

See discussions, stats, and author profiles for this publication at: <https://www.researchgate.net/publication/336737610>

# New contributions on amphibians and reptiles distribution on the Gran Bilbao coast, Biscay (Spain) during the decade of 1970–80

Article · January 2019

CITATIONS

0

READS

24



Juan F. Beltran

Universidad de Sevilla

77 PUBLICATIONS 1,282 CITATIONS

SEE PROFILE



Eduardo José Rodríguez-Rodríguez

Universidad de Sevilla

22 PUBLICATIONS 14 CITATIONS

SEE PROFILE

Some of the authors of this publication are also working on these related projects:



The Iberian lynx in the Pleistocene of Southern Europe [View project](#)



Observado.es [View project](#)

como Caño de la Vera, que por su más difícil acceso puede resultar un posible reservorio para la especie; además podría actuar como corredor desde otros puntos. Este dato resulta importante ante la posible presencia de una población reducida, incluso de una recolonización. La probabilidad de sueltas

es también probable, si bien no es un sitio propicio de esparcimiento, que es donde suelen darse estas sueltas de animales retenidos como mascotas. Sería necesario indagar más para confirmar el origen de esta interesante cita de una especie común, pero hasta ahora dada por extinta en dicha zona.

## REFERENCIAS

- Da Silva, E. 2002. *Mauremys leprosa*. 143-146. In: Pleguezuelos J.M., Márquez, R., Lizana, M. (eds.) *Atlas y Libro Rojo de los Anfibios y Reptiles de España*. Dirección General de Conservación de la Naturaleza-Asociación Herpetológica Española (2ª impresión). Madrid.
- Díaz-Paniagua, C., Andreu, A.C. & Keller, C. 2015. Galápagos leproso – *Mauremys leprosa*. In: Salvador, A., Marco, A. (eds.) *Enciclopedia Virtual de los Vertebrados Españoles*. Museo Nacional de Ciencias Naturales, Madrid. <<http://www.vertebradosibericos.org/>> [Consulta: 1 marzo 2019].
- Gutiérrez-Yurita, P., Green, A.J., López-Romero, M.A., Bravo, M.A. & Montes, C. 1997. Nuevo modelo de trampa para reducir el impacto de la pesca del cangrejo sobre los vertebrados en las Marismas del Guadalquivir. *Doñana, Acta Vertebrata*, 24 (1-2): 51-66.
- Rodríguez-Rodríguez, E.J., Carmona-González, R. & García-Cardenete, L. 2018. Actualización de la distribución de los reptiