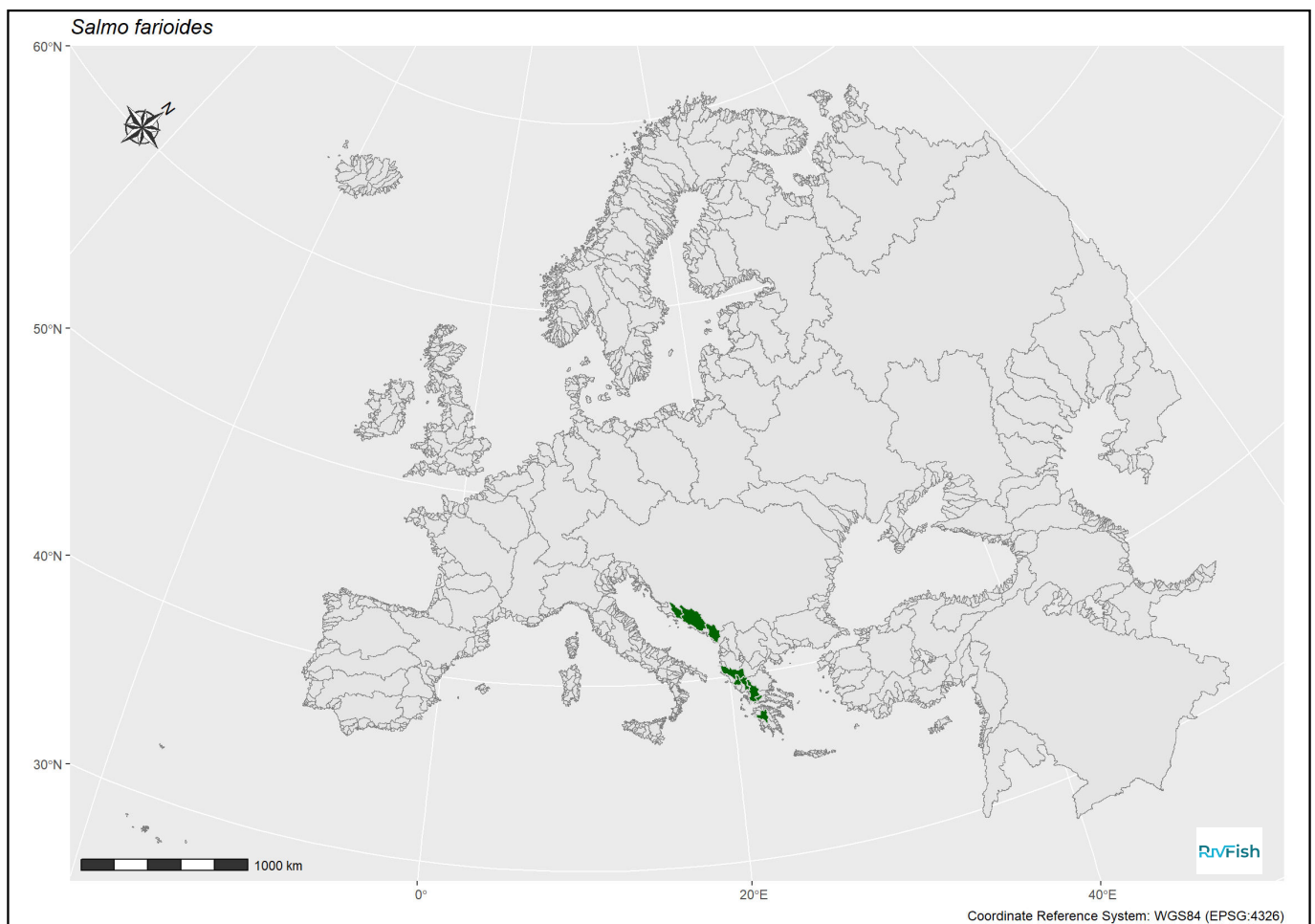
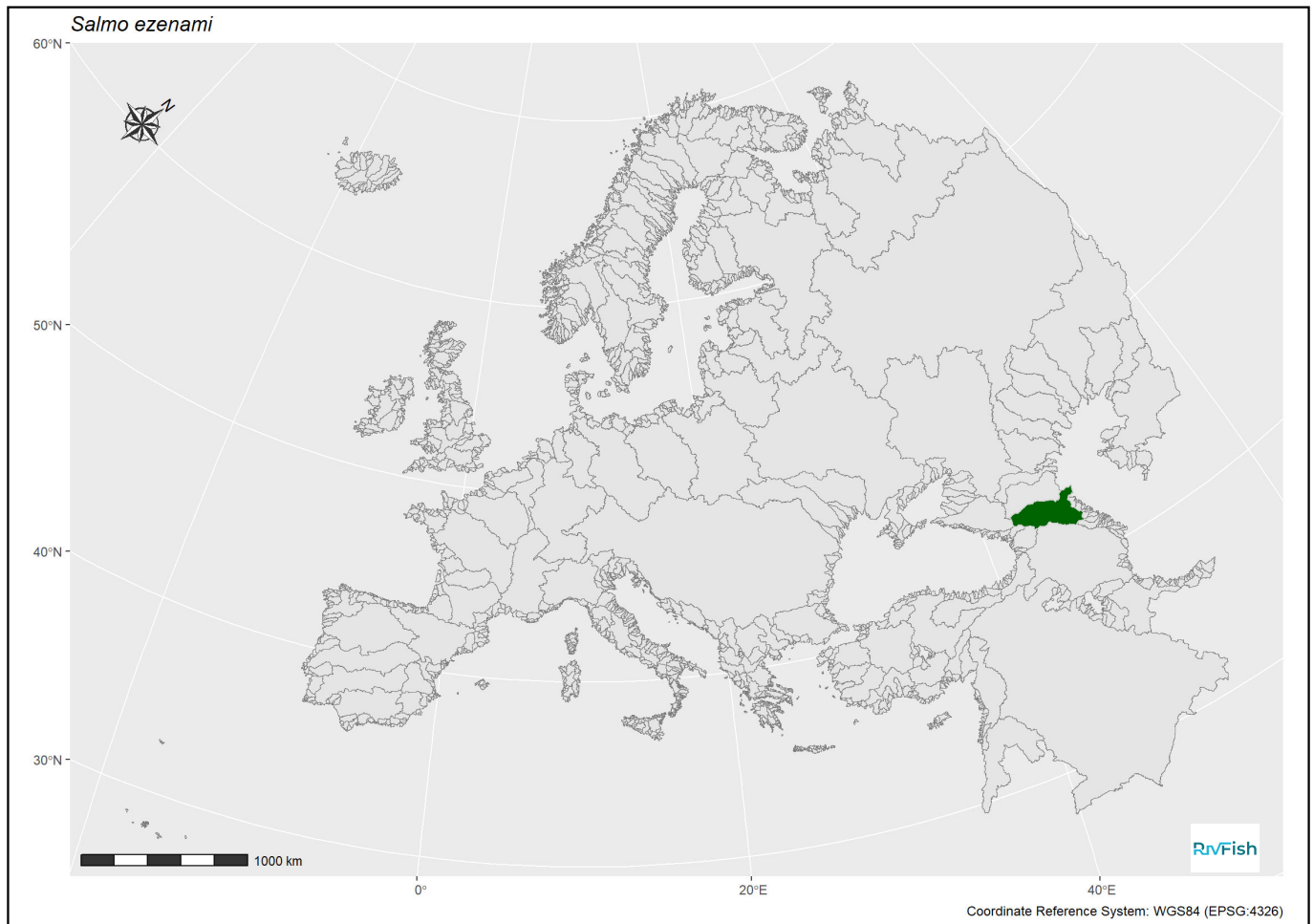
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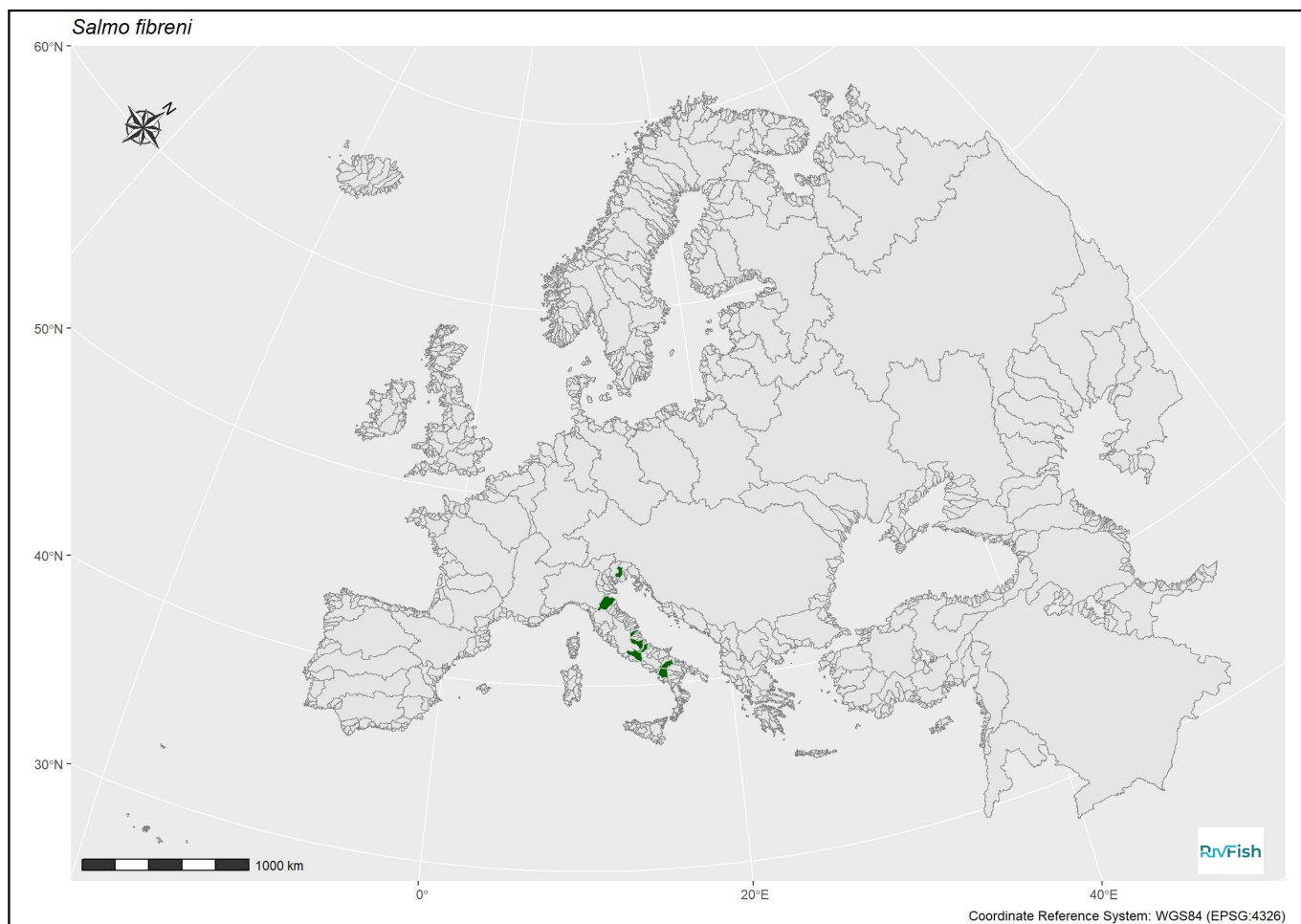
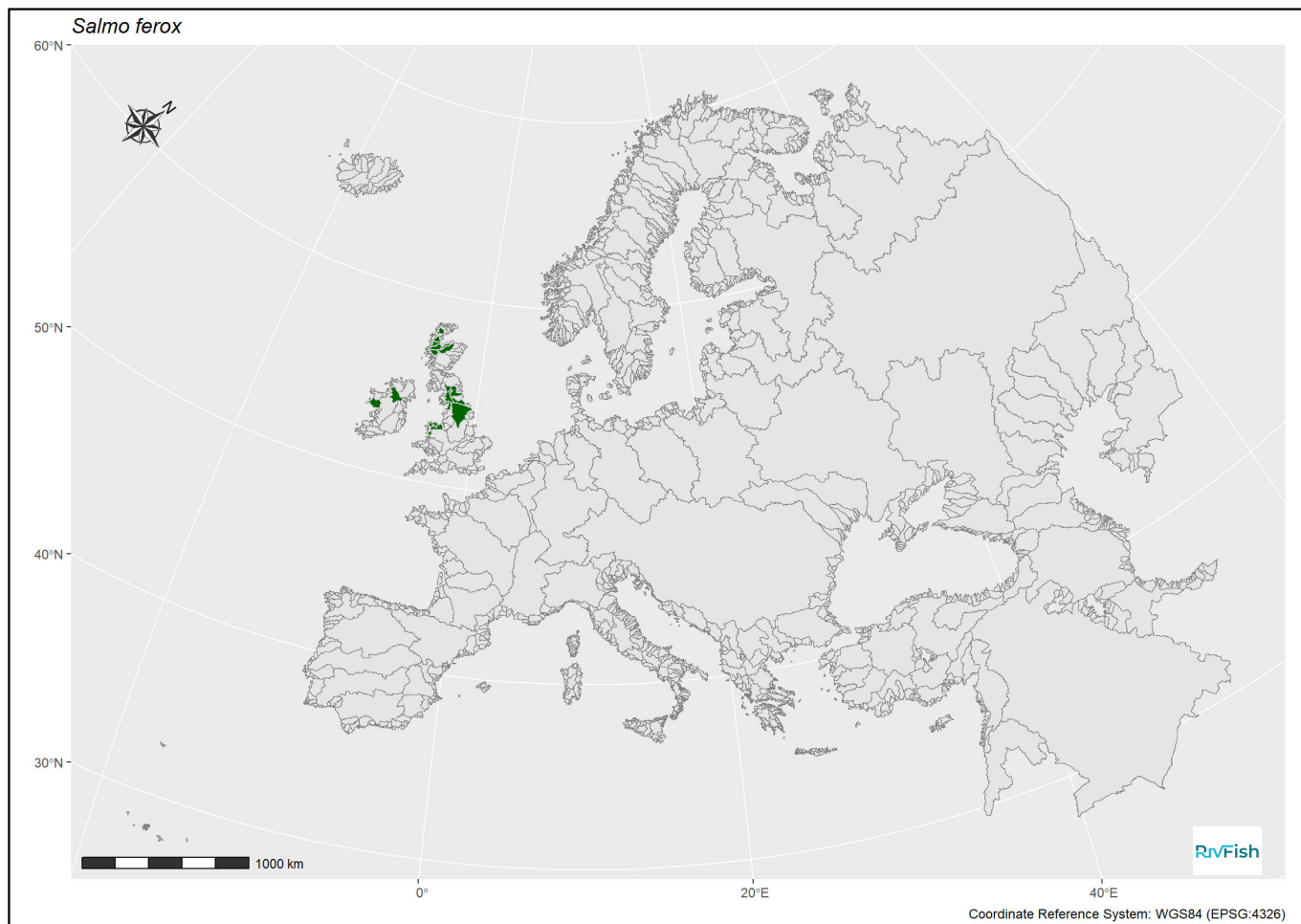


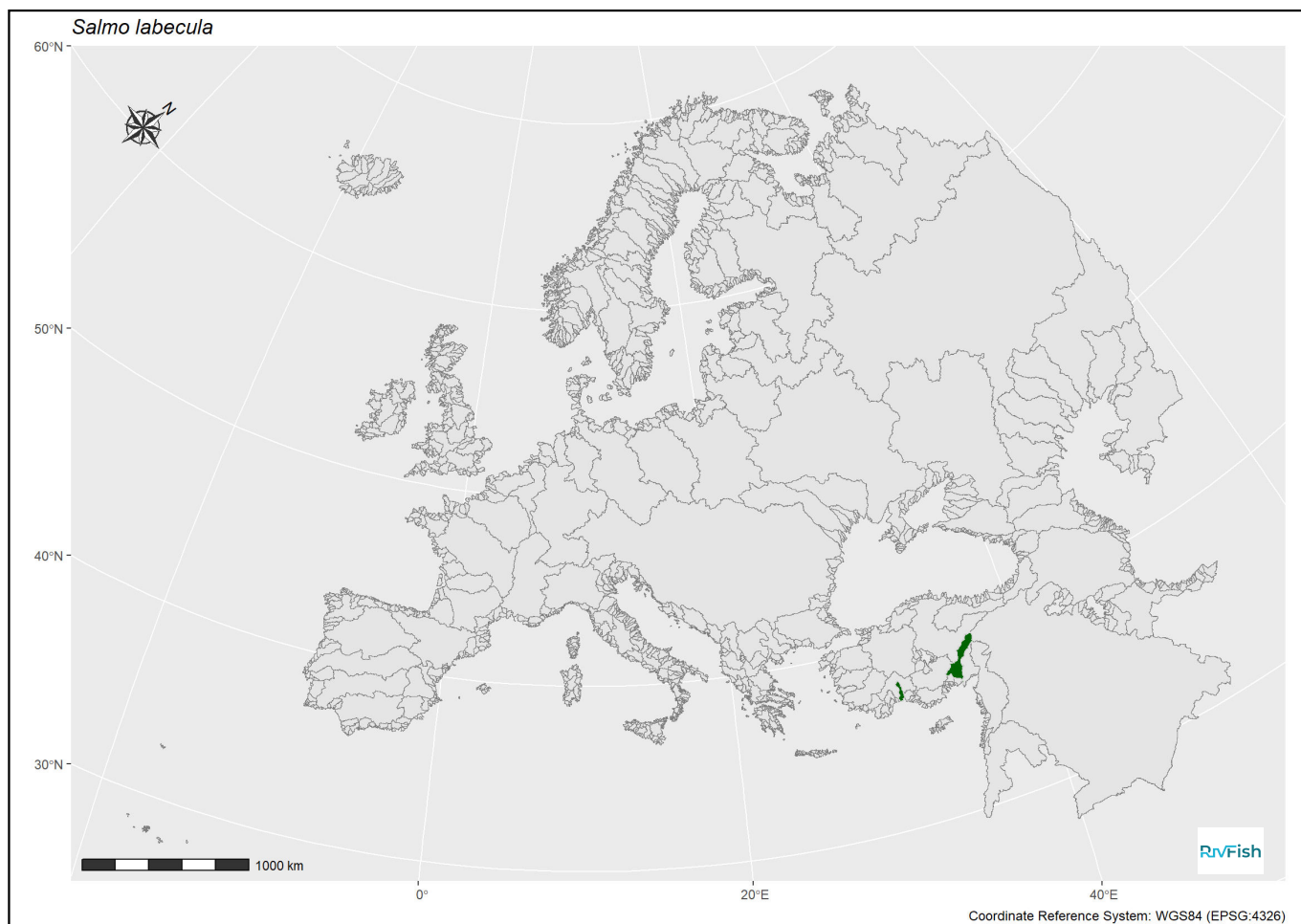
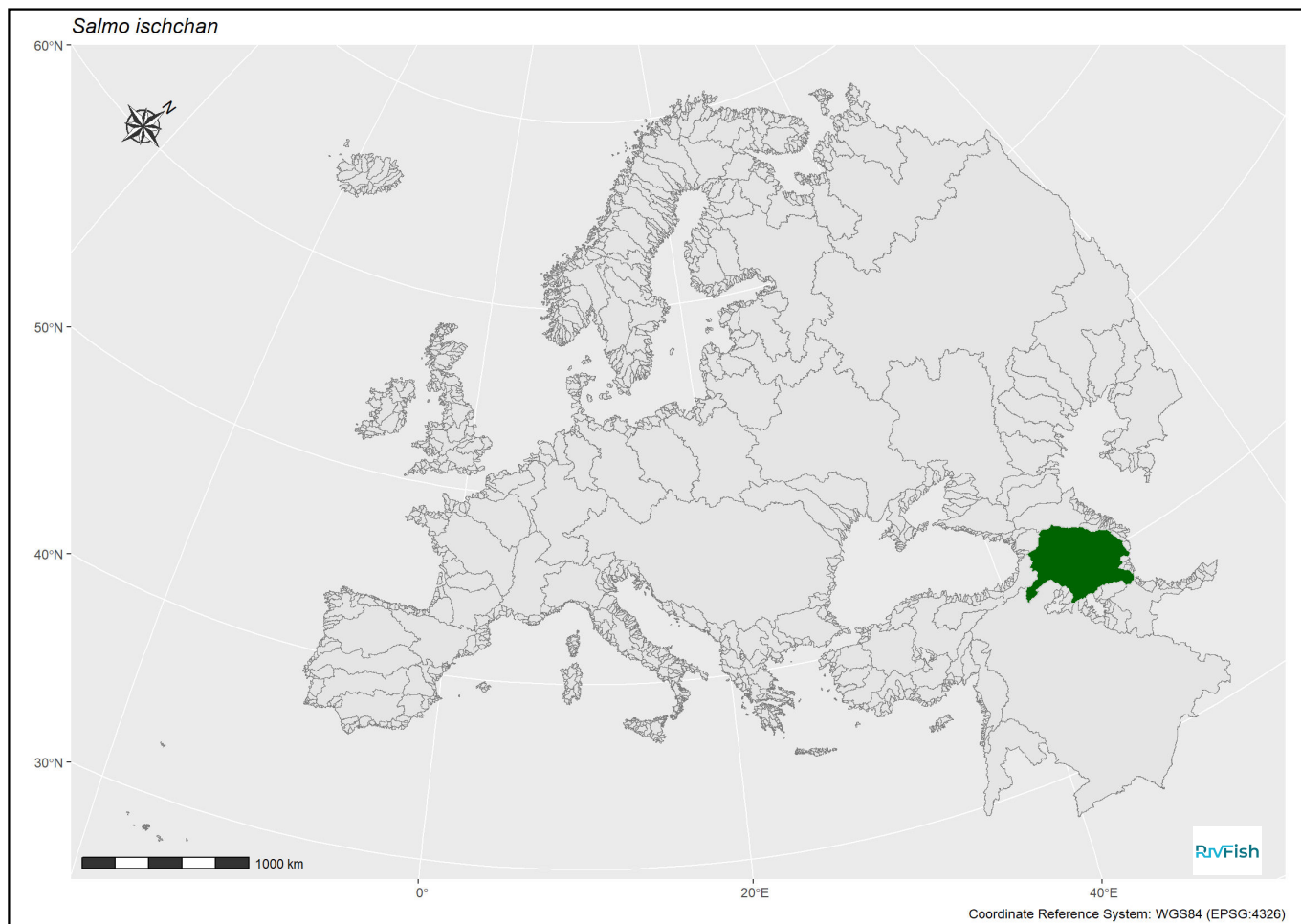


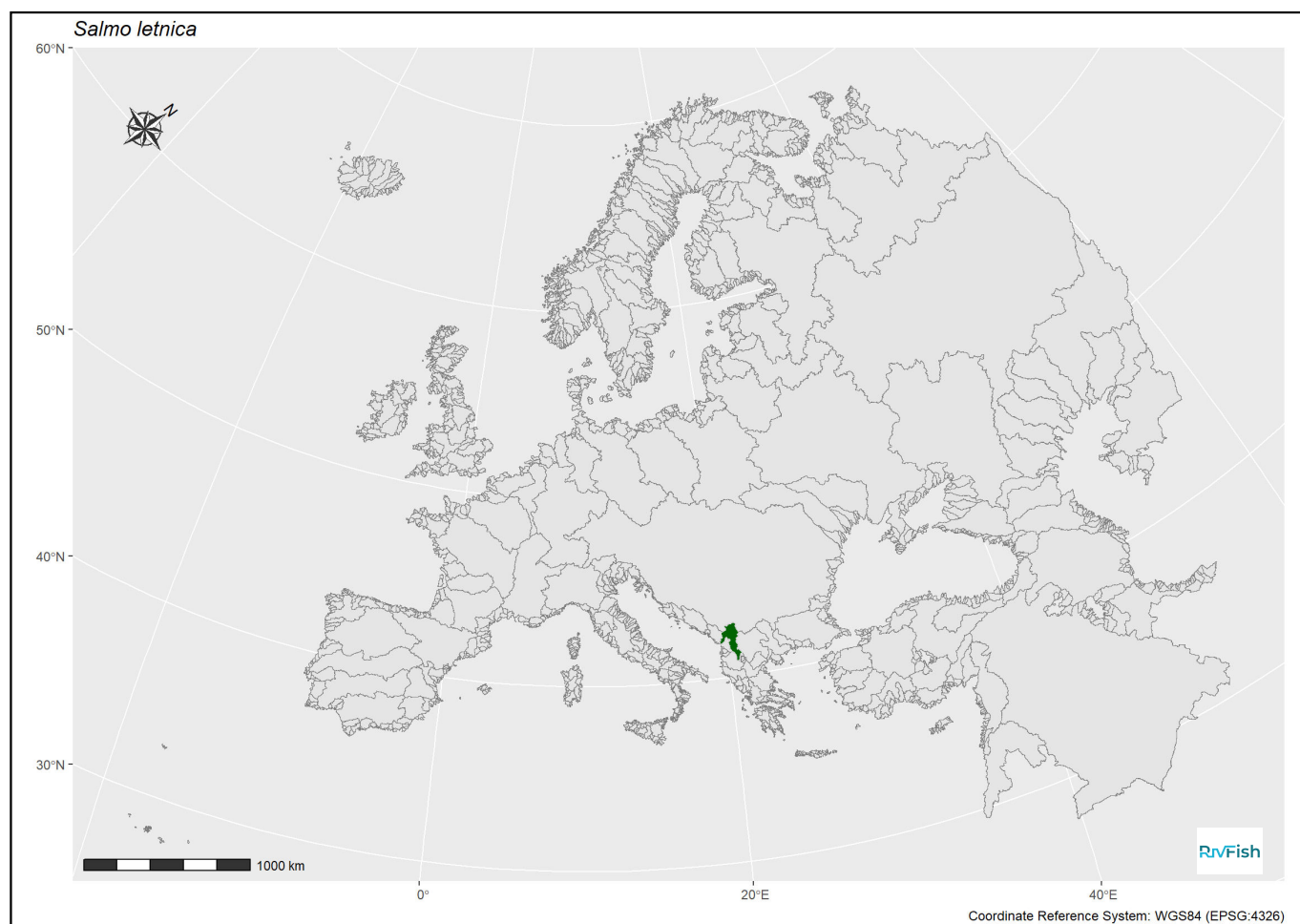
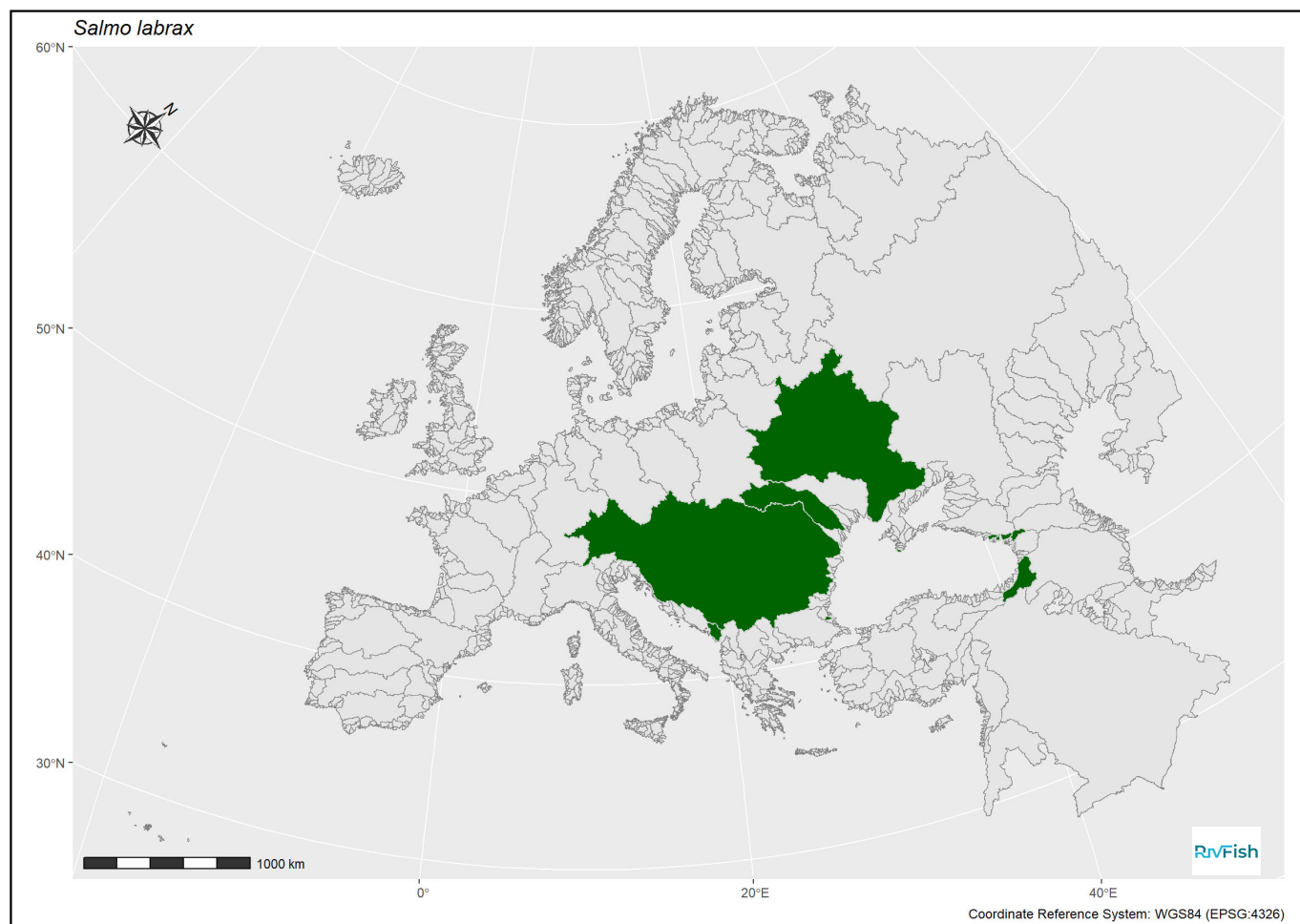








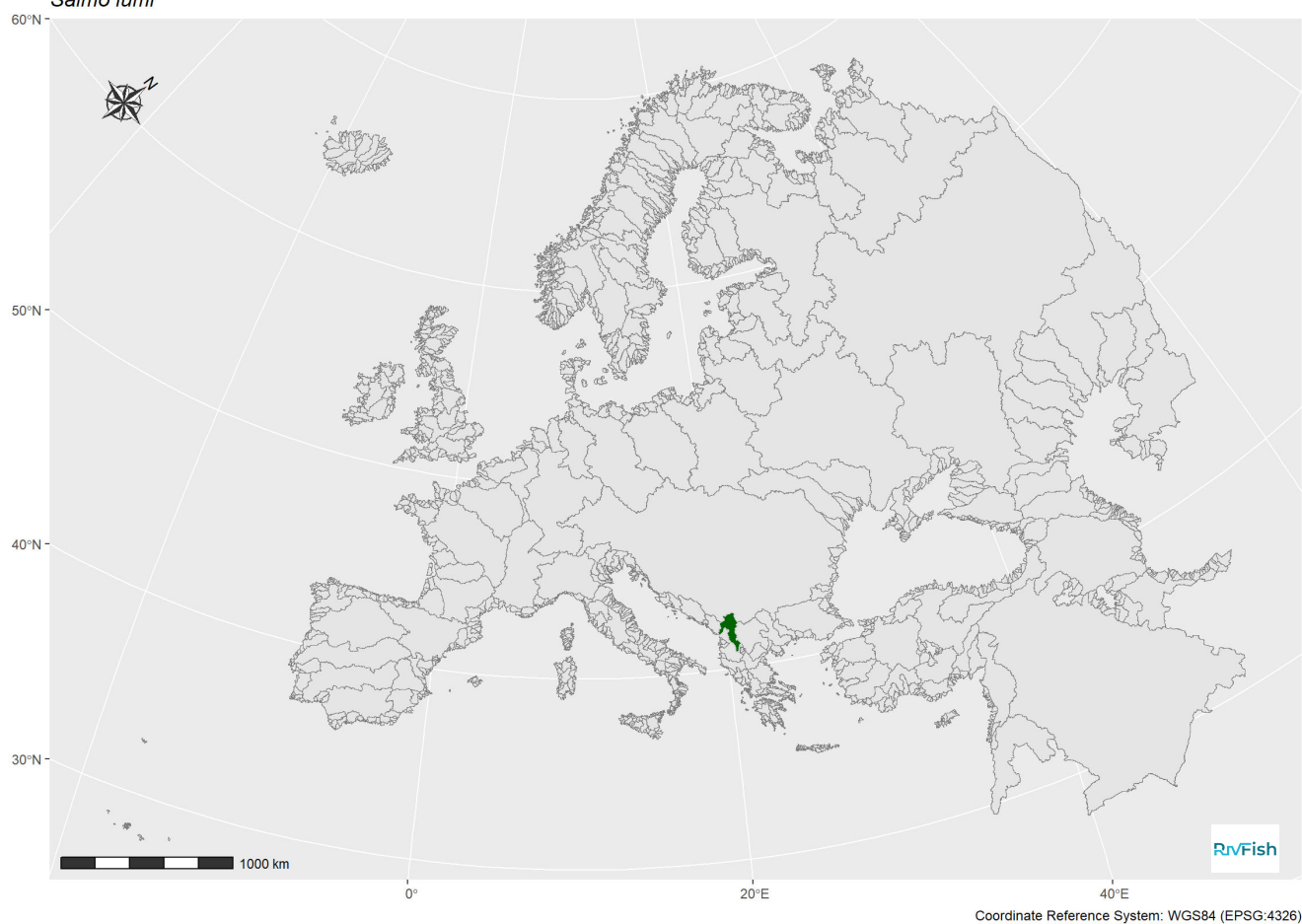




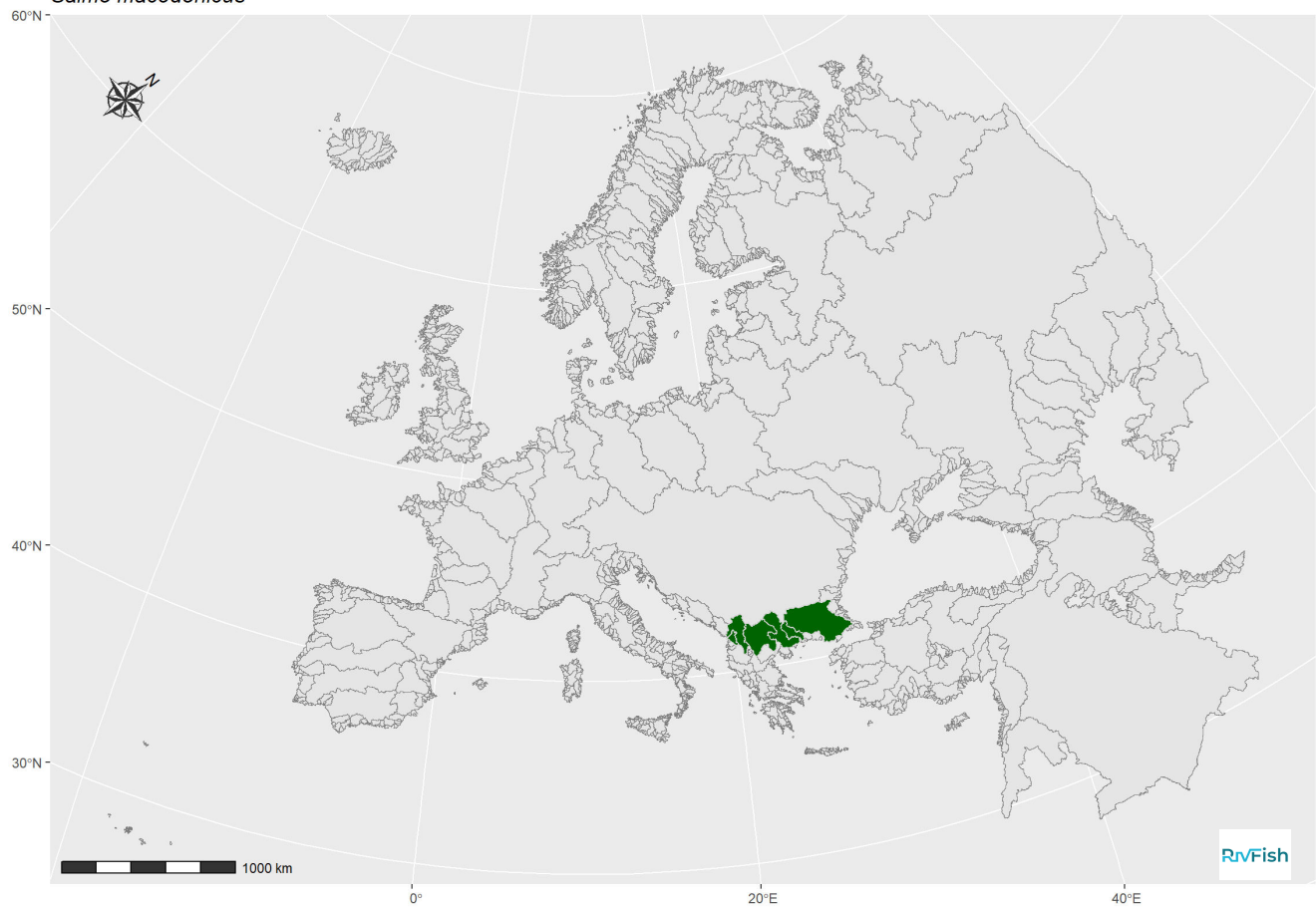
Salmo lourosensis



Salmo lumi

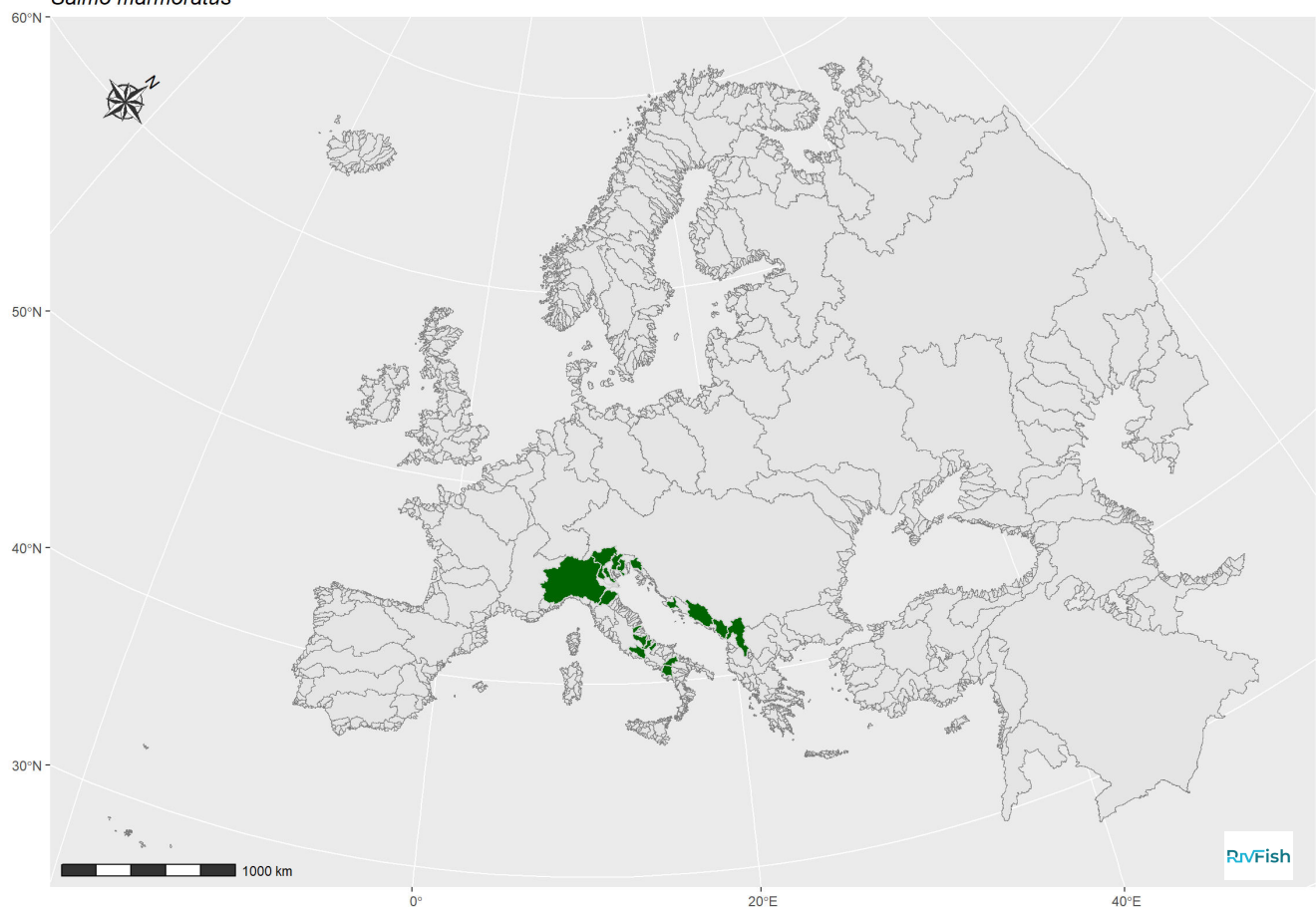


Salmo macedonicus

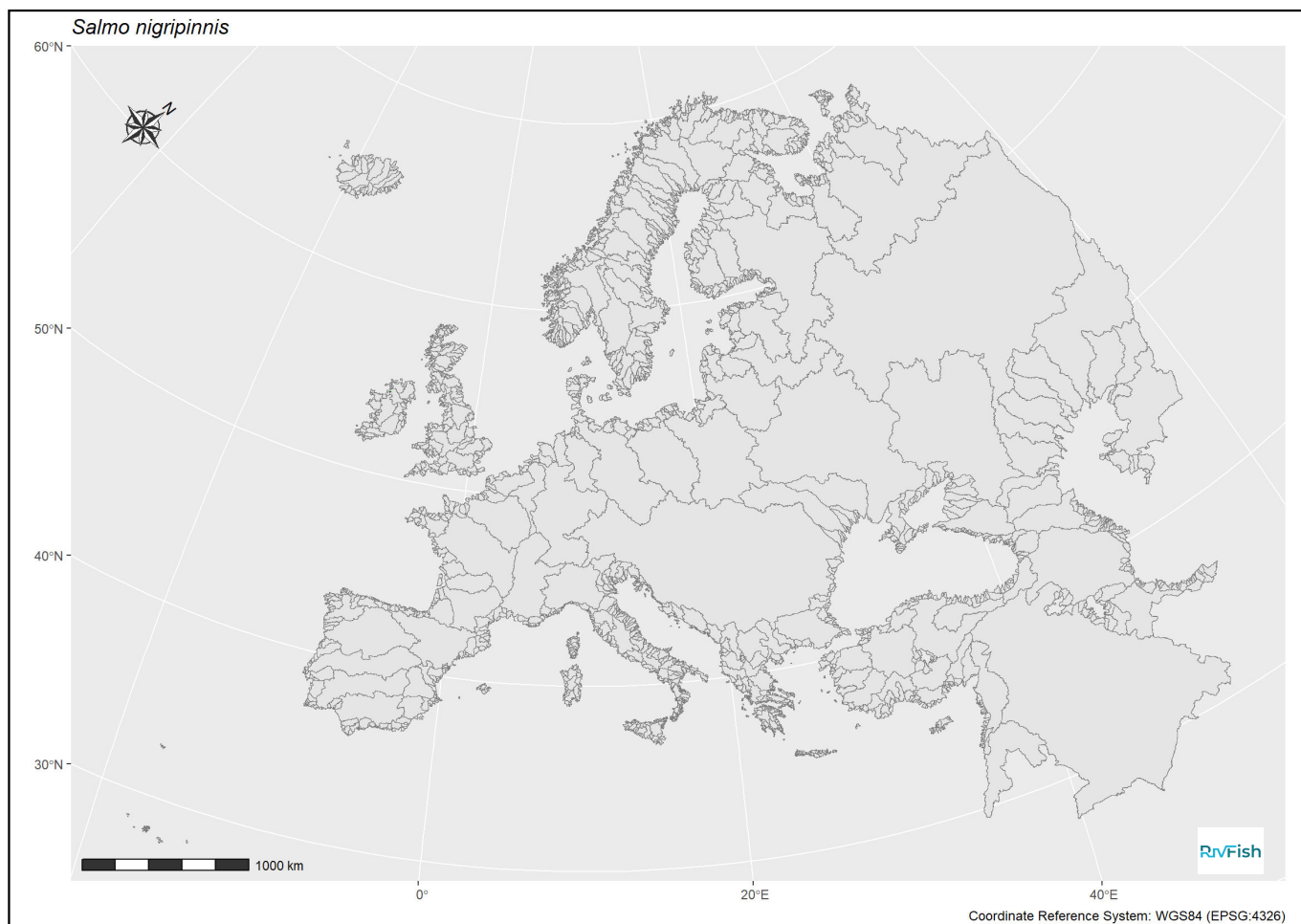
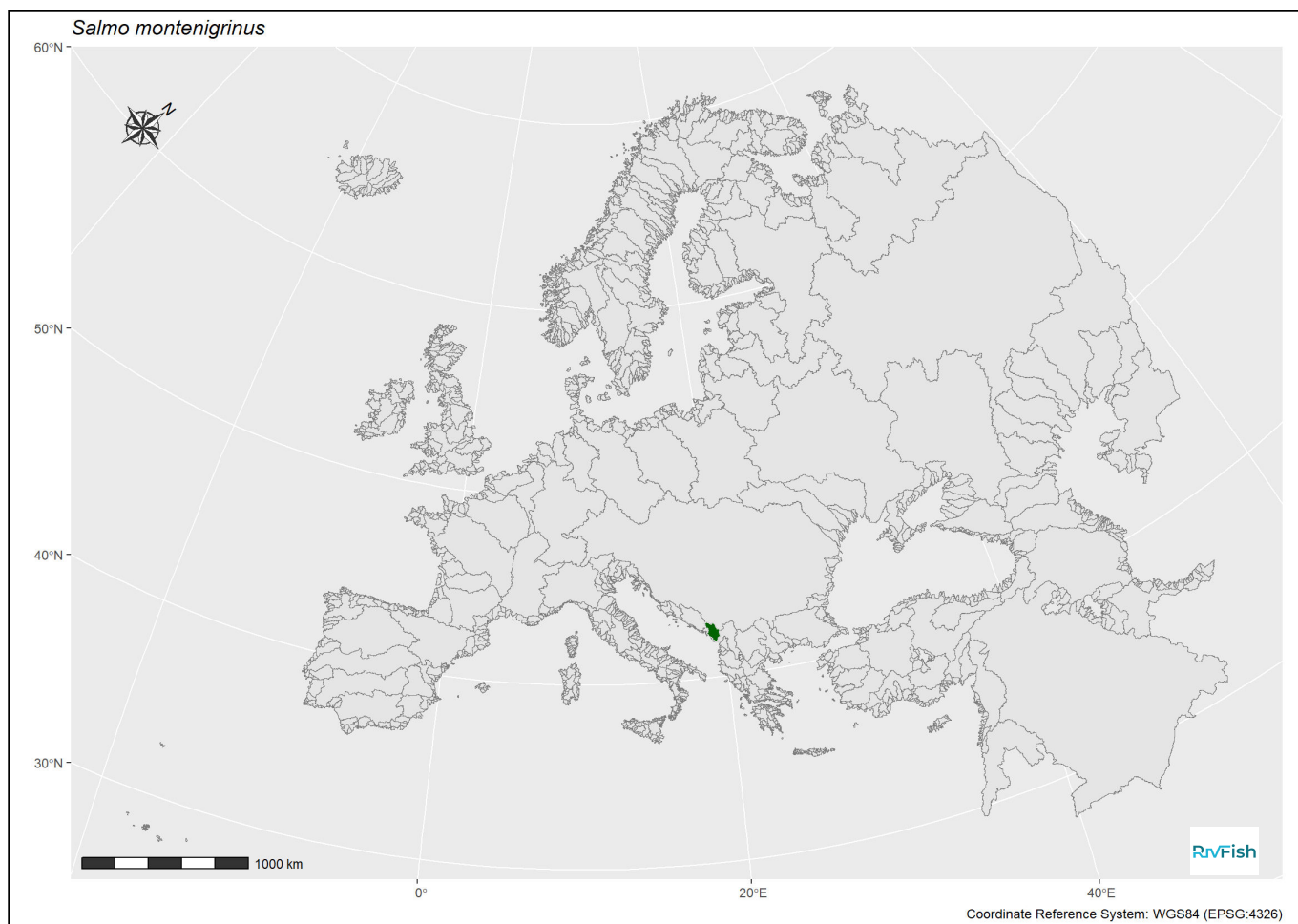


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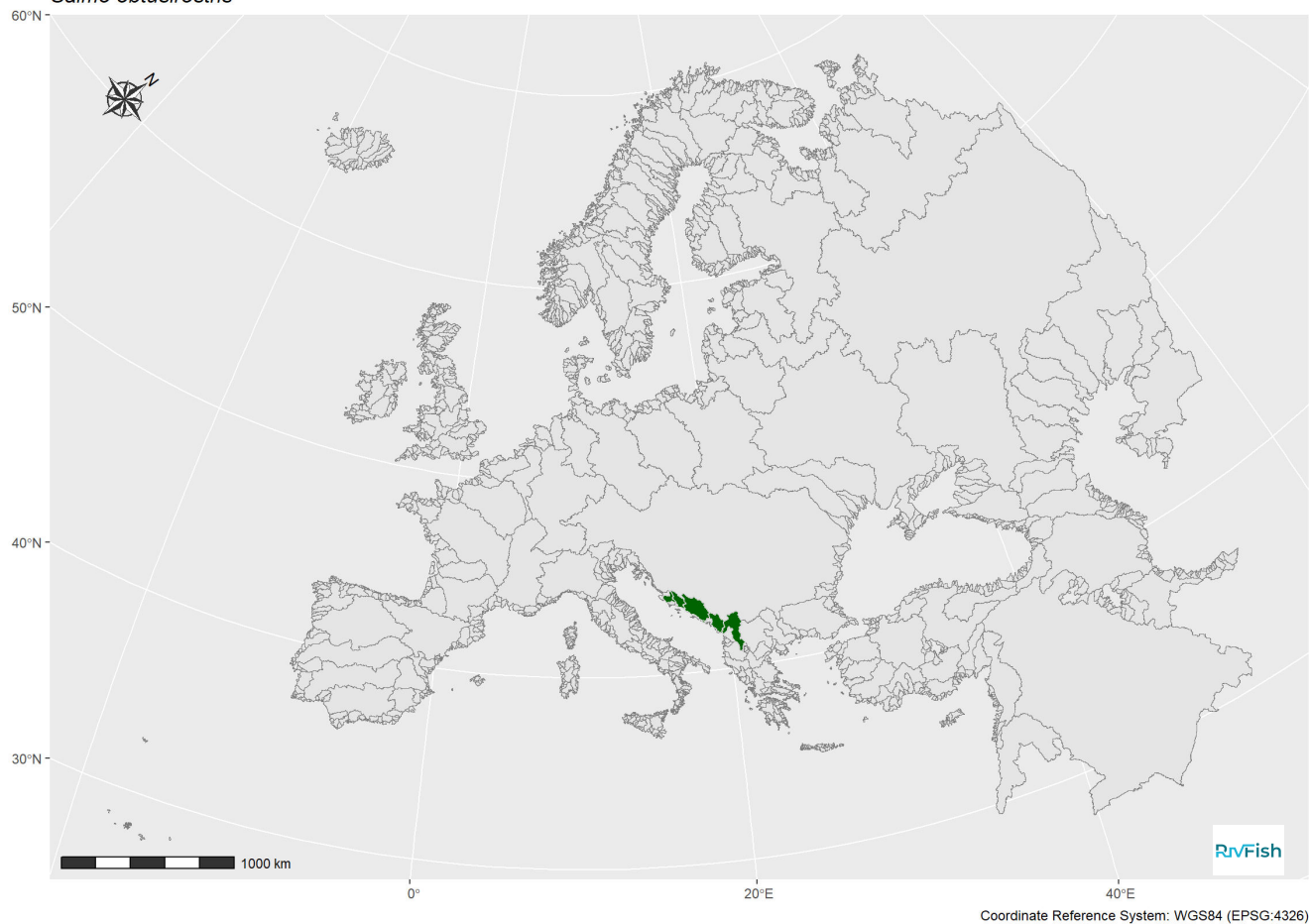
Salmo marmoratus



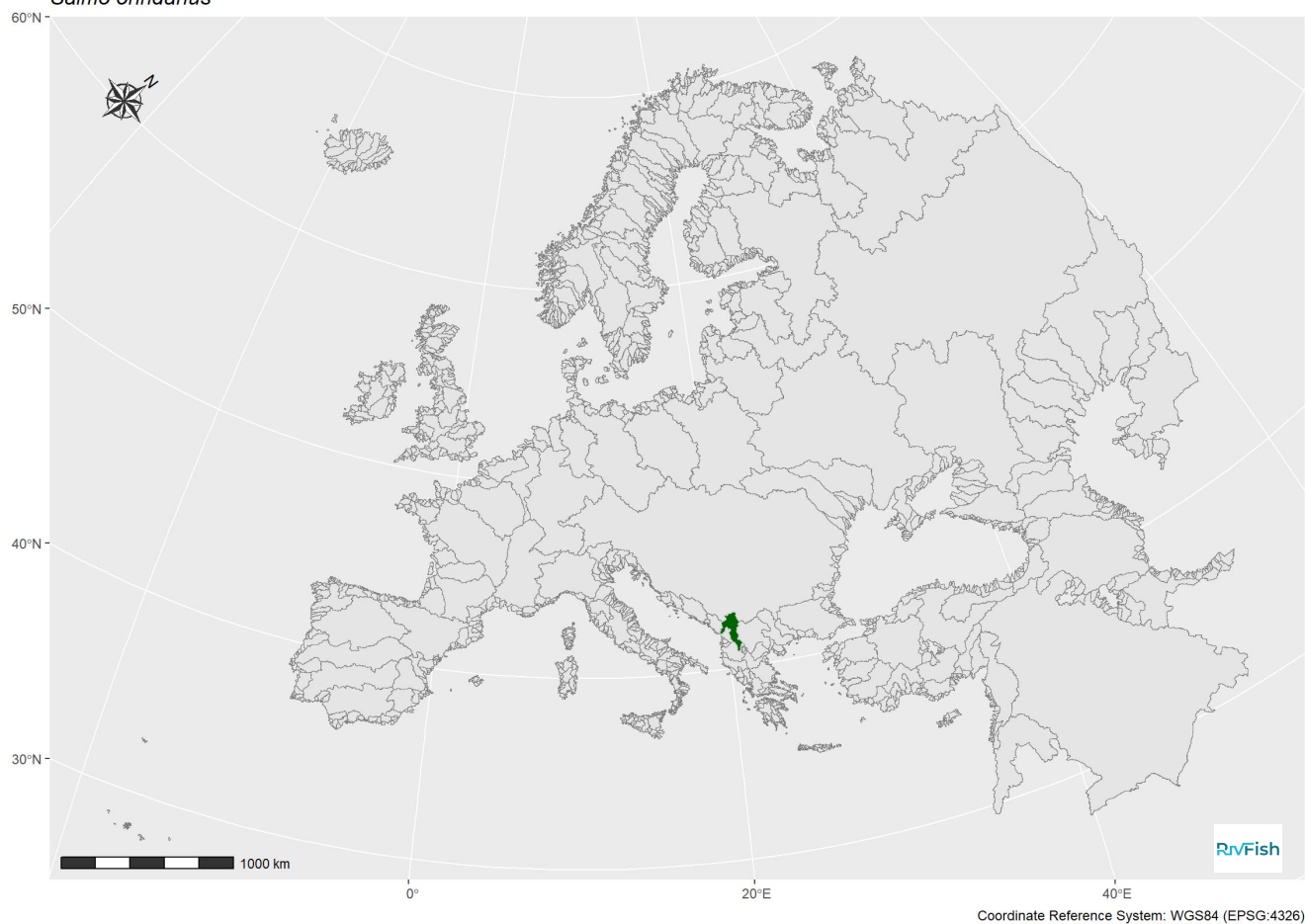
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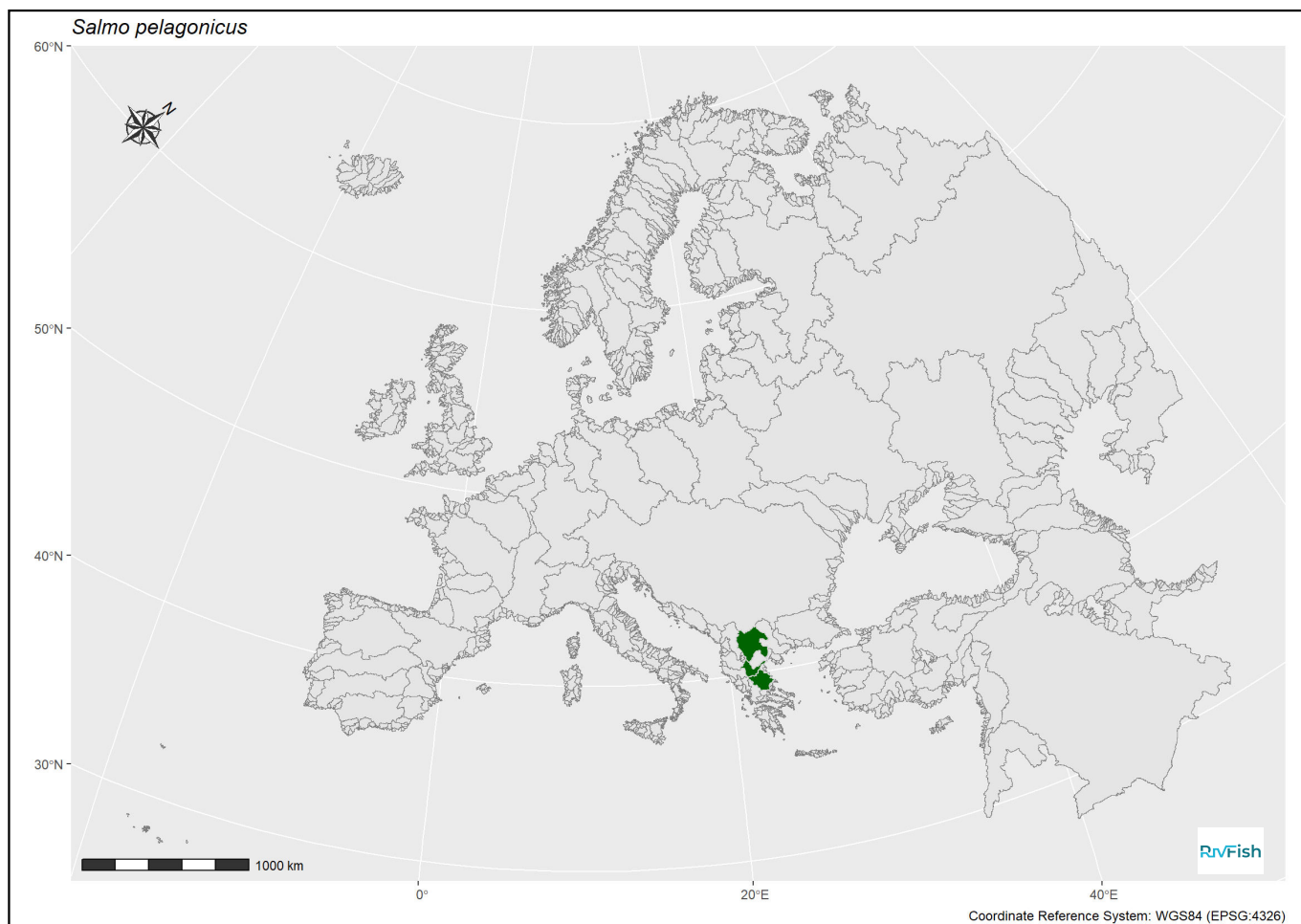
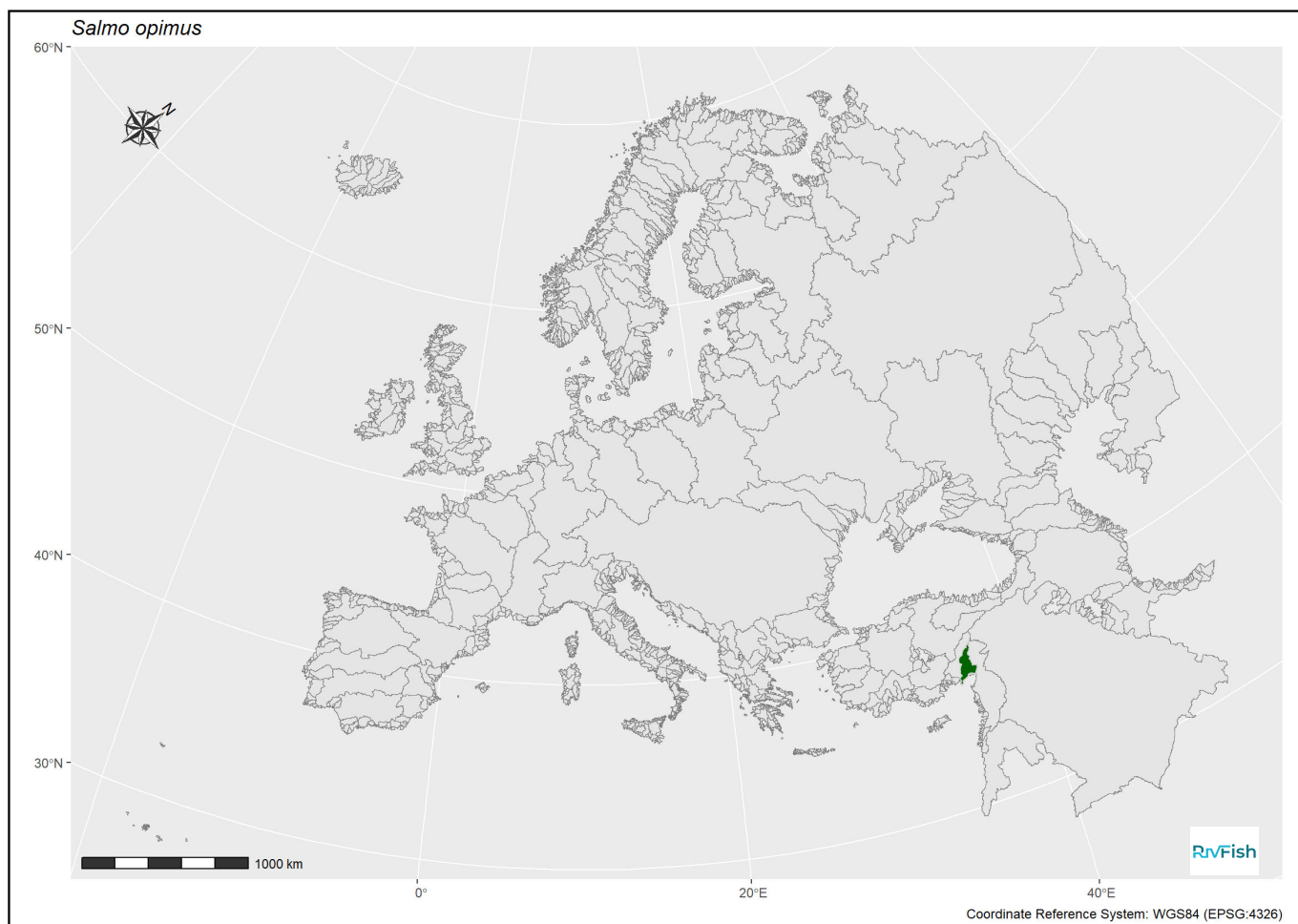


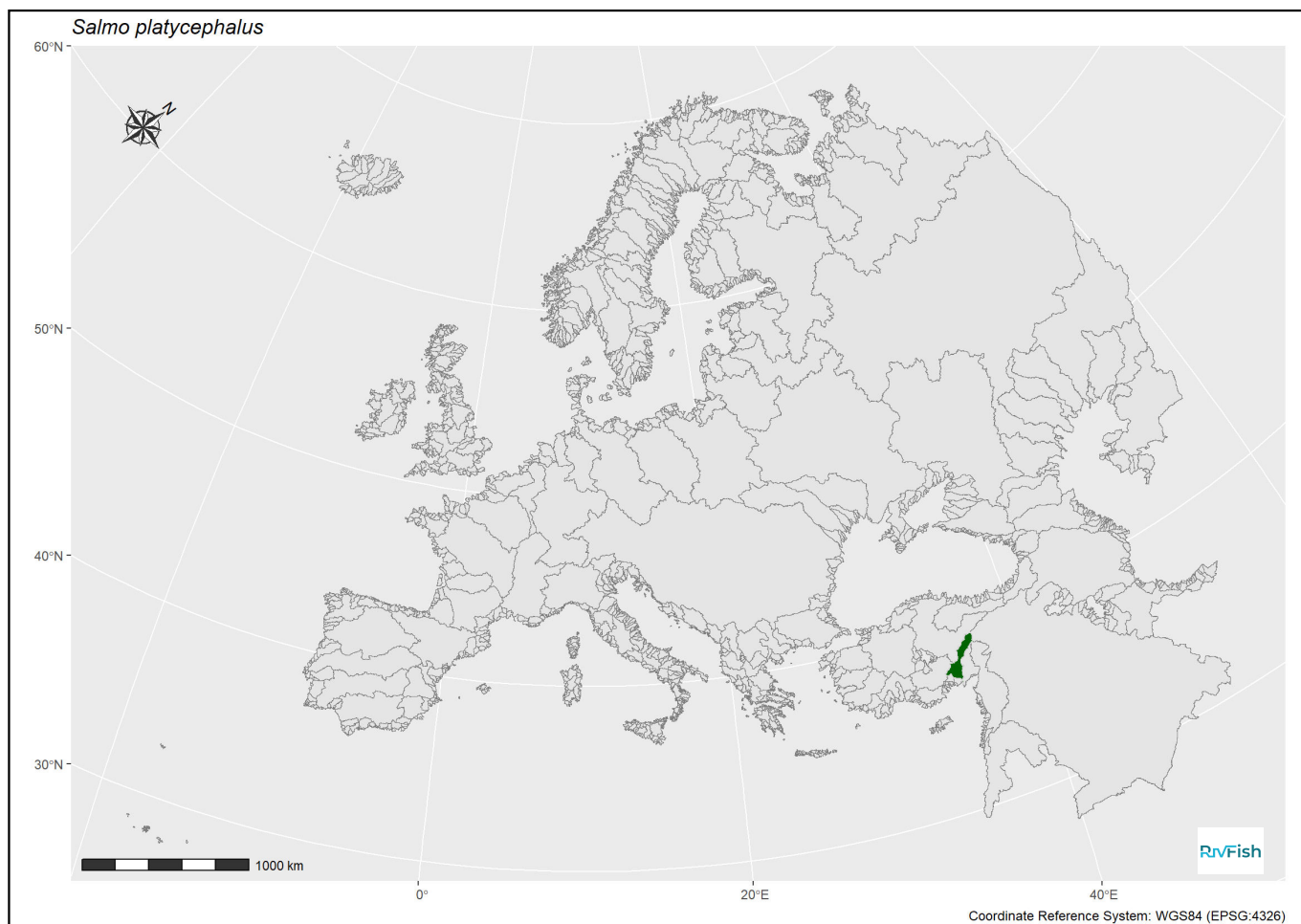
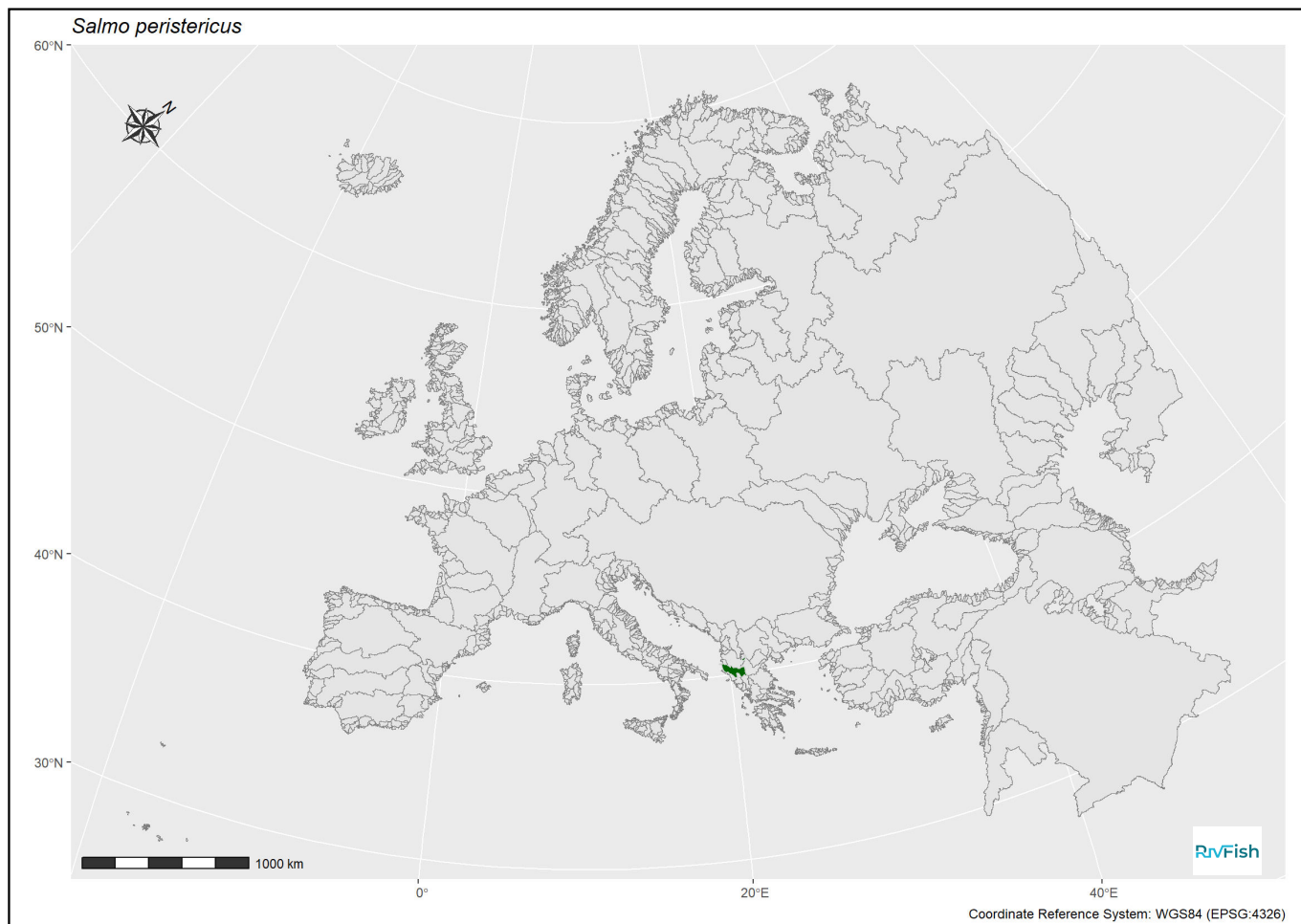
Salmo obtusirostris



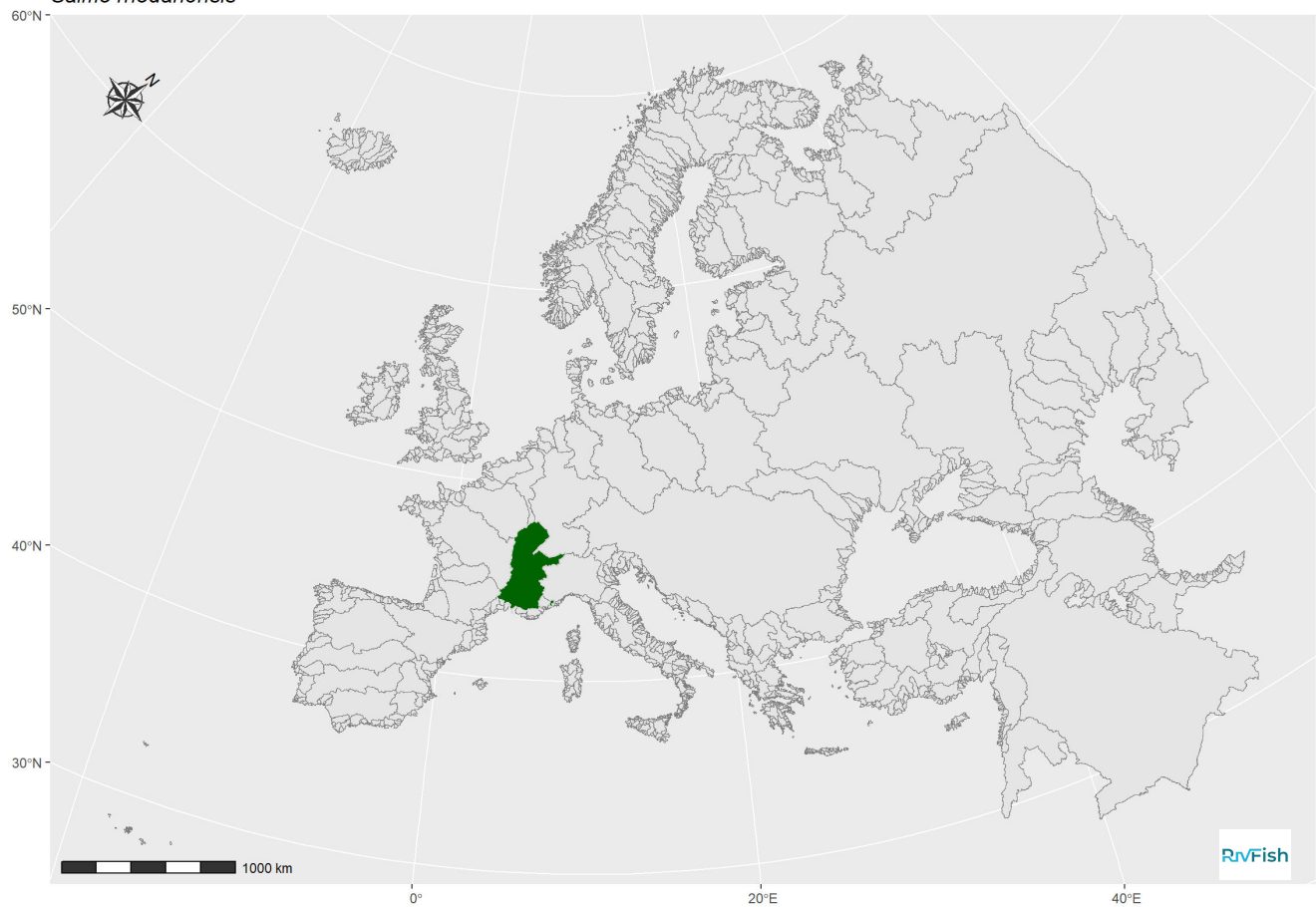
Salmo ohridanus





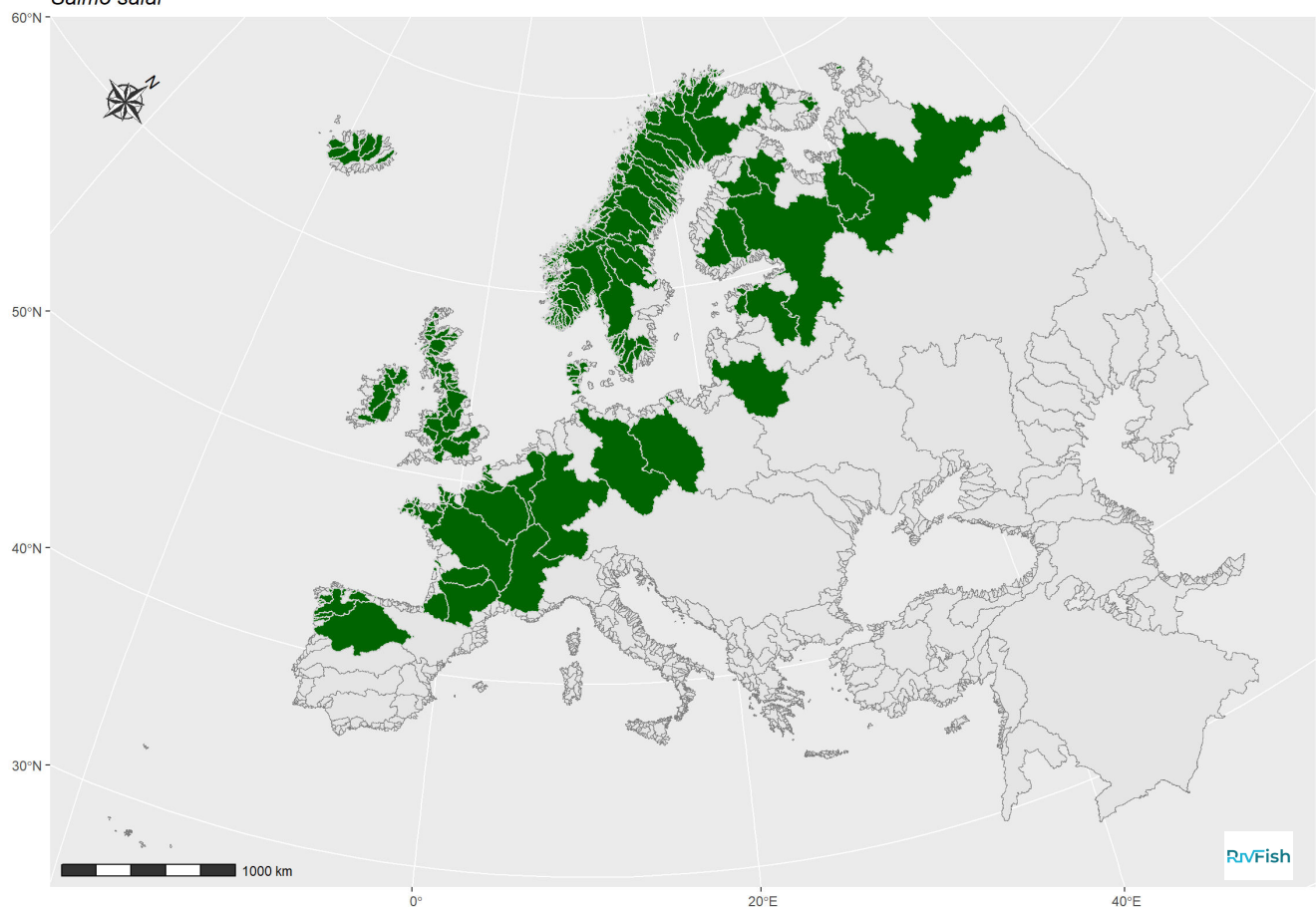


Salmo rhodanensis



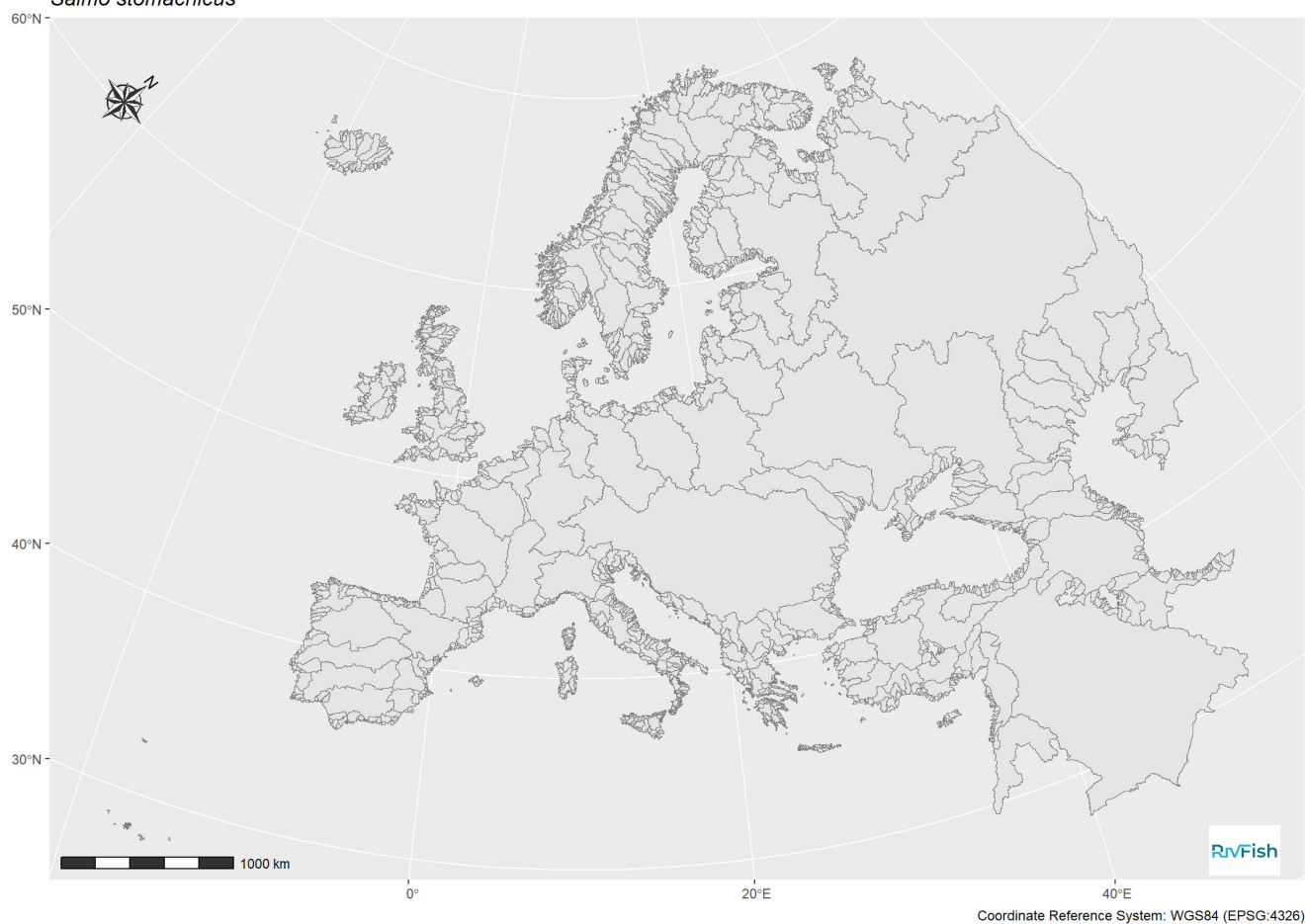
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Salmo salar

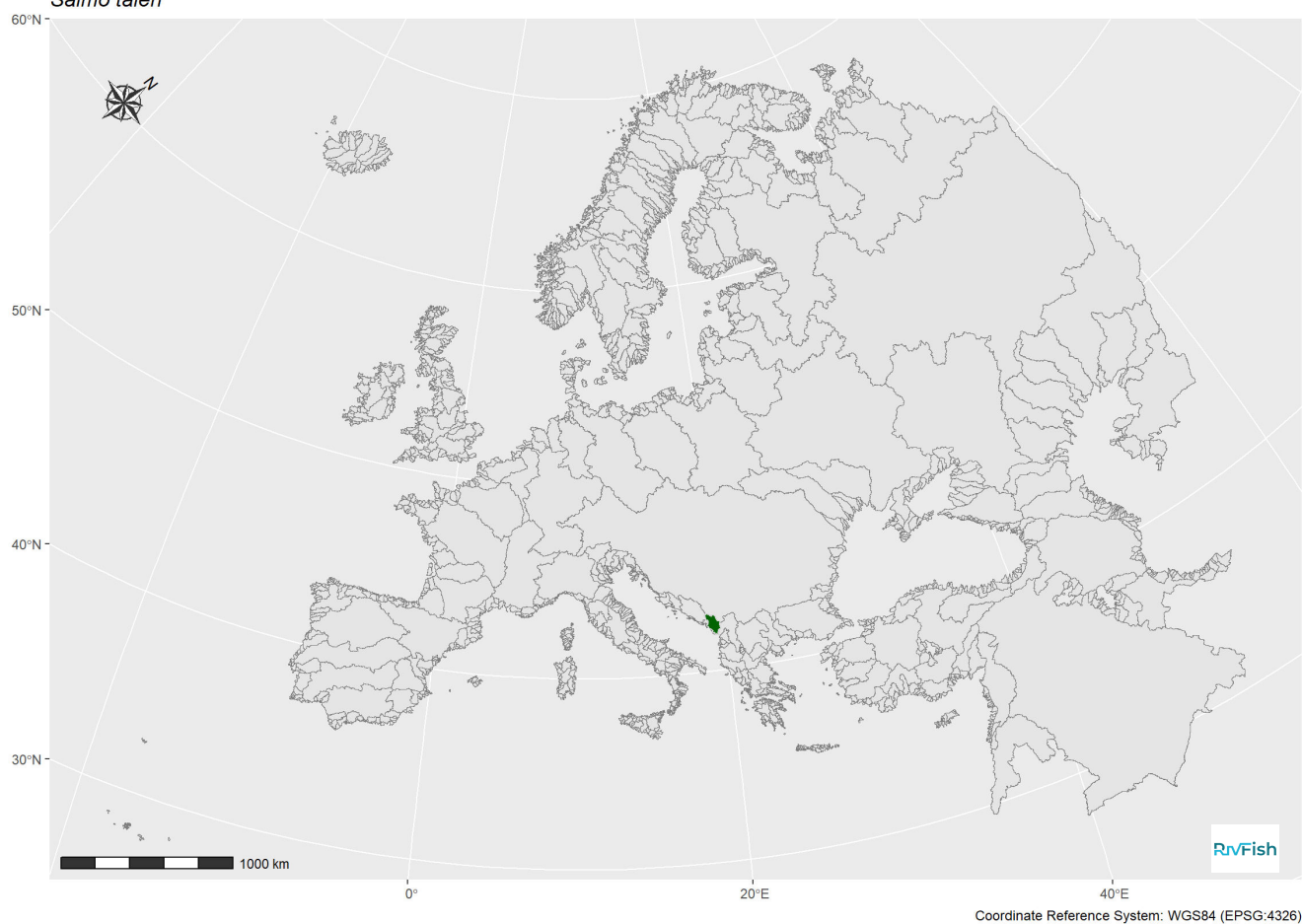


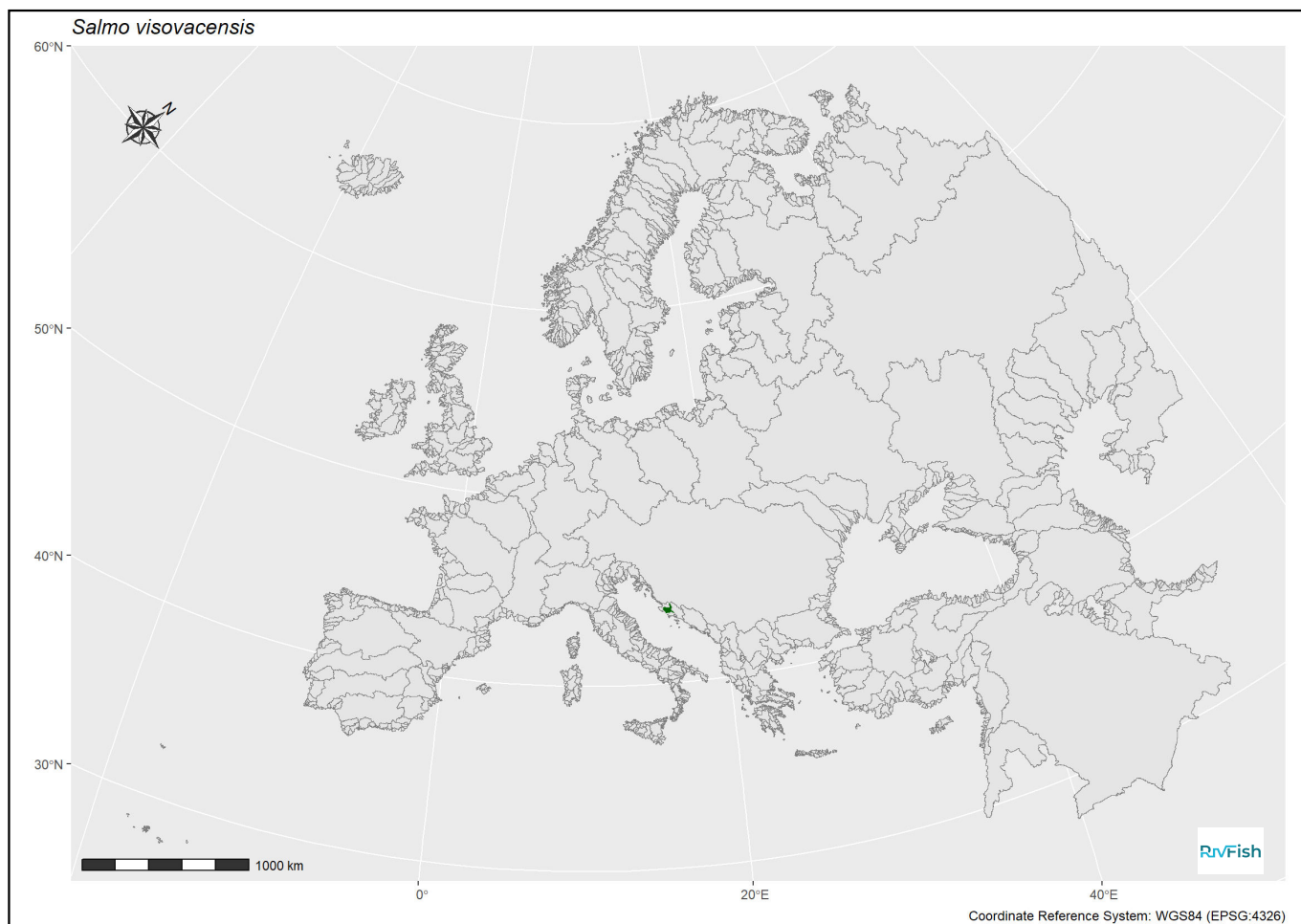
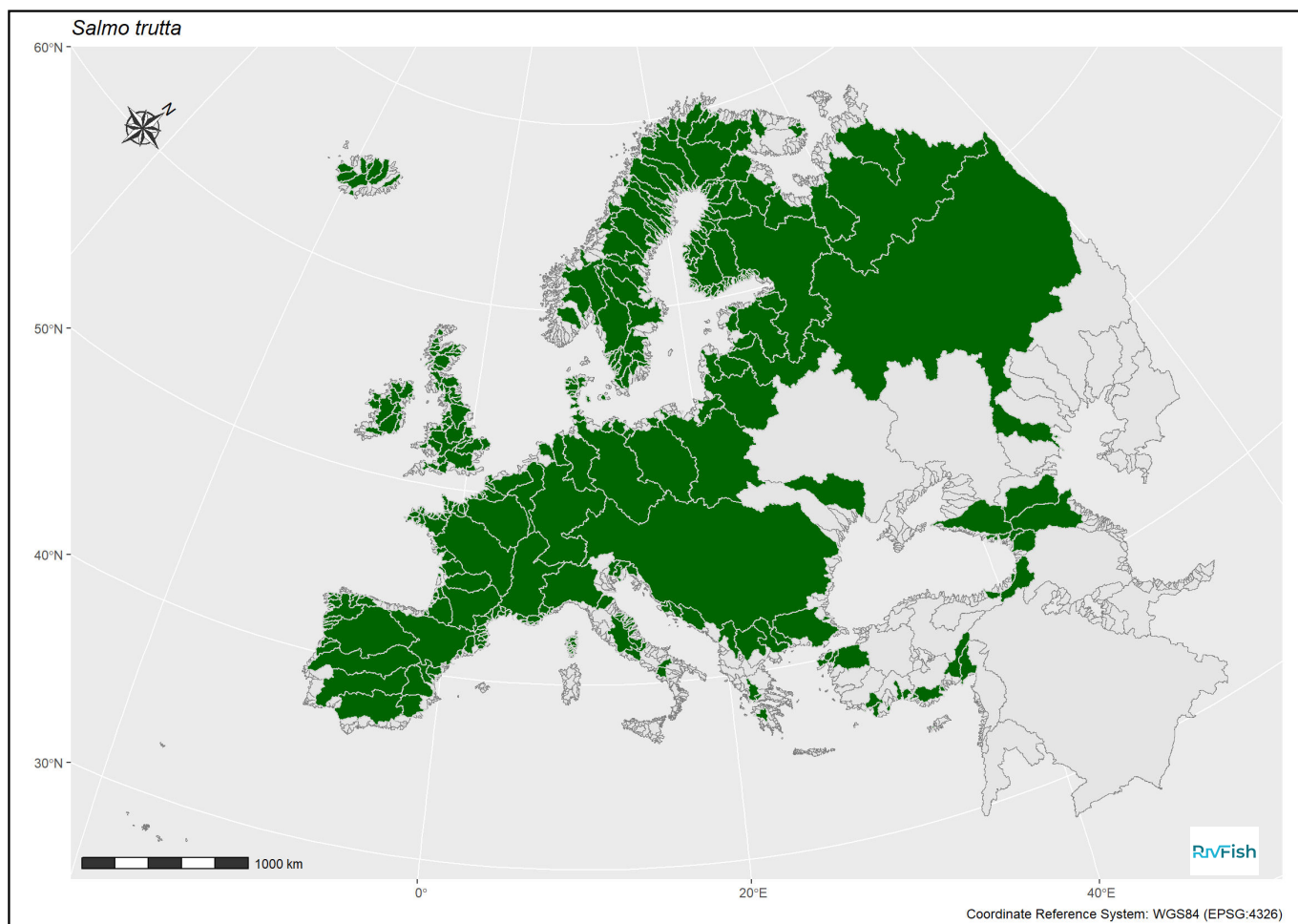
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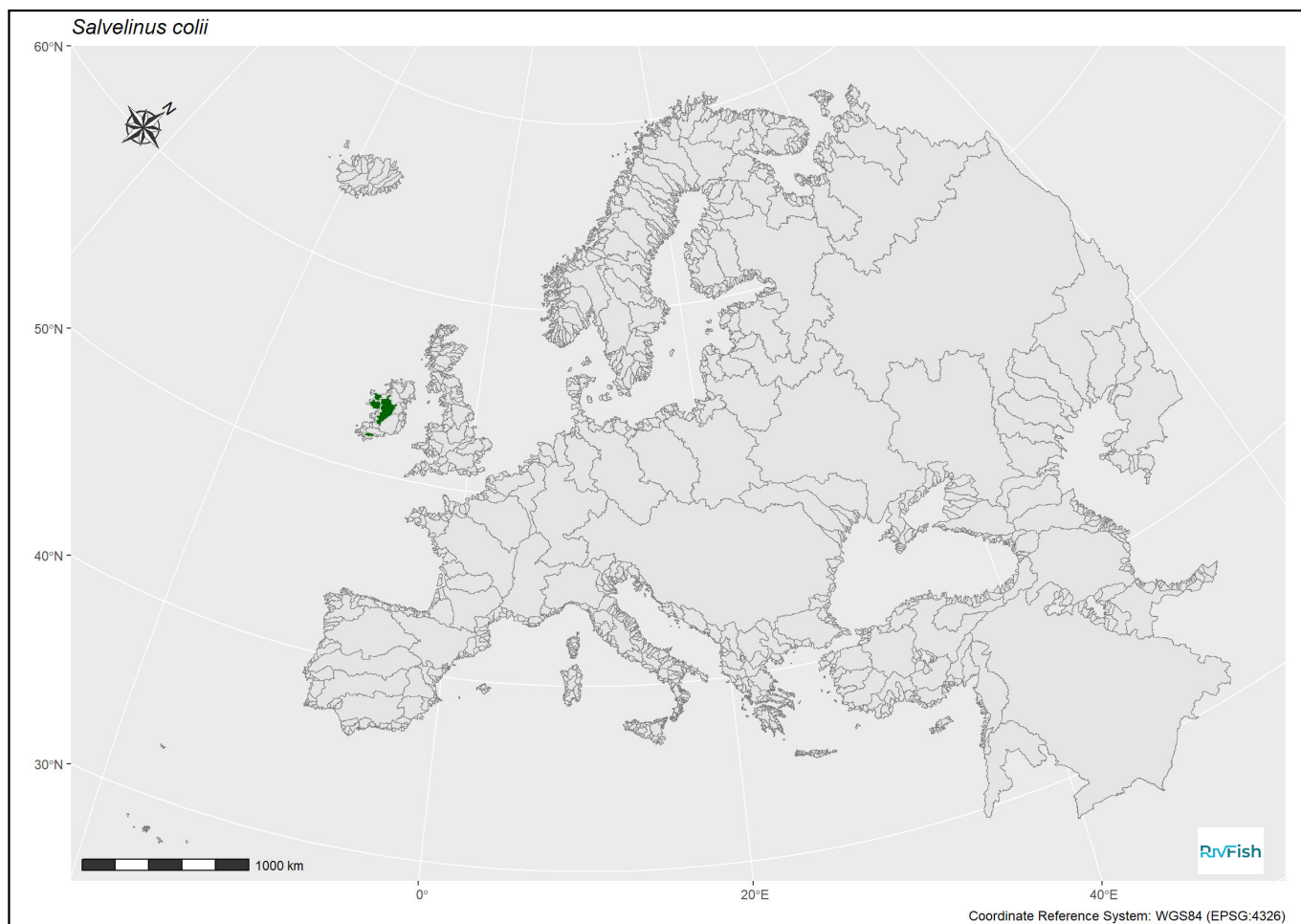
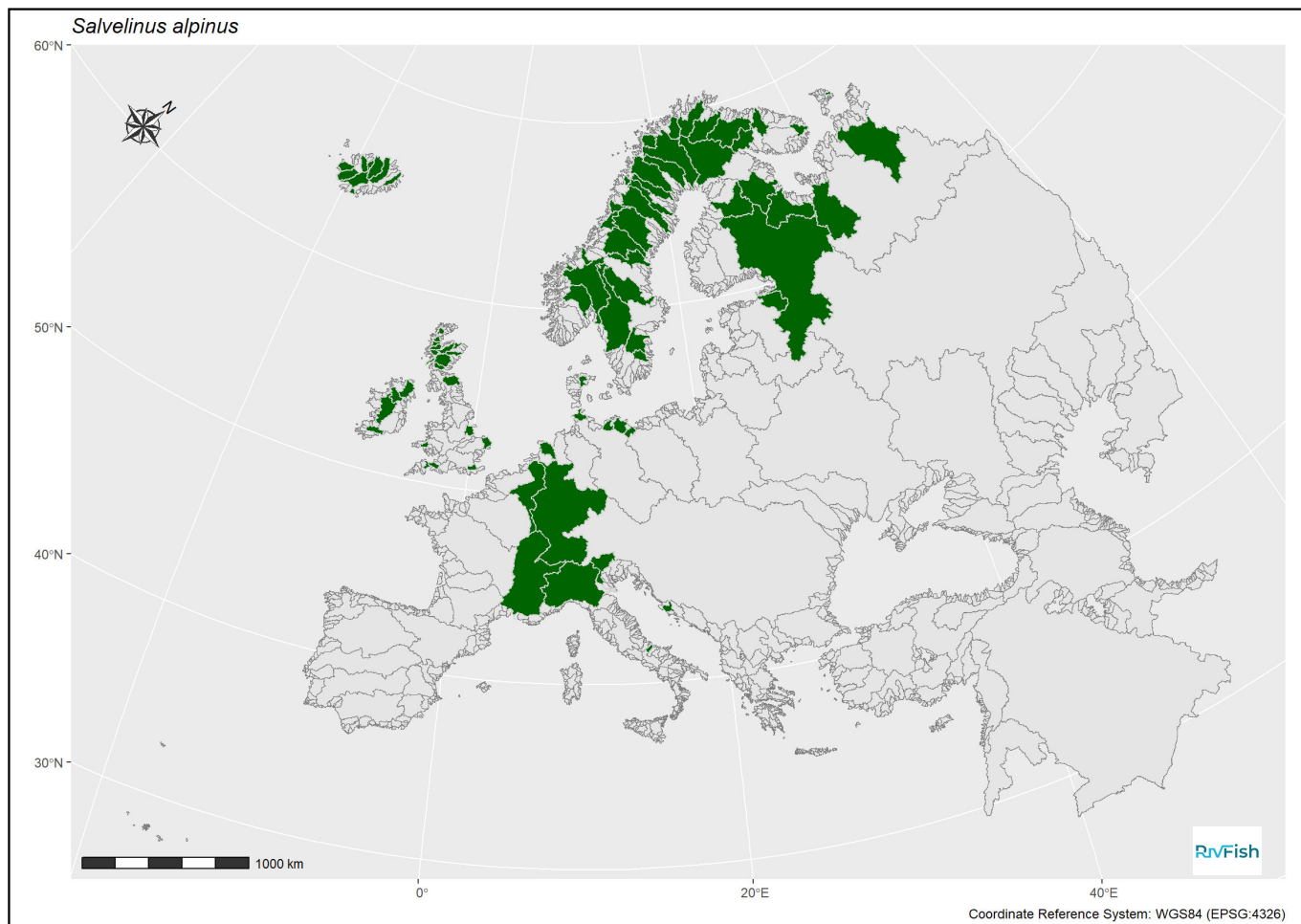
Salmo stomachicus



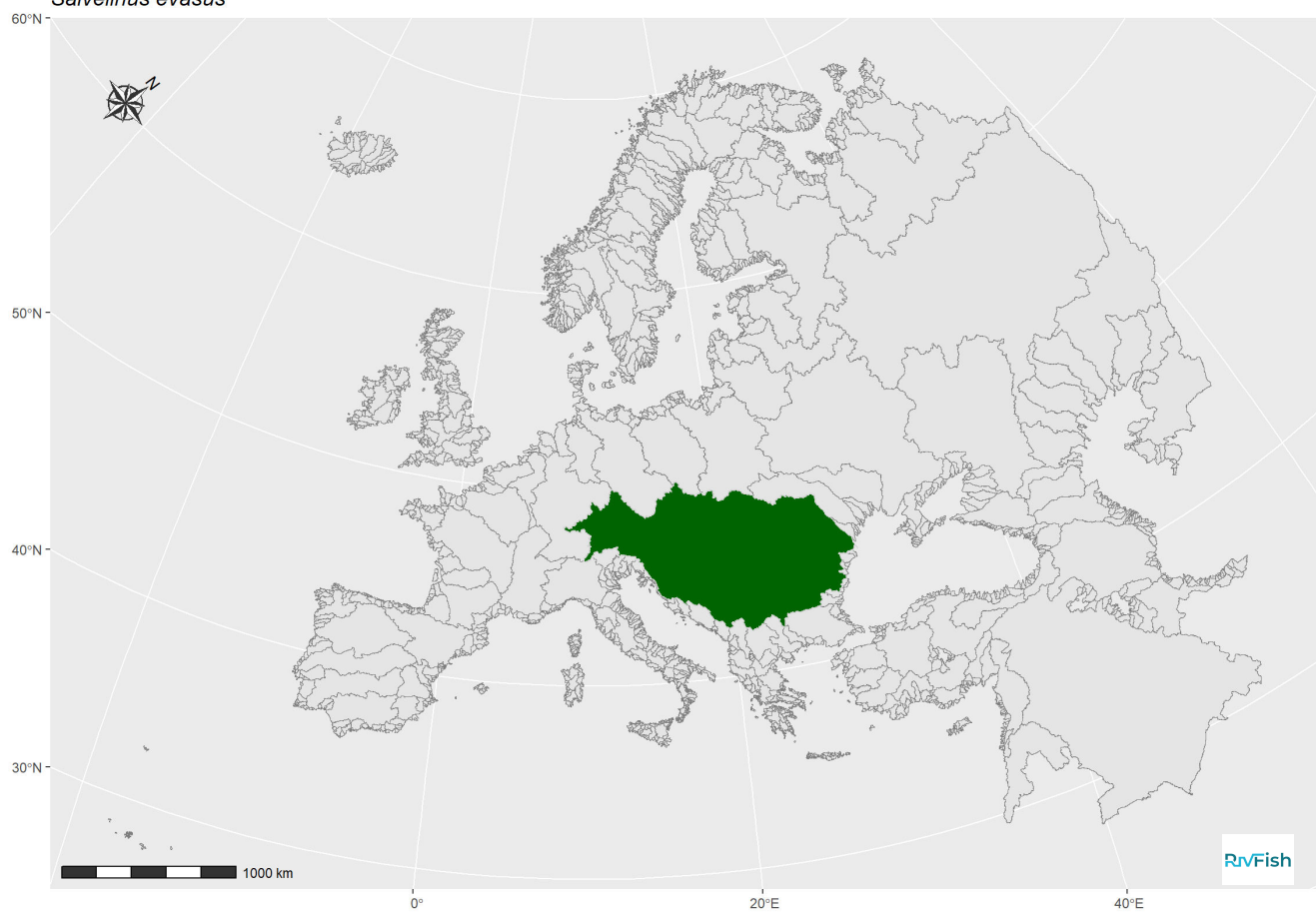
Salmo talaris







Salvelinus evasus



Coordinate Reference System: WGS84 (EPSG:4326)

Salvelinus fimbriatus



Coordinate Reference System: WGS84 (EPSG:4326)

Salvelinus gracillimus

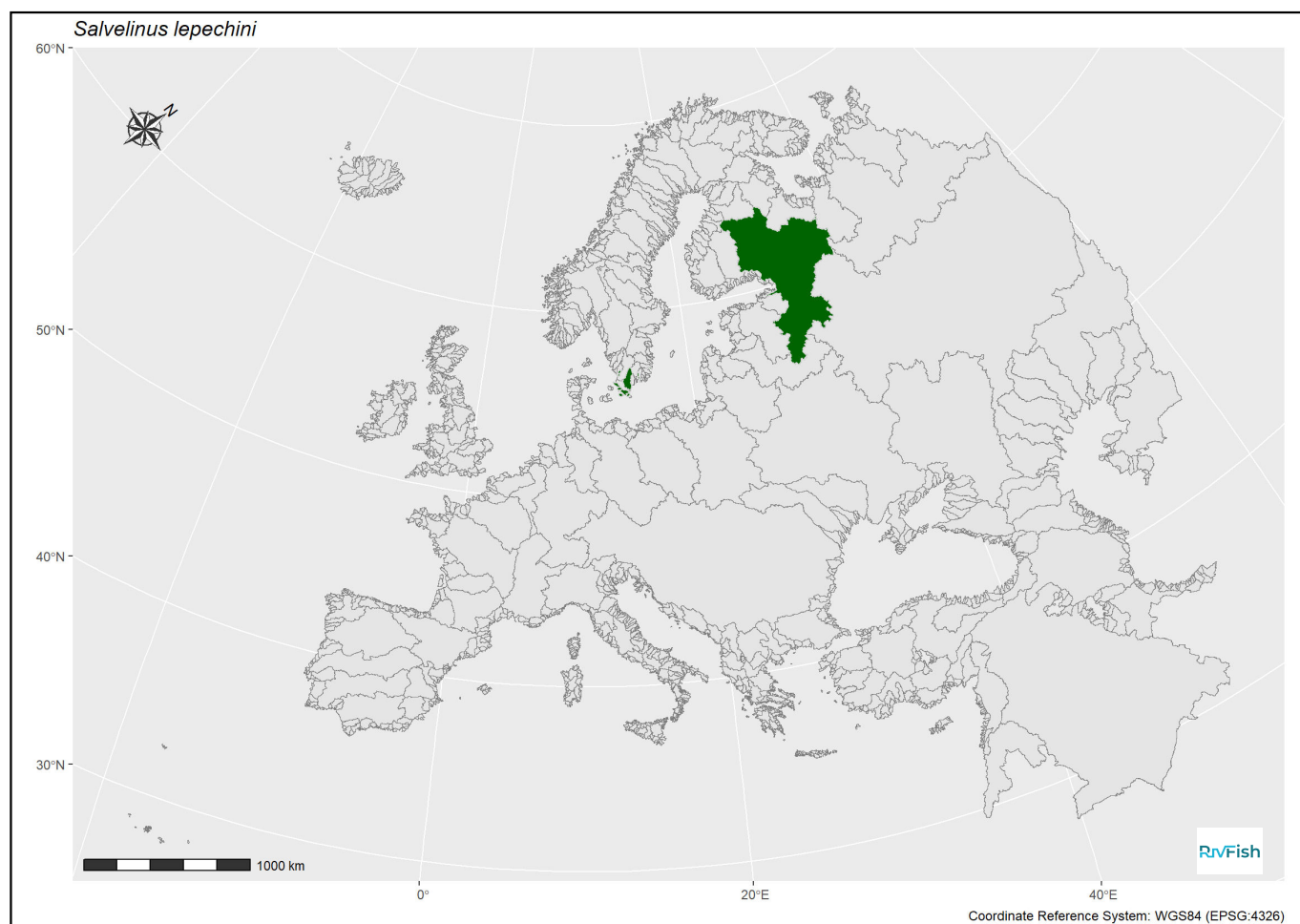
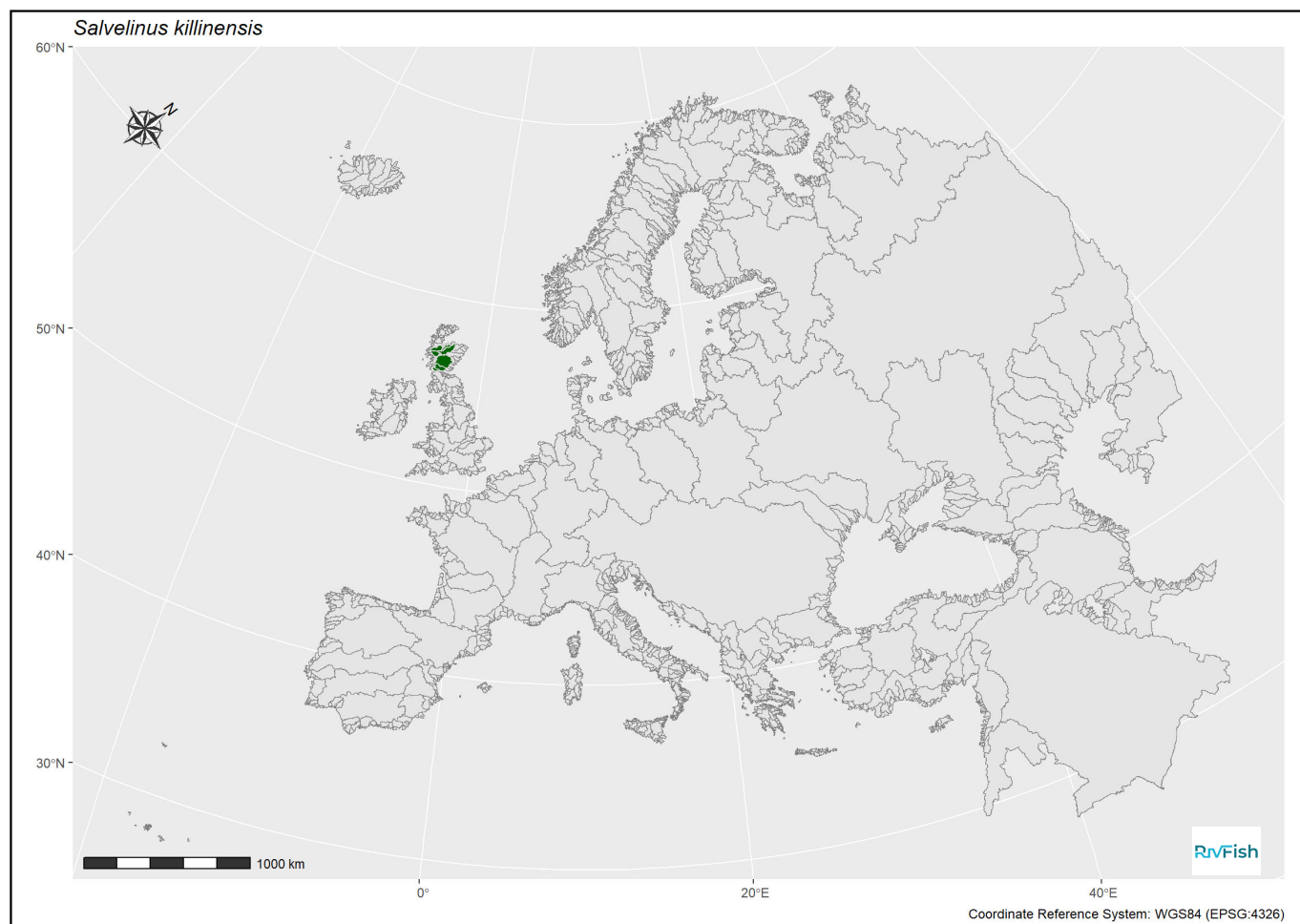


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Salvelinus grayi



Coordinate Reference System: WGS84 (EPSG:4326)

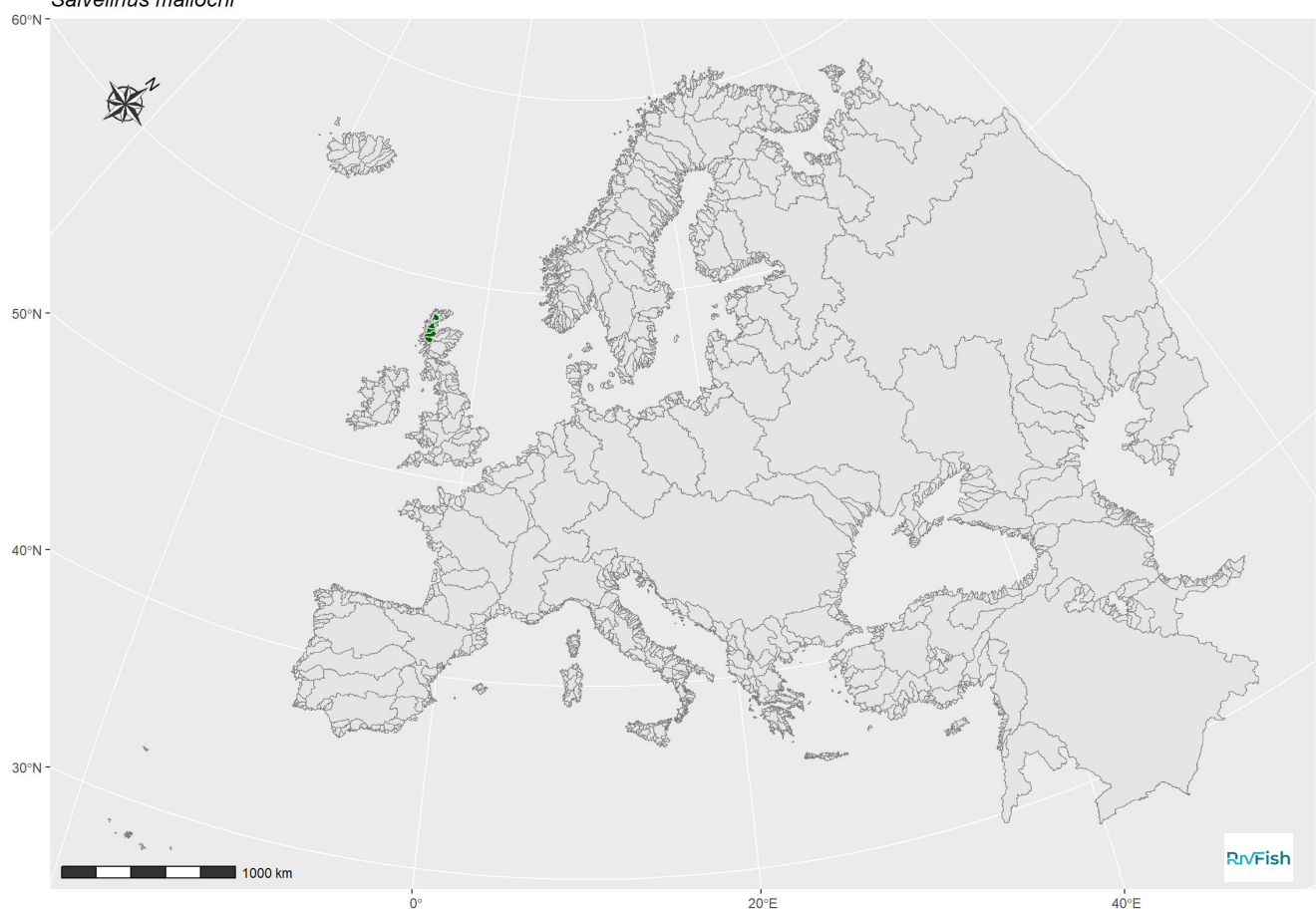


Salvelinus lonsdalii



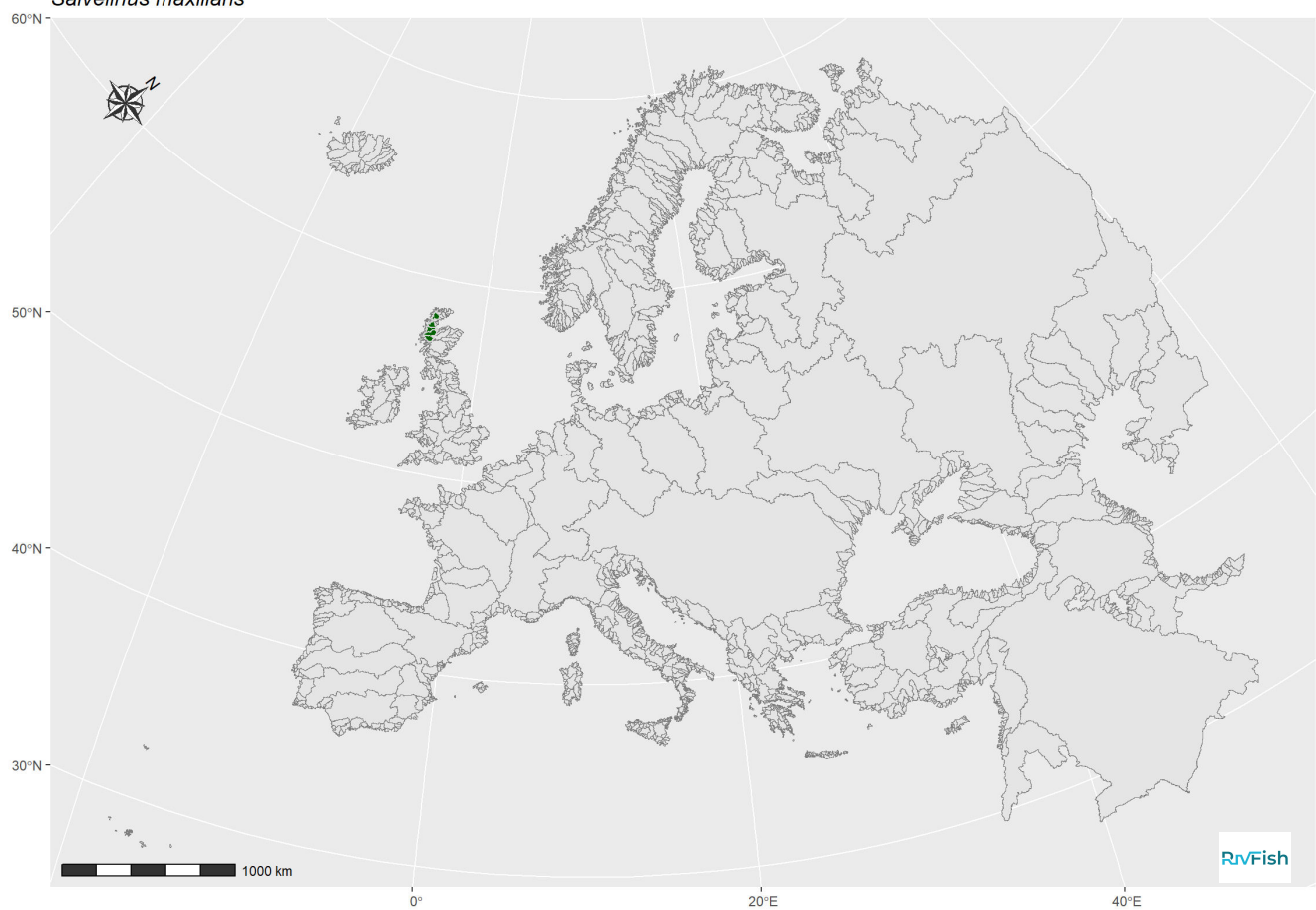
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Salvelinus mallochii



Coordinate Reference System: WGS84 (EPSG:4326)

Salvelinus maxillaris



Coordinate Reference System: WGS84 (EPSG:4326)

Salvelinus murta



Coordinate Reference System: WGS84 (EPSG:4326)

Salvelinus obtusus



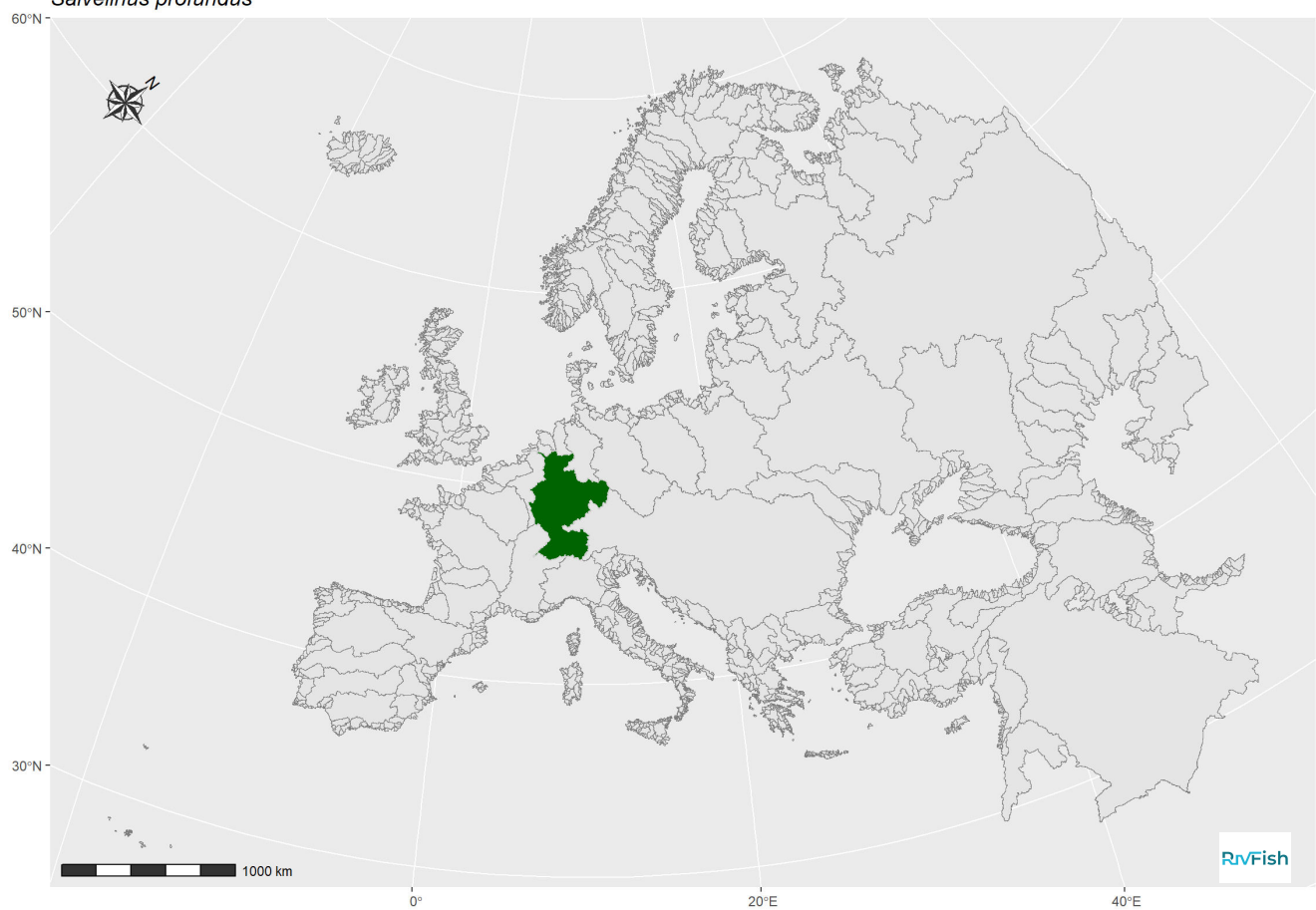
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Salvelinus perisii



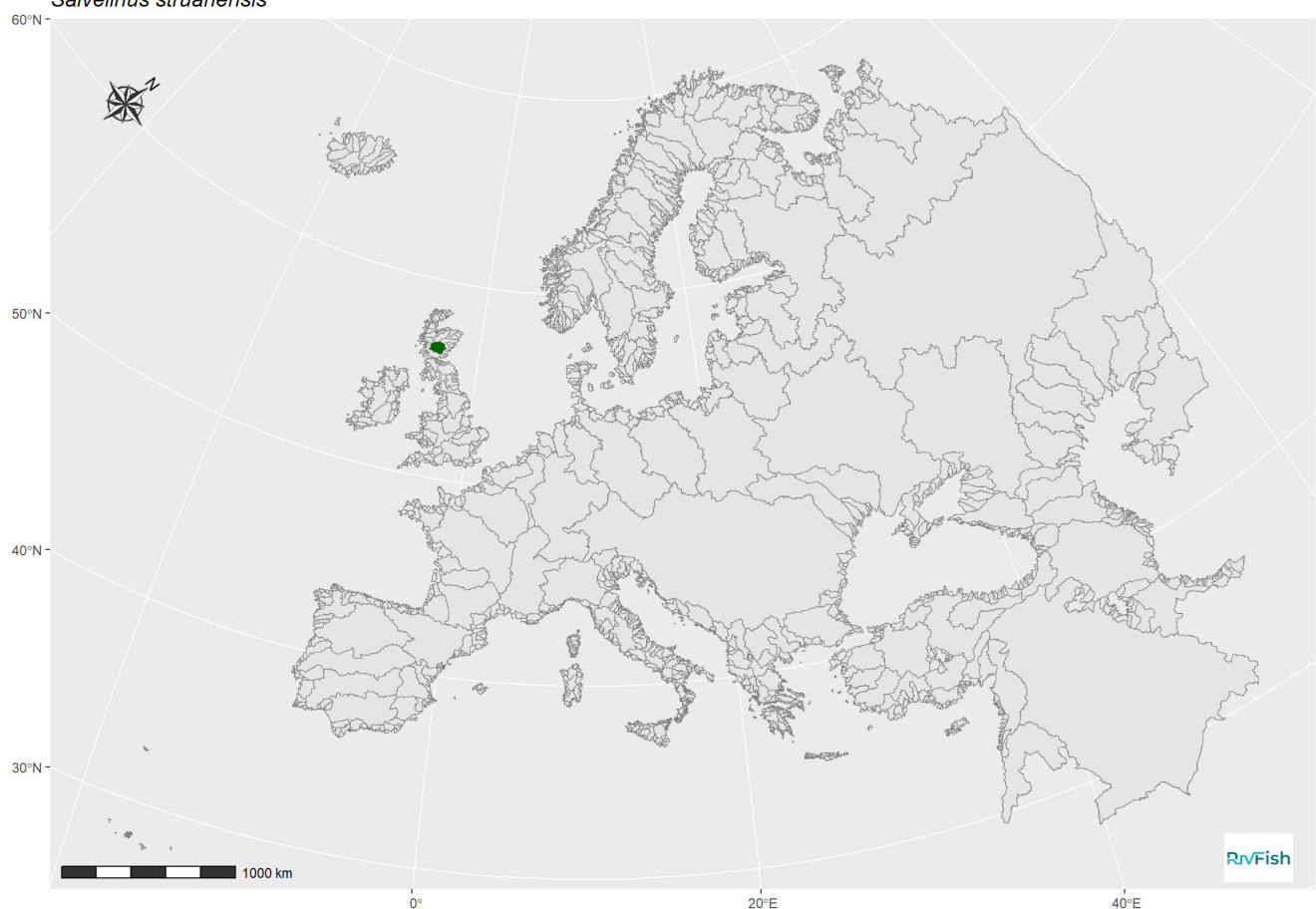
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Salvelinus profundus



Coordinate Reference System: WGS84 (EPSG:4326)

Salvelinus struanensis



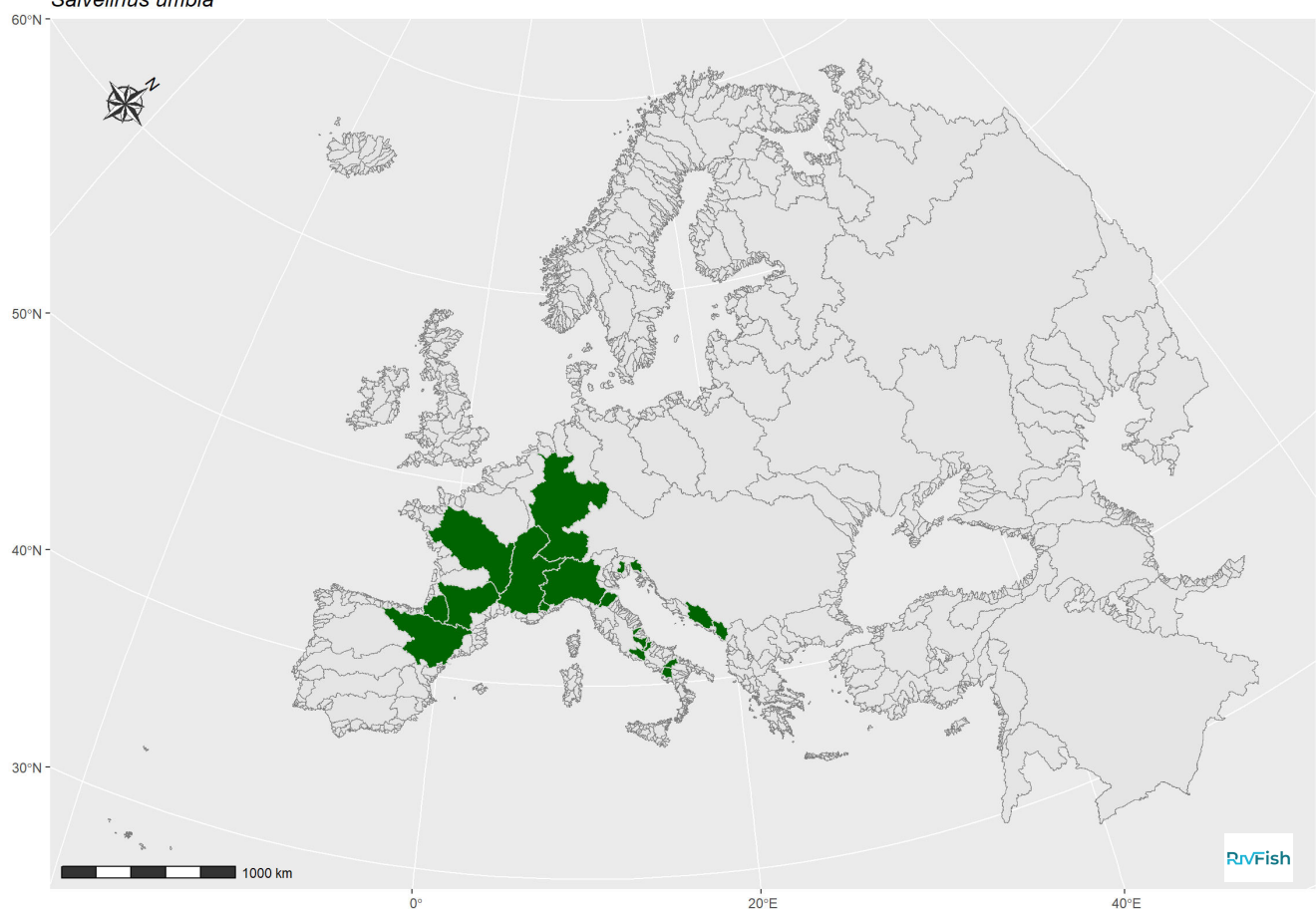
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Salvelinus thingvallensis

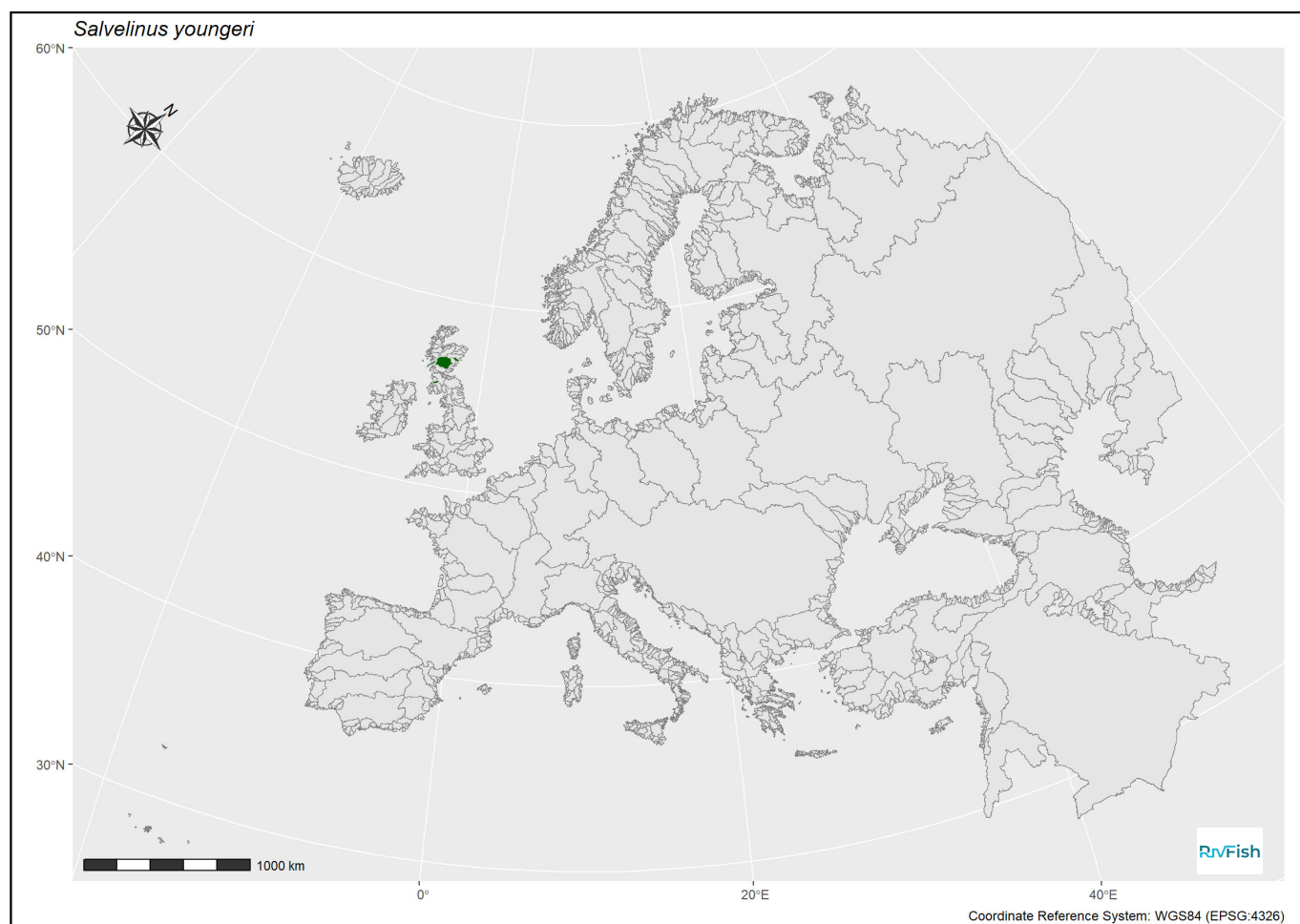
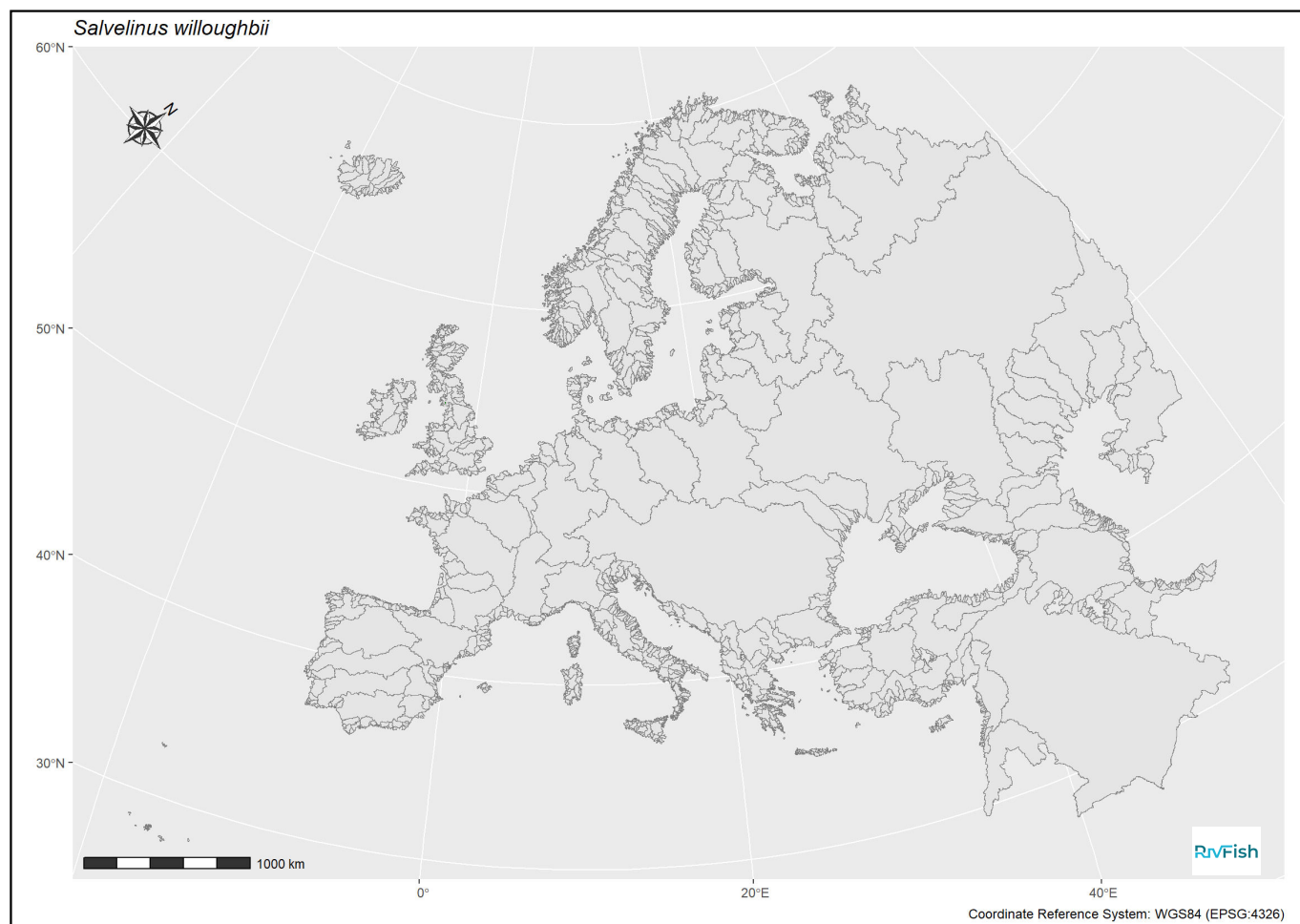


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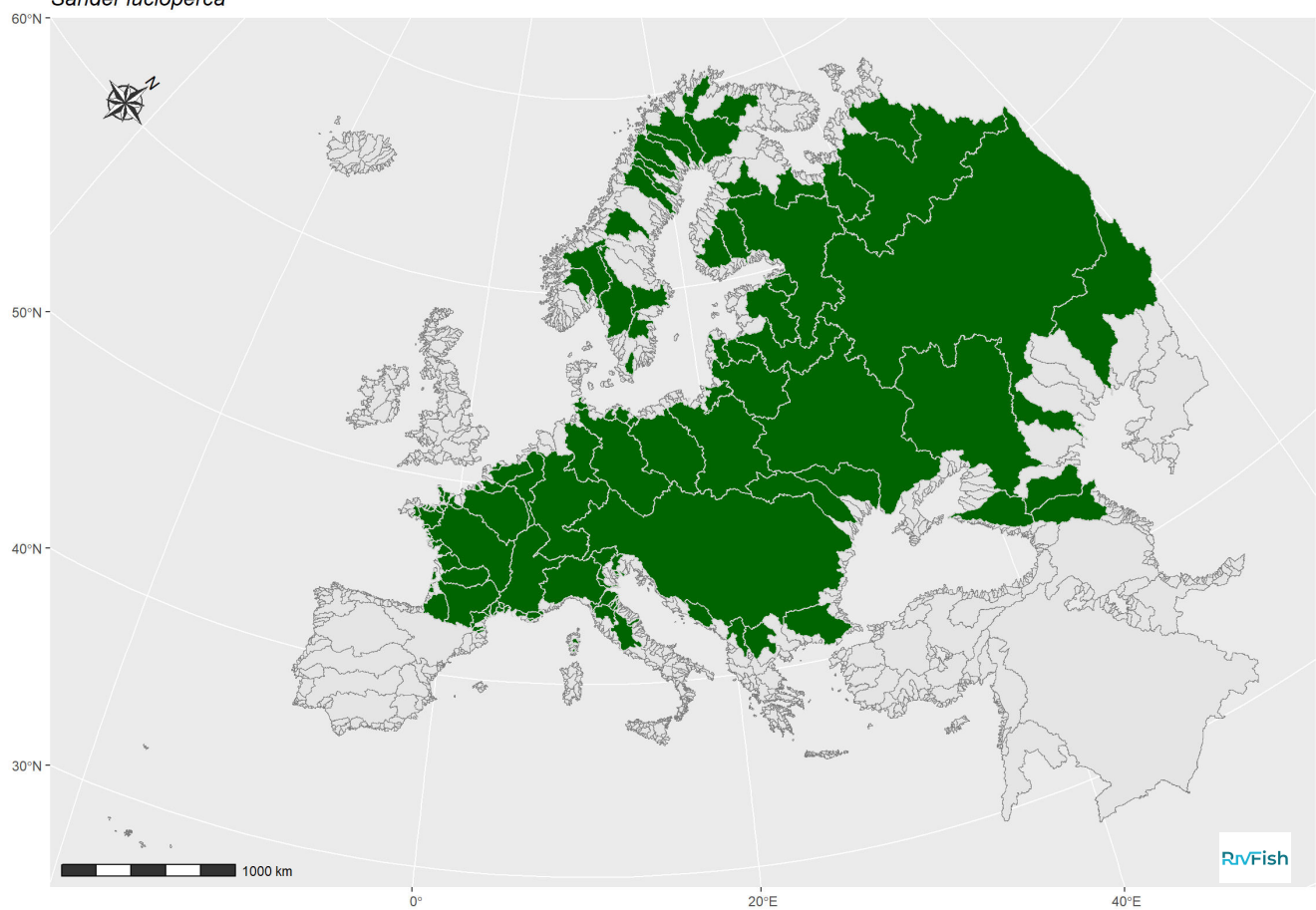
Salvelinus umbla



Coordinate Reference System: WGS84 (EPSG:4326)

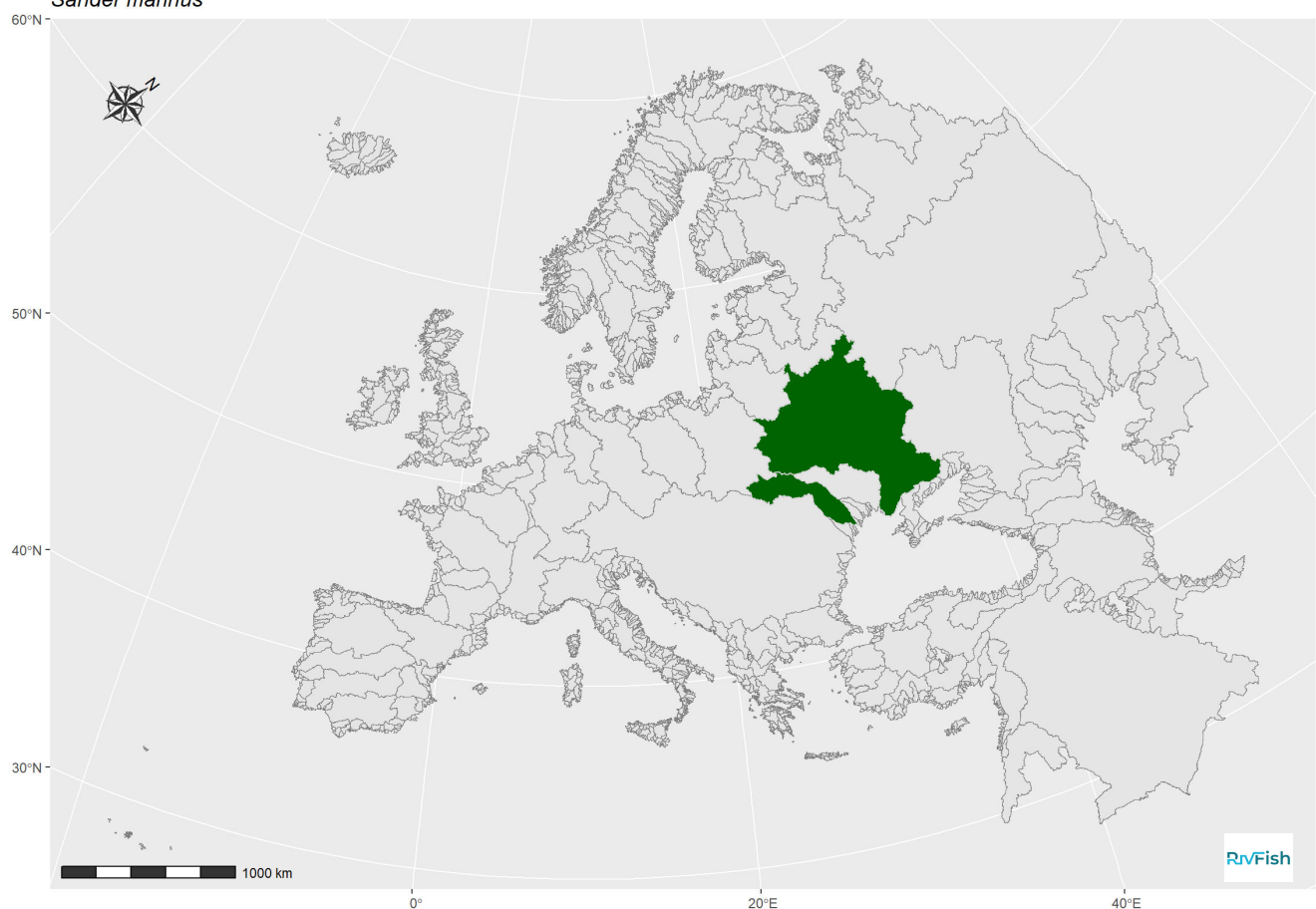


Sander lucioperca

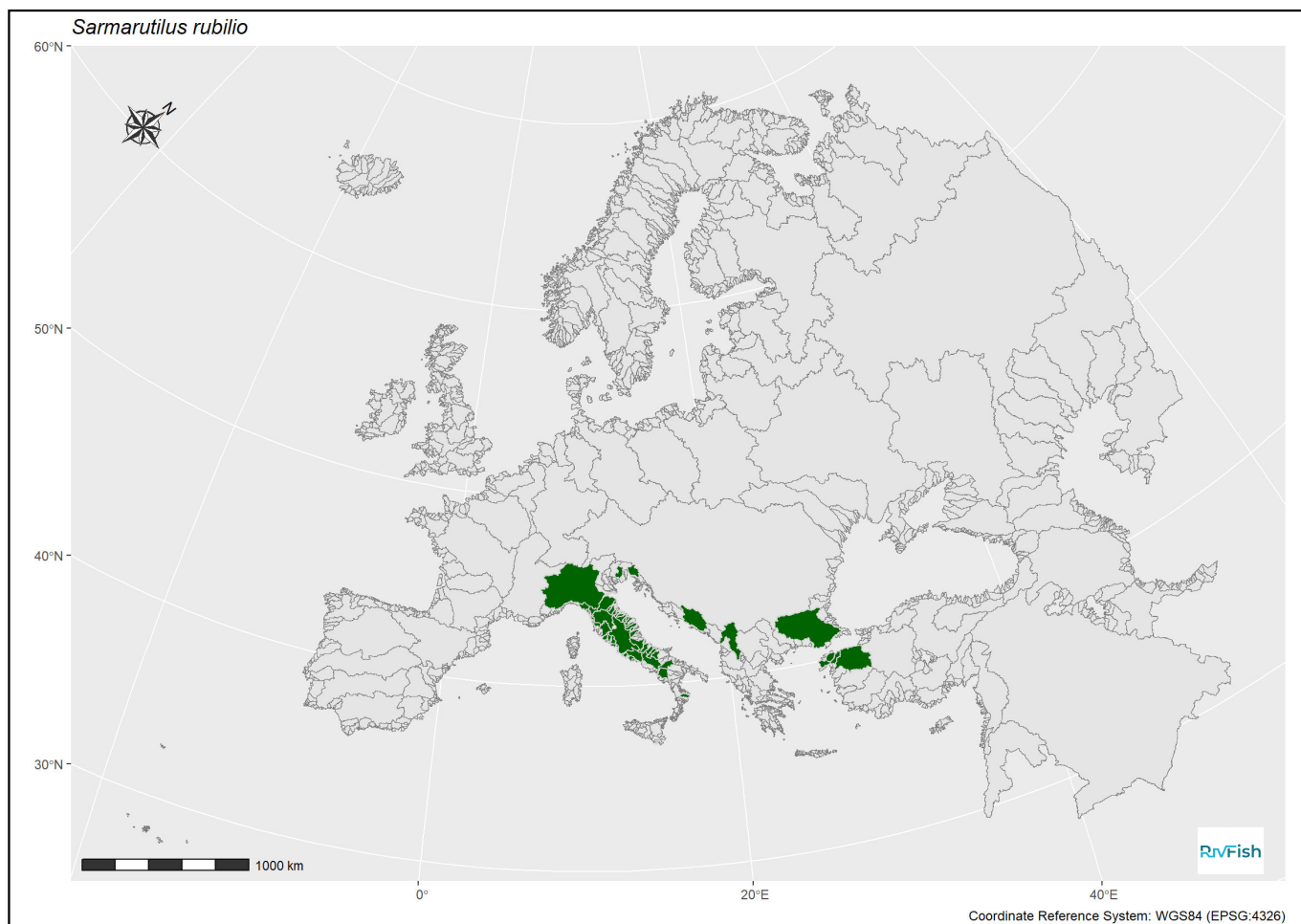
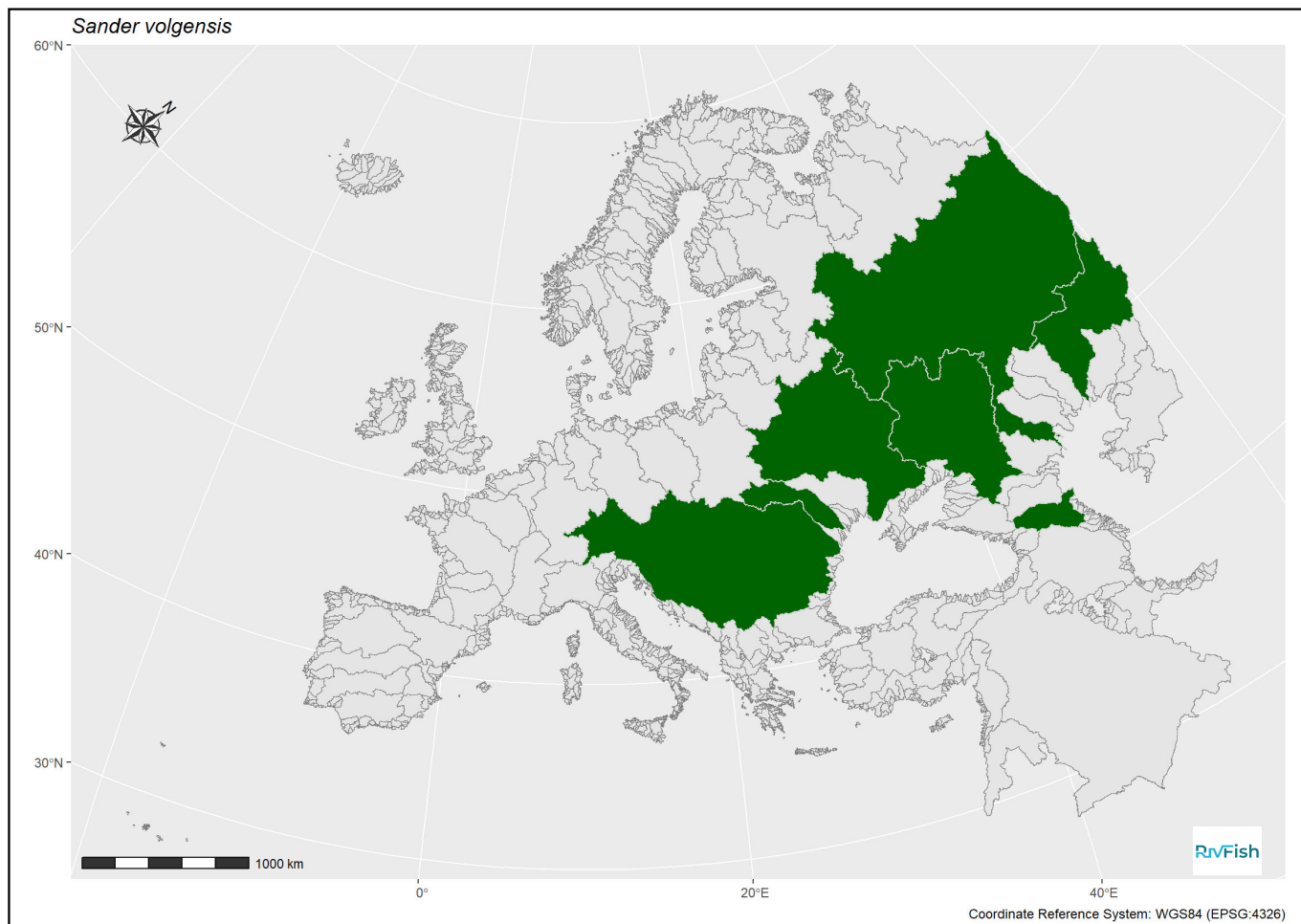


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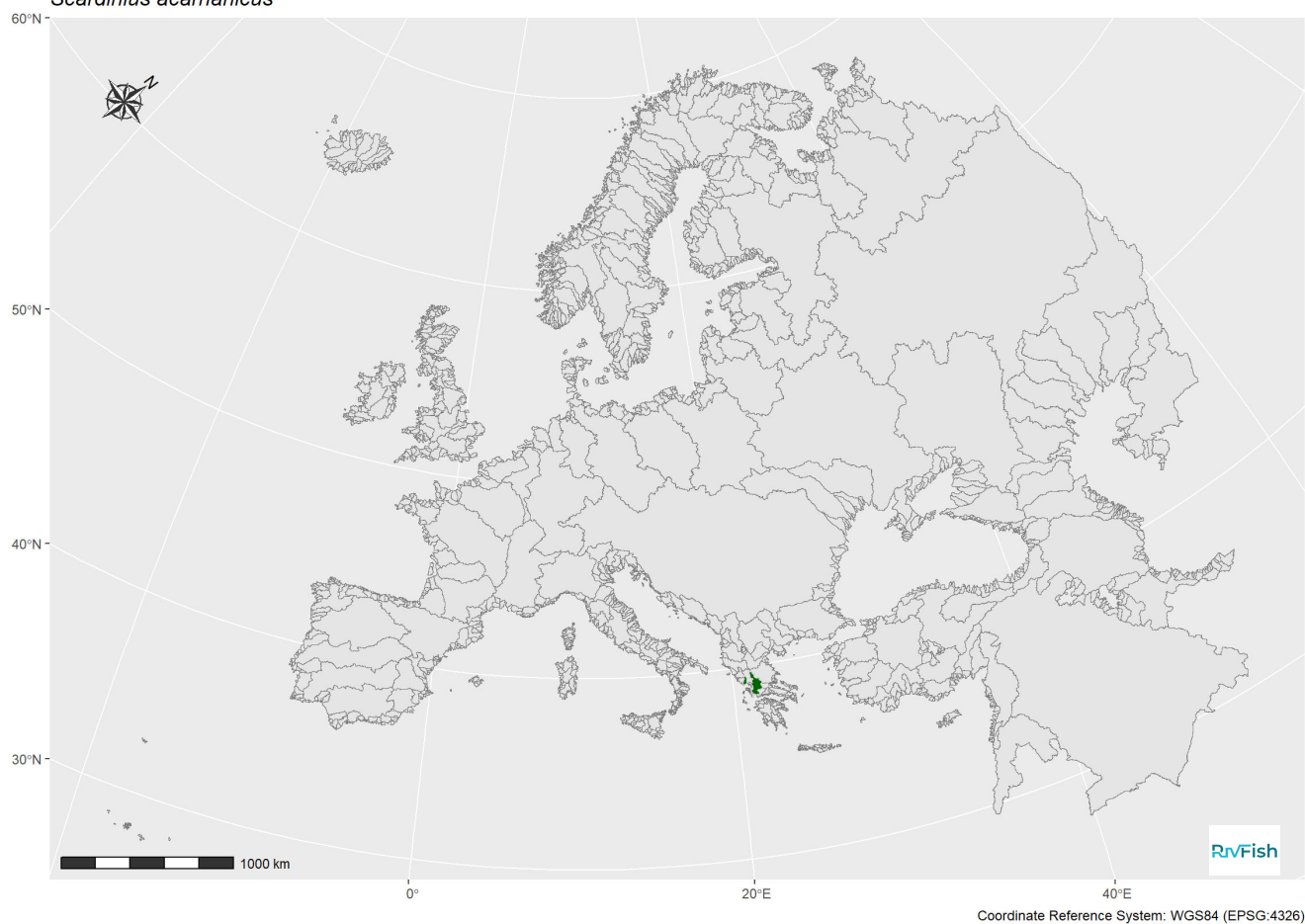
Sander marinus



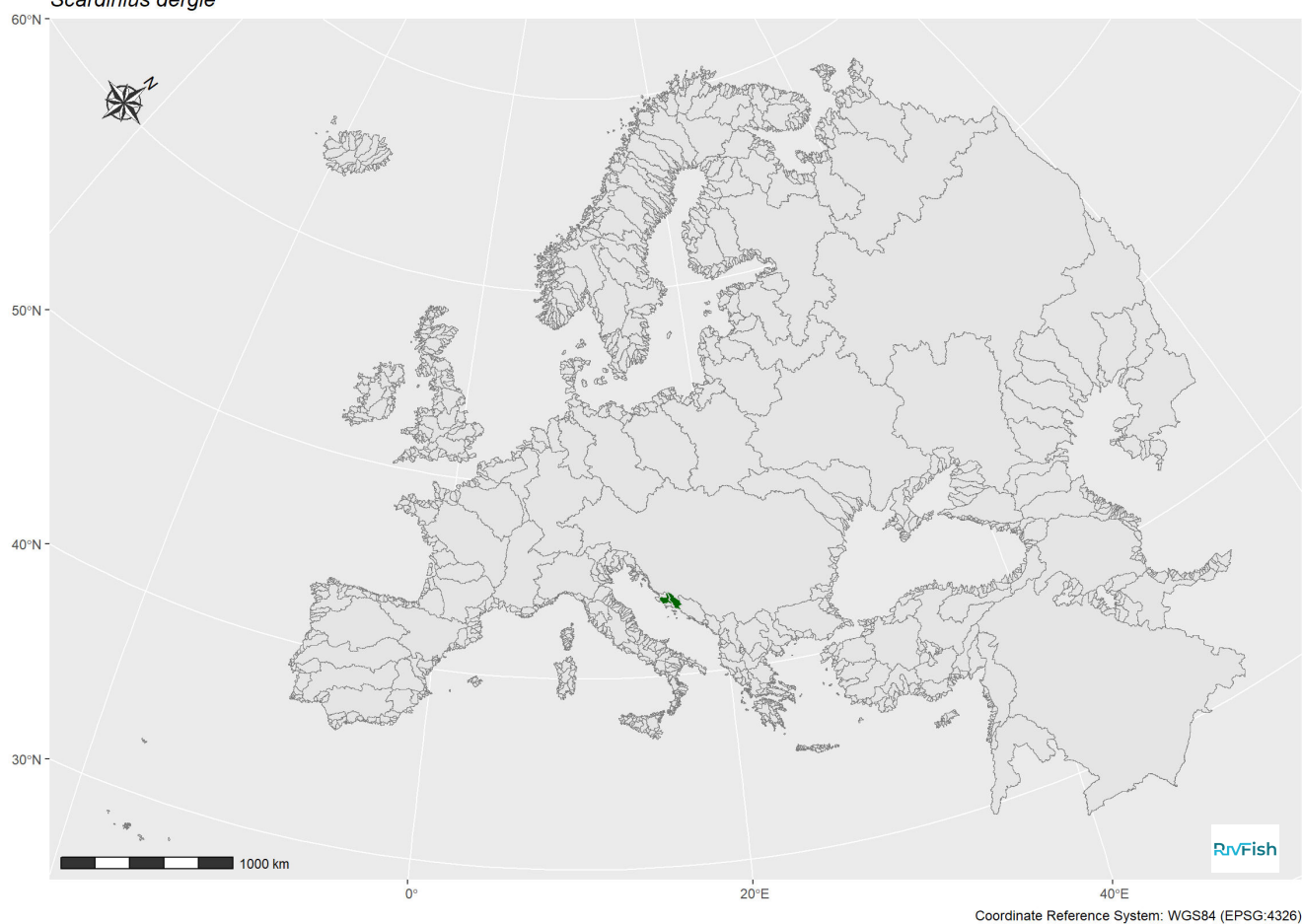
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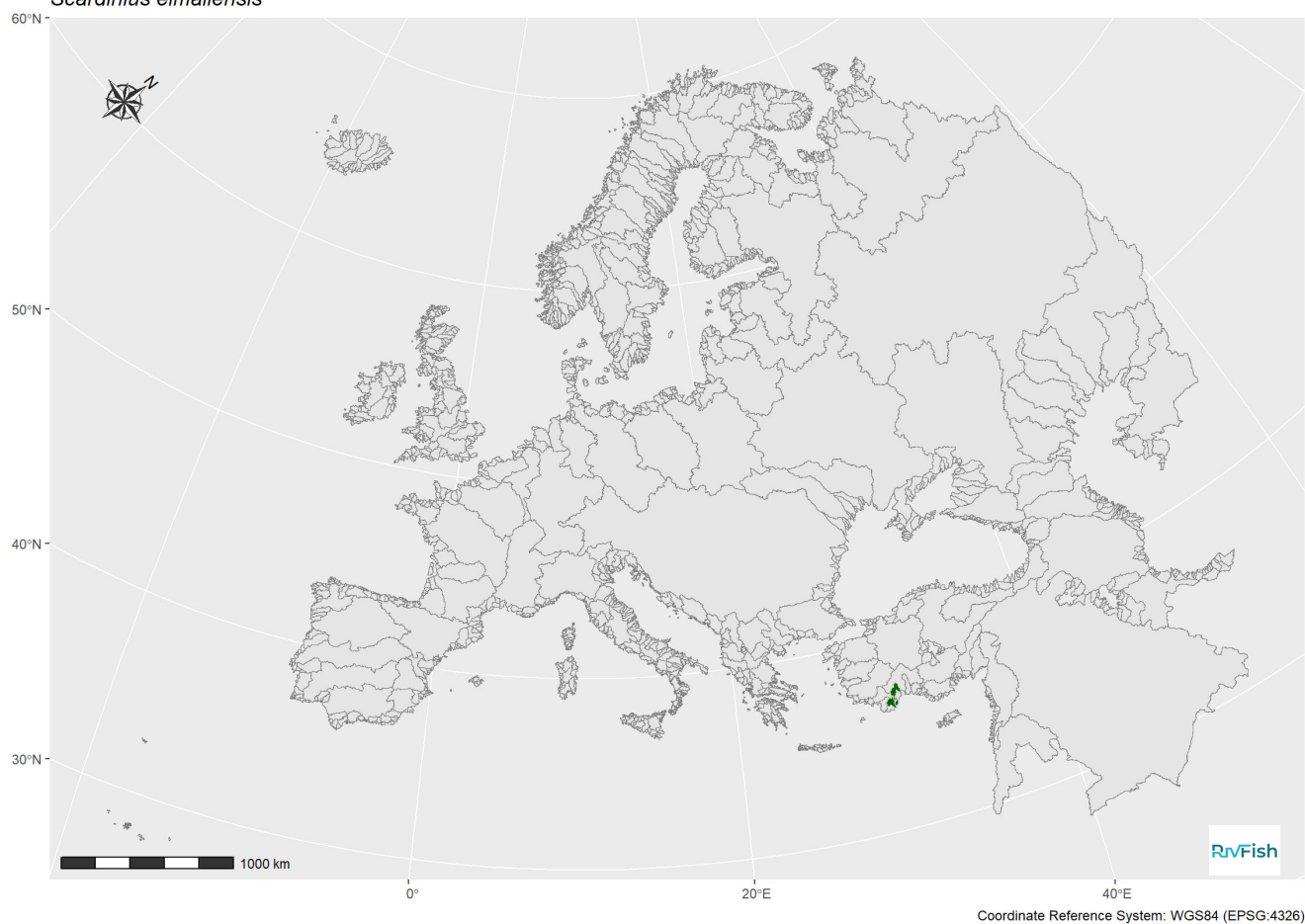
Scardinius acarnanicus



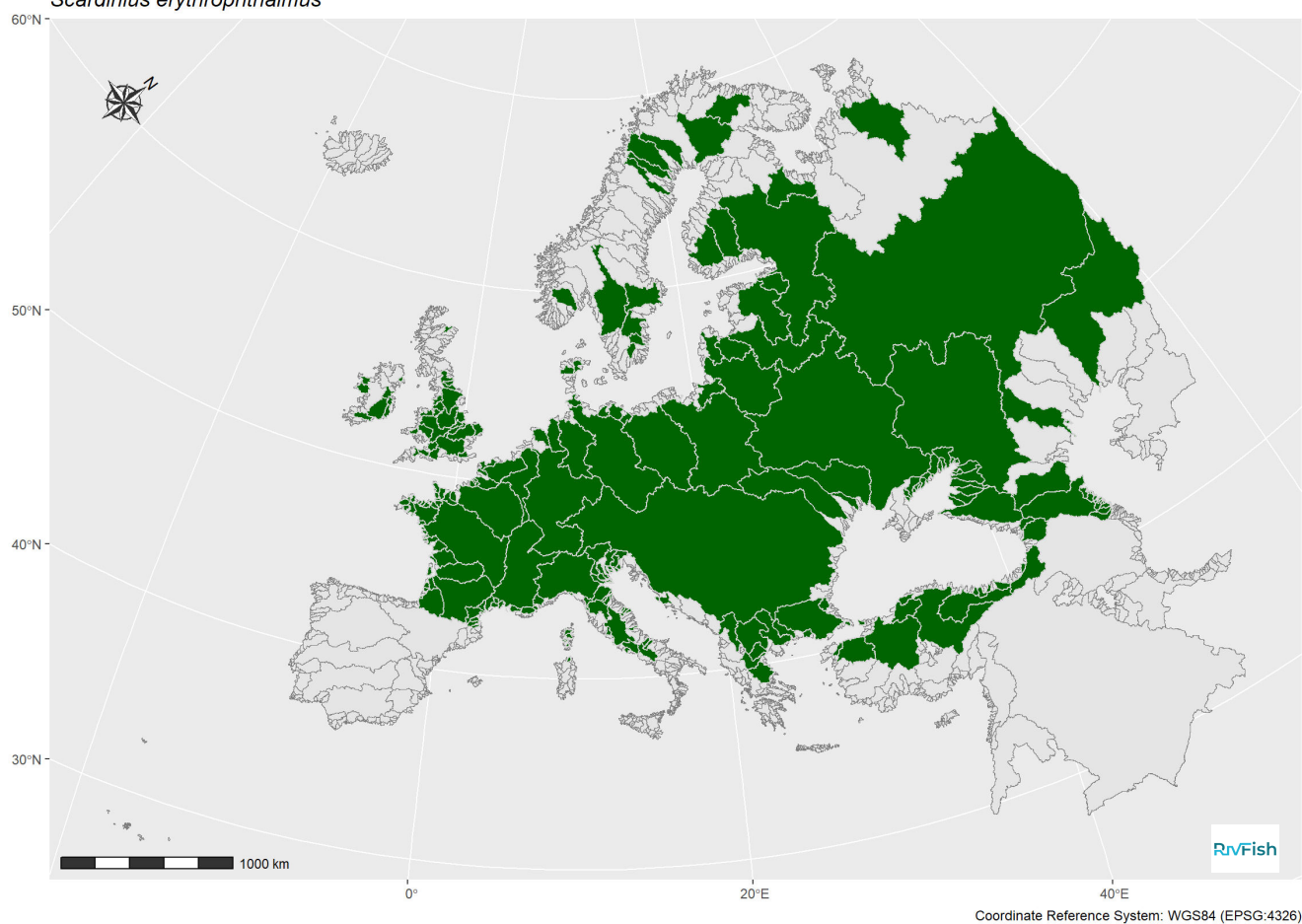
Scardinius dergle



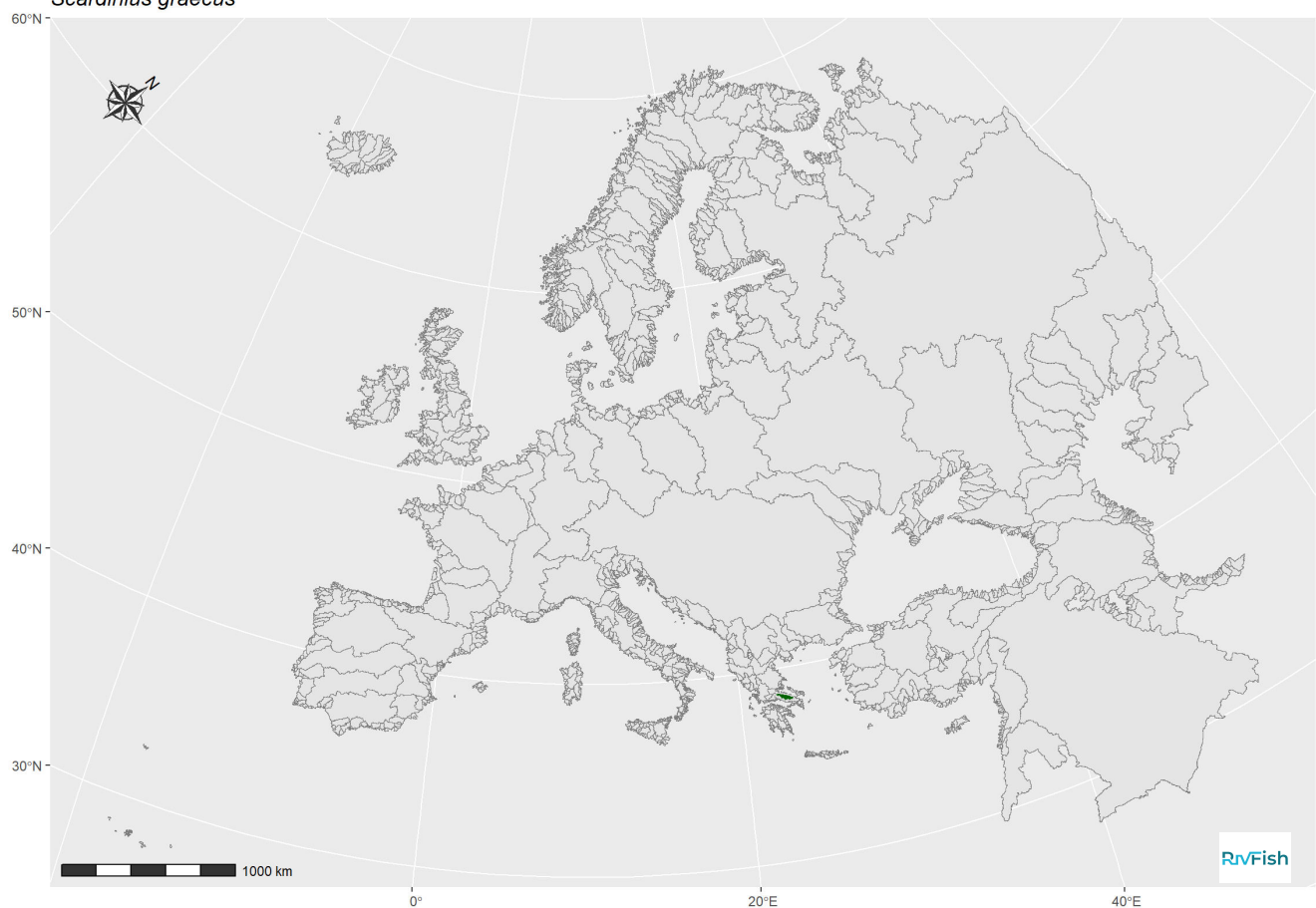
Scardinius elmaliensis



Scardinius erythrophthalmus

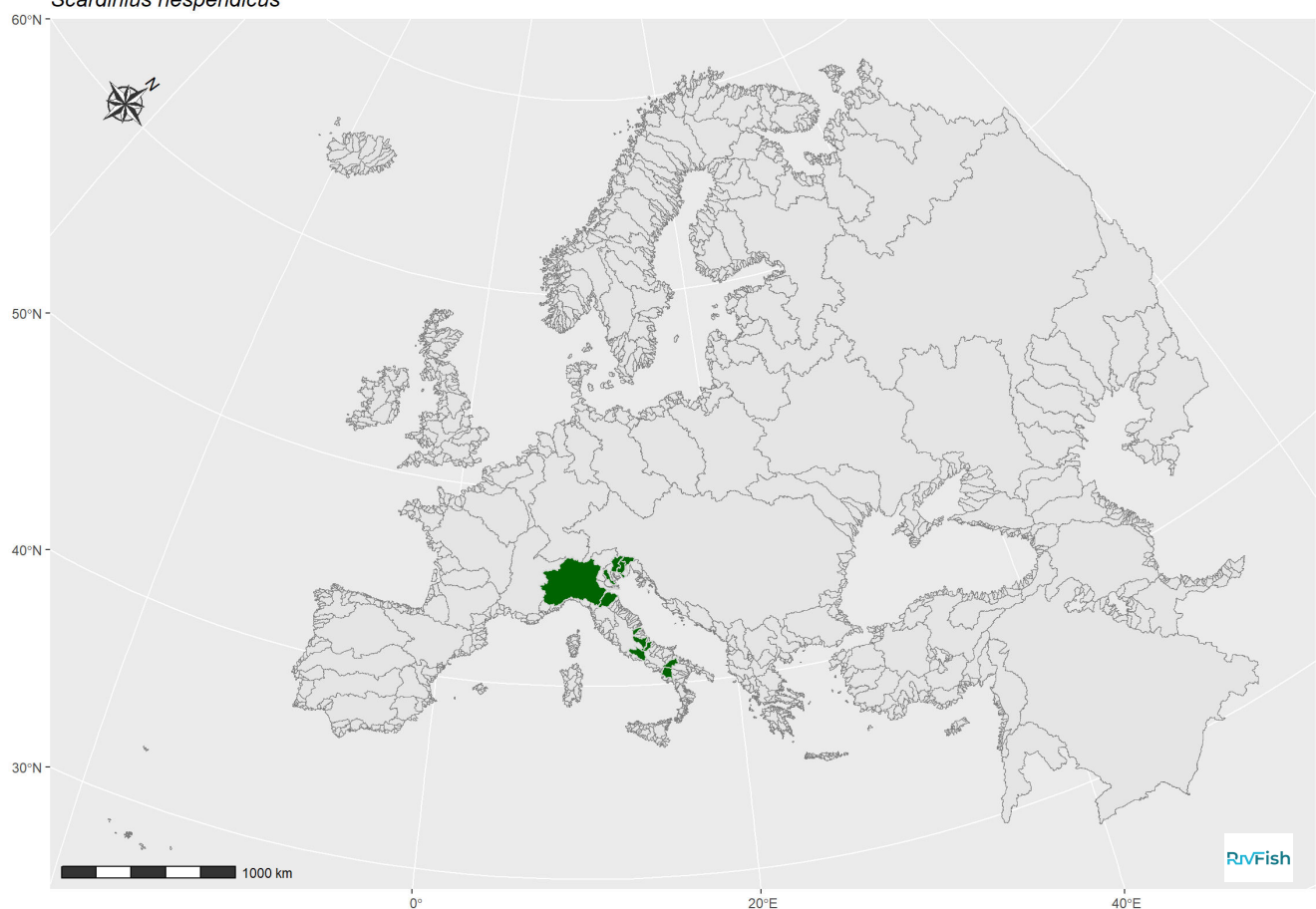


Scardinius graecus

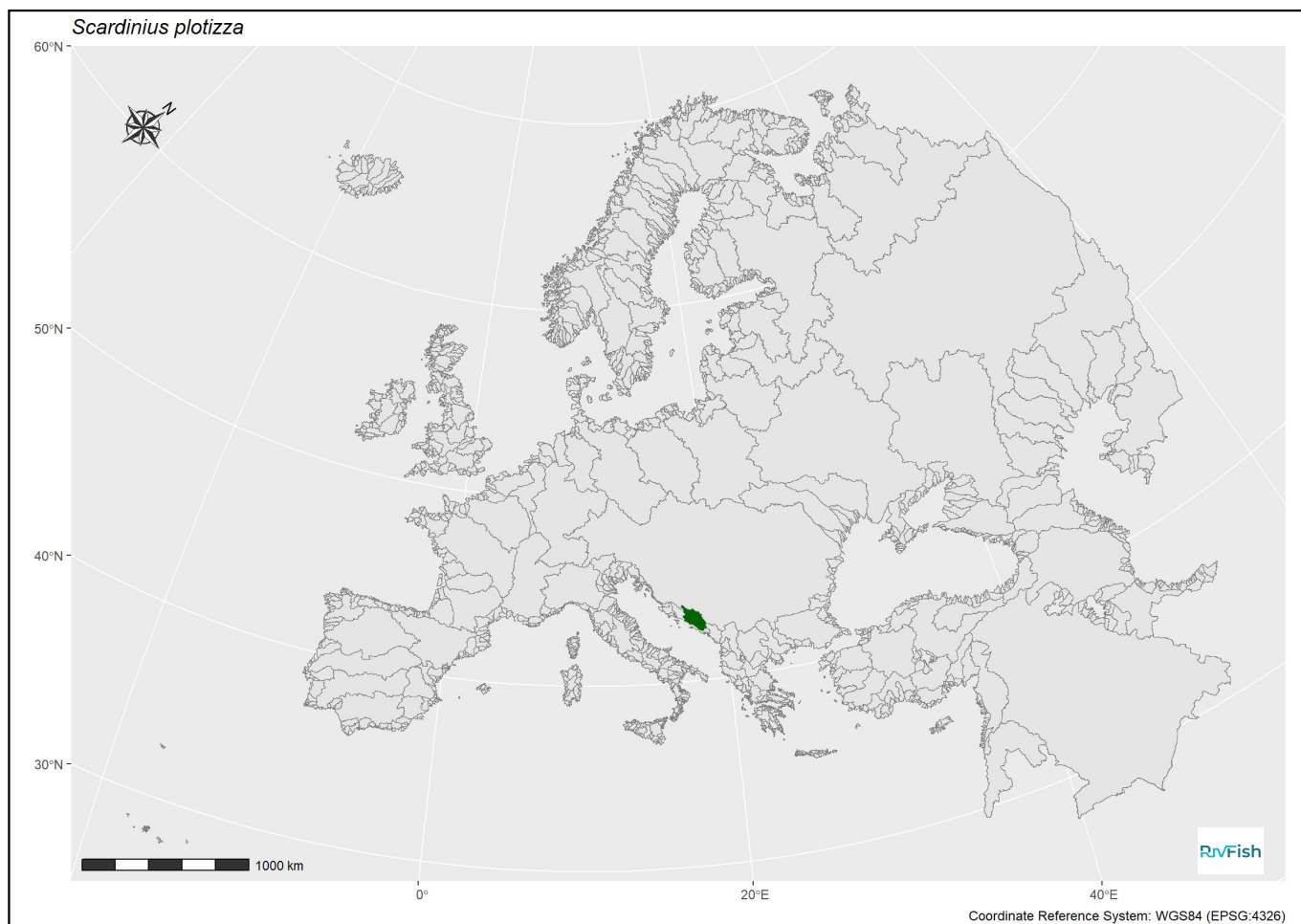
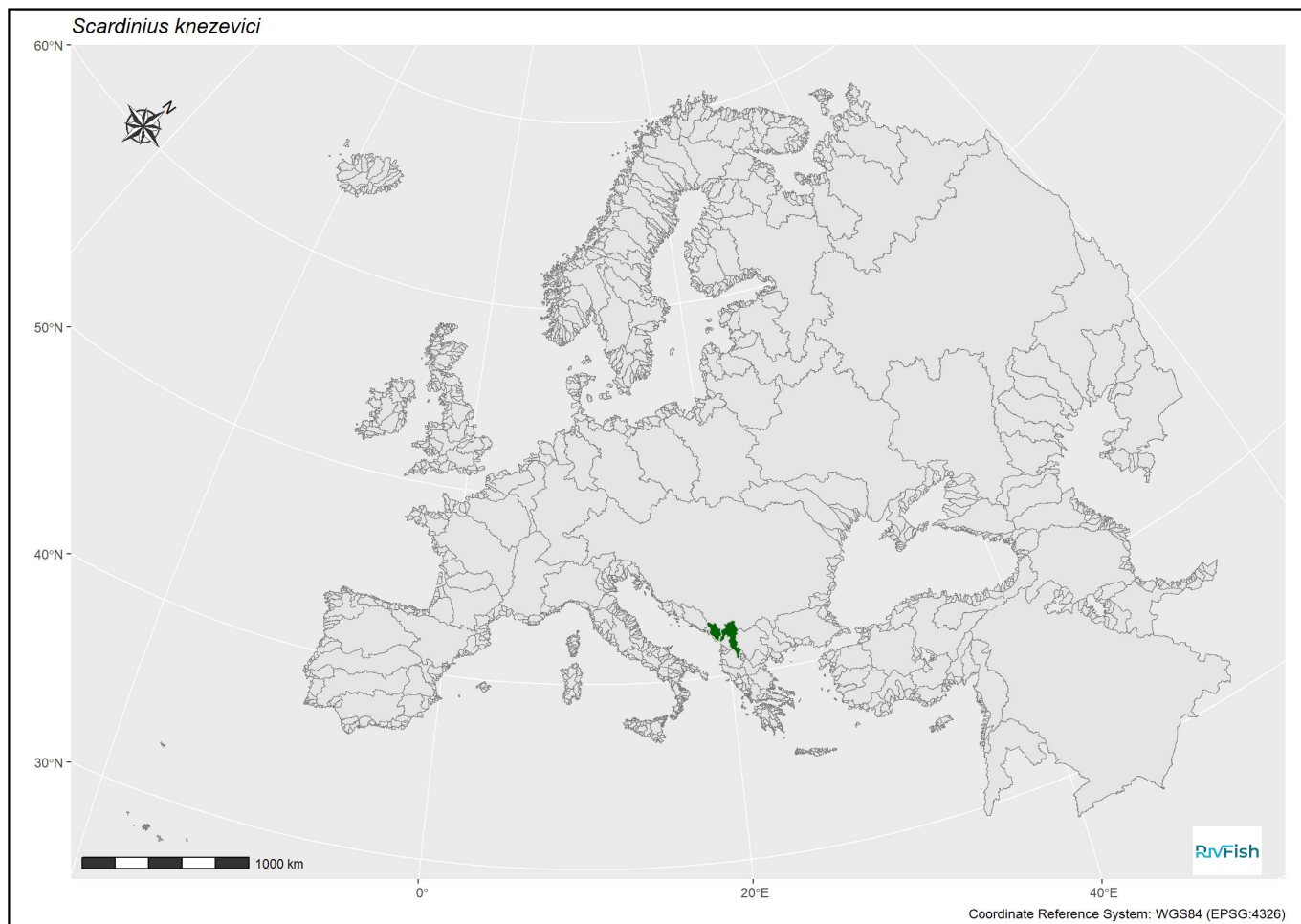


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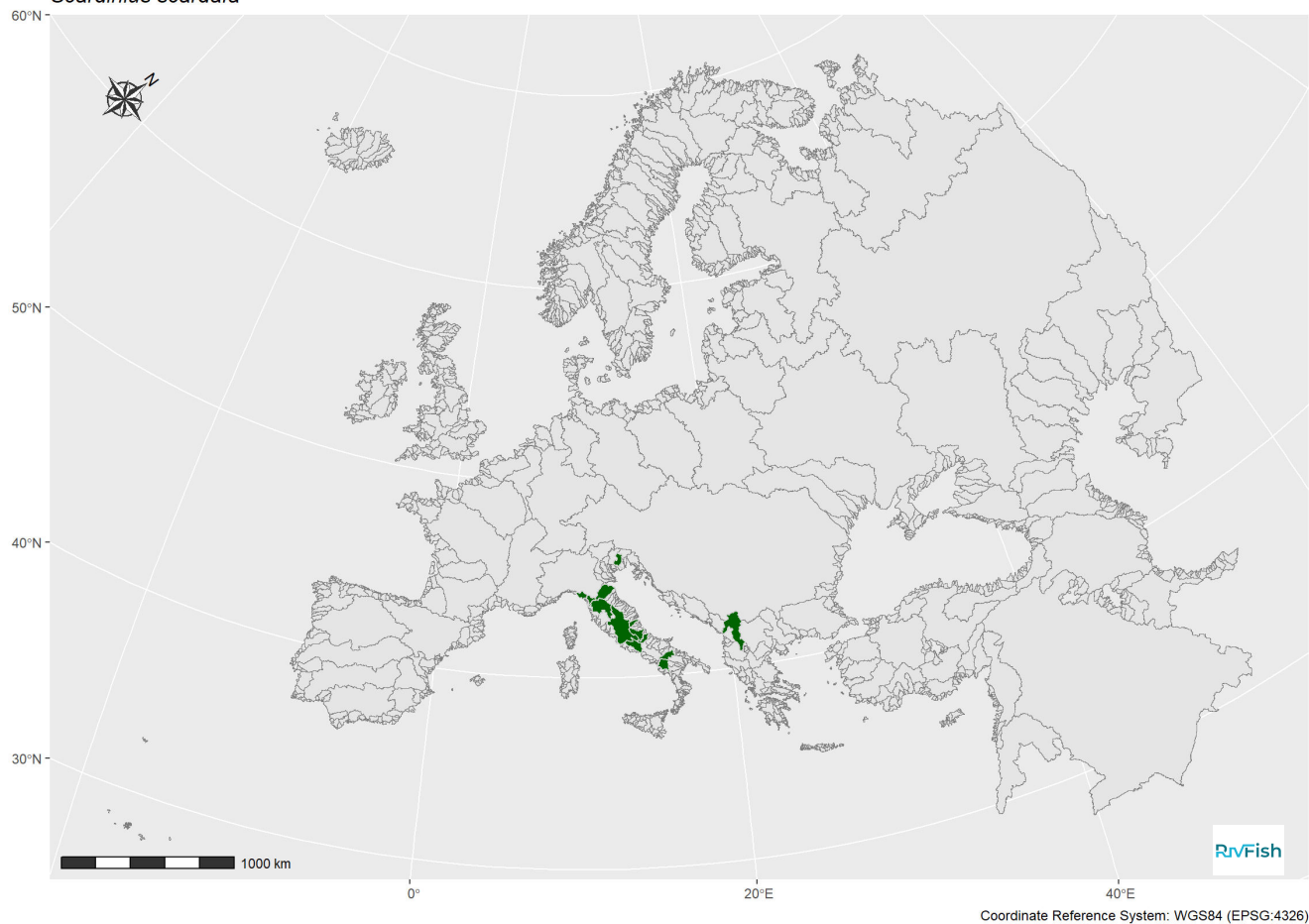
Scardinius hesperidicus



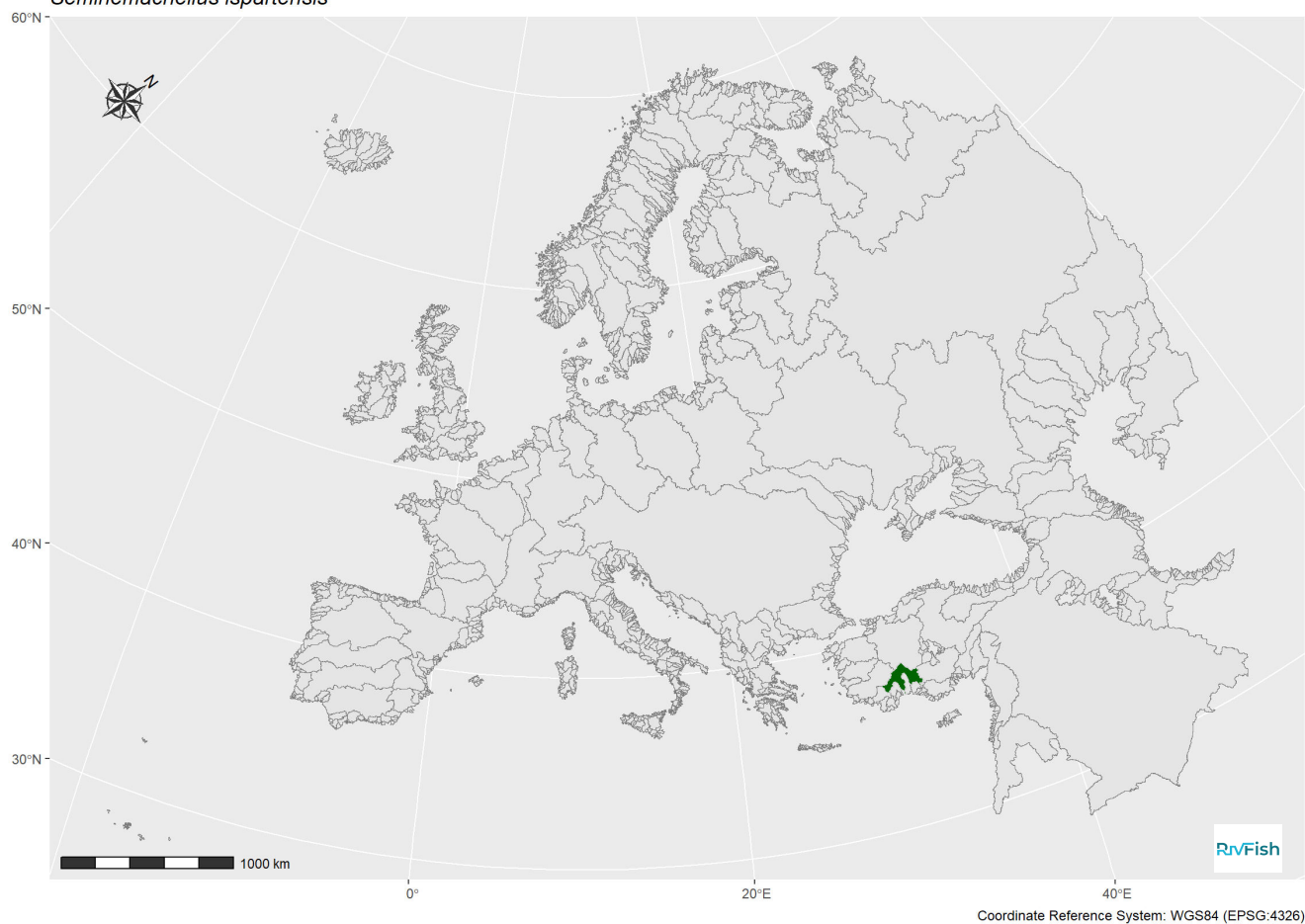
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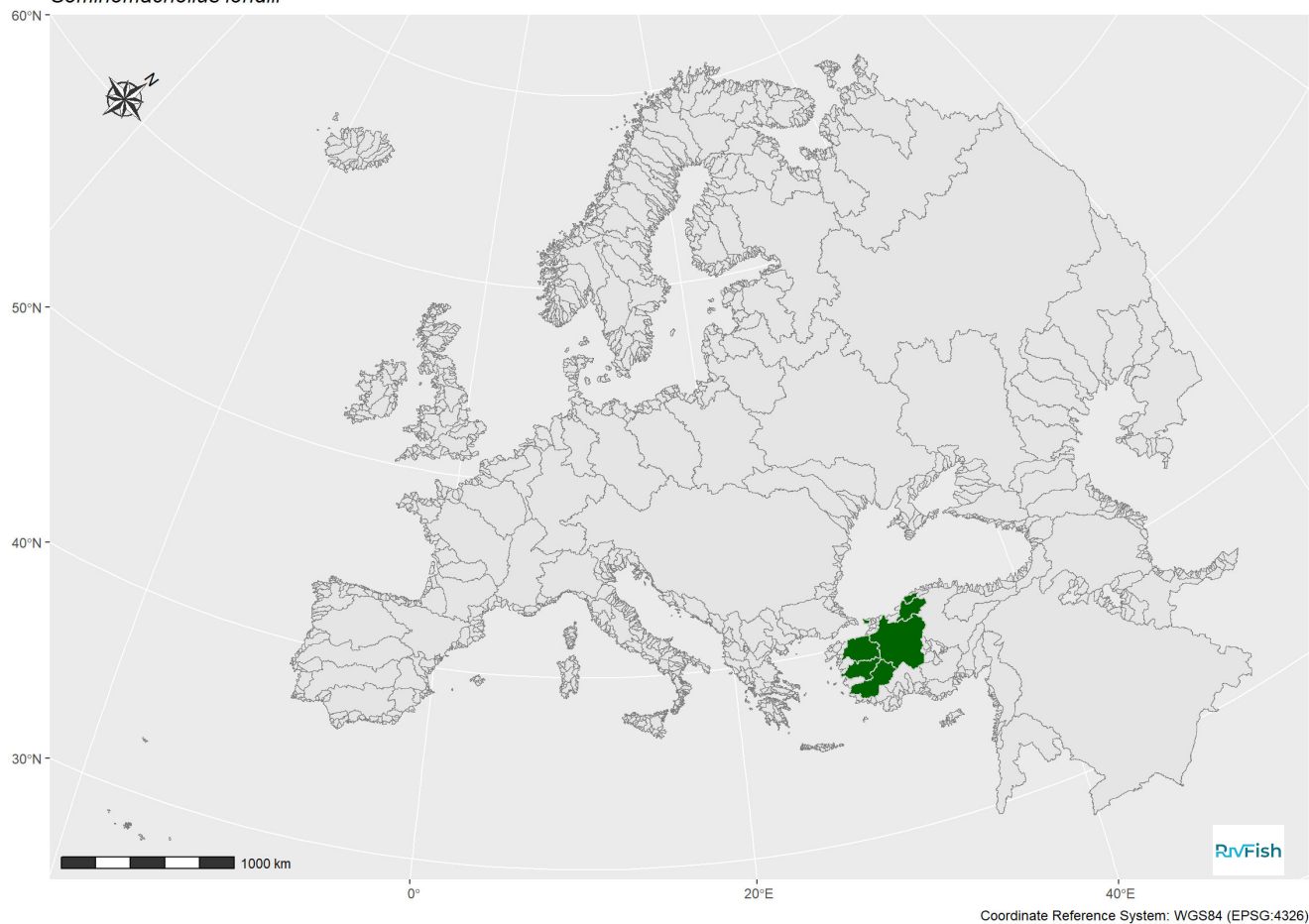
Scardinius scardafa



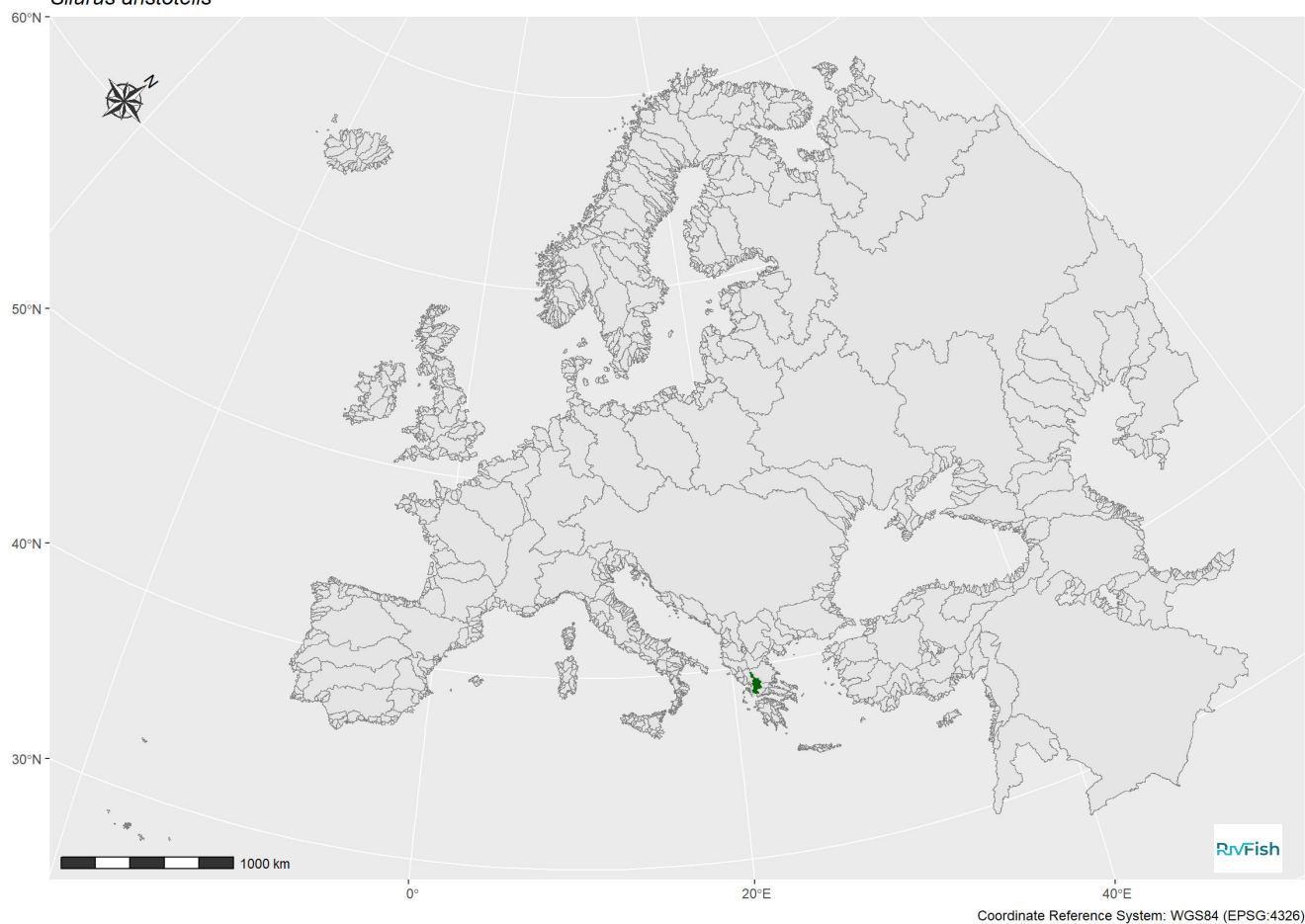
Seminemacheilus ispartensis

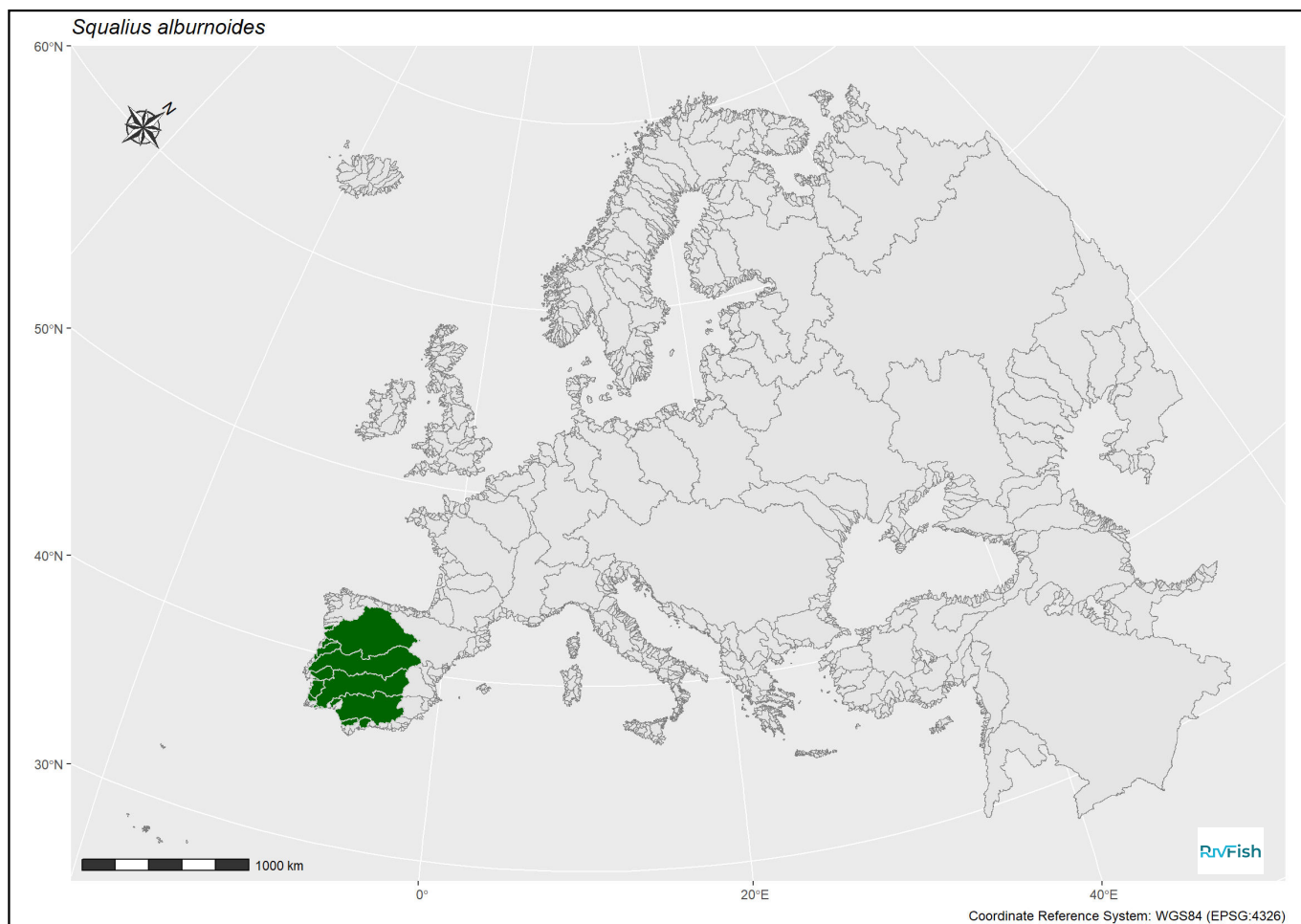
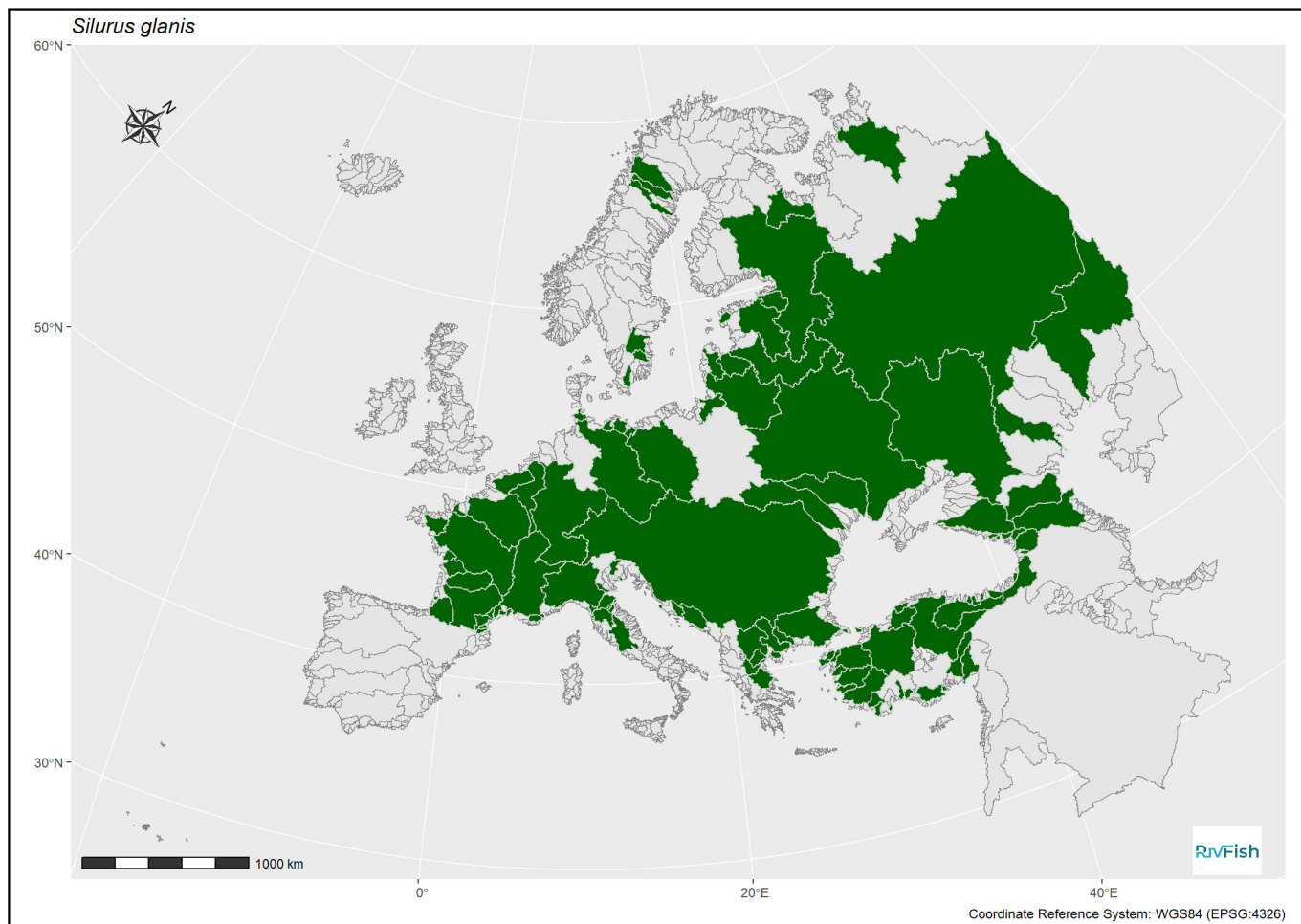


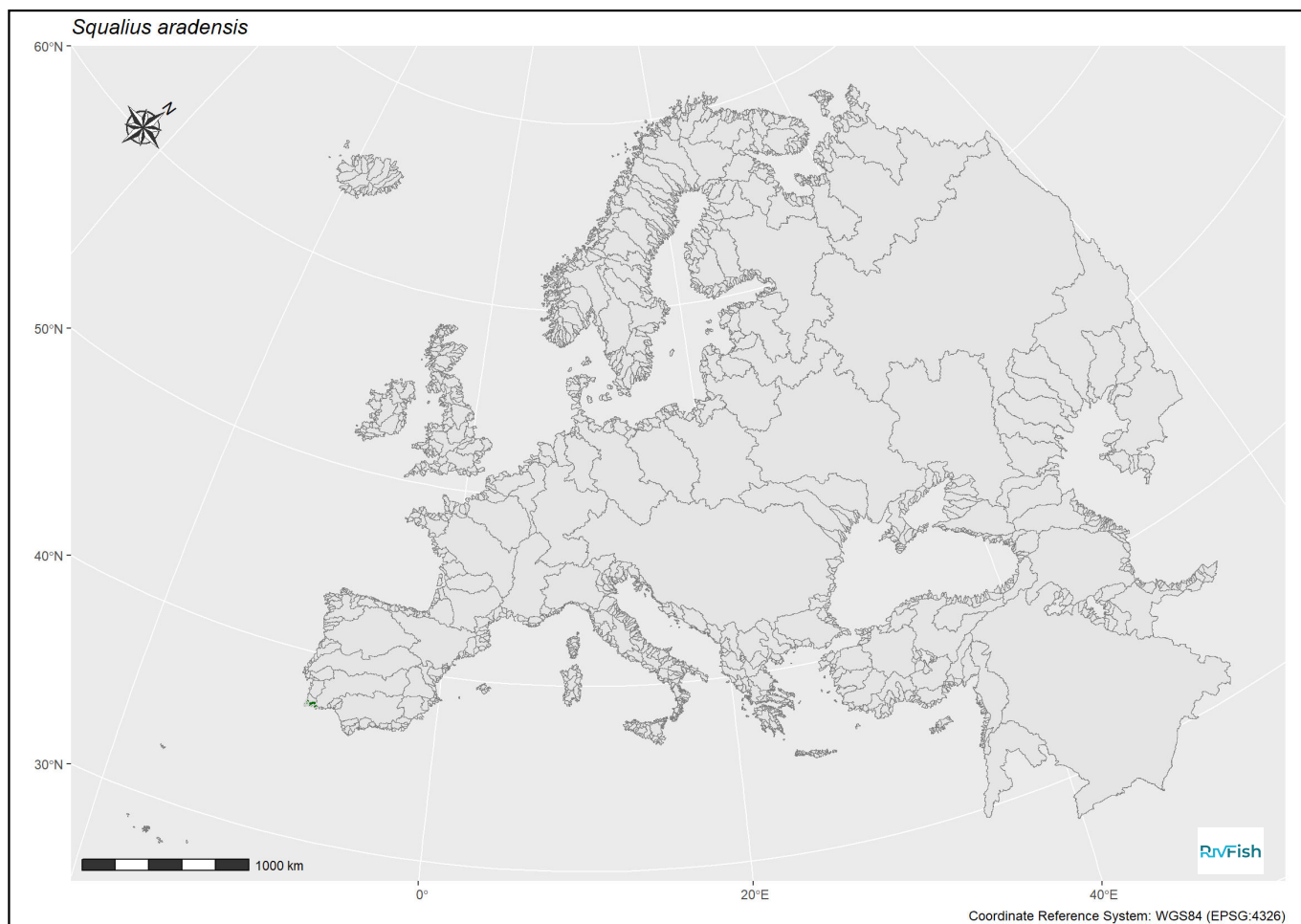
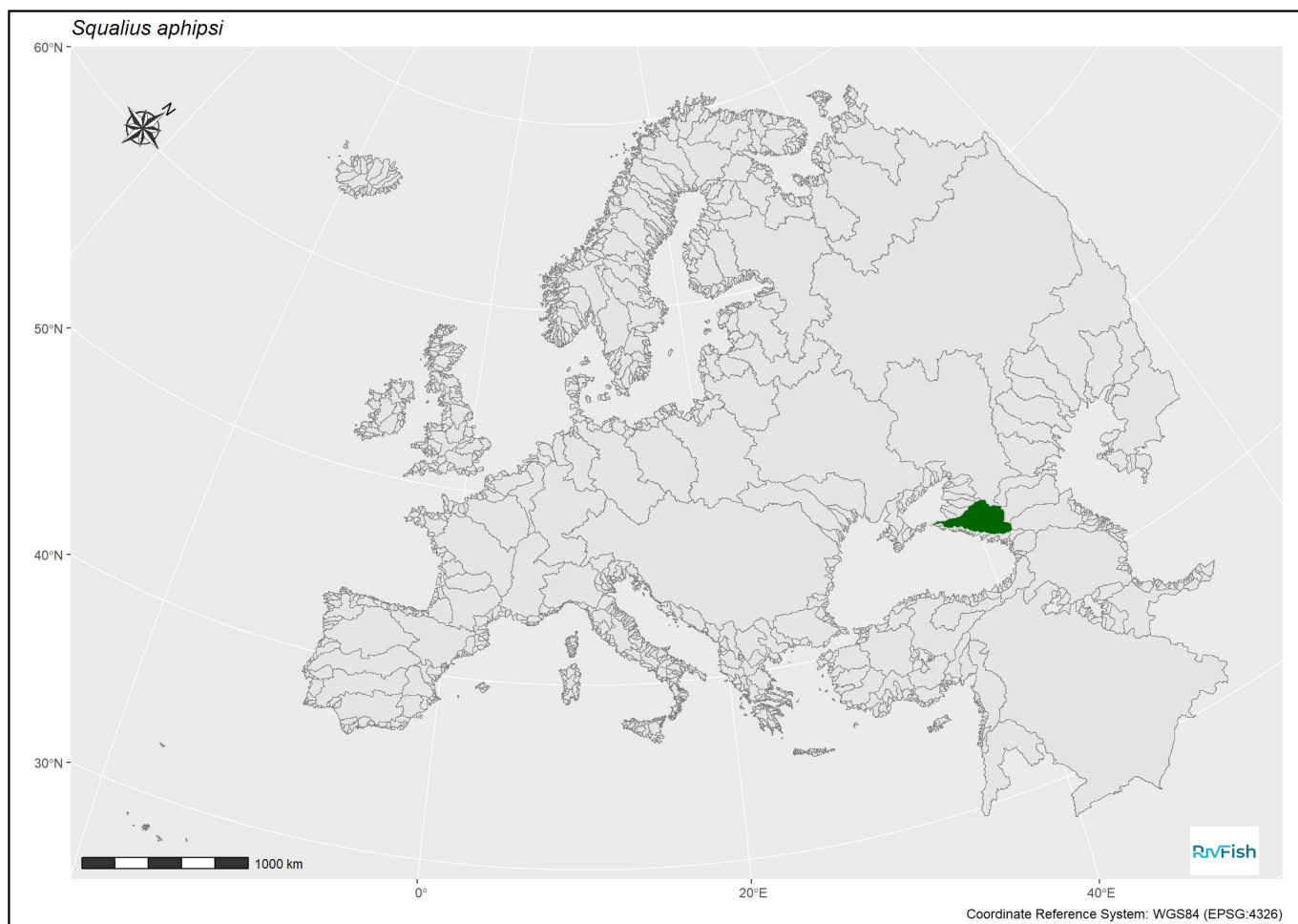
Seminemacheilus lendlii

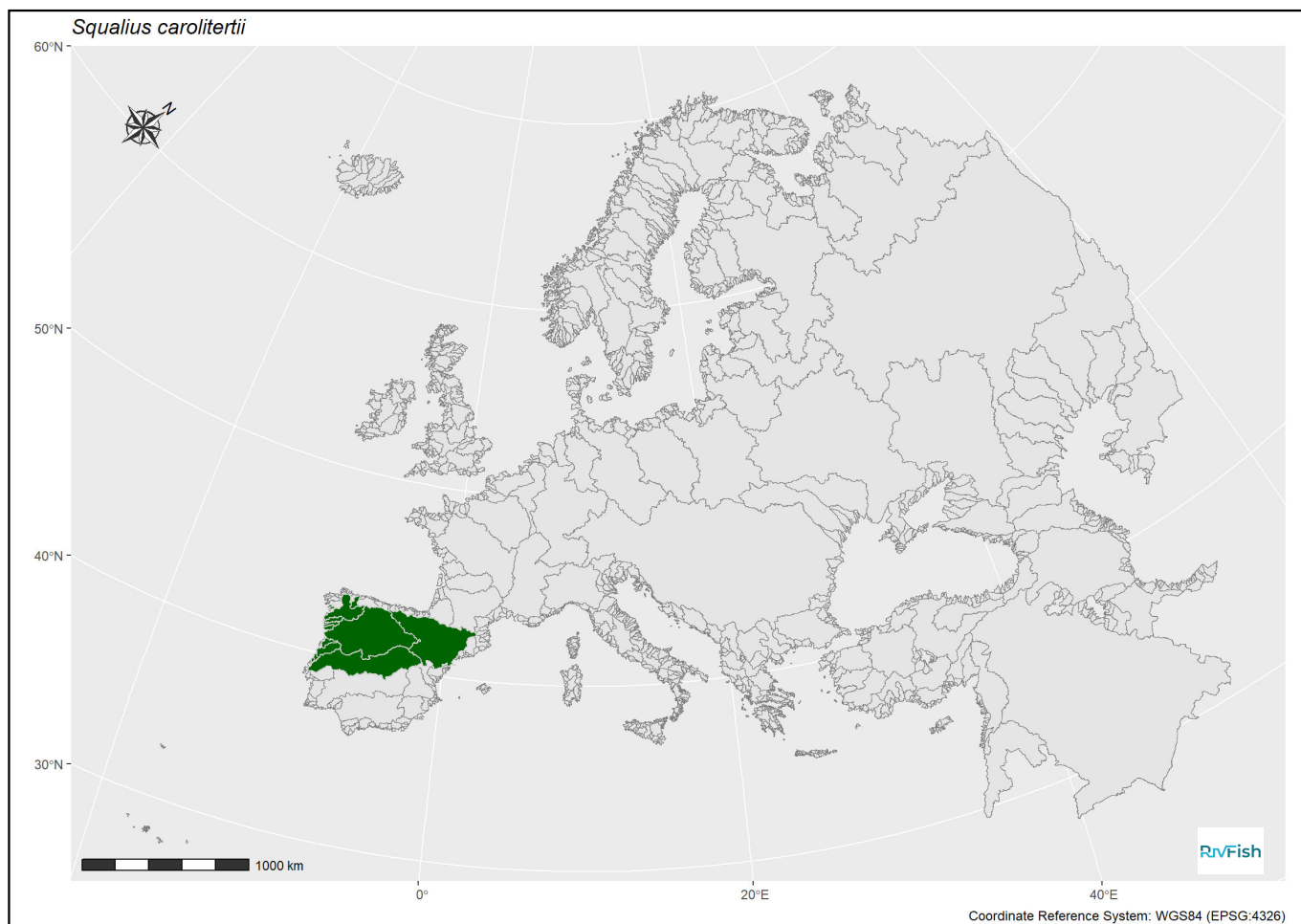
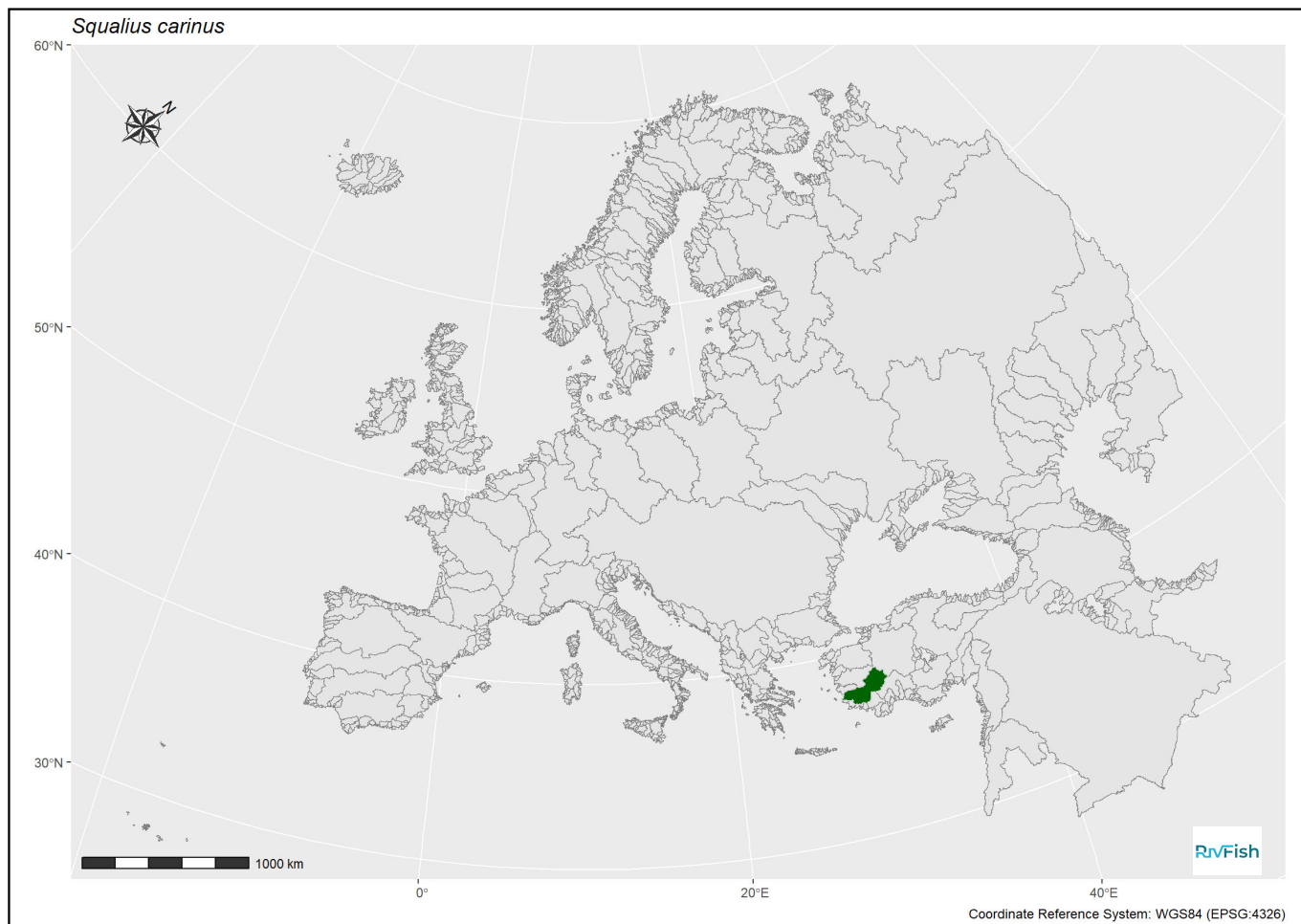


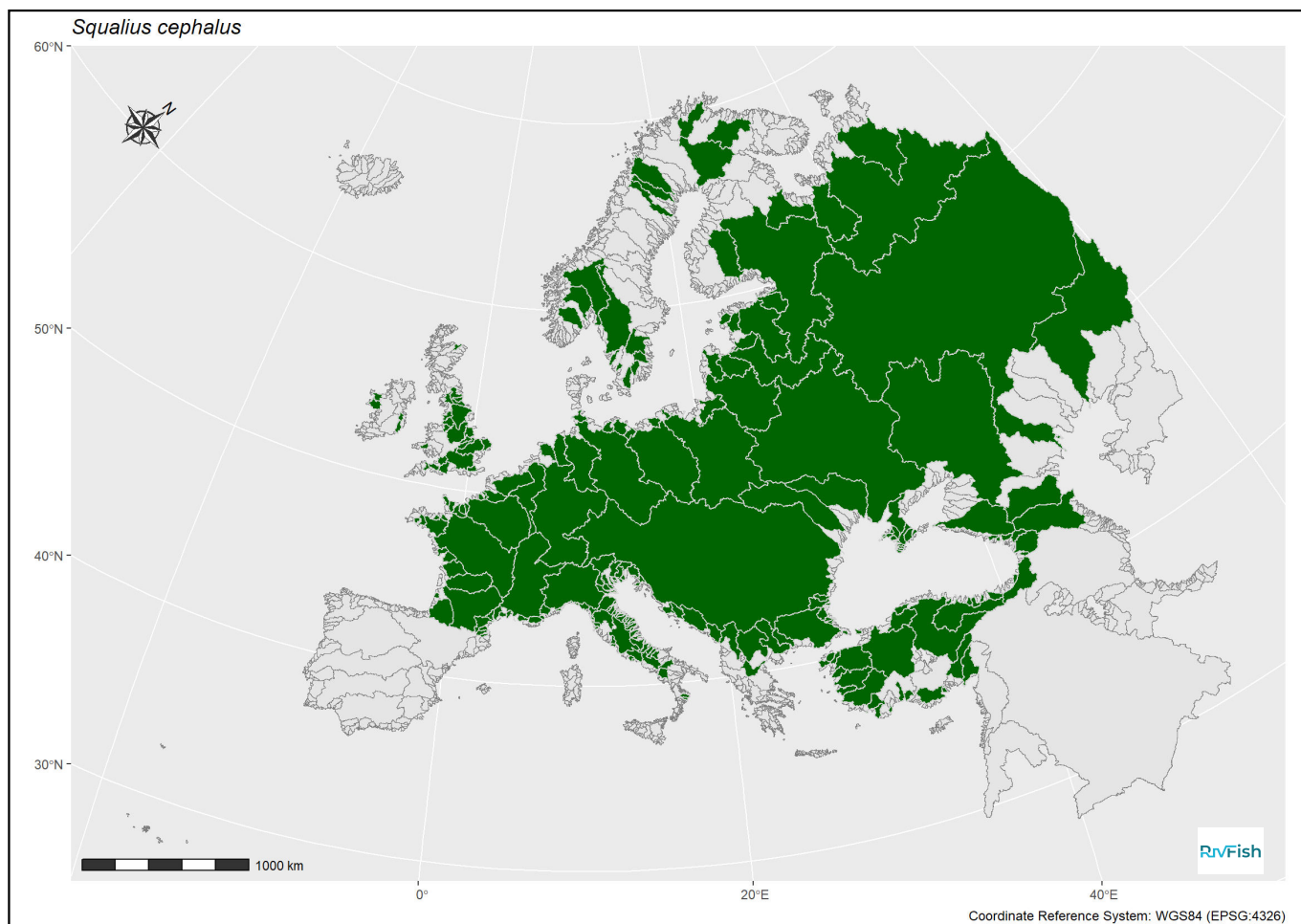
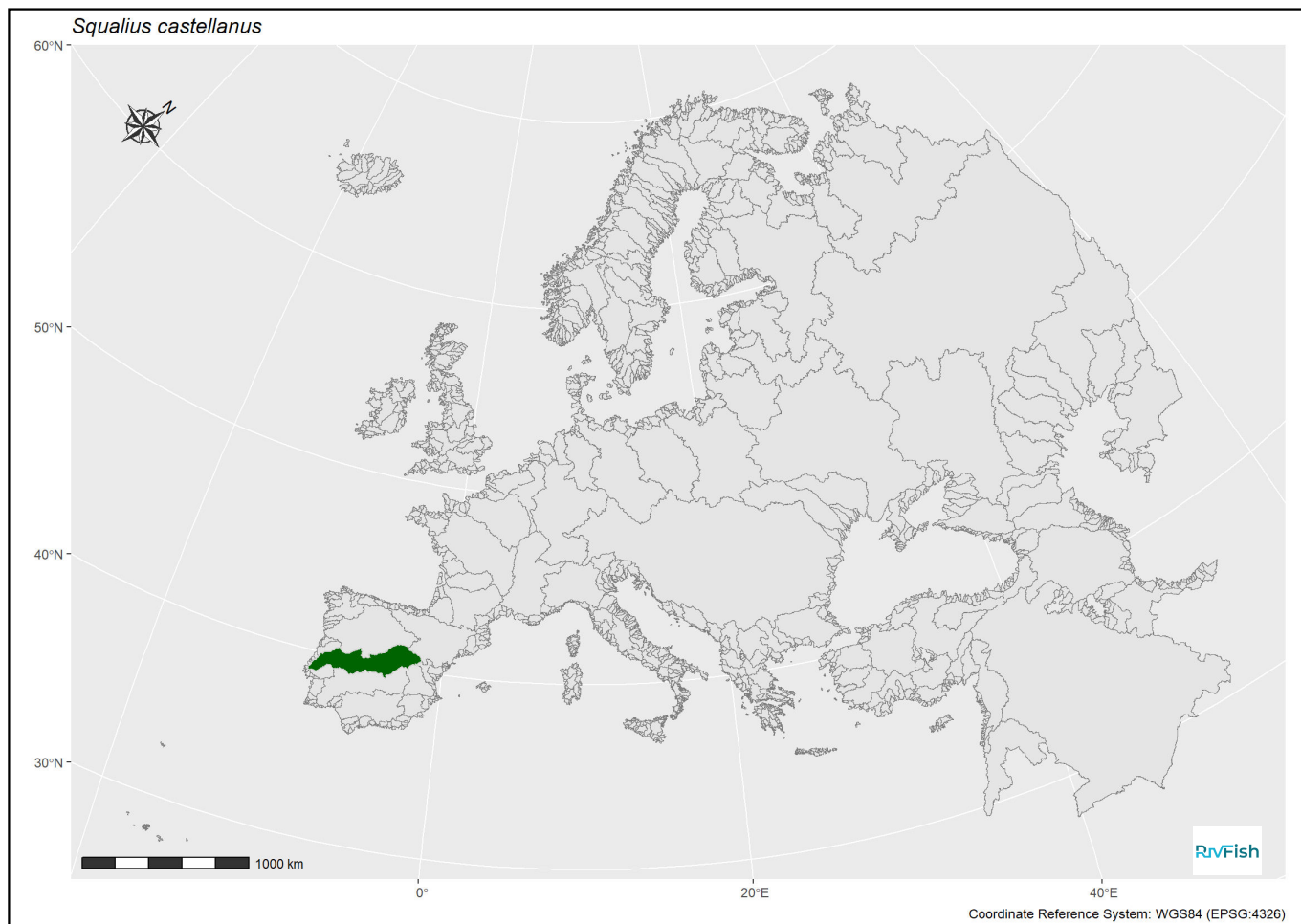
Silurus aristotelis

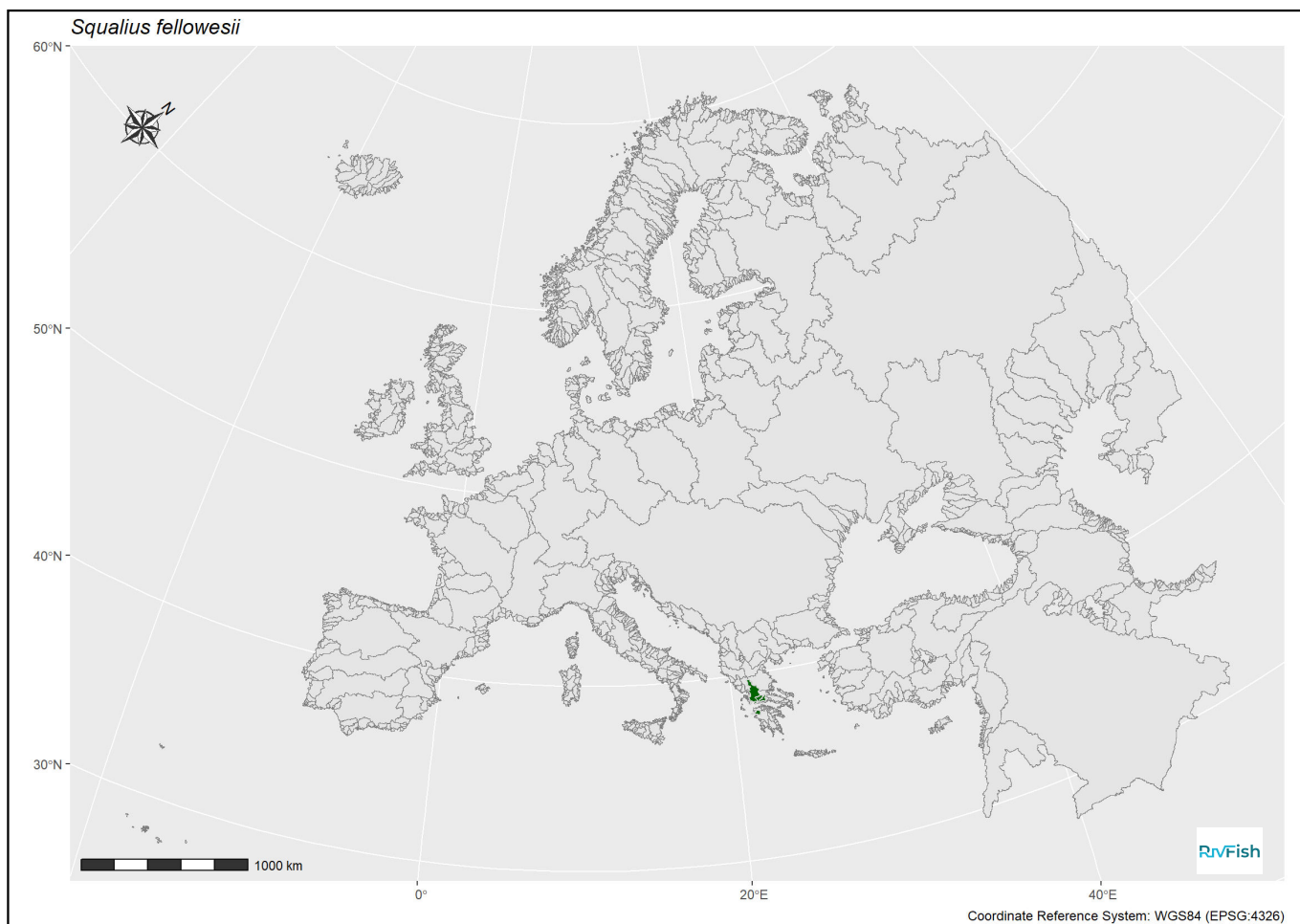


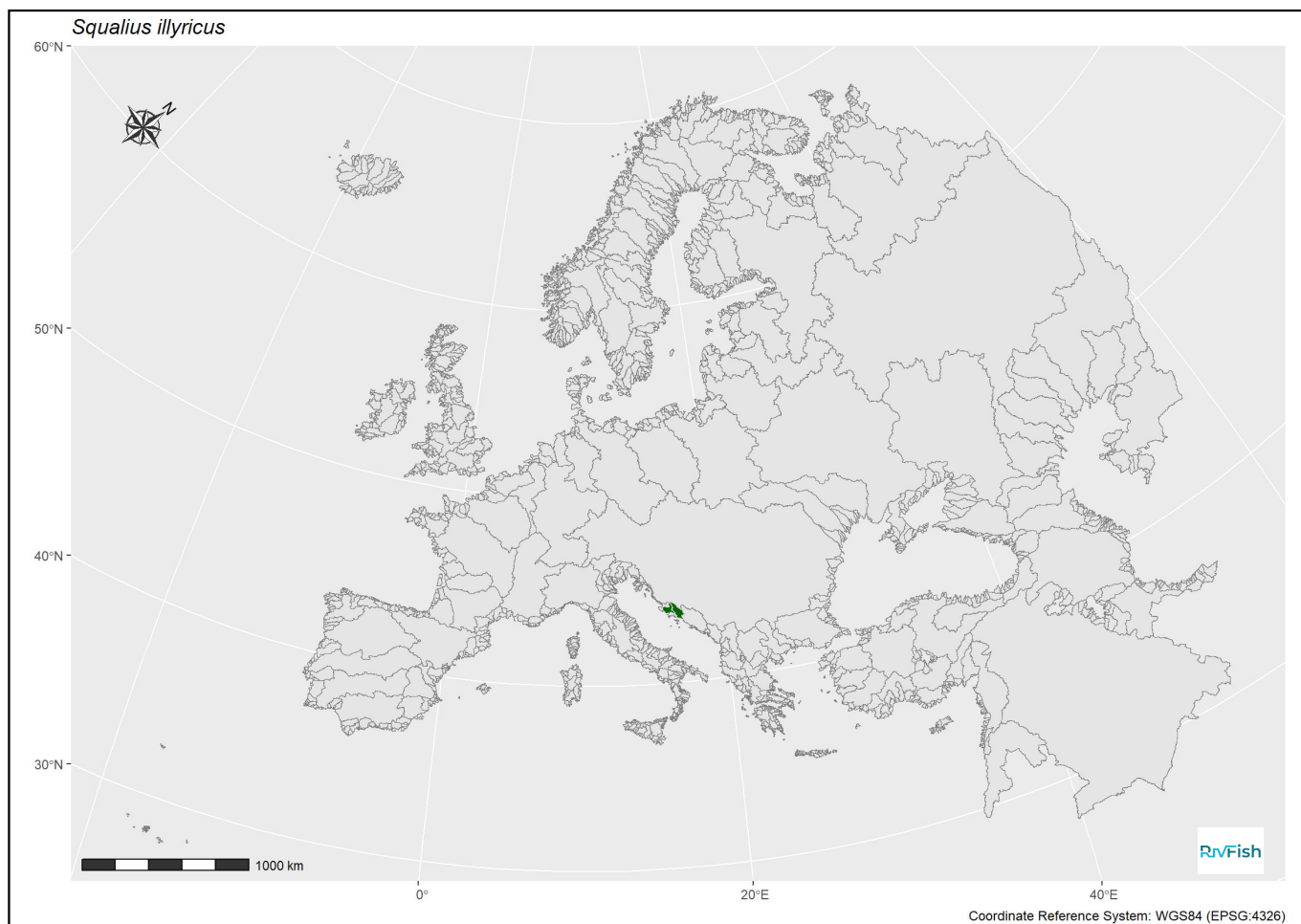
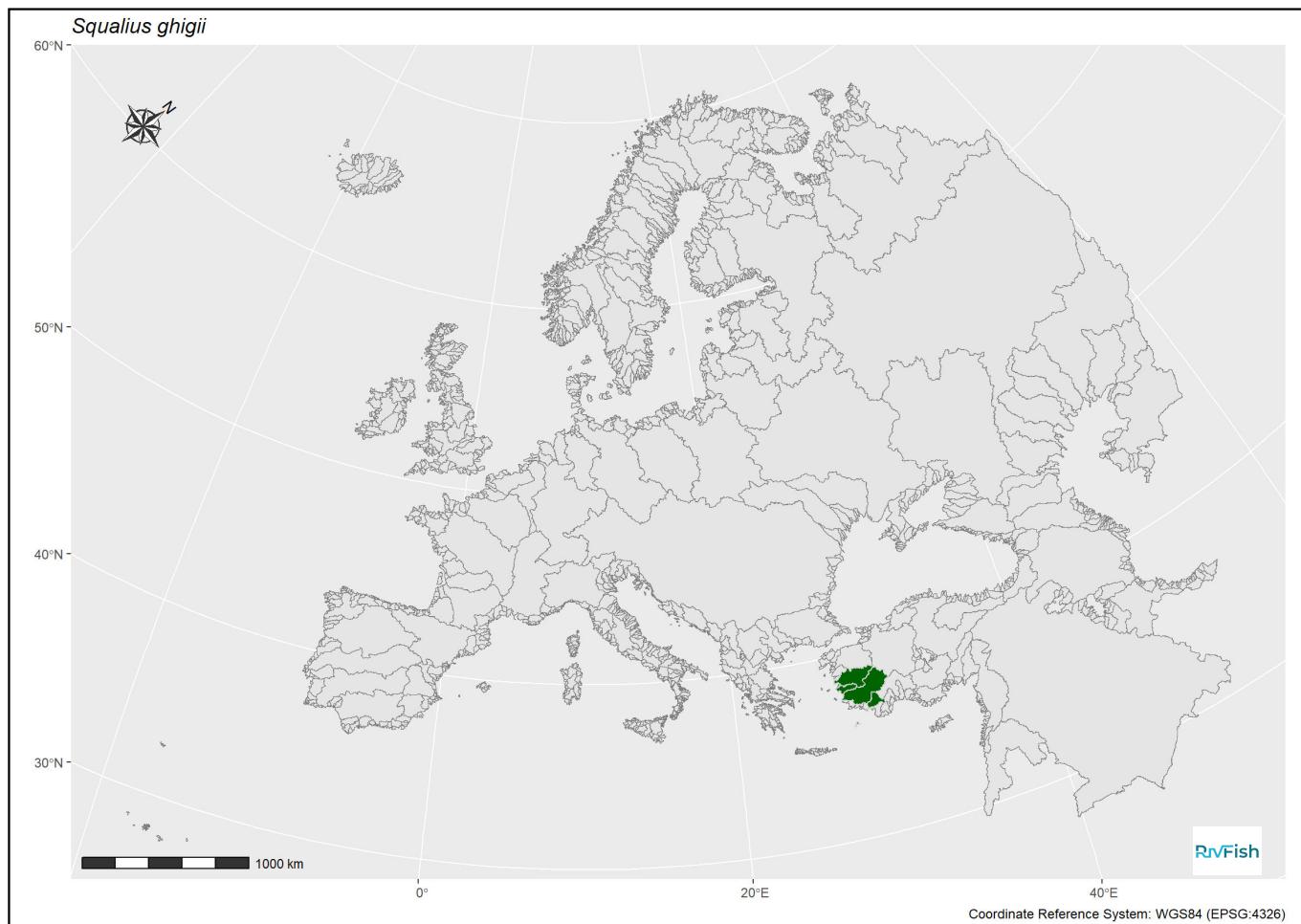


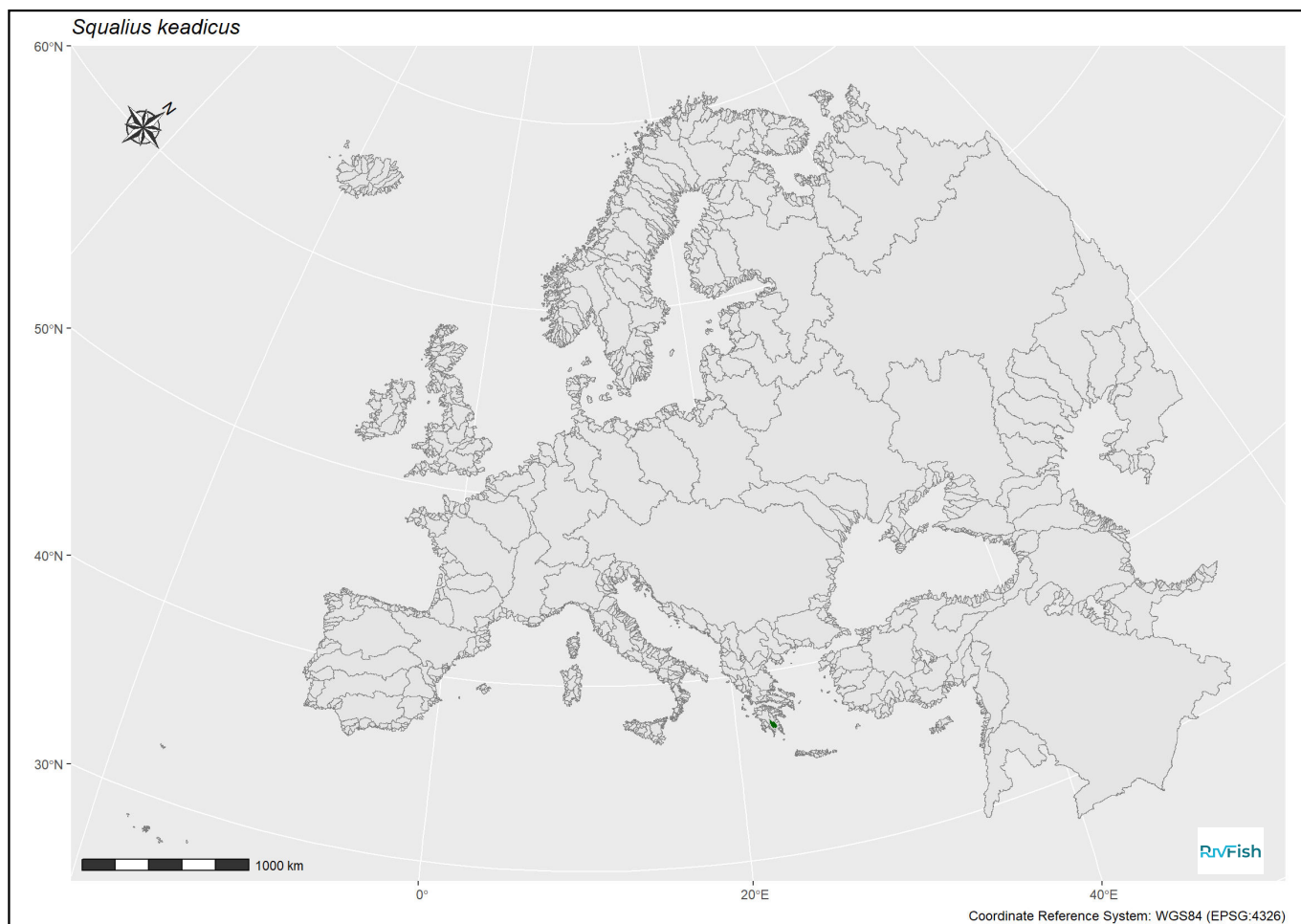
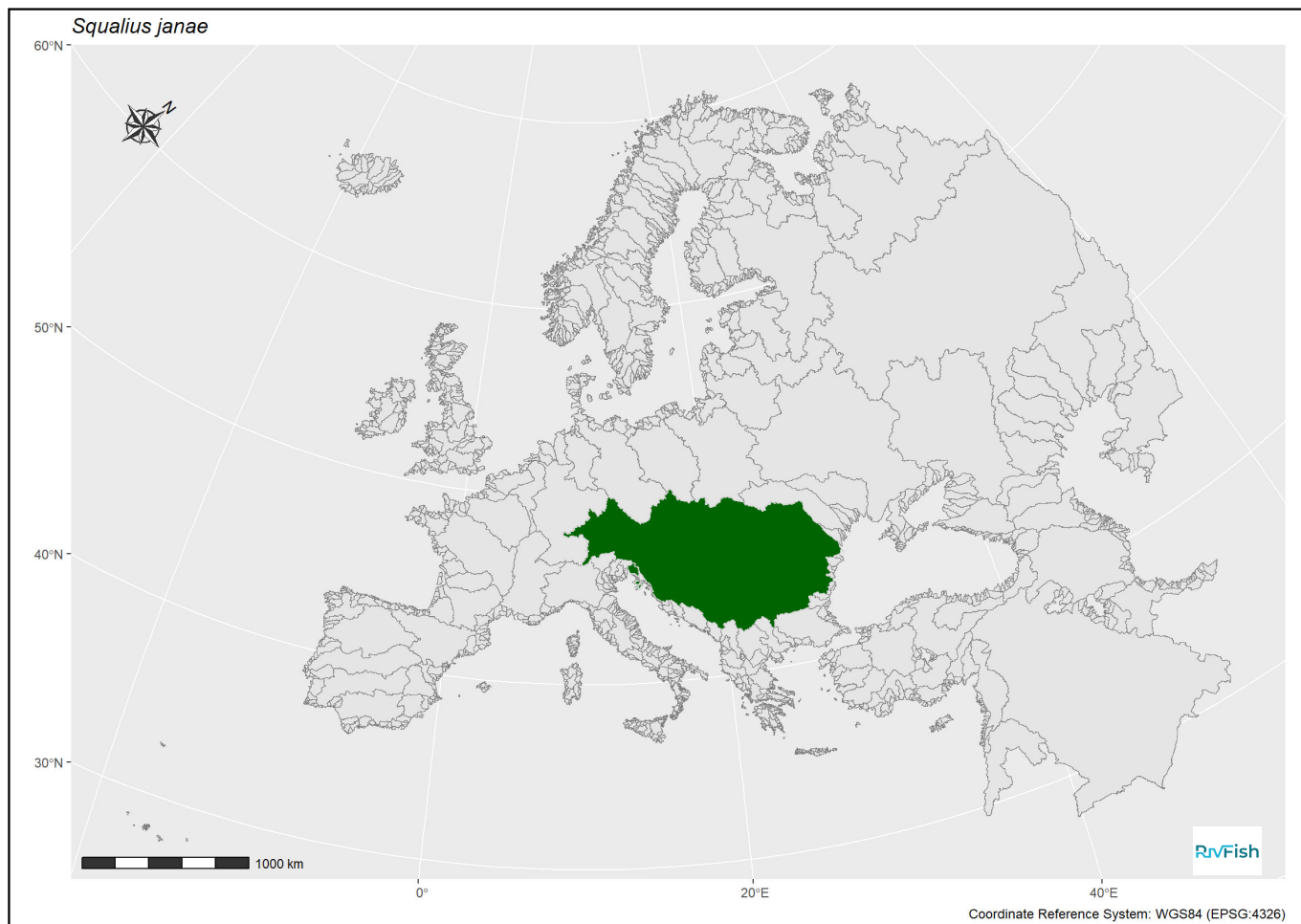


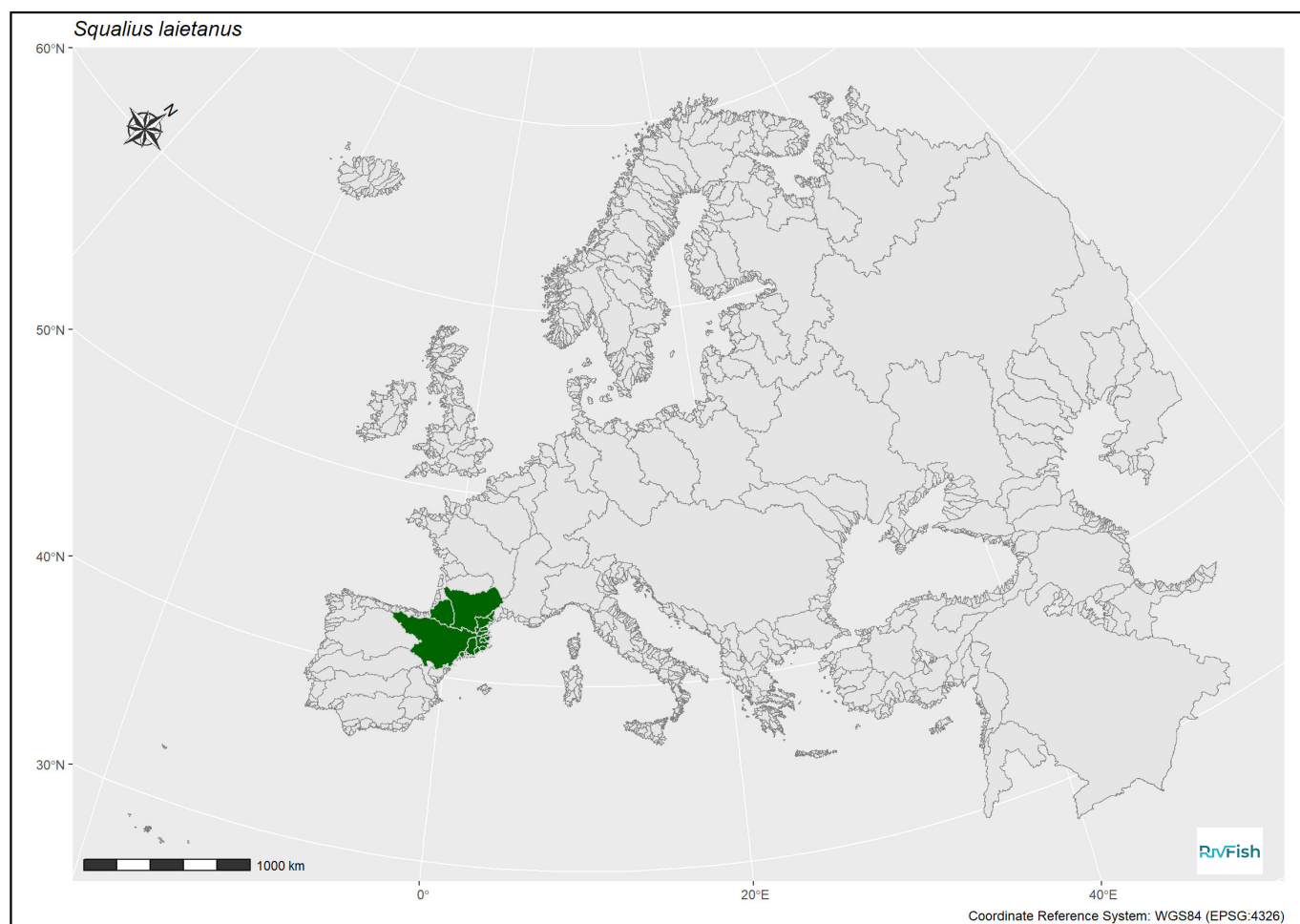
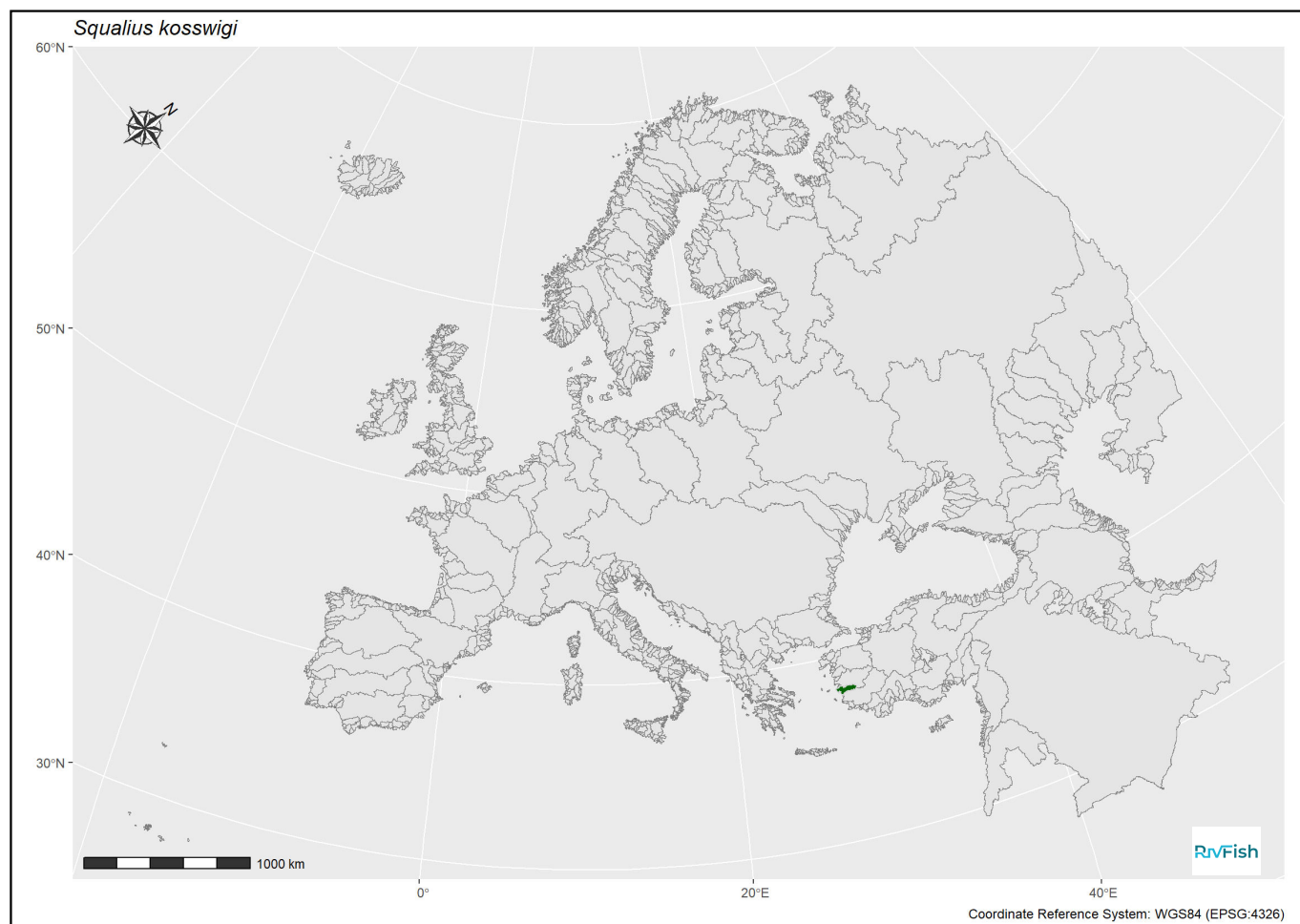


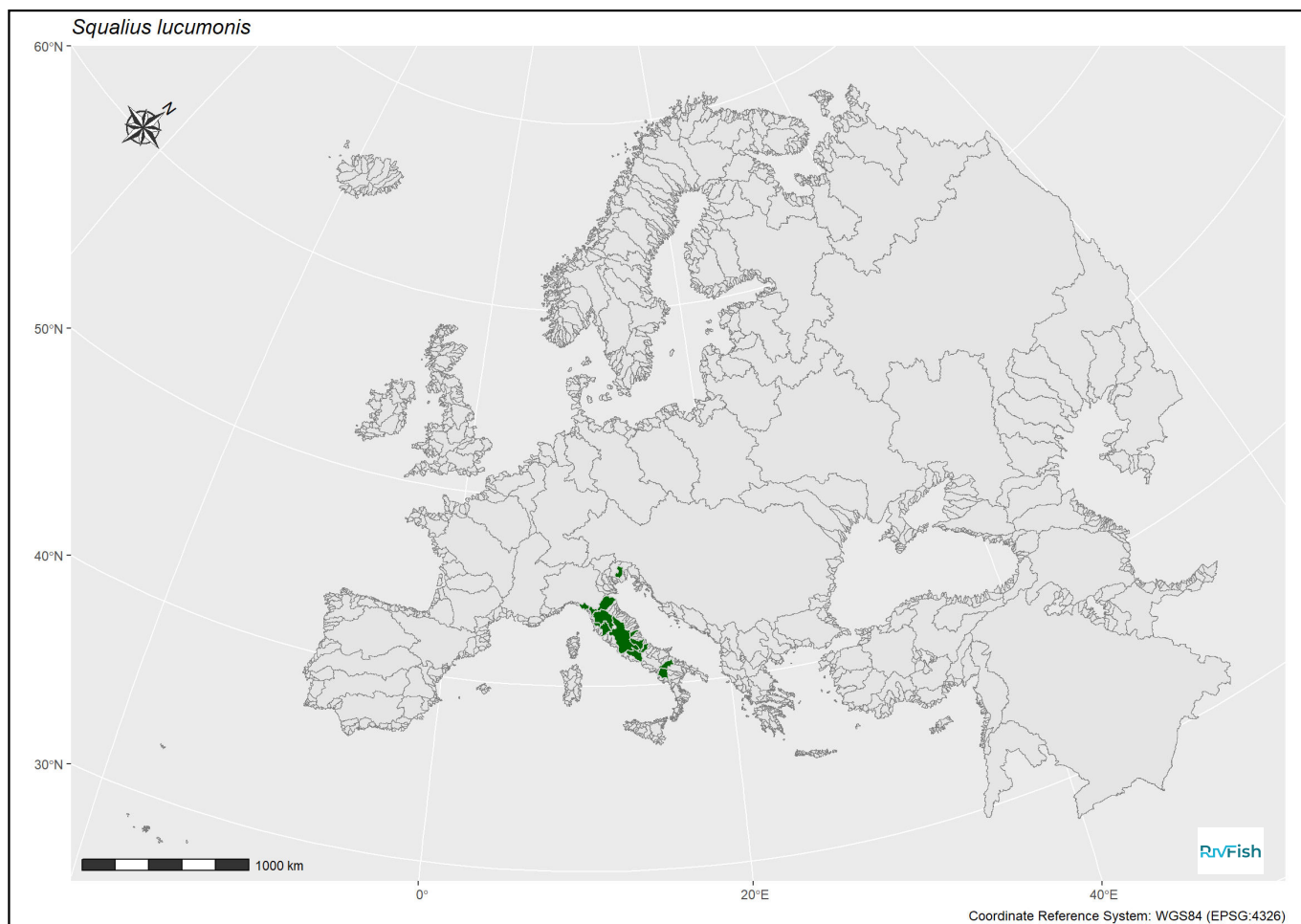
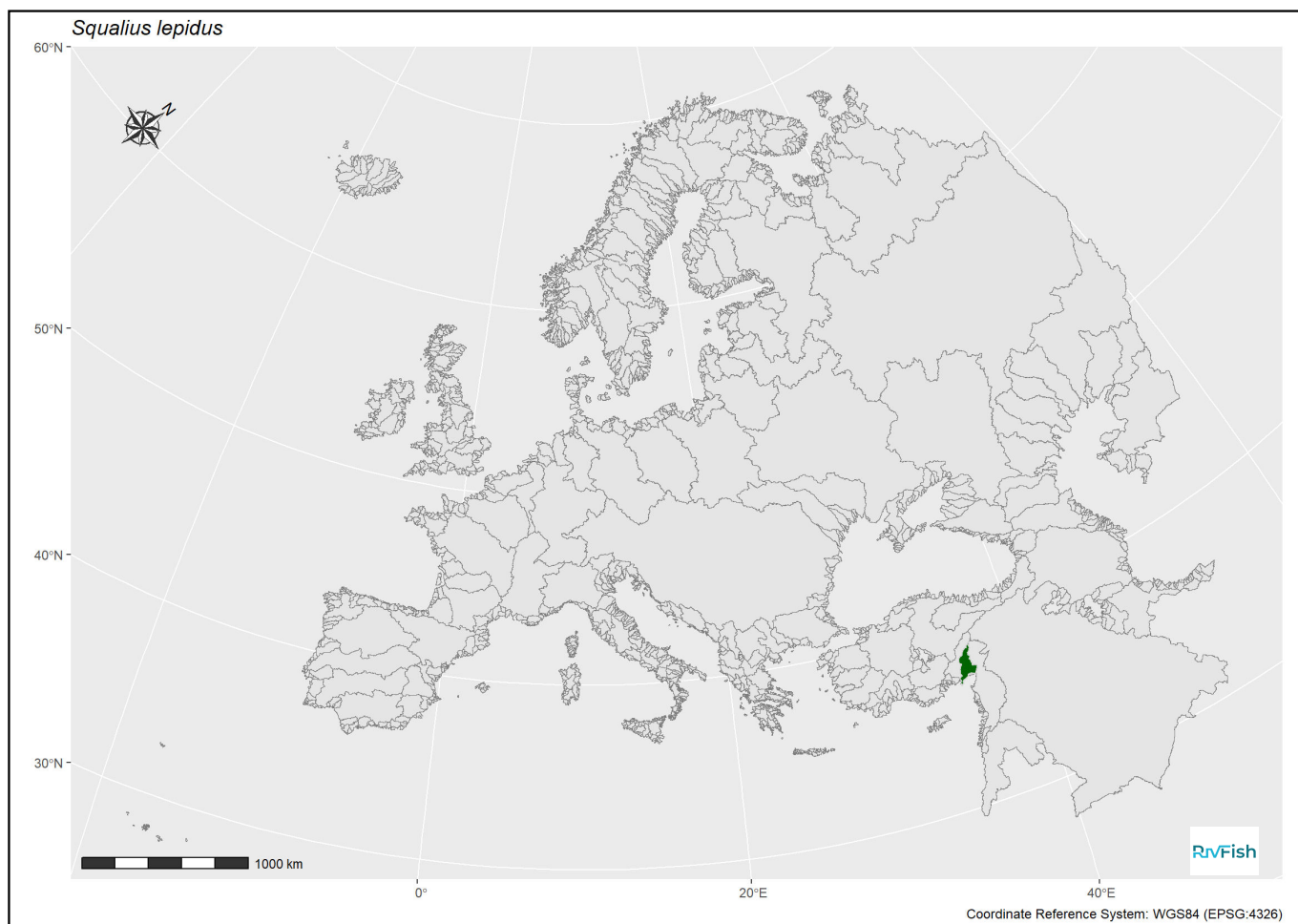










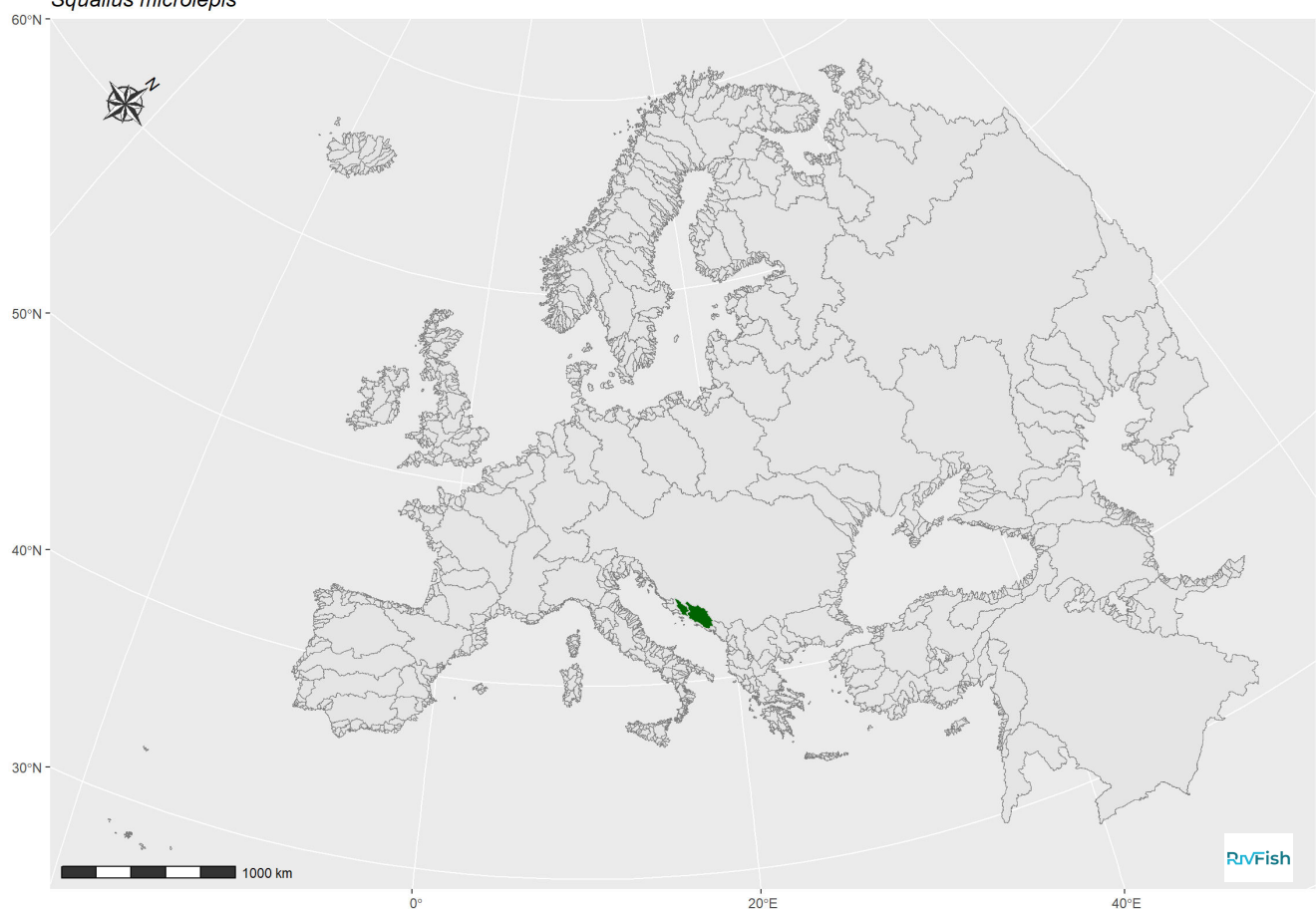


Squalius malacitanus



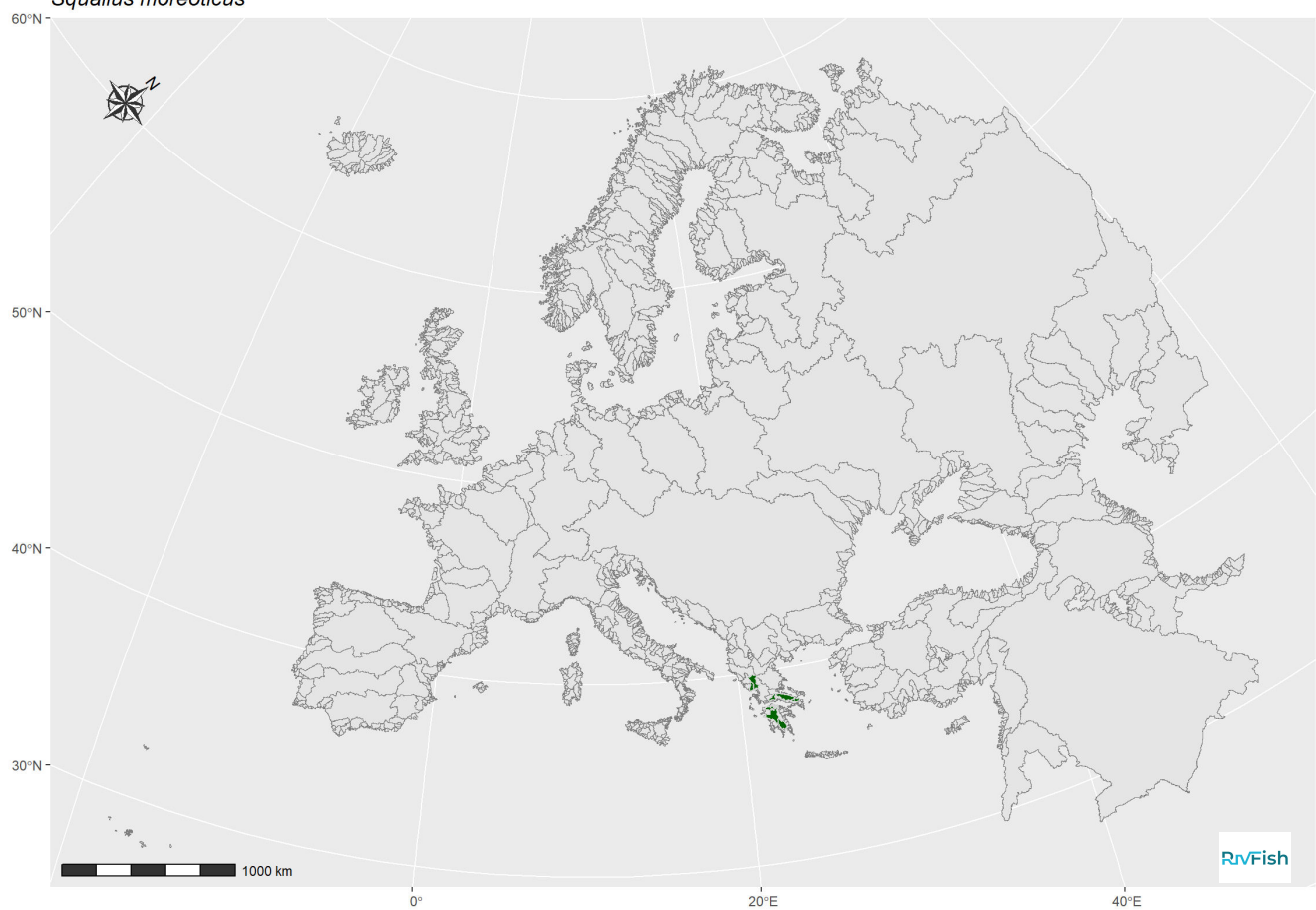
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Squalius microlepis



Coordinate Reference System: WGS84 (EPSG:4326)

Squalius moreoticus



Coordinate Reference System: WGS84 (EPSG:4326)

Squalius orpheus



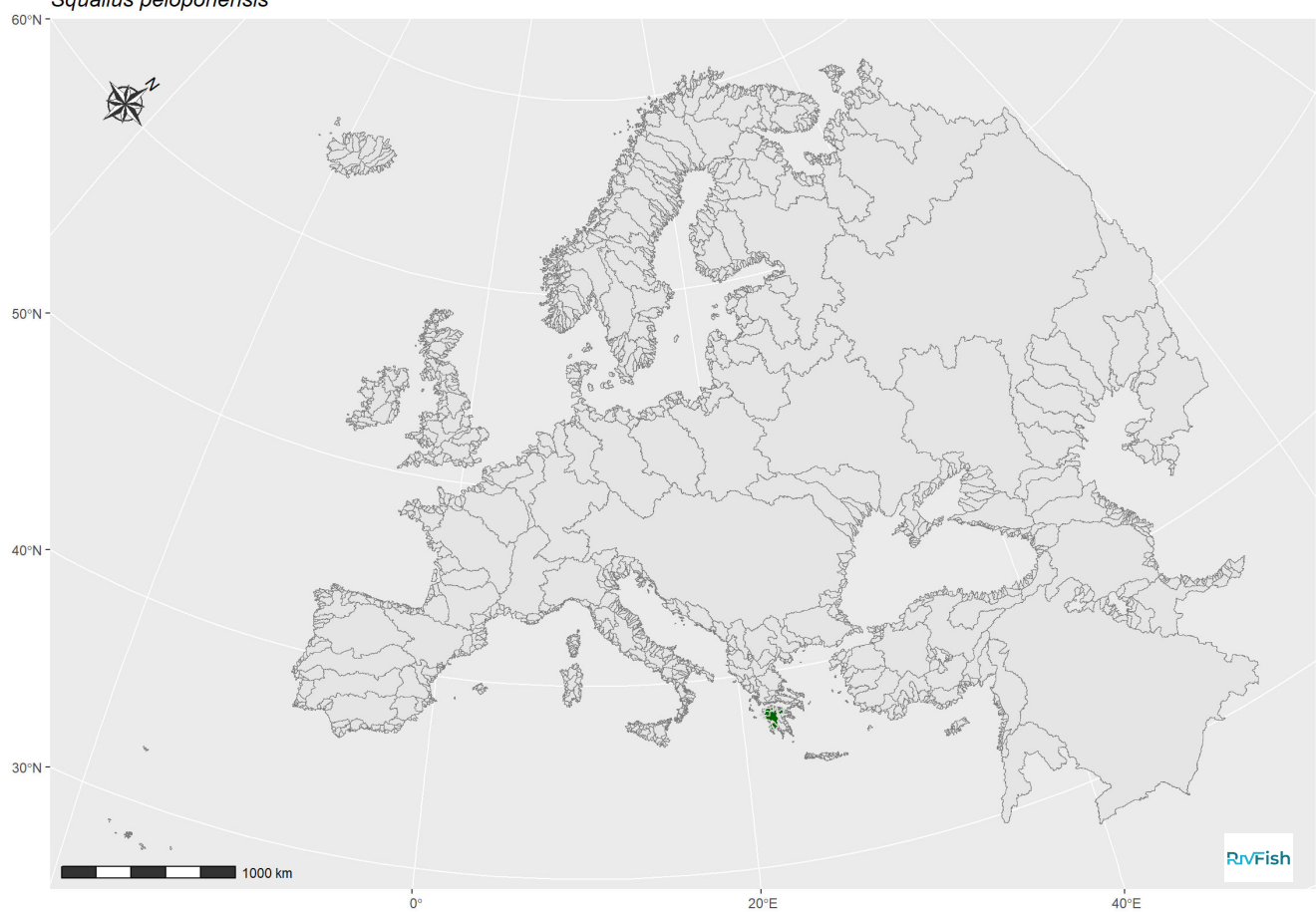
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Squalius pamvoticus

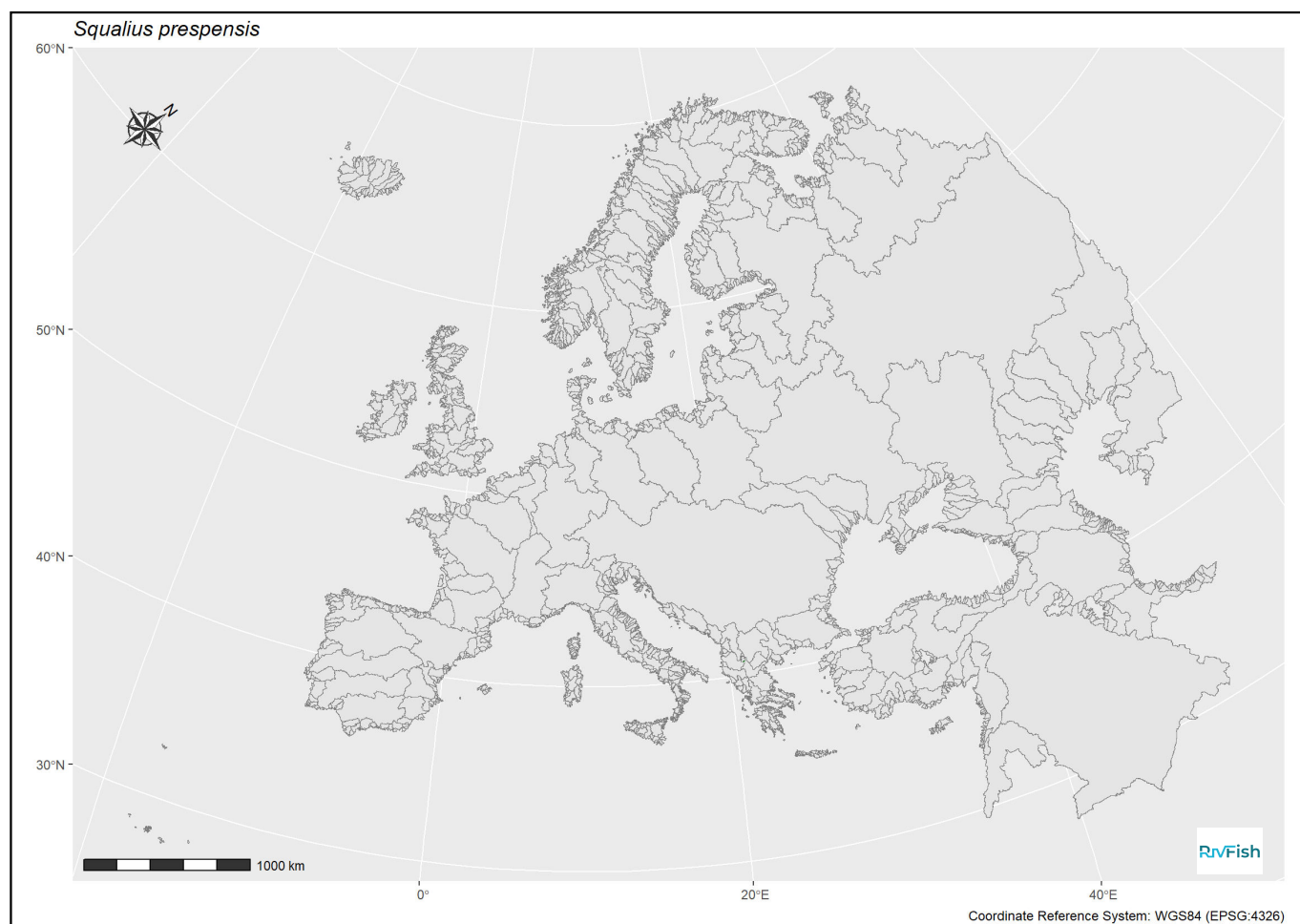
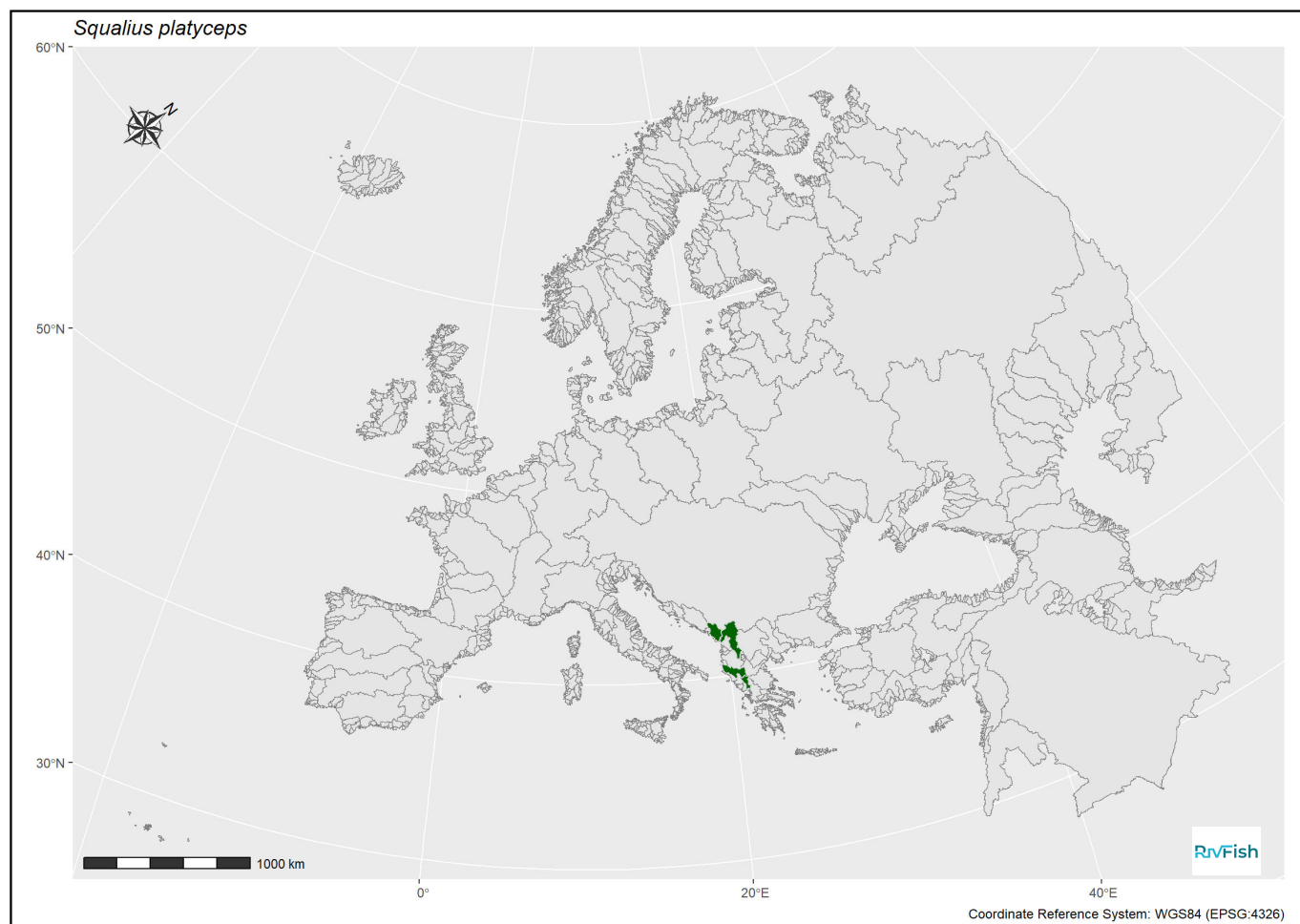


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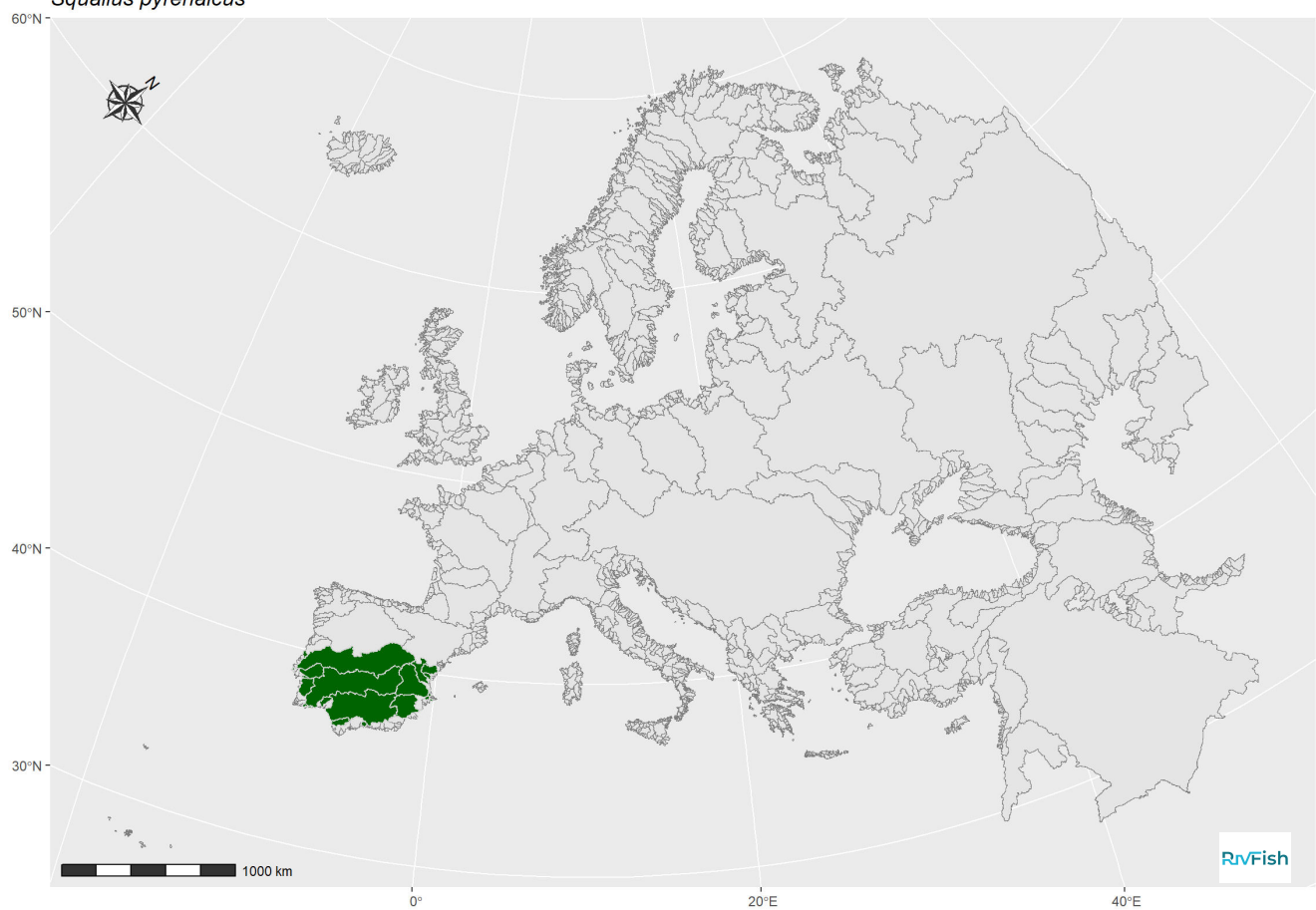
Squalius peloponensis



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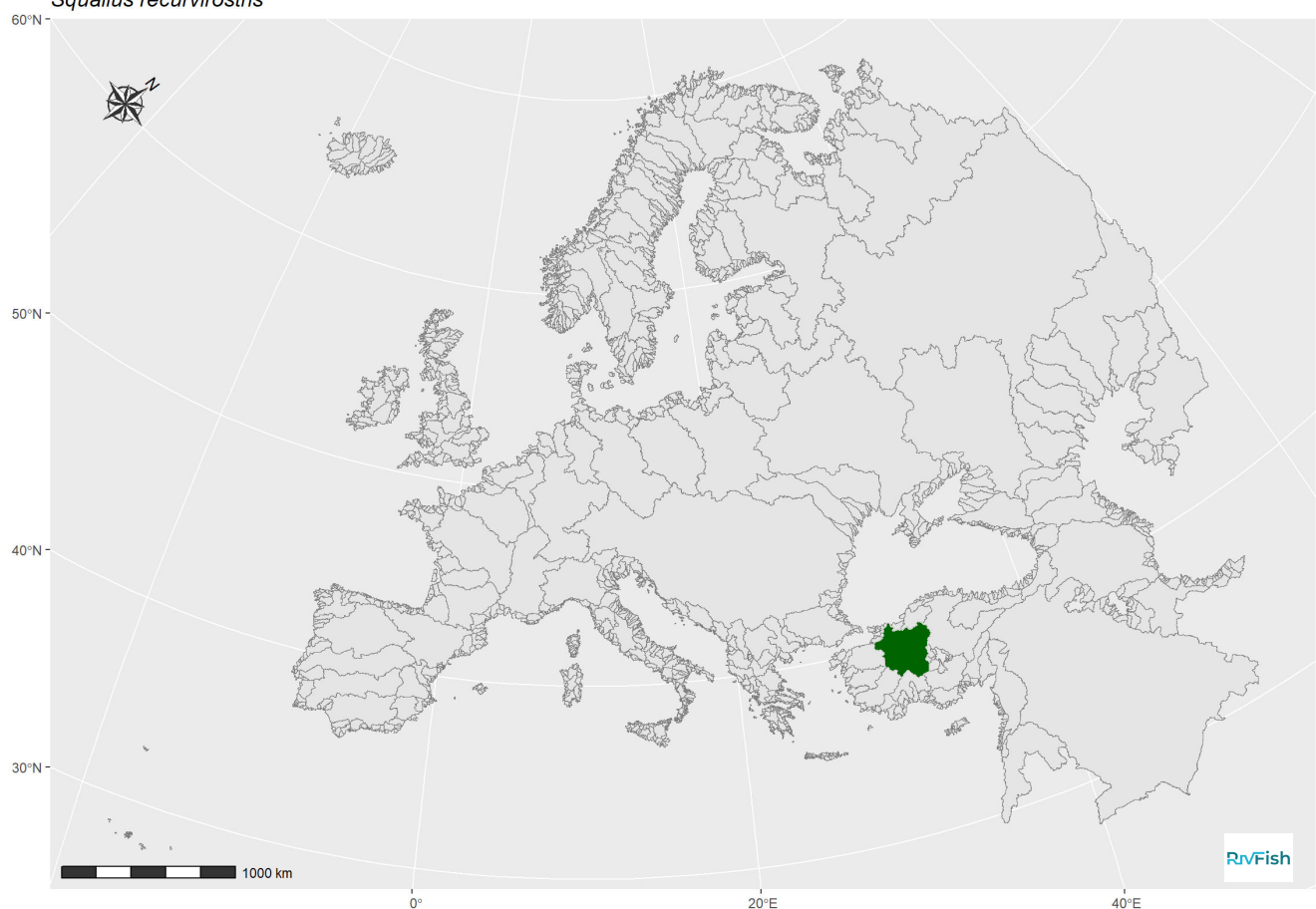


Squalius pyrenaicus

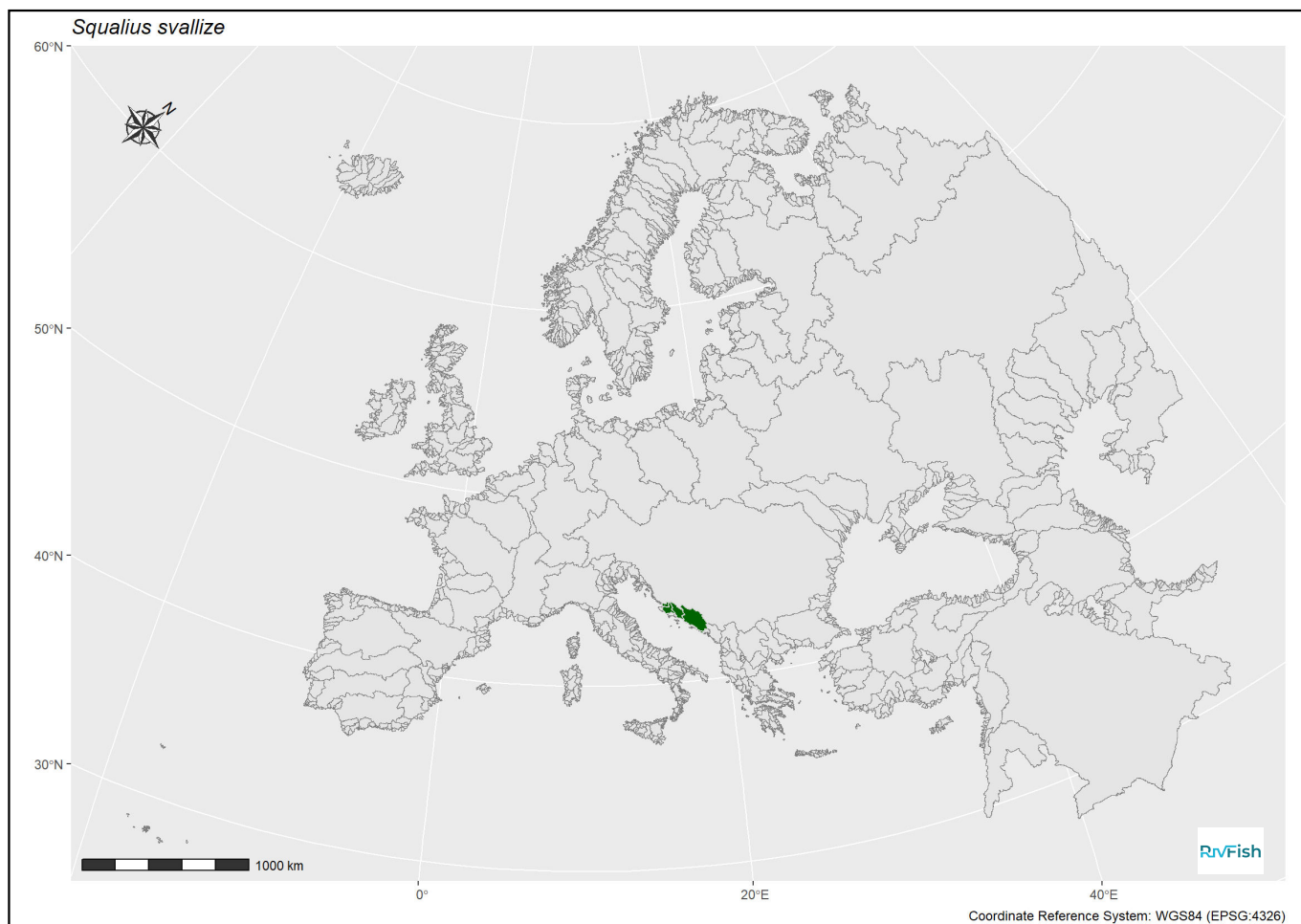
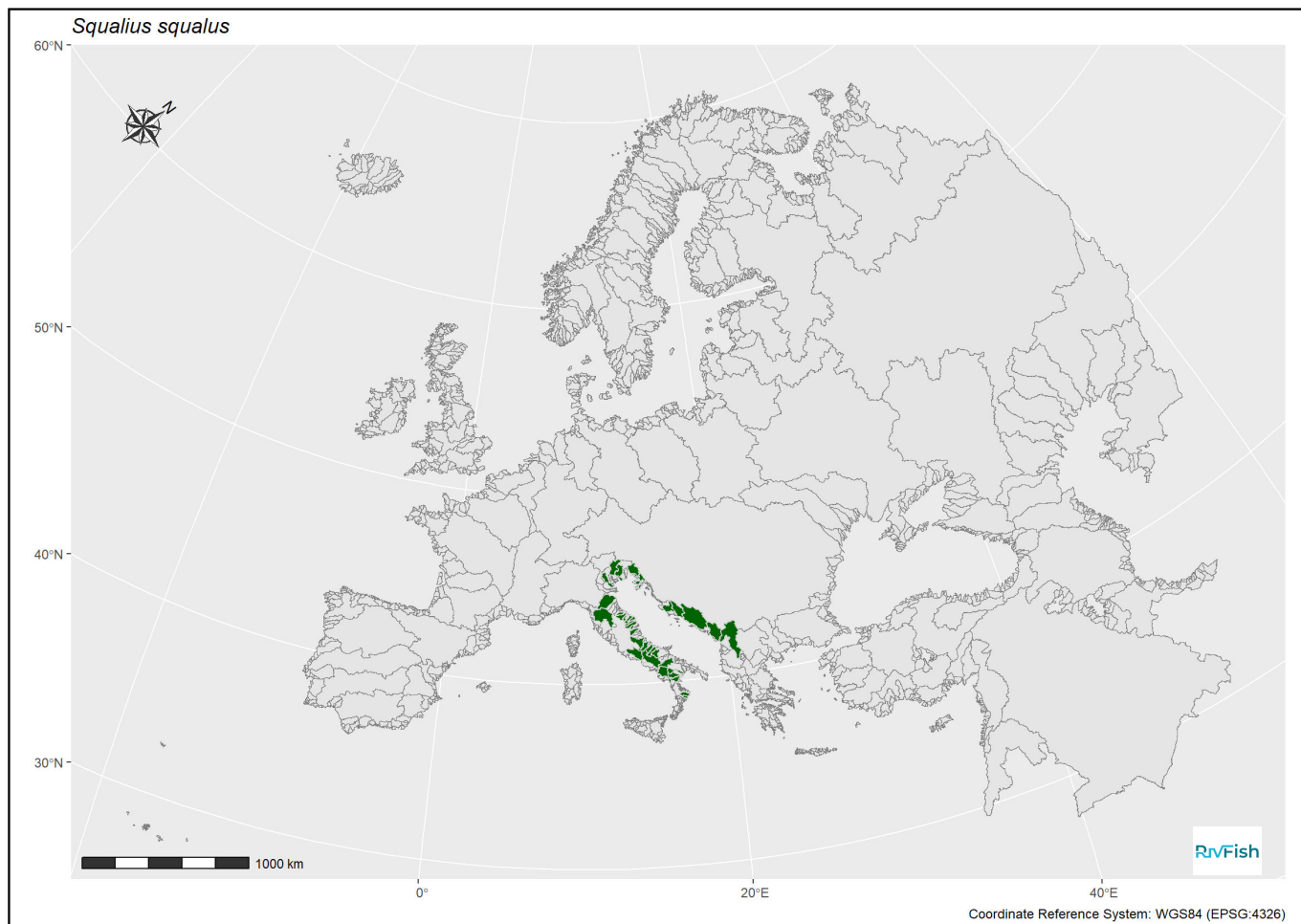


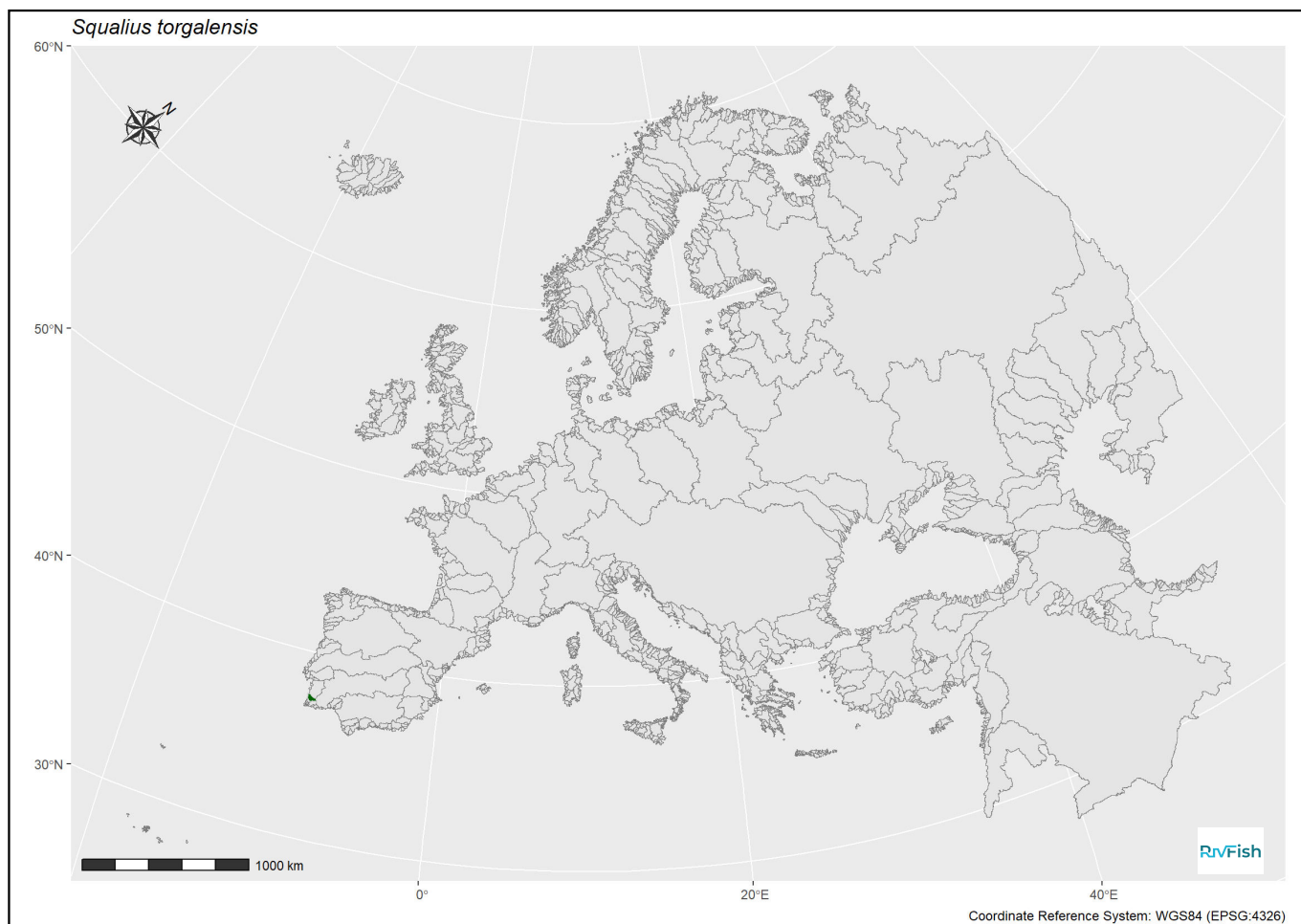
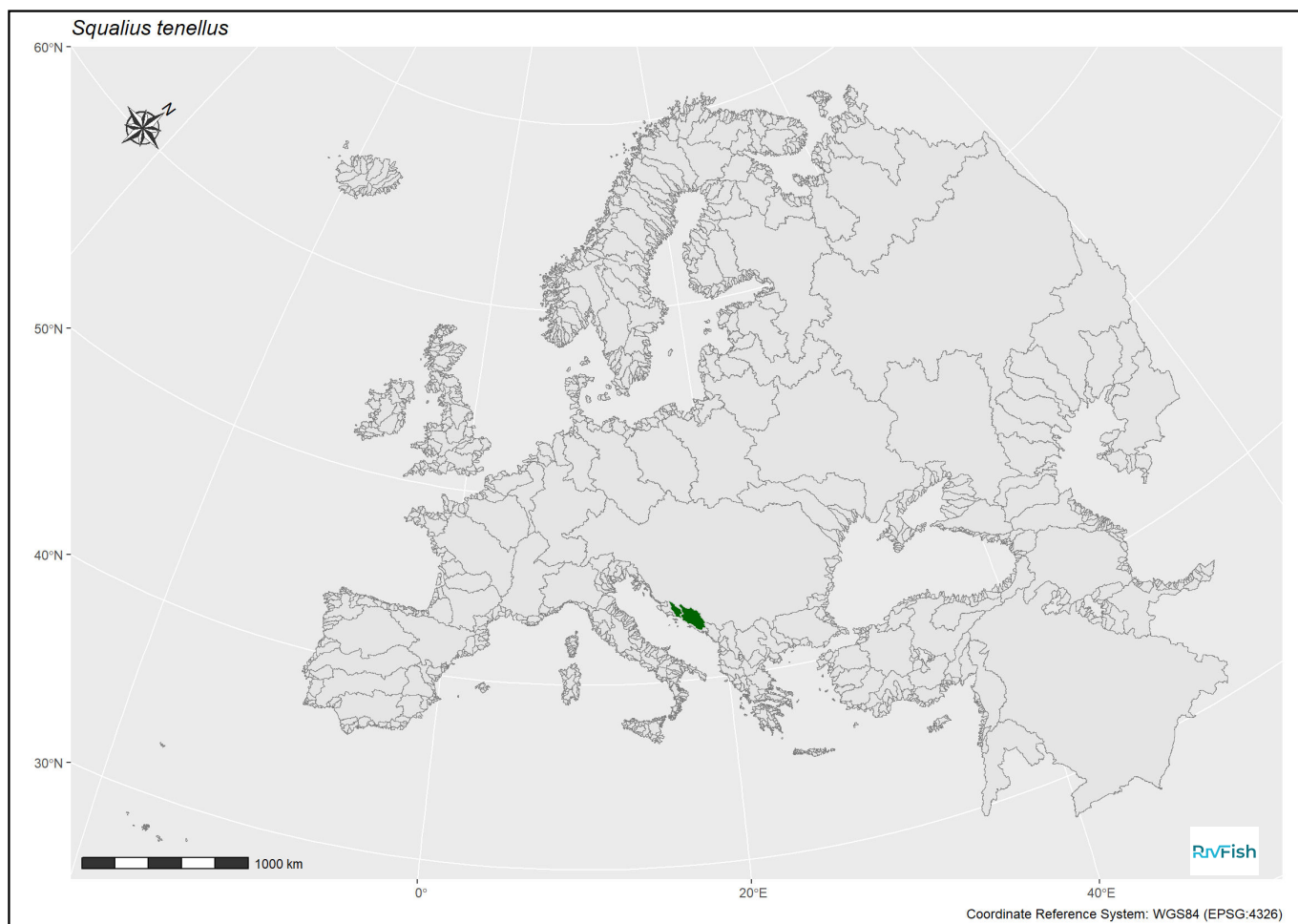
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Squalius recurvirostris

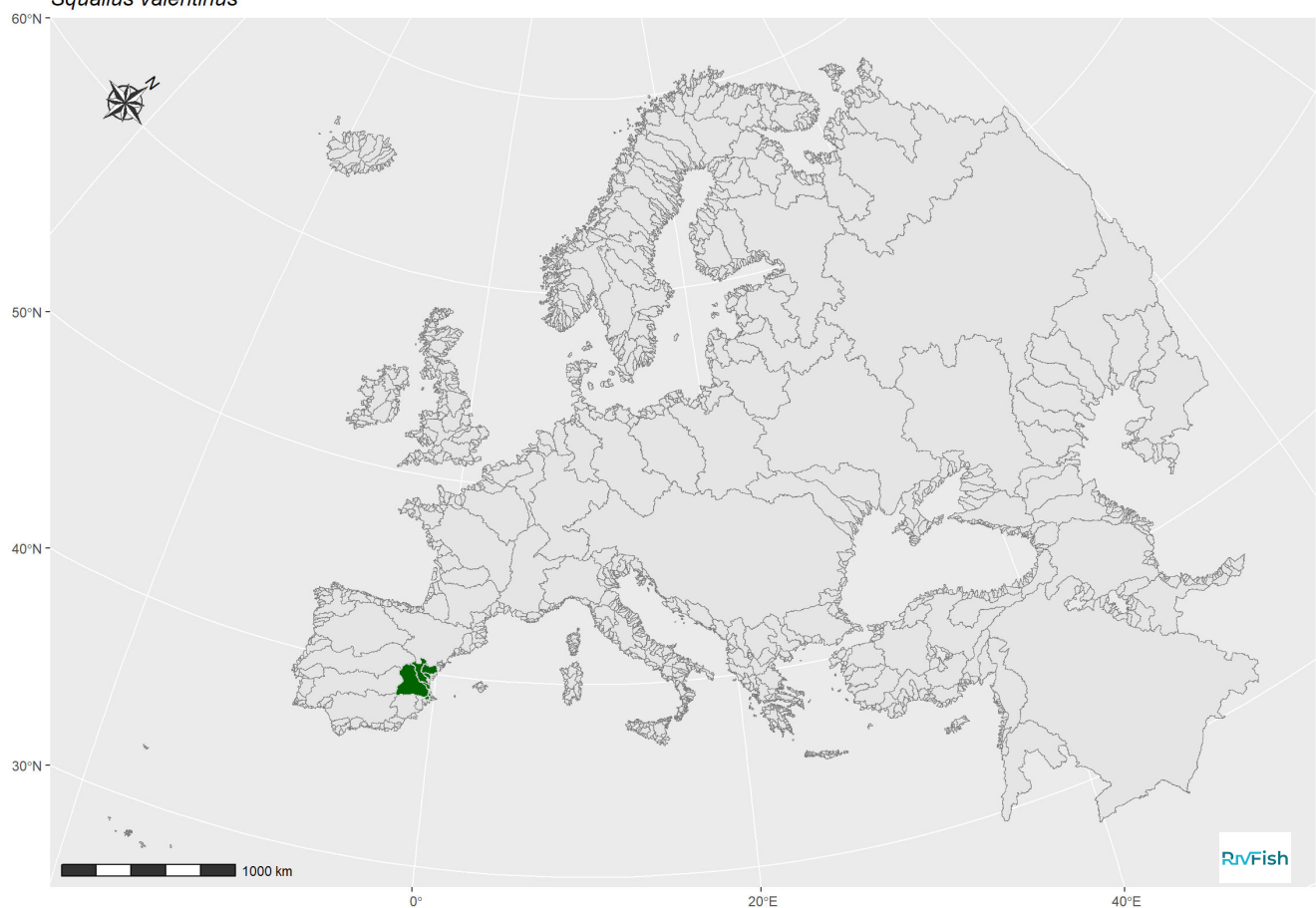


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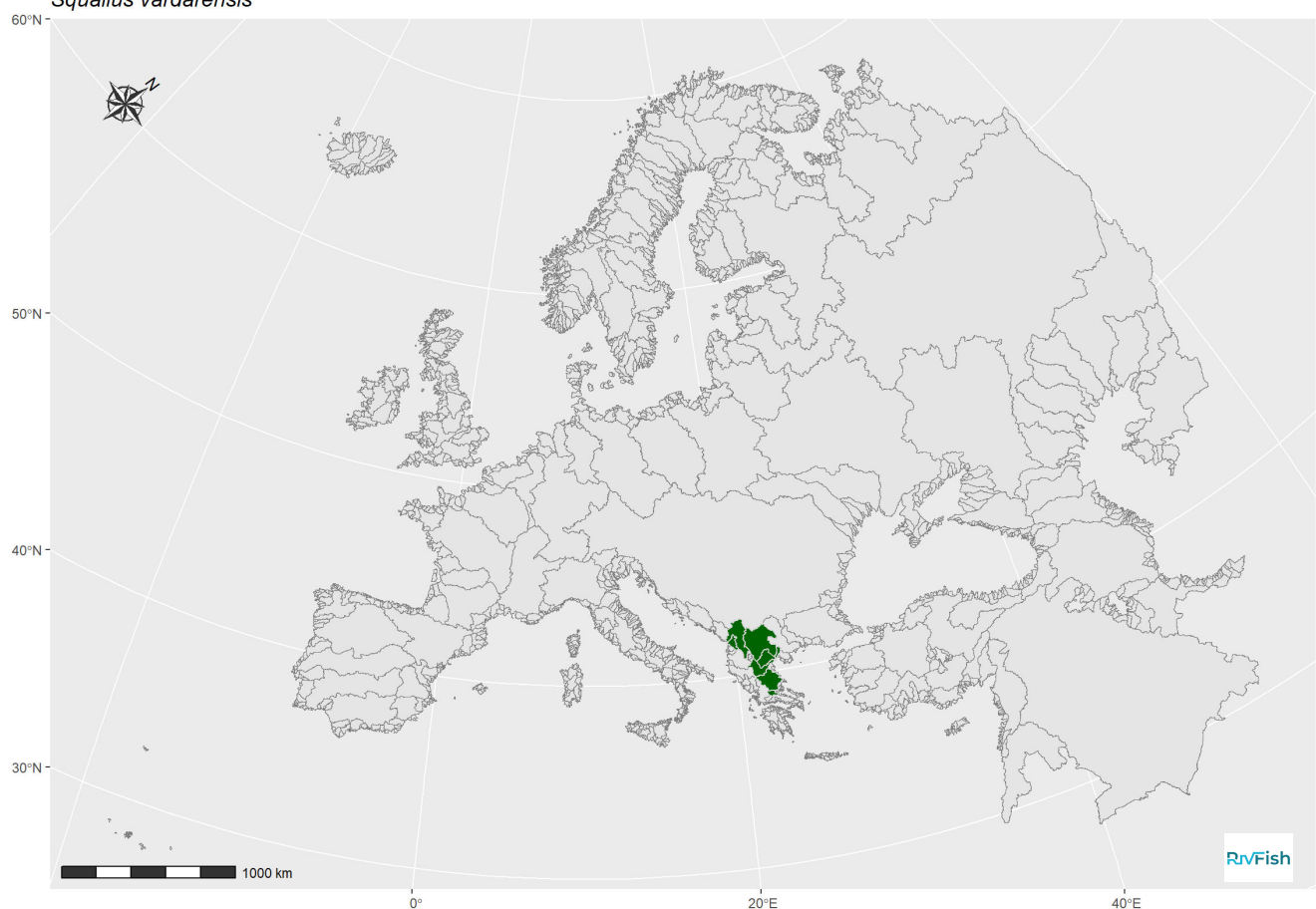


Squalius valentinus

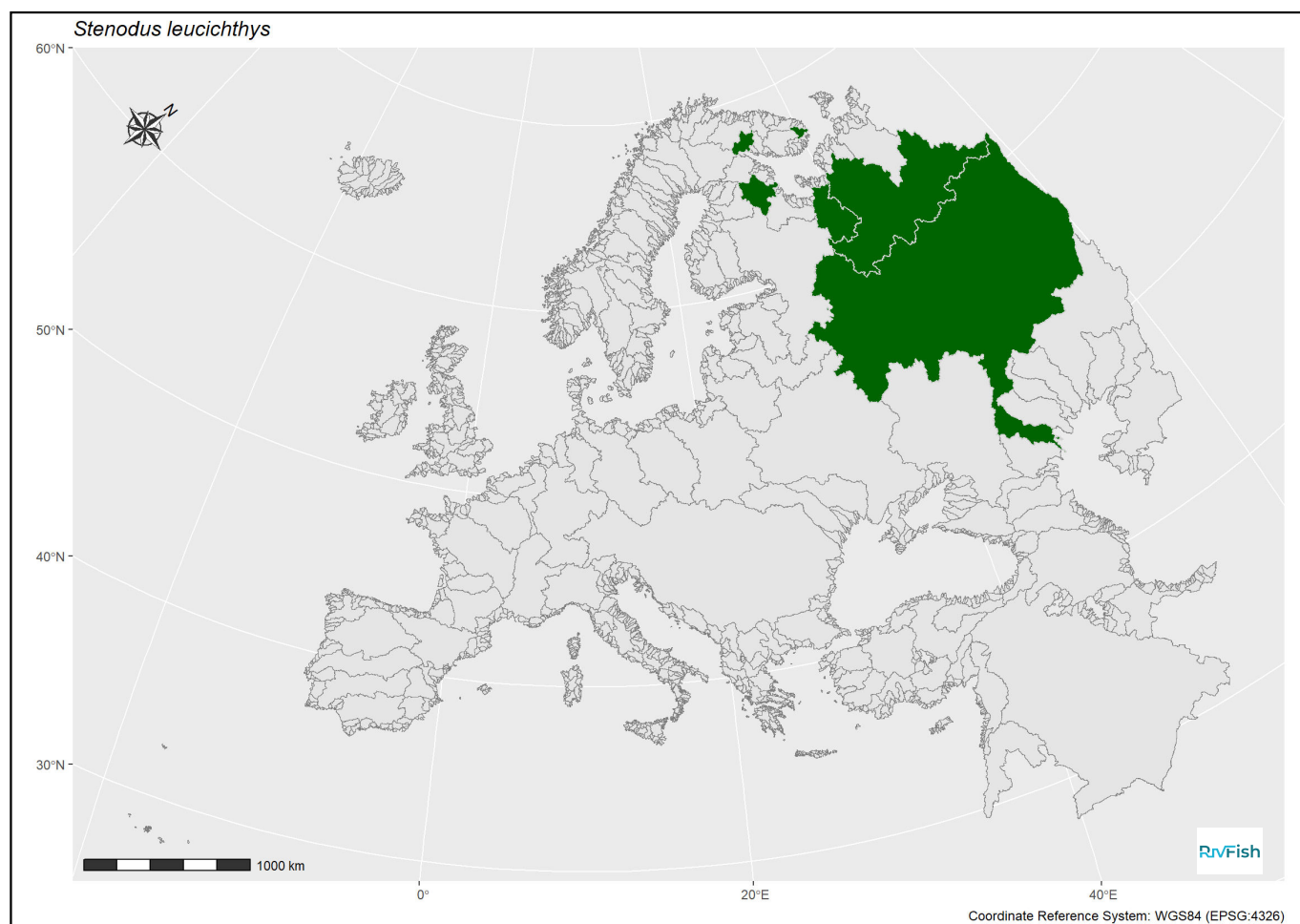
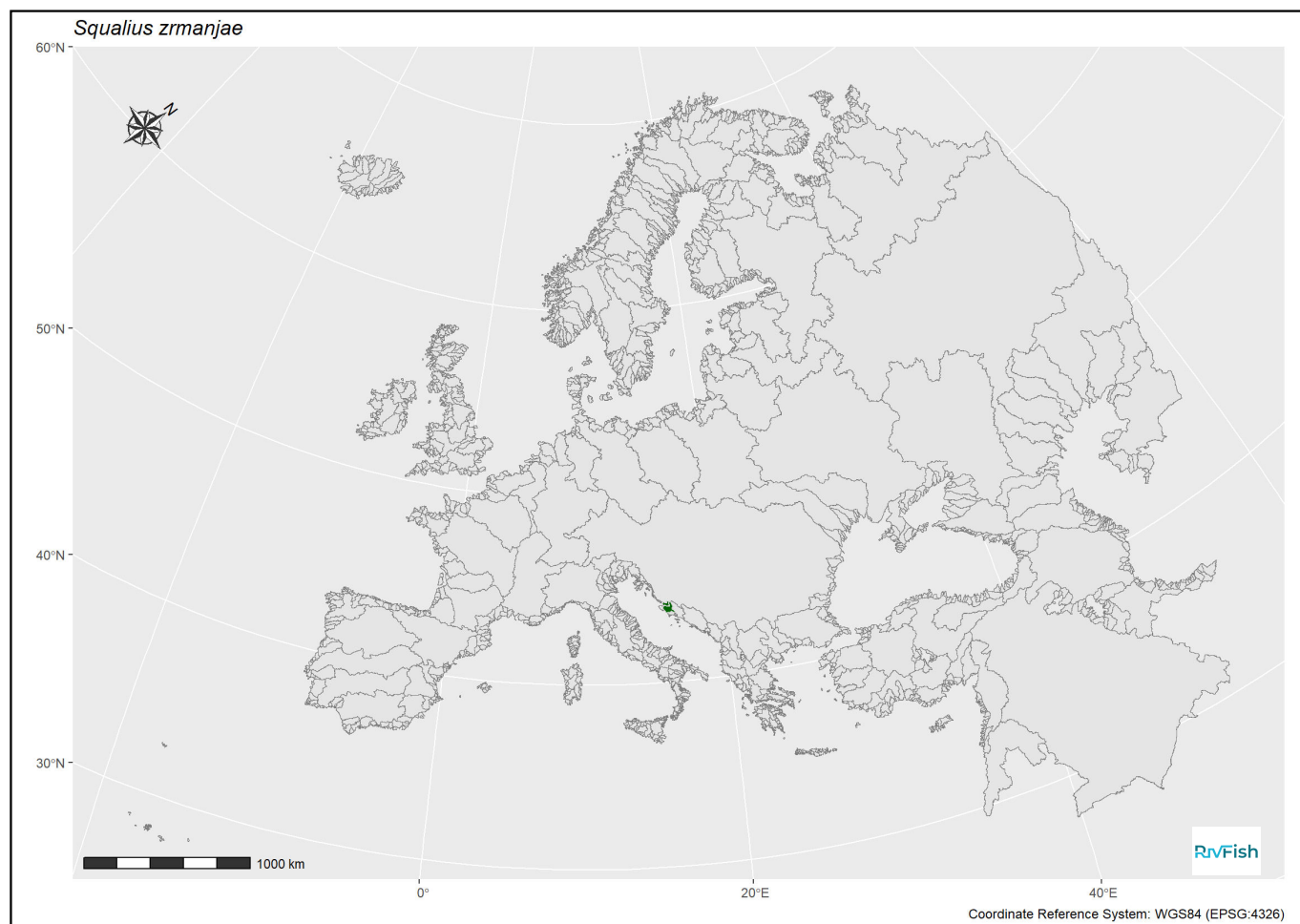


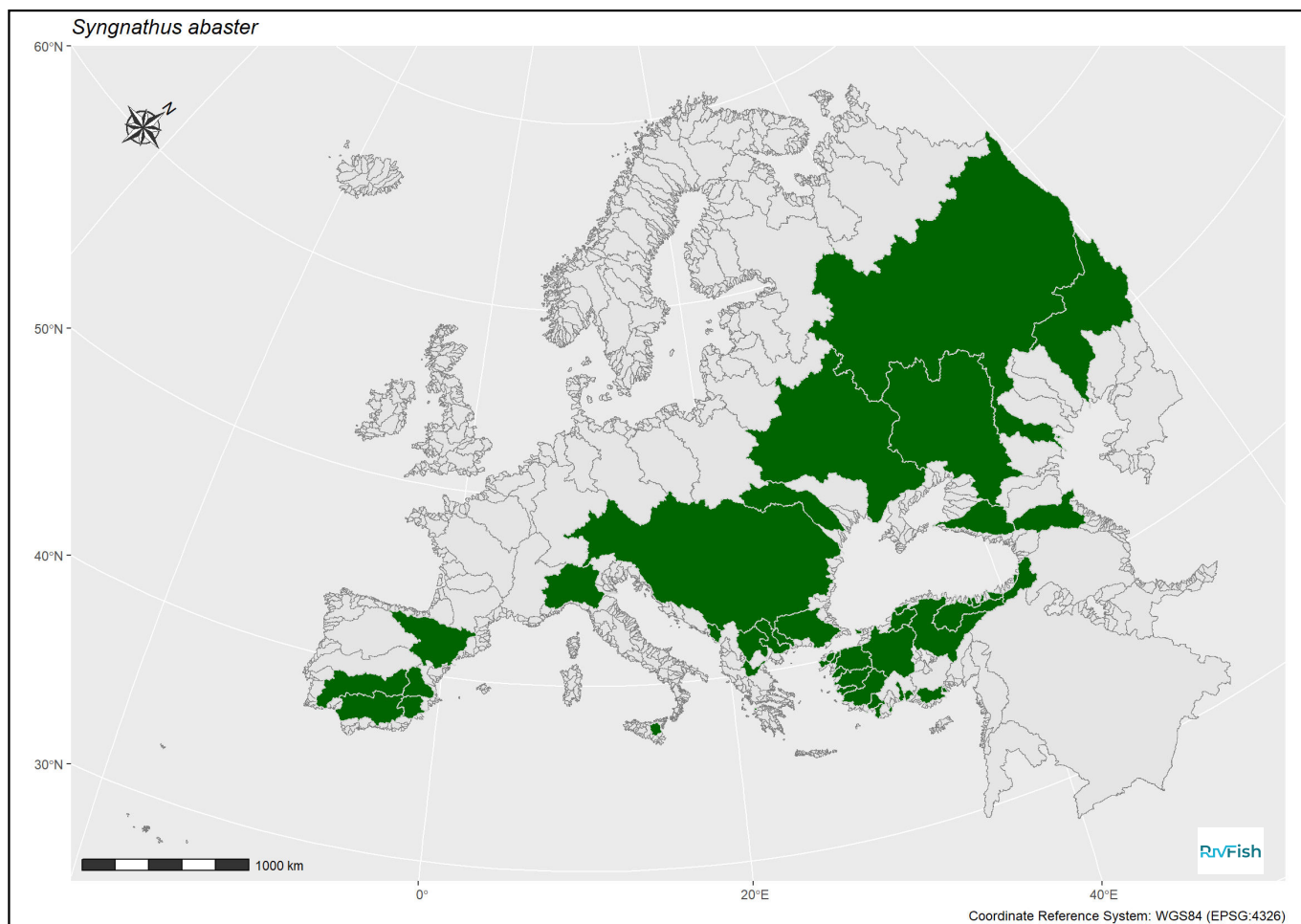
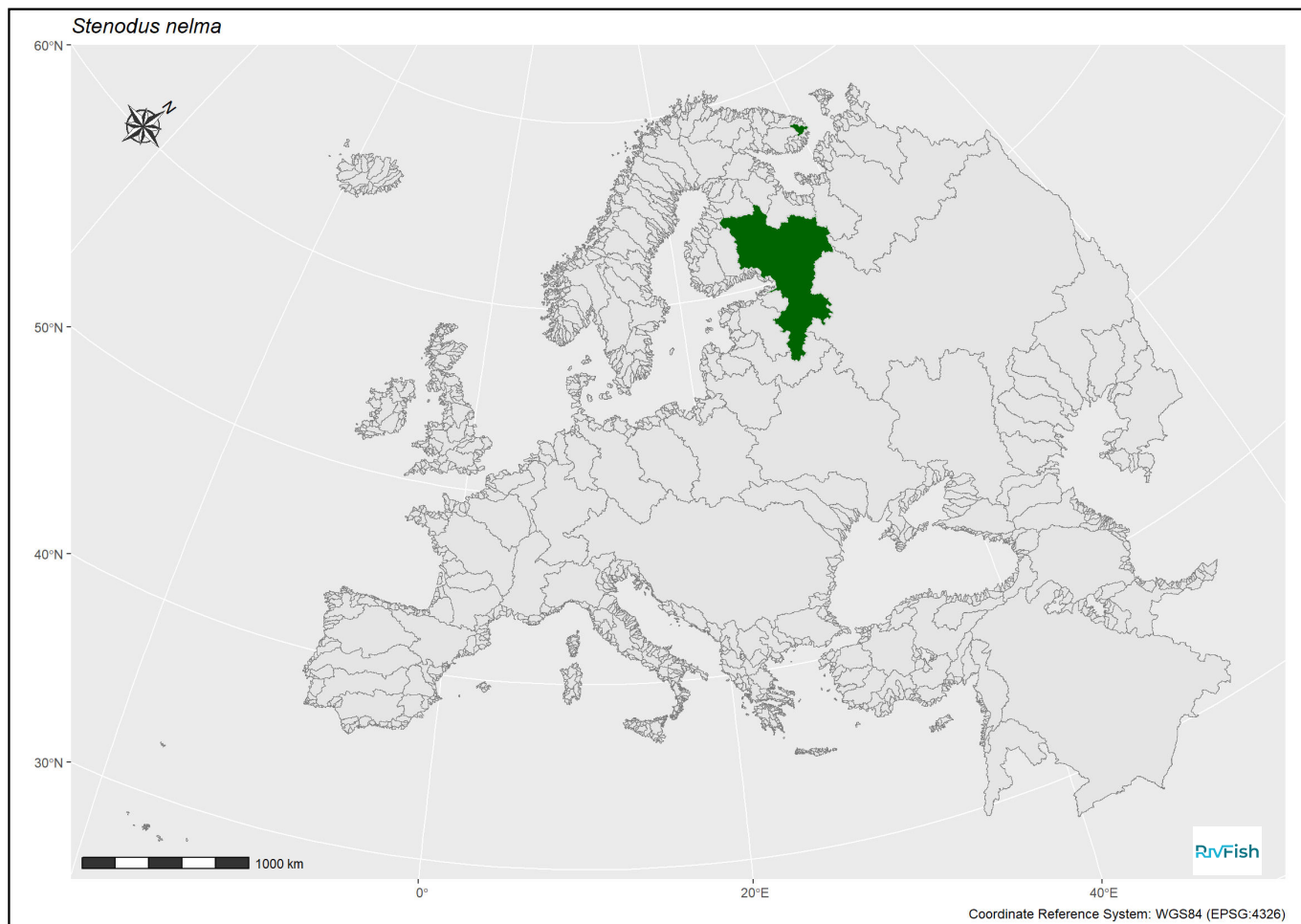
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Squalius vardarensis

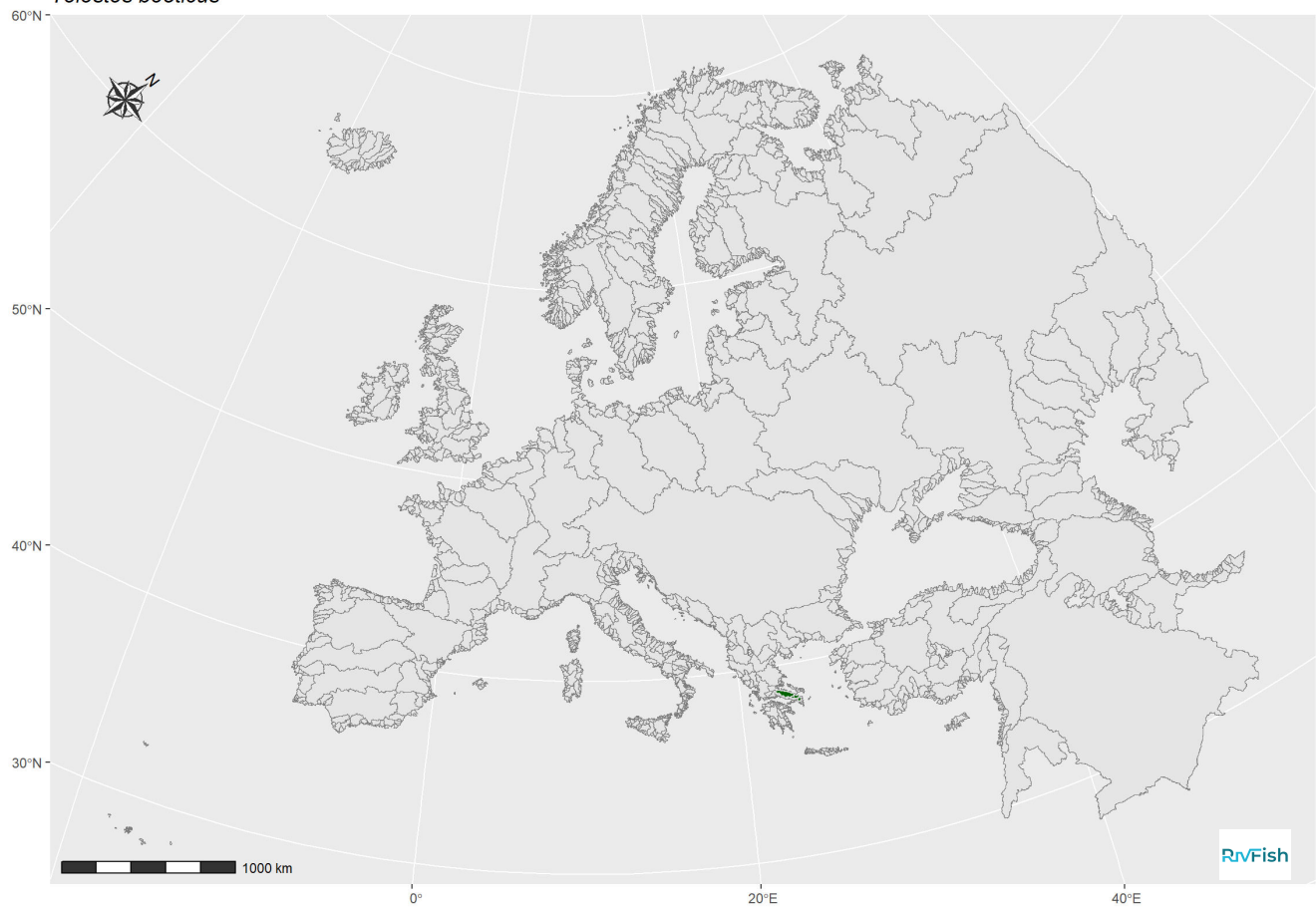


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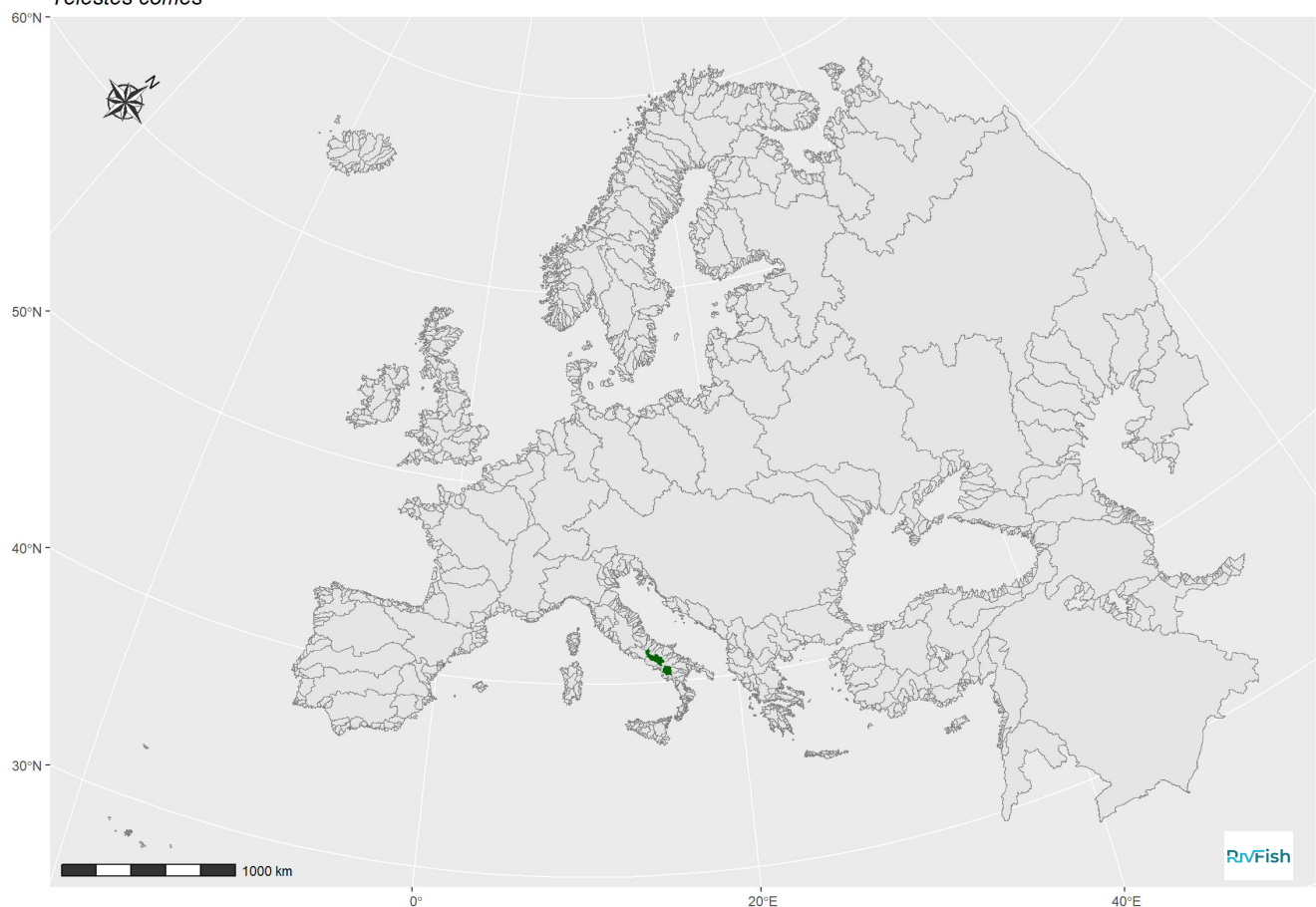


Telestes beoticus



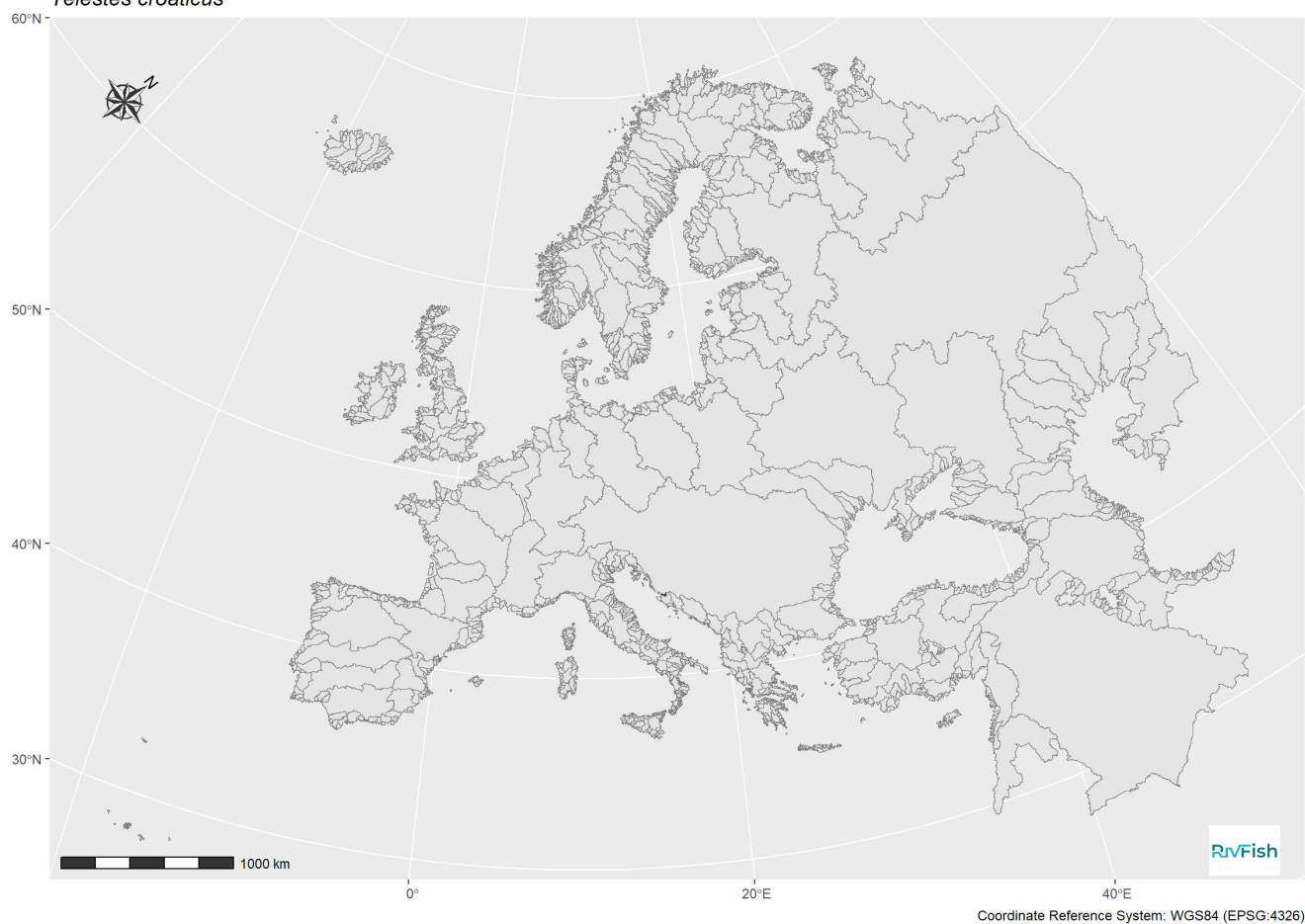
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Telestes comes

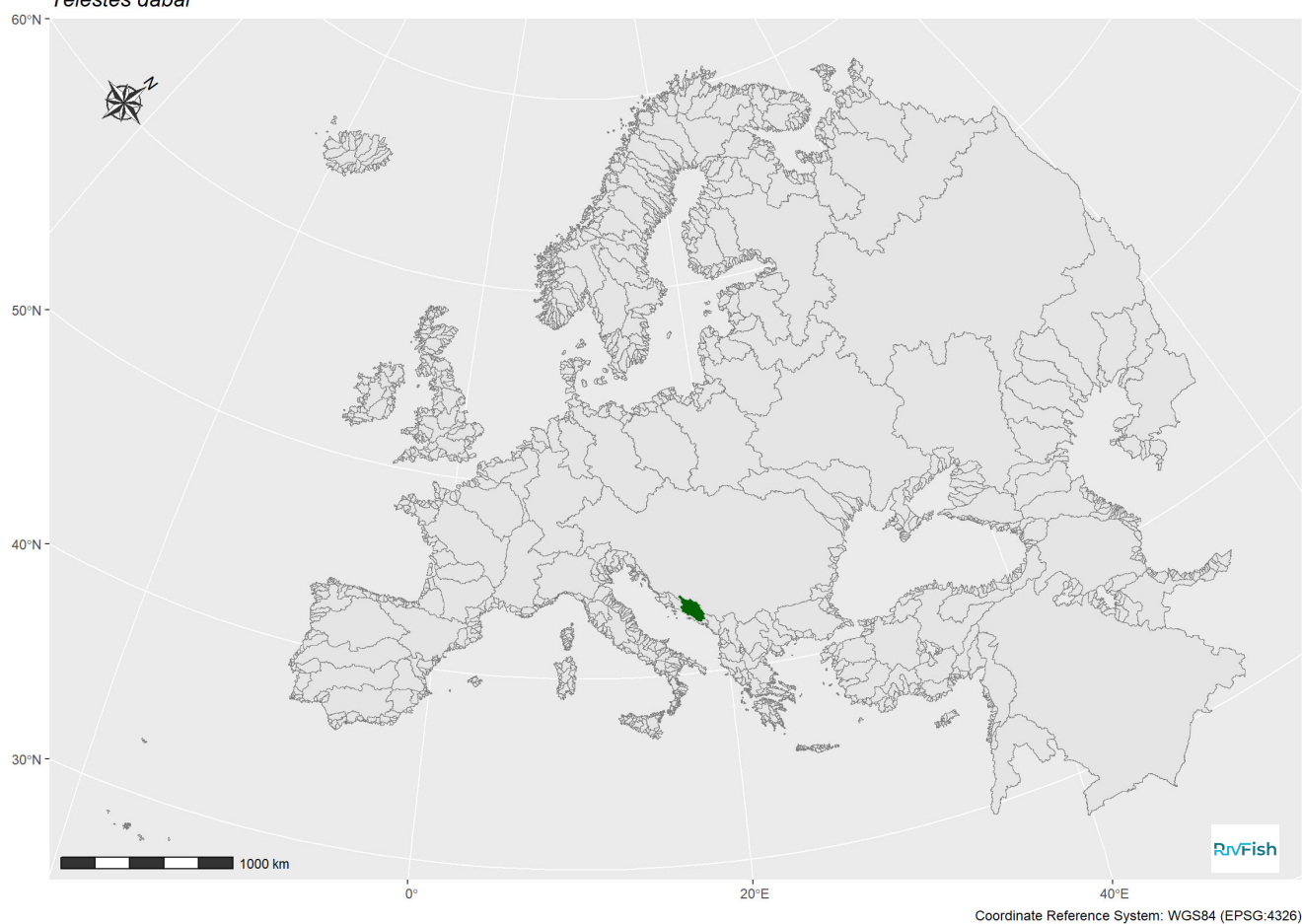


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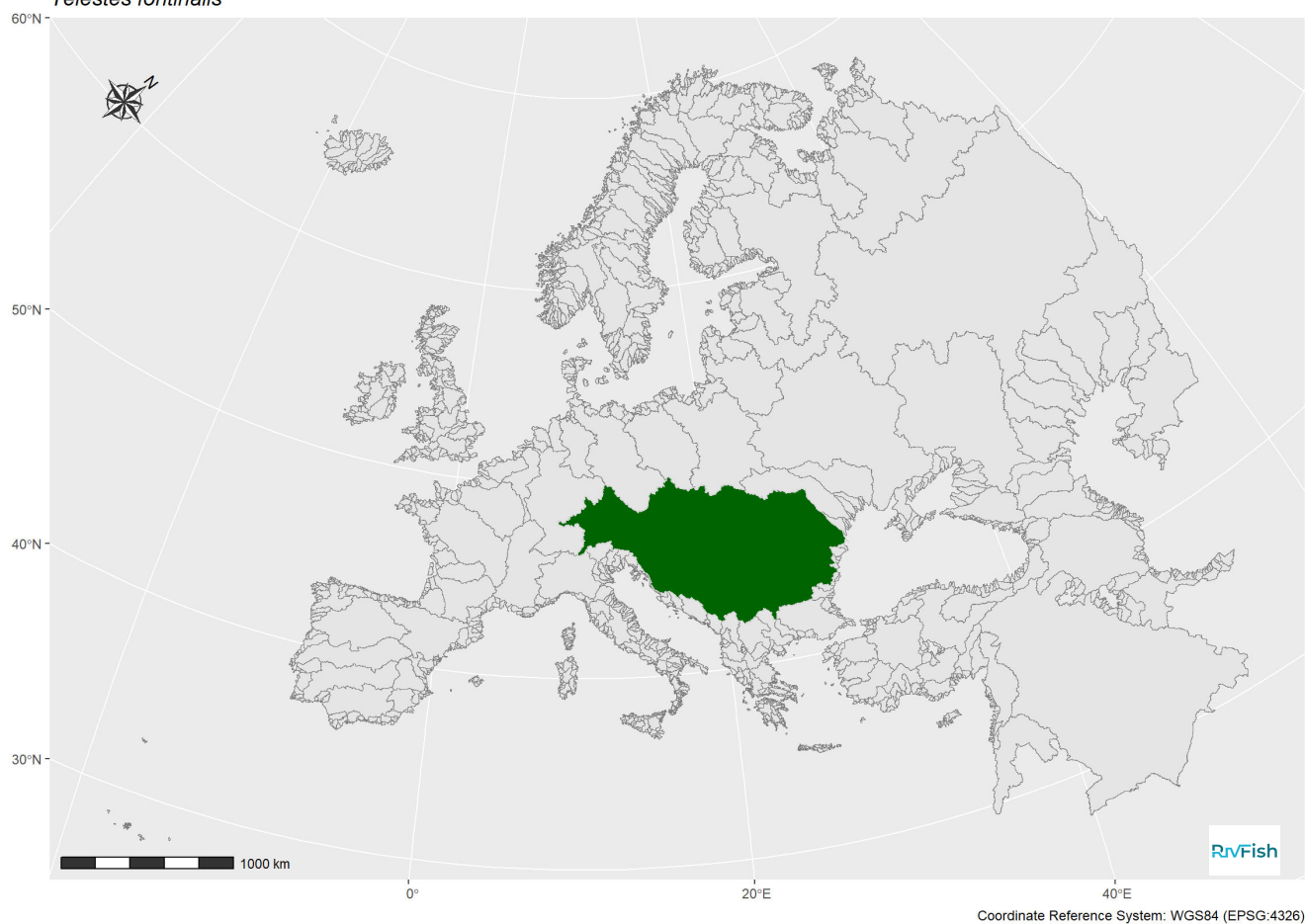
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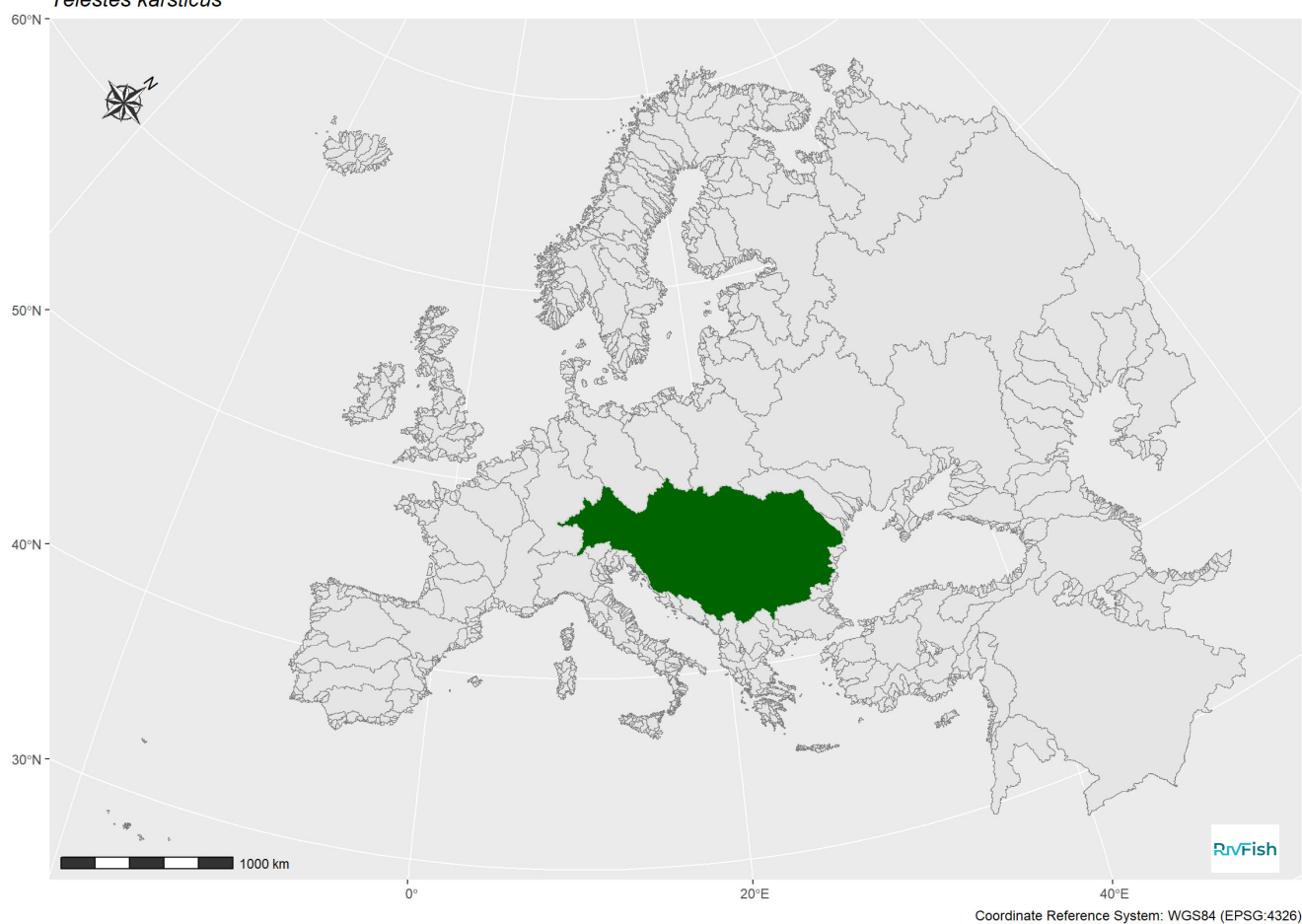
Telestes dabar



Telestes fontinalis



Telestes karsticus



Telestes metohiensis



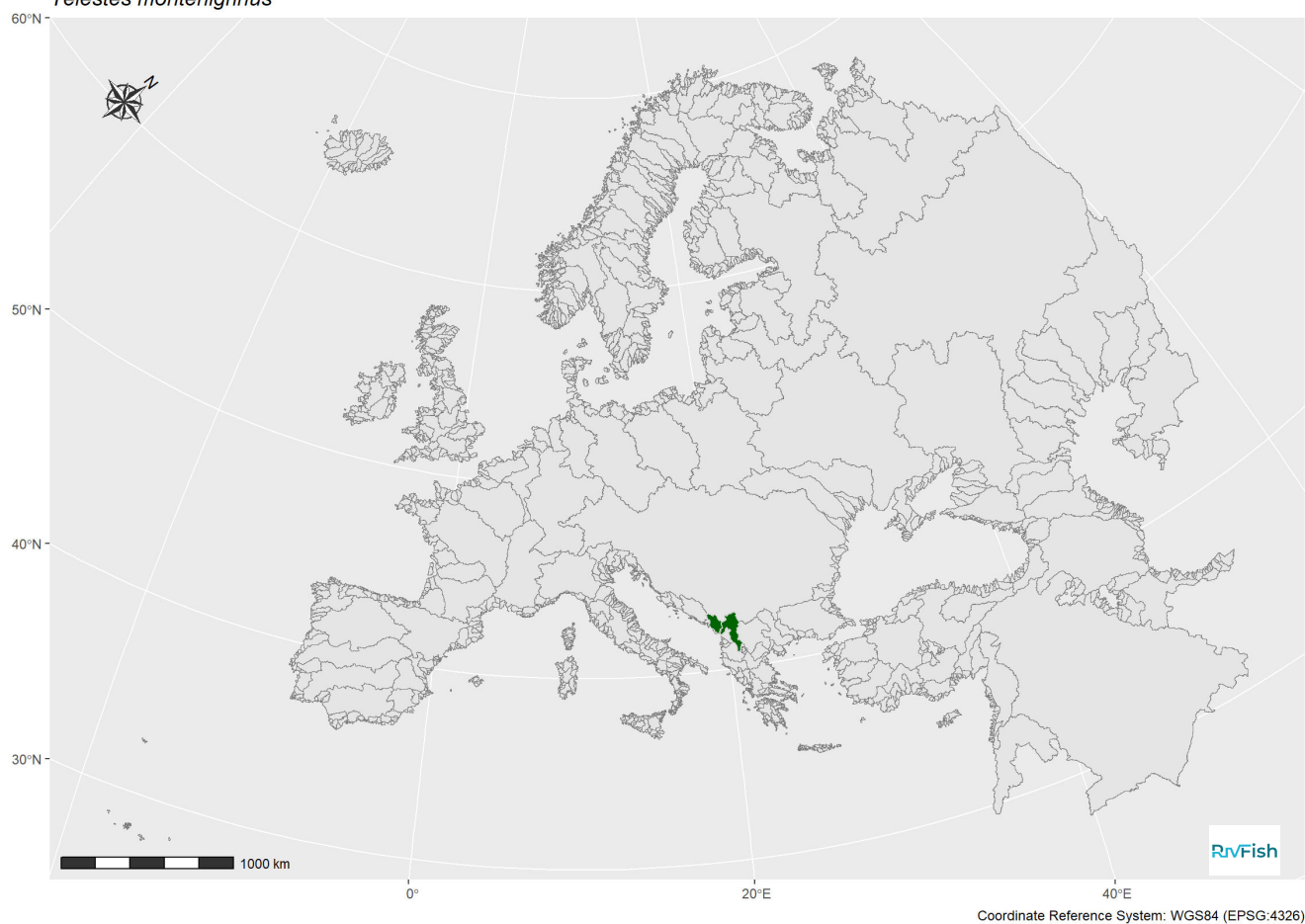
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Telestes niloradi

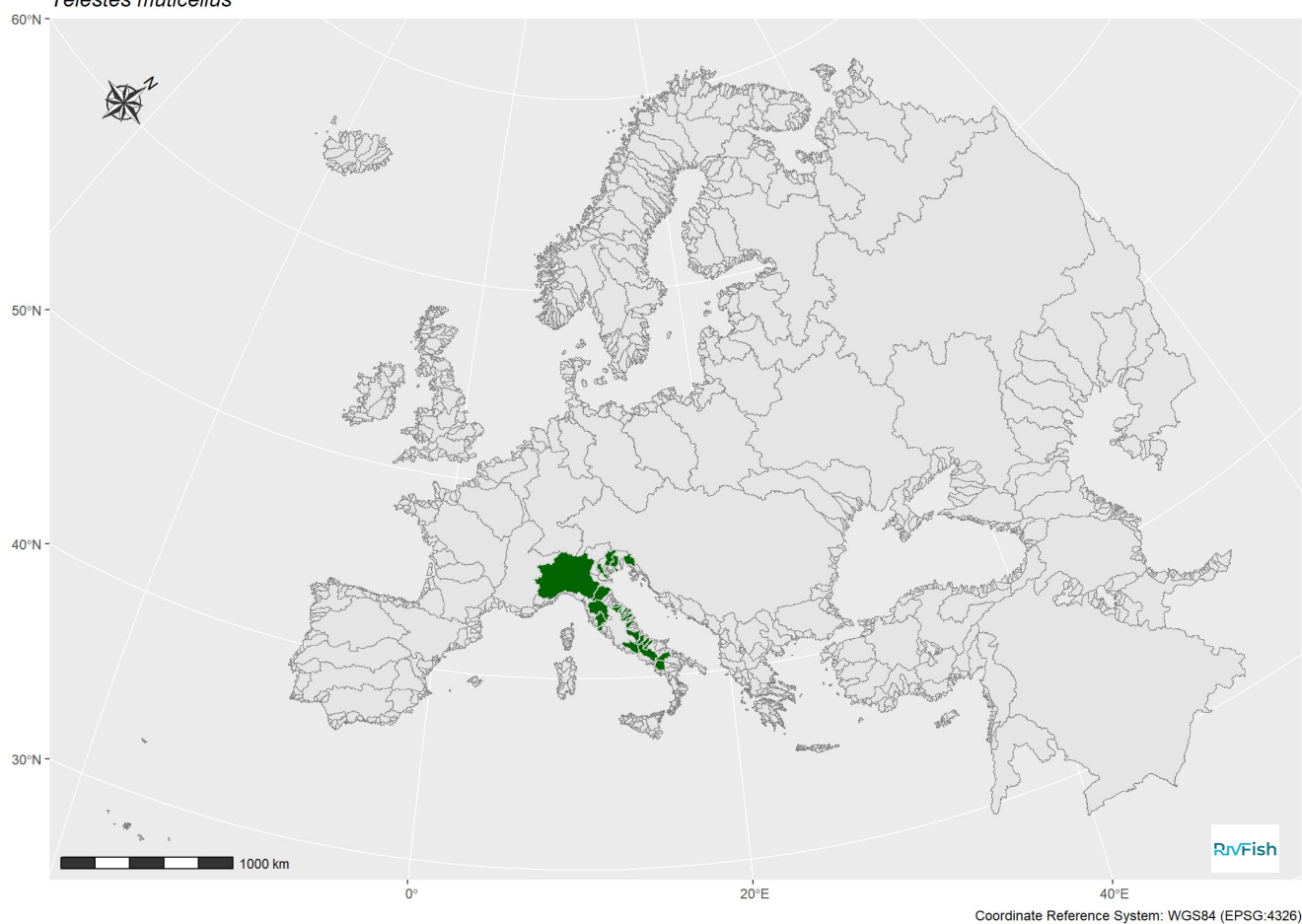


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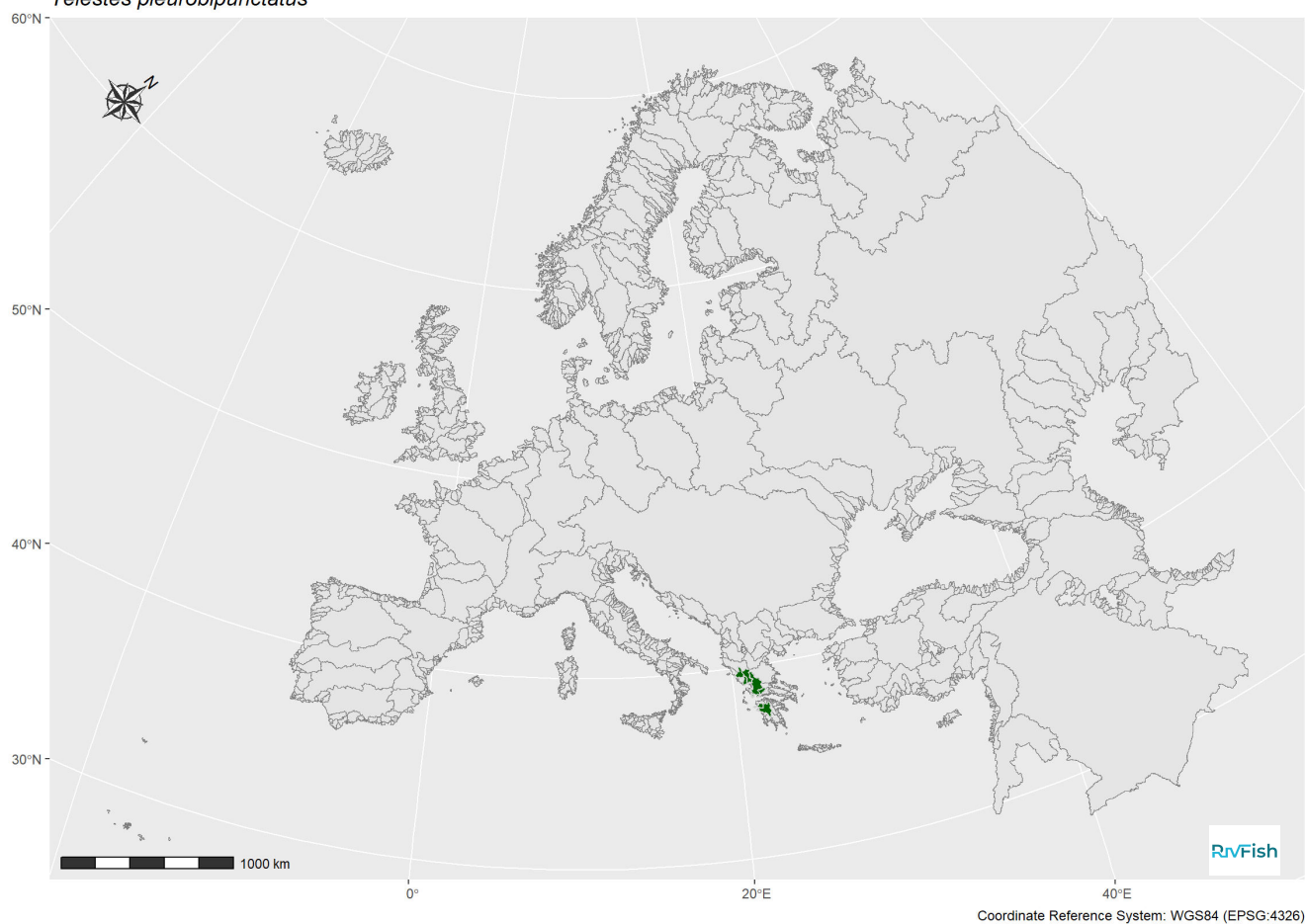
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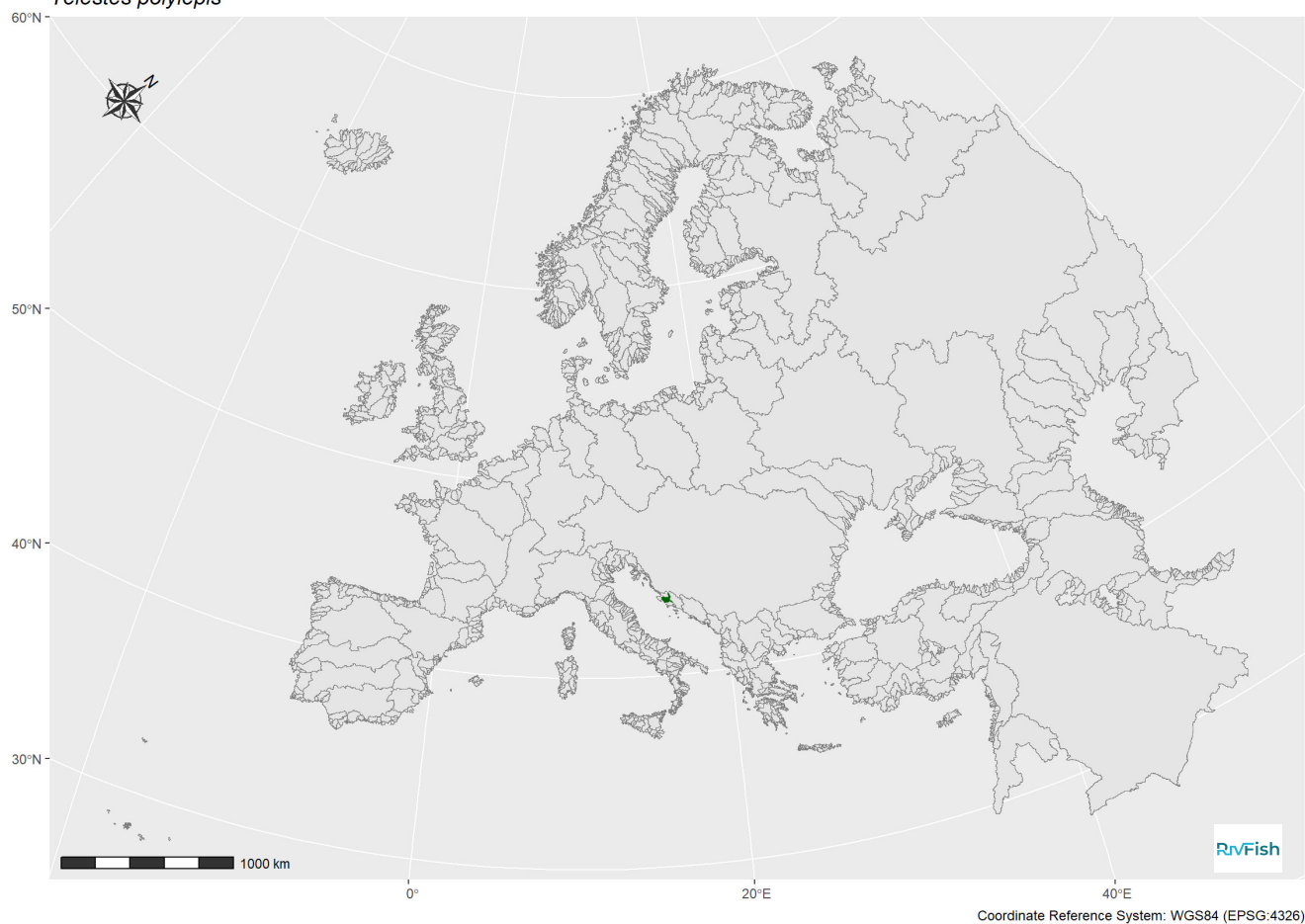
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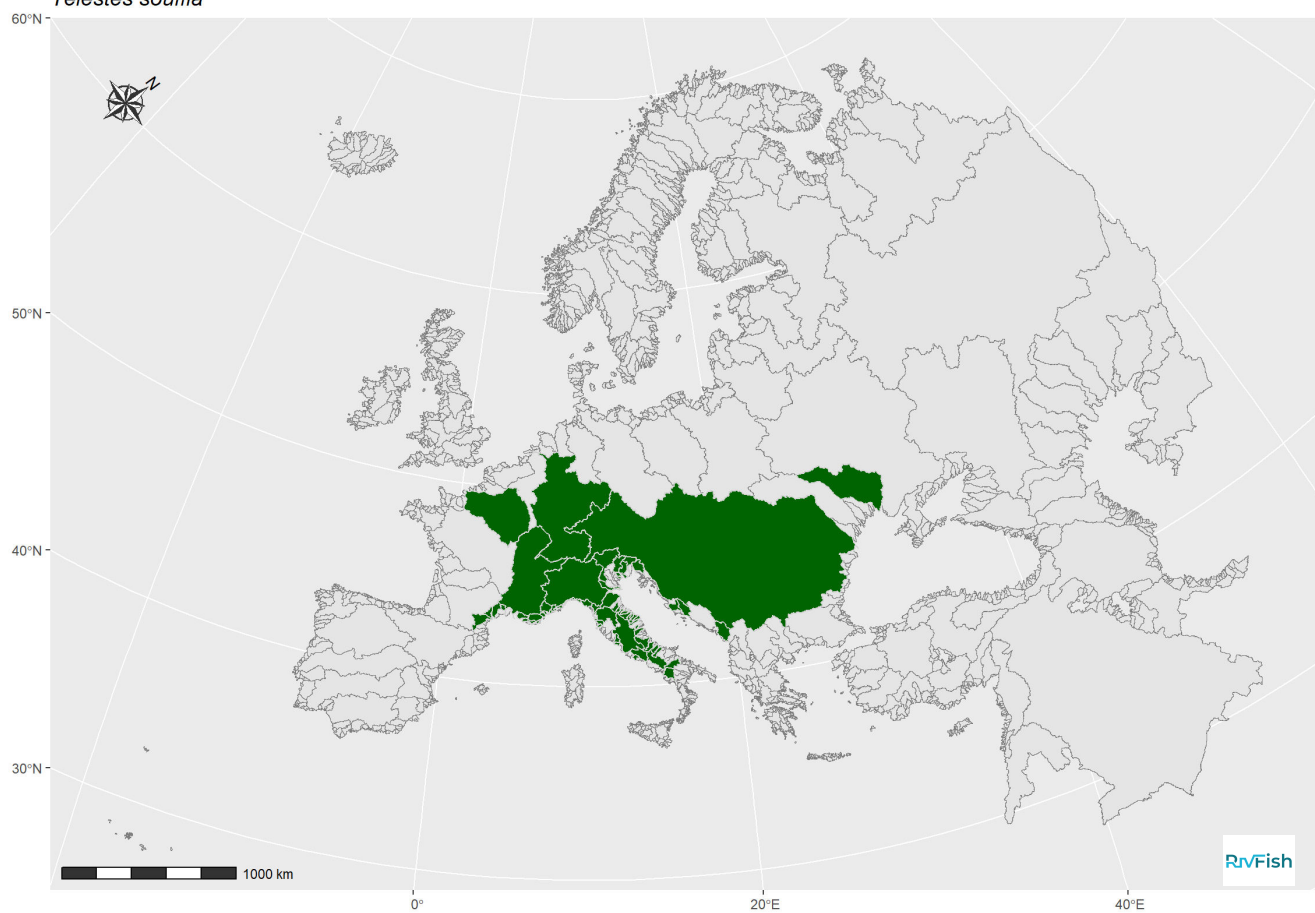
Telestes pleurobipunctatus



Telestes polylepis



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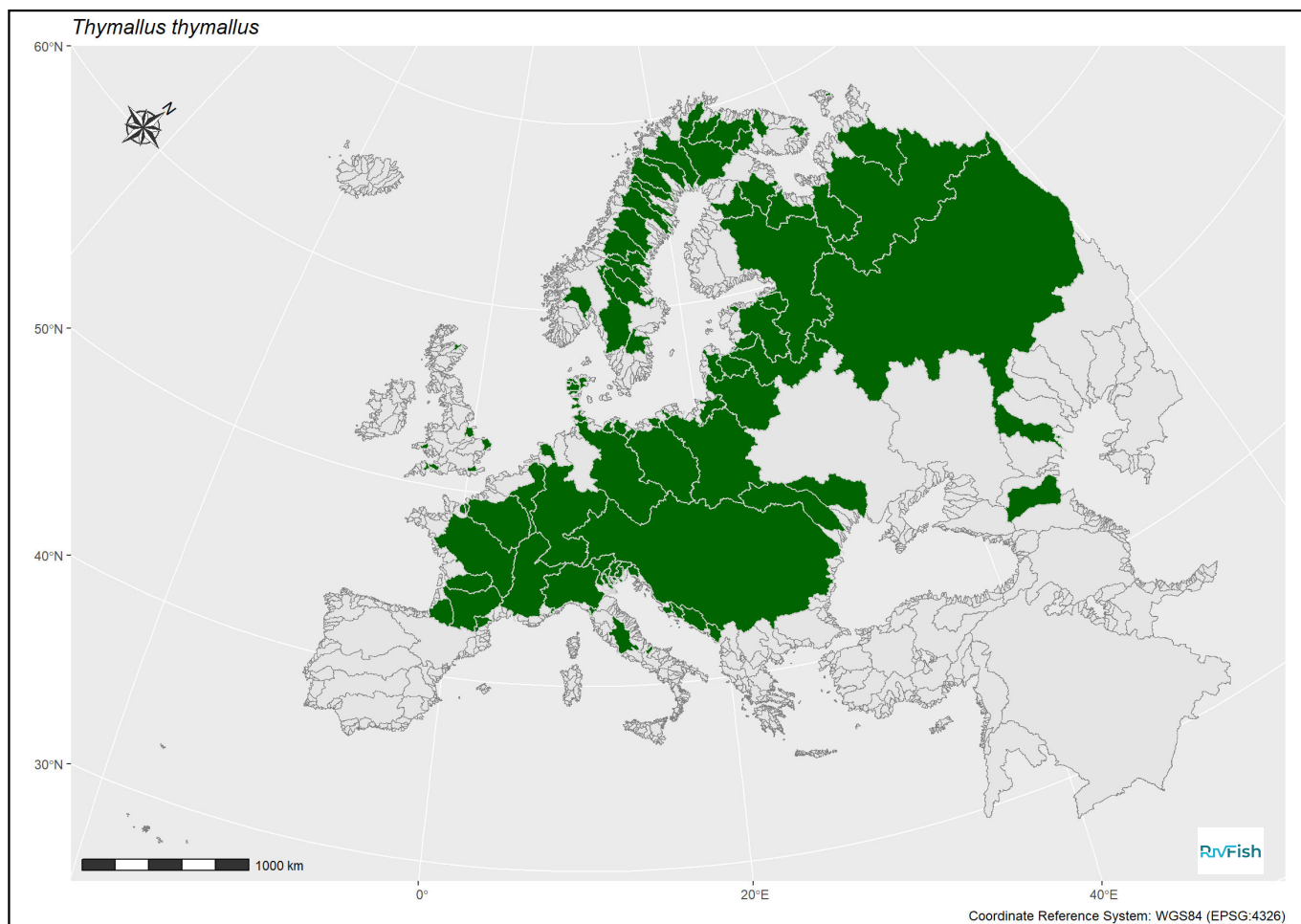
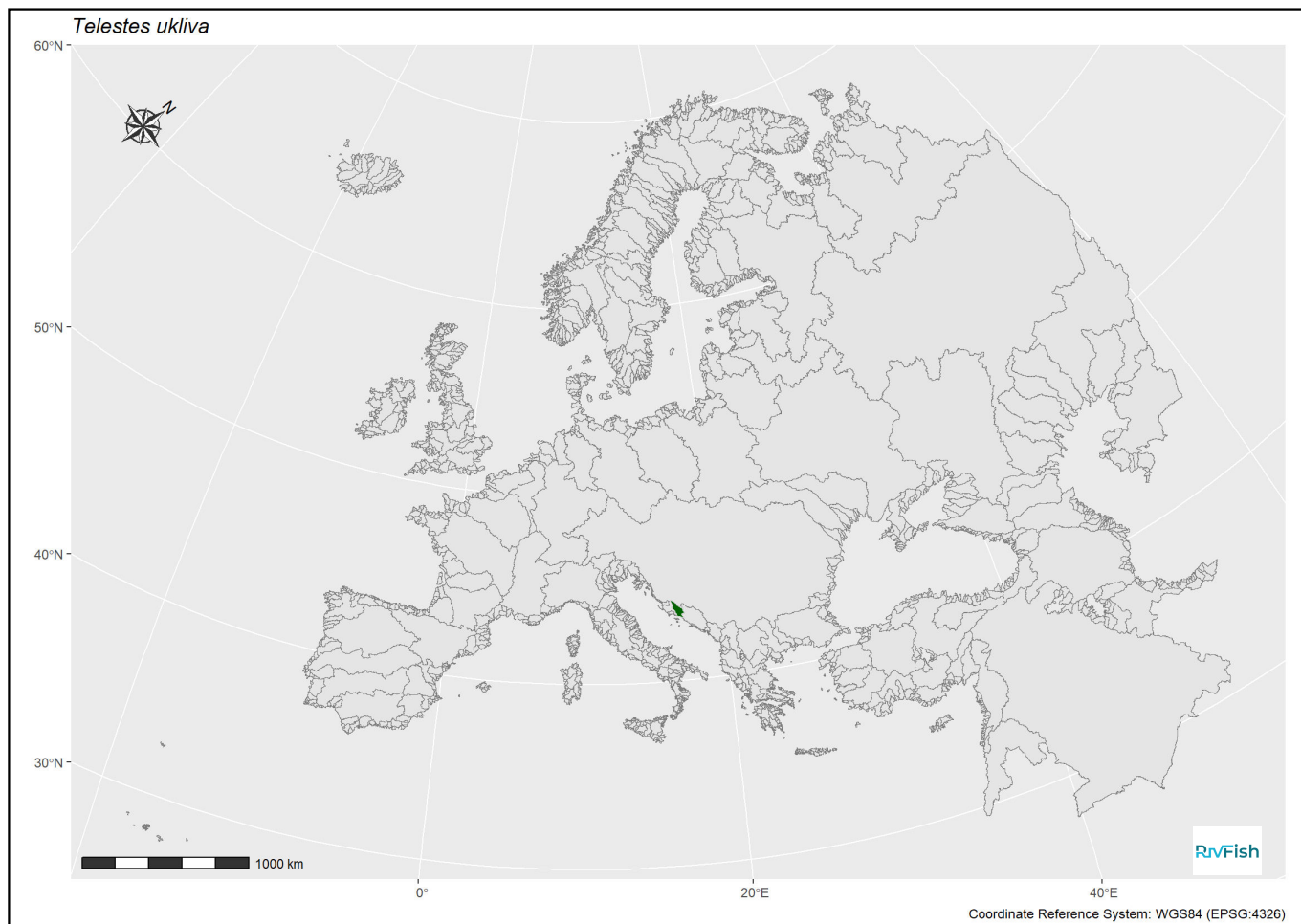


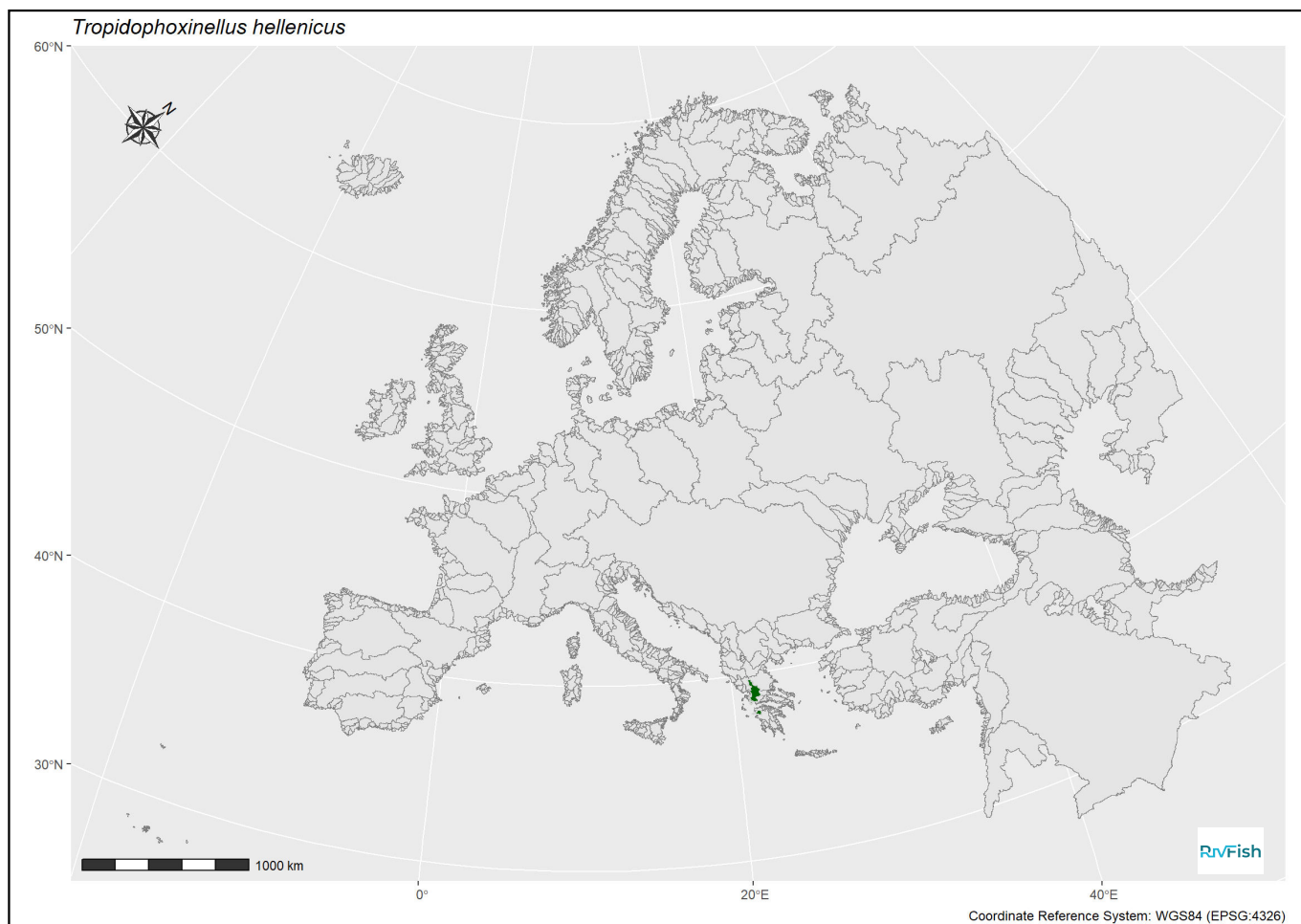
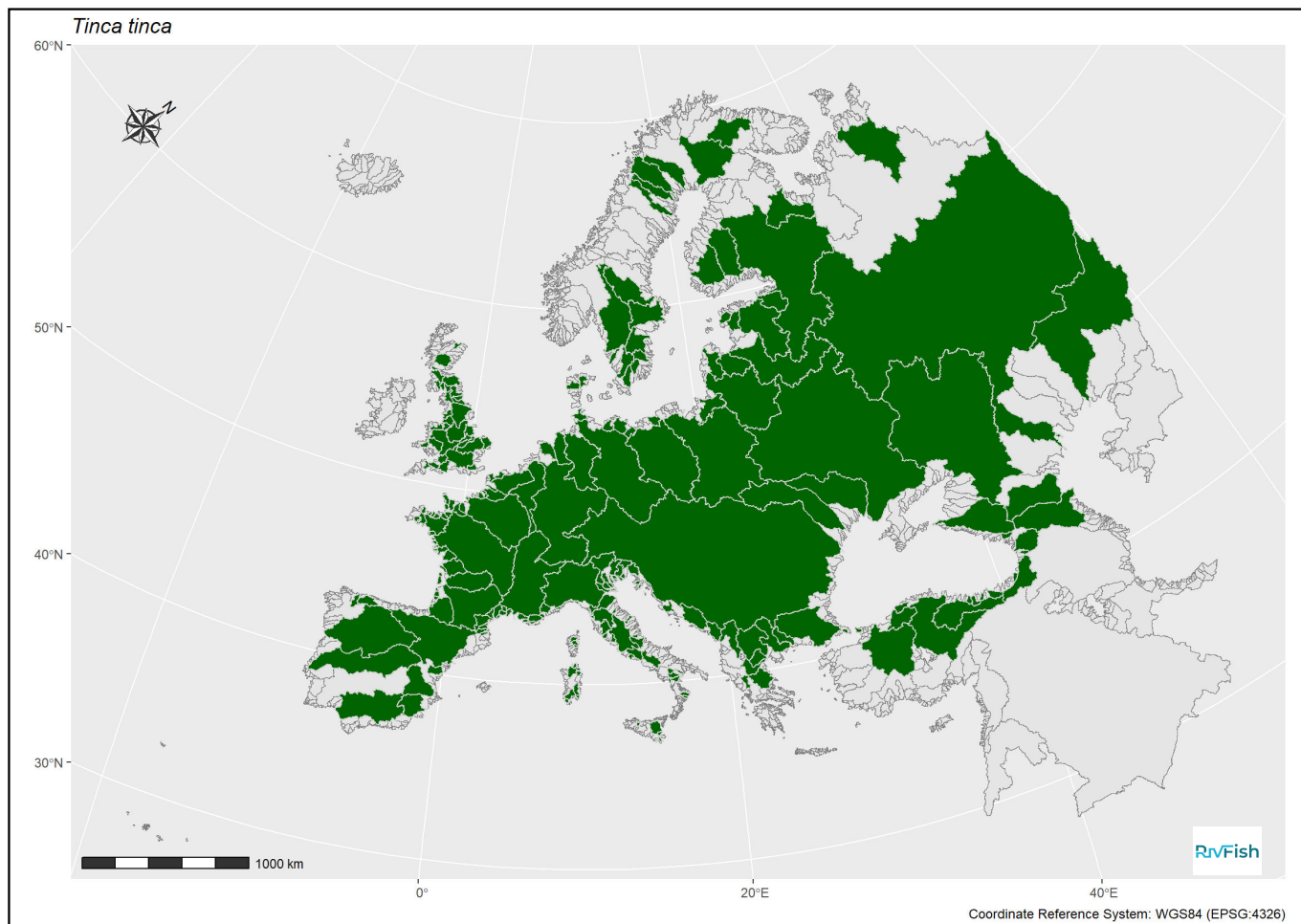
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Telestes turskyi

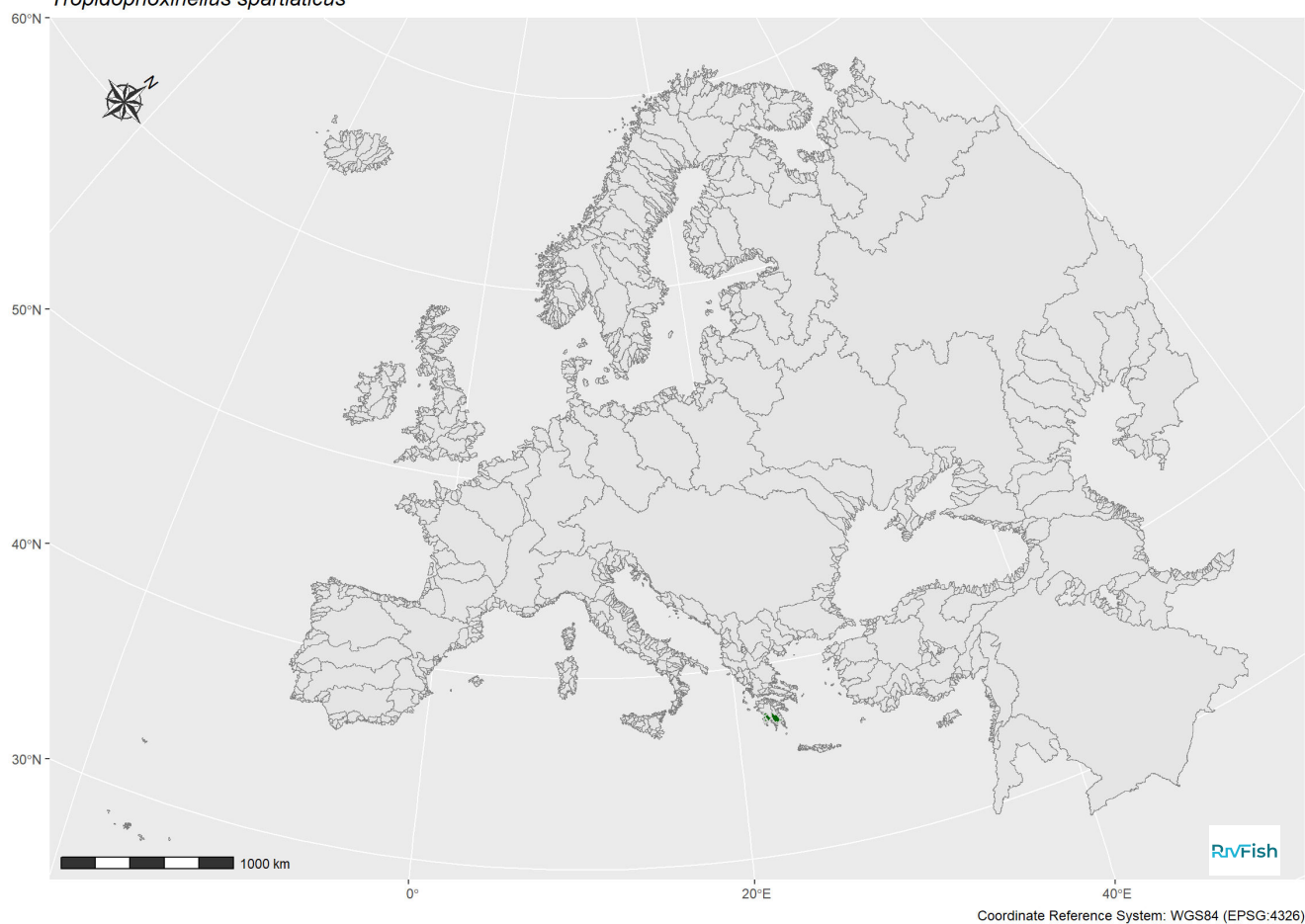


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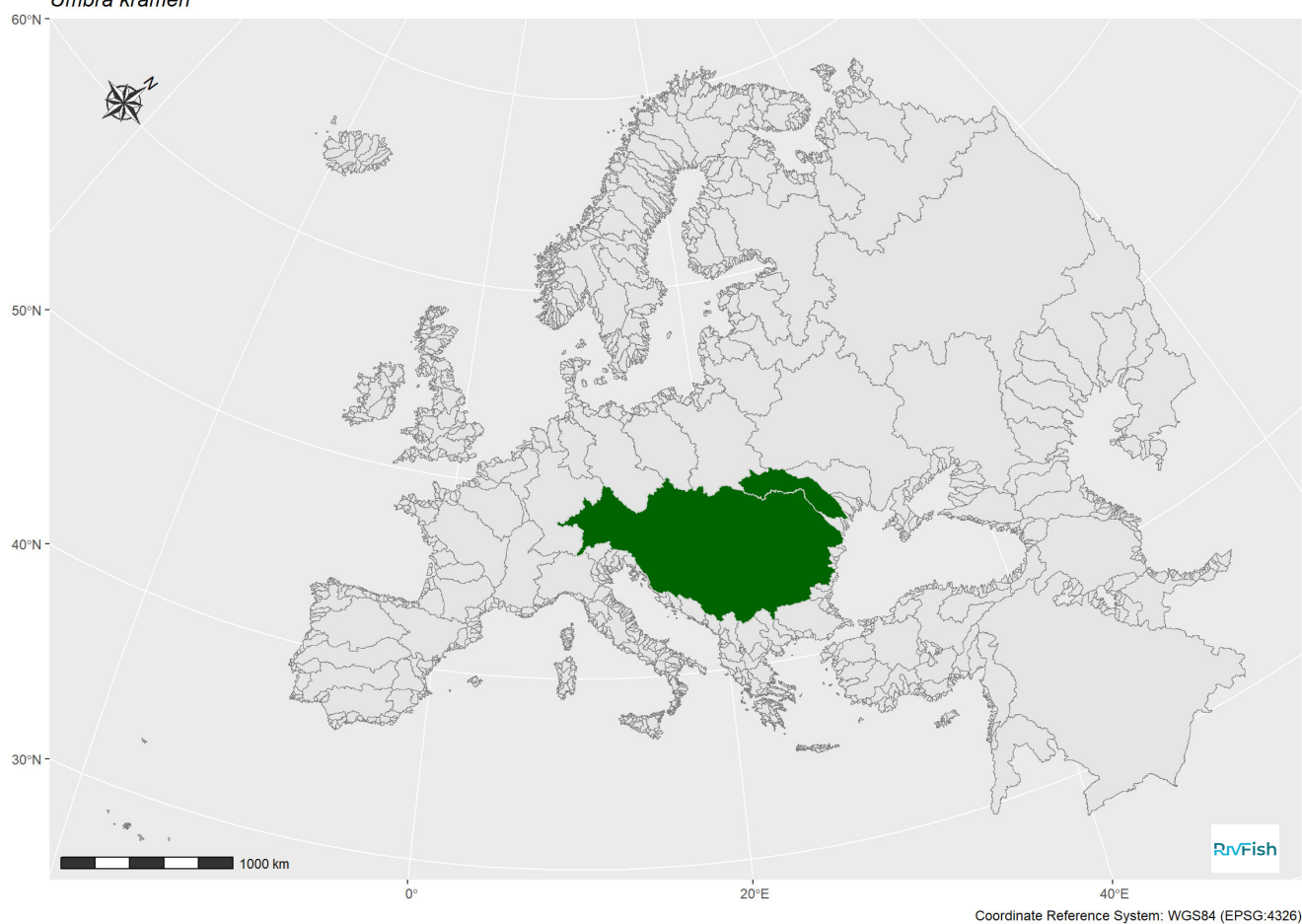




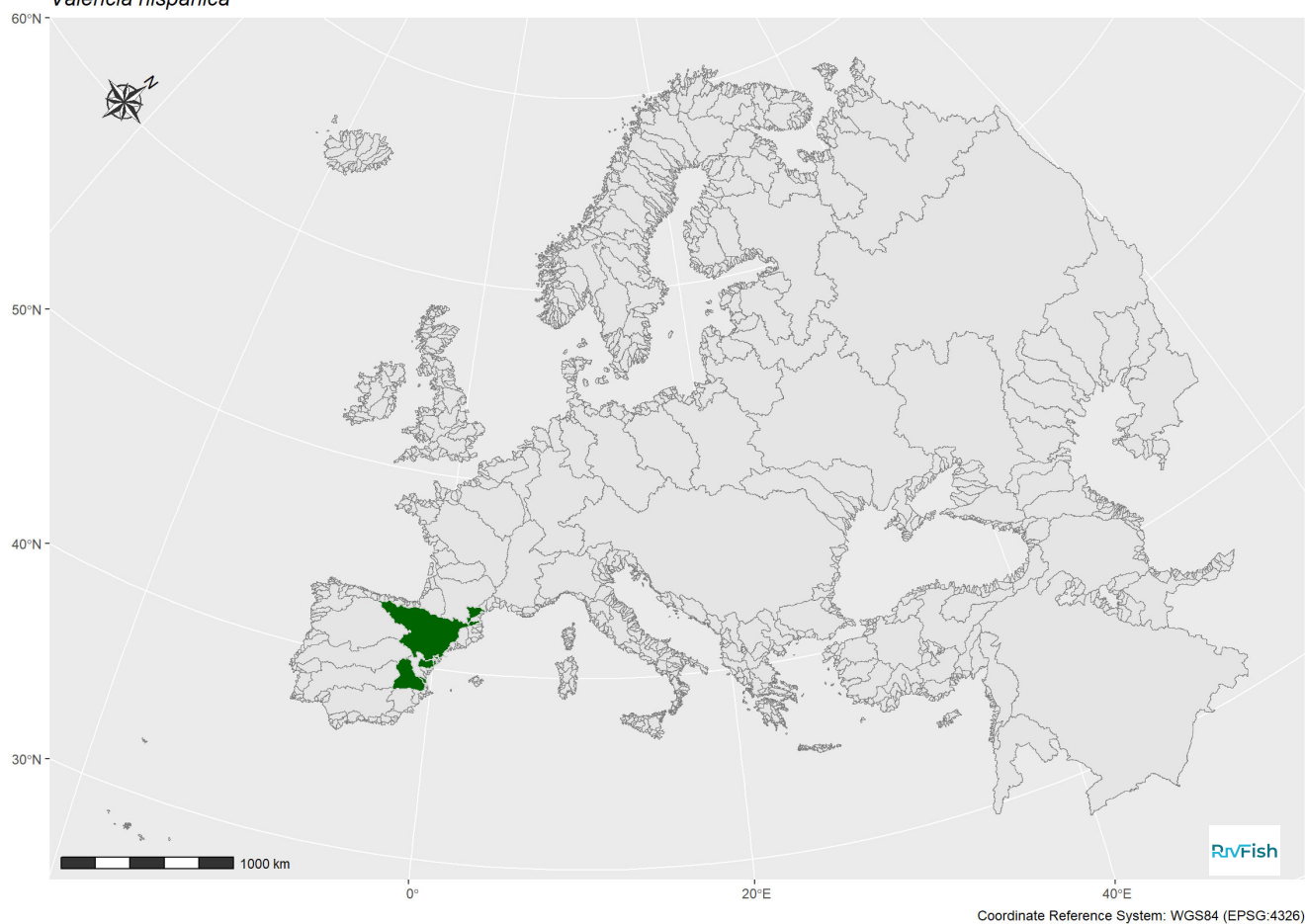
Tropidophoxinellus spartiaticus



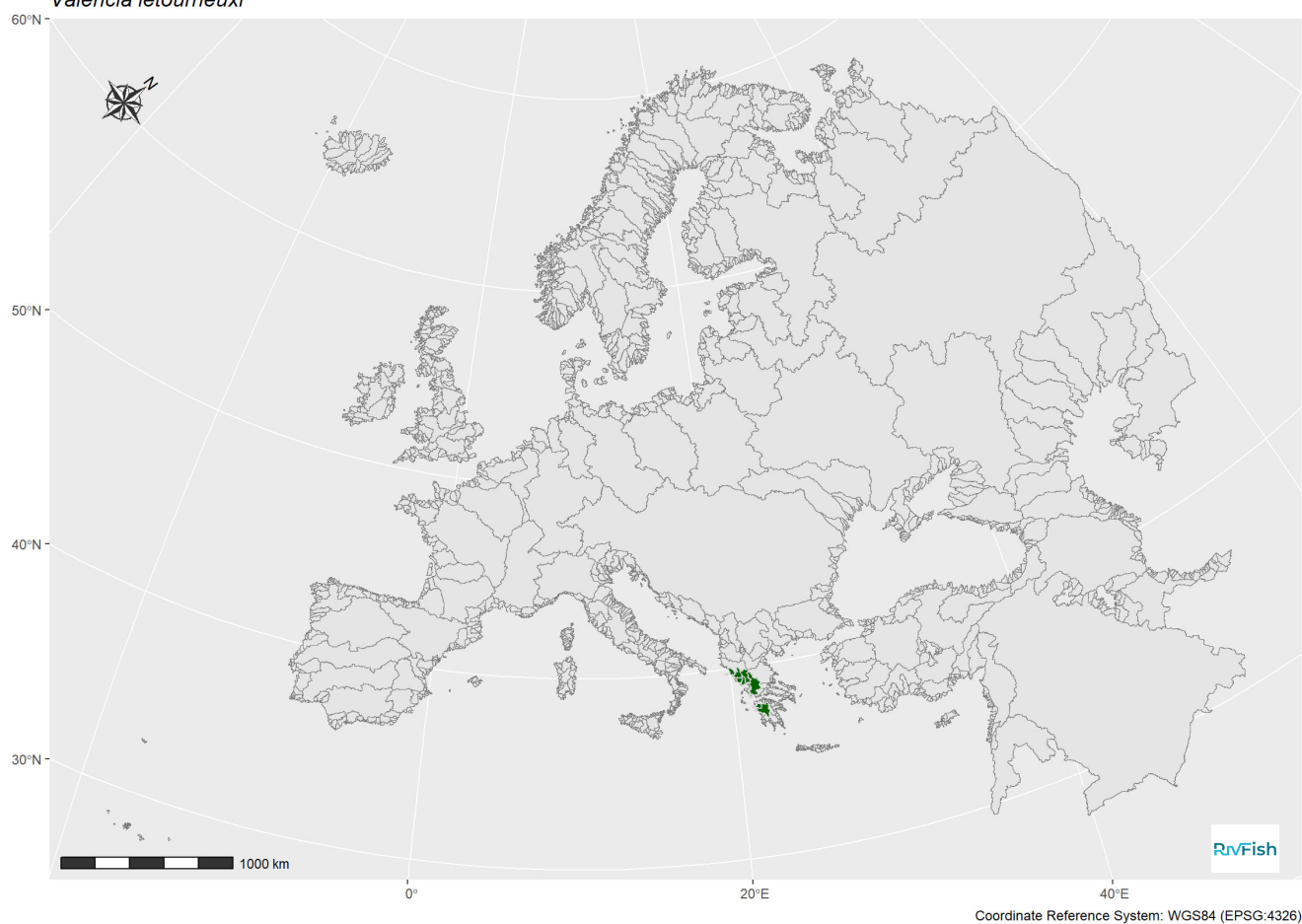
Umbra krameri

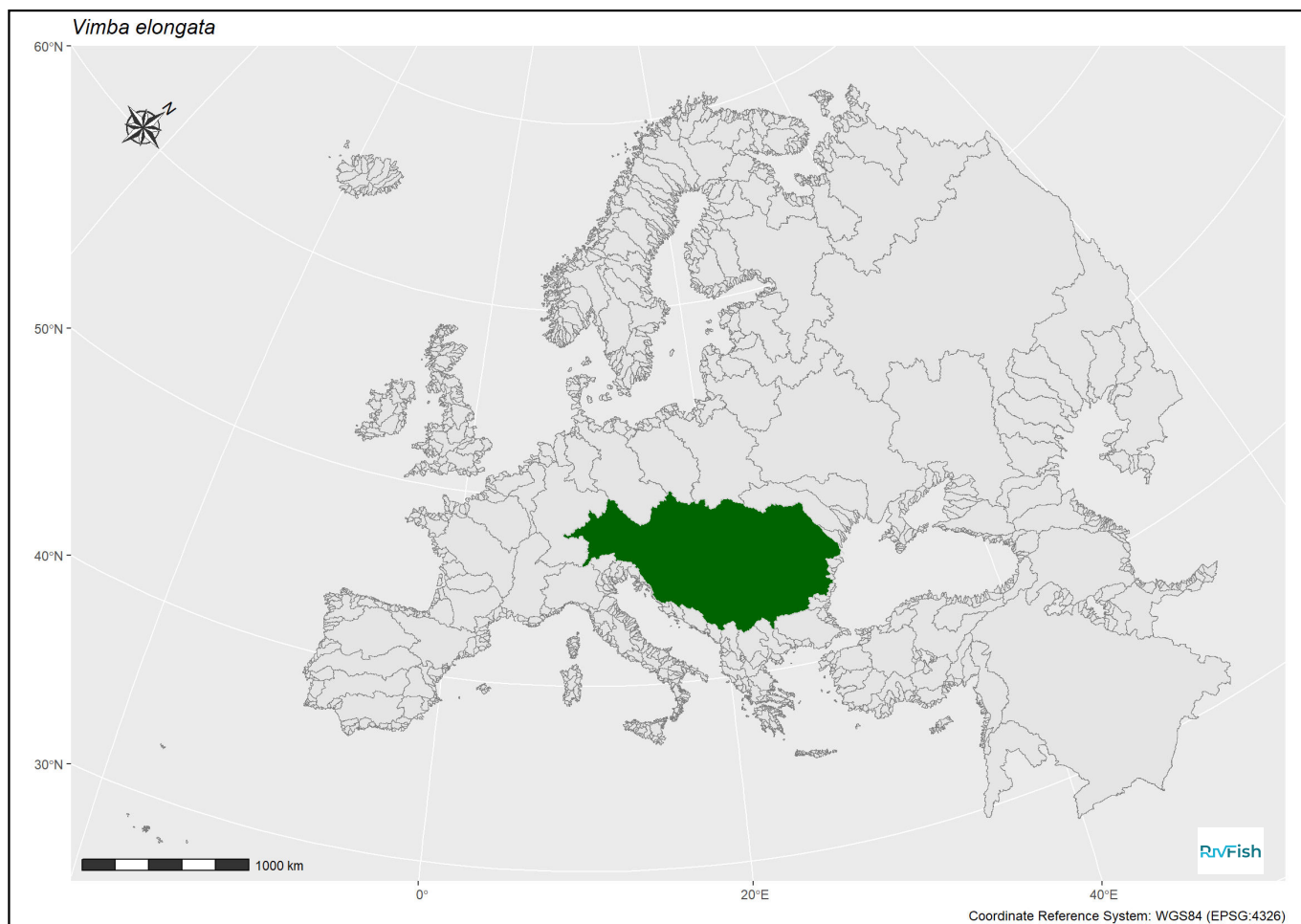
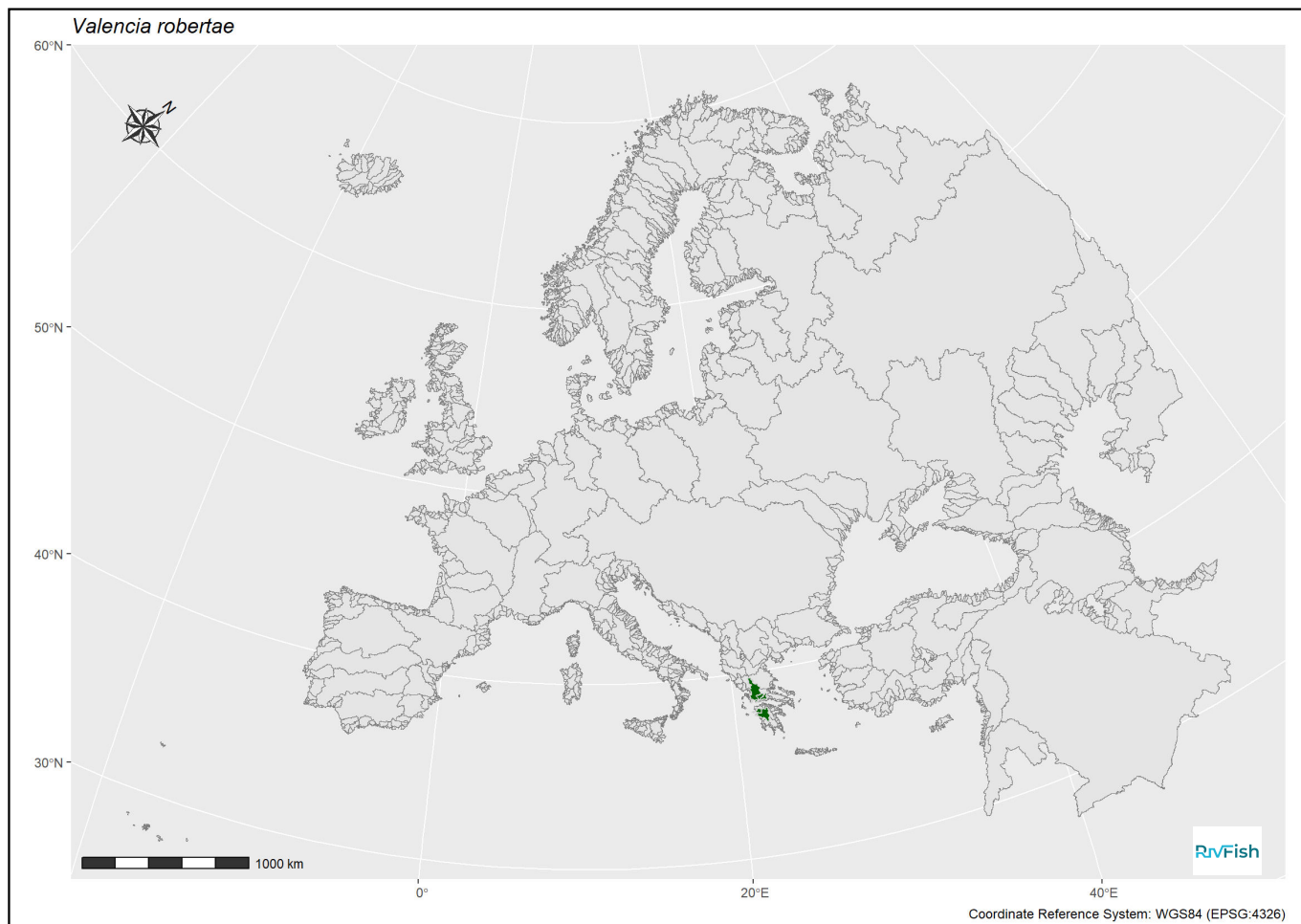


Valencia hispanica

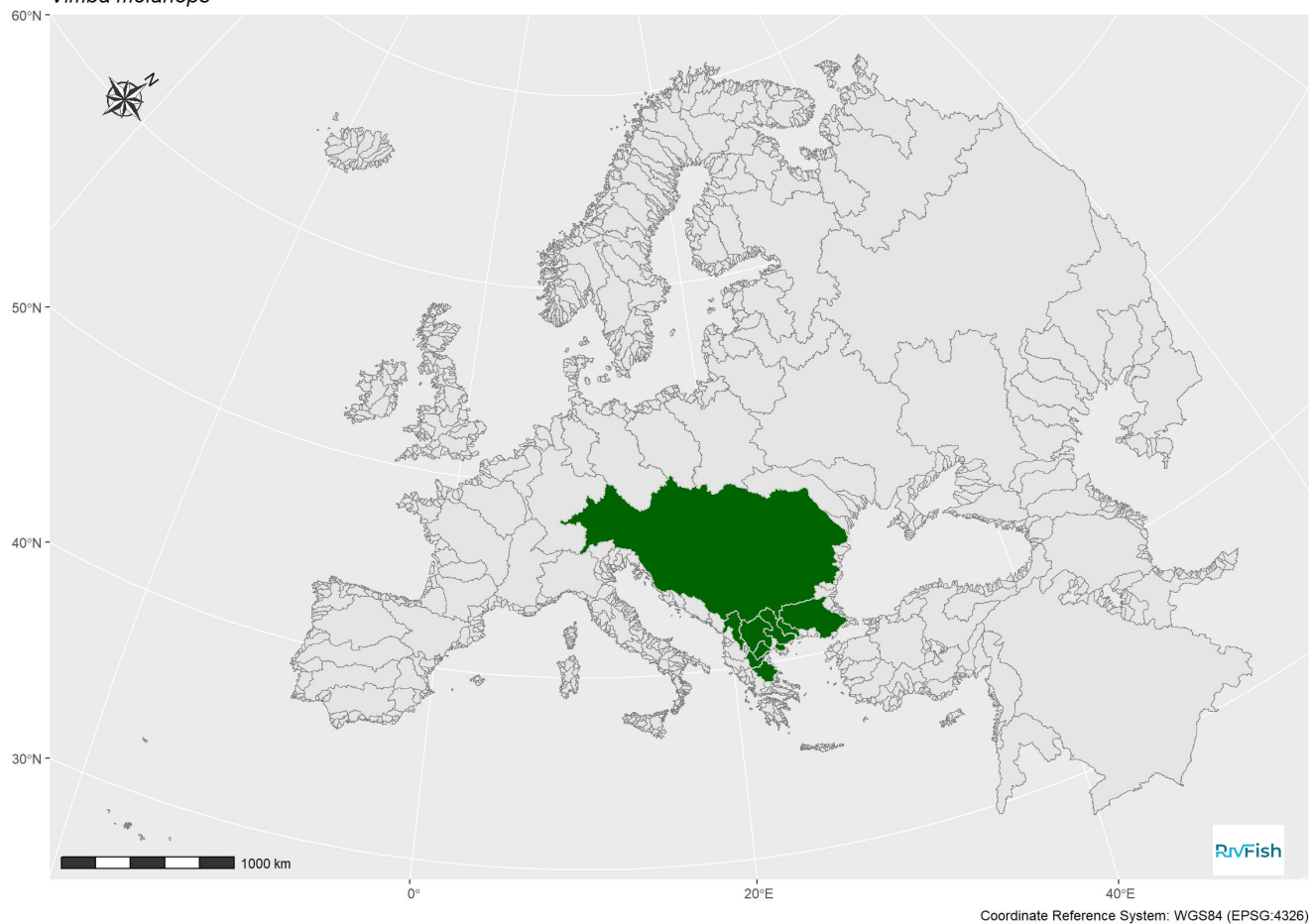


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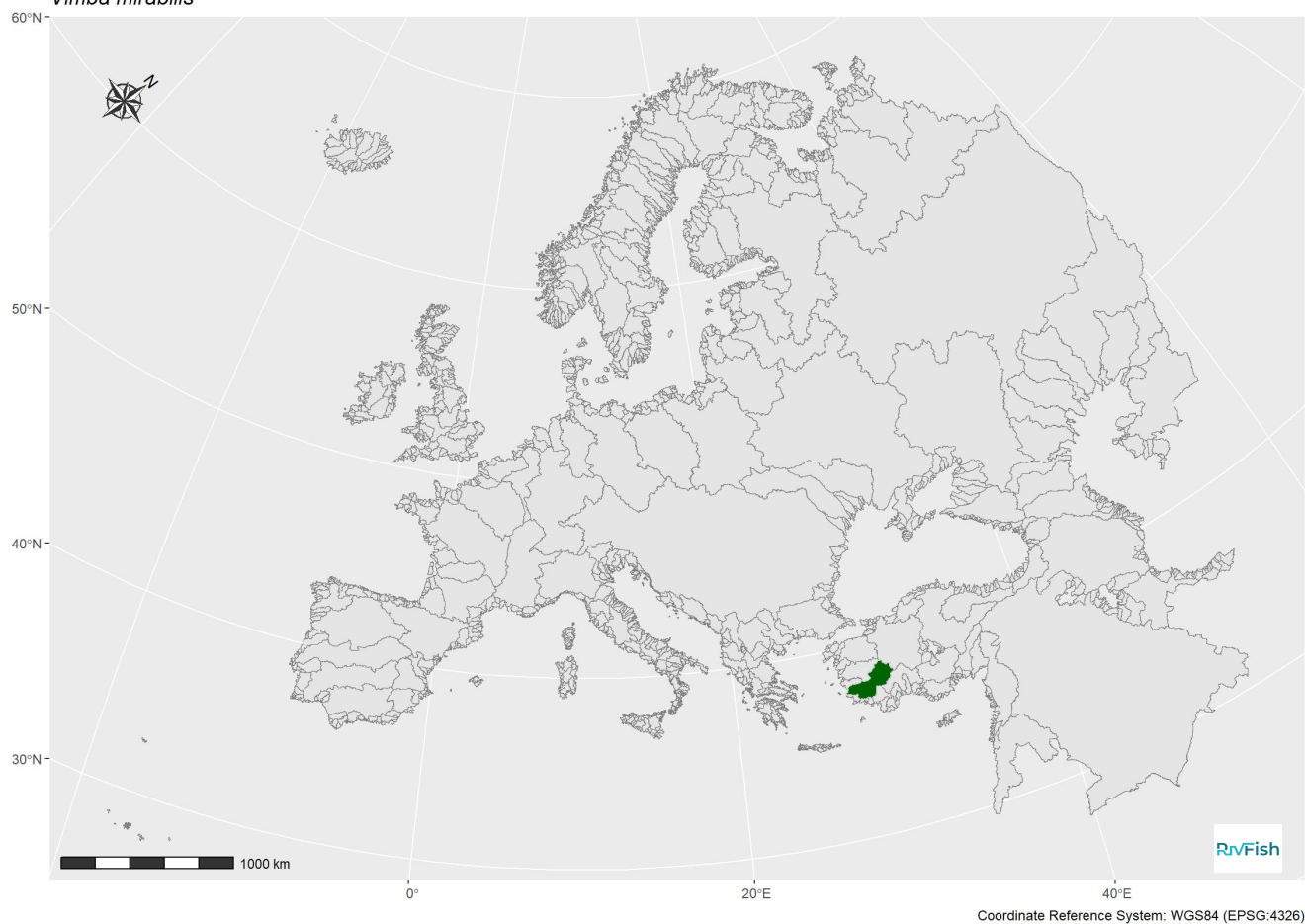


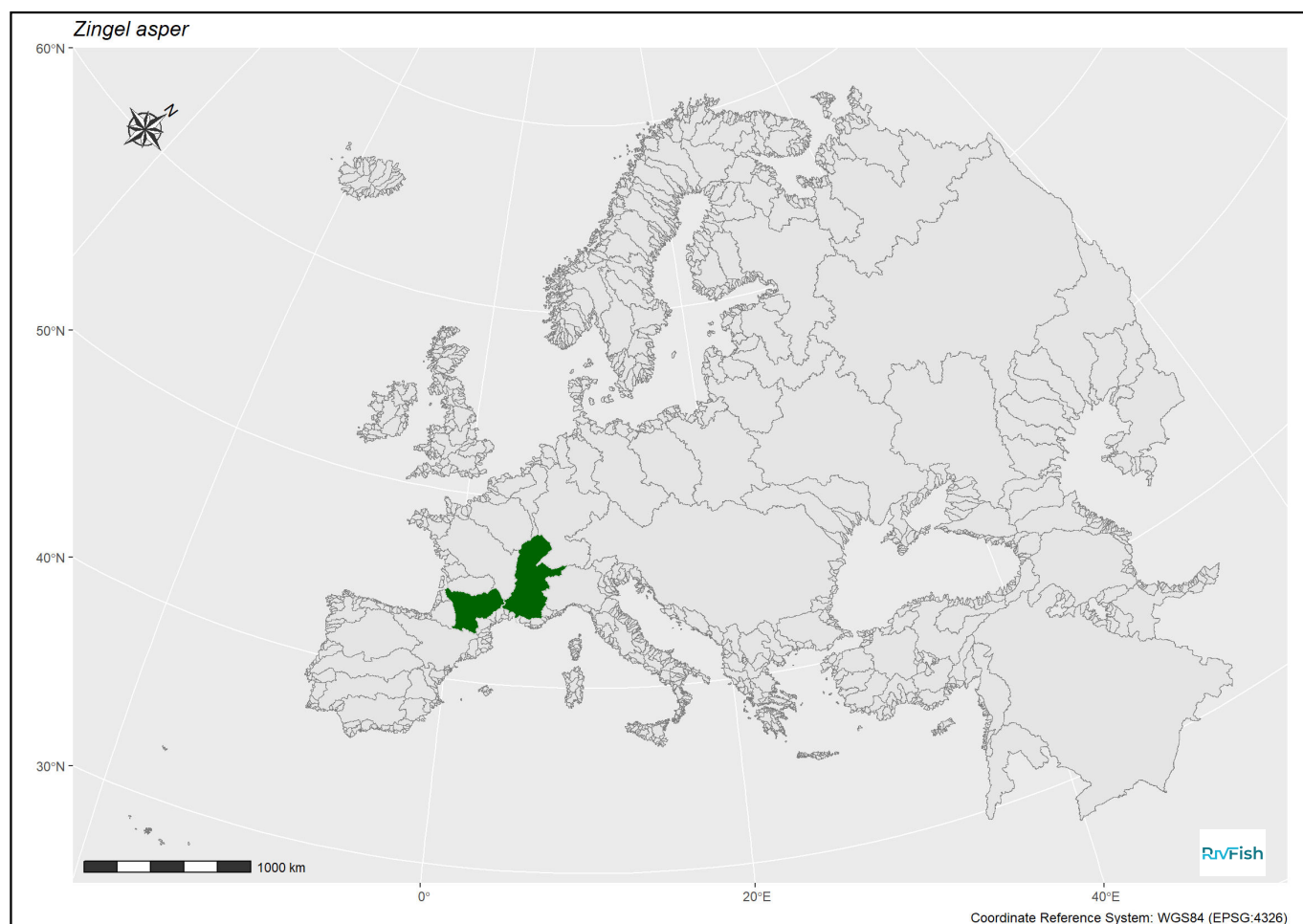
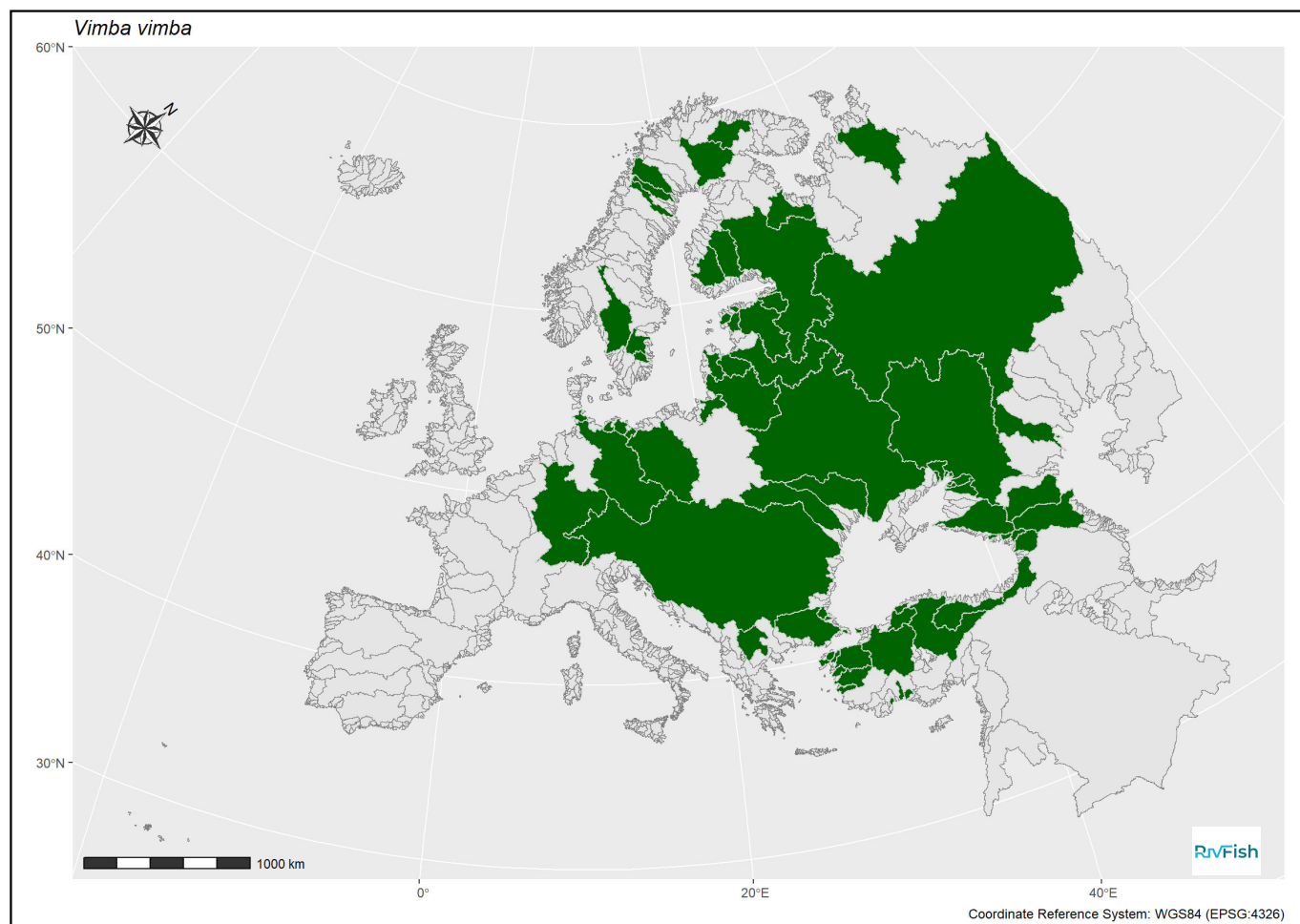


Vimba melanops



Vimba mirabilis



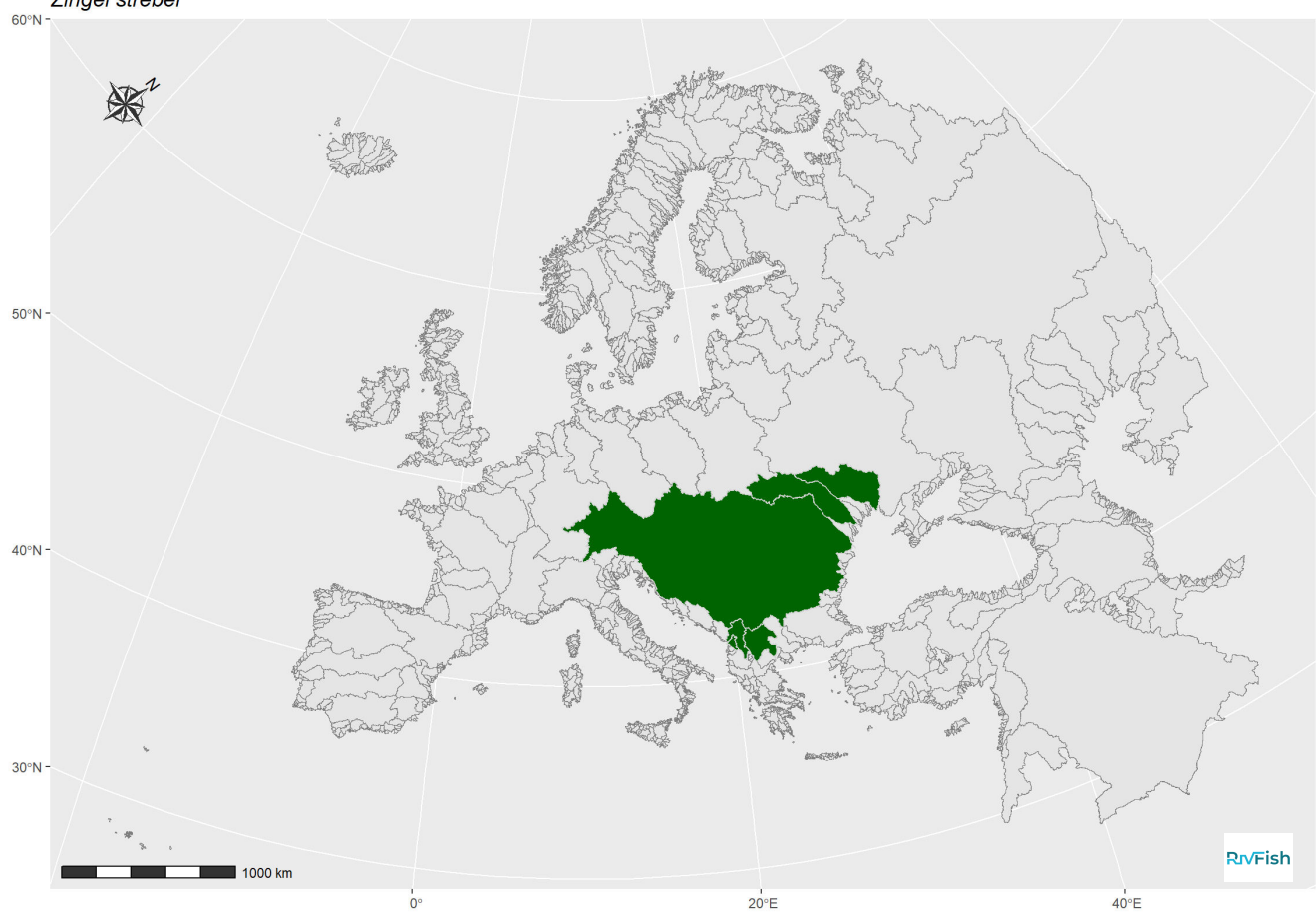


Zingel balcanicus



Coordinate Reference System: WGS84 (EPSG:4326)

Zingel streber



Coordinate Reference System: WGS84 (EPSG:4326)

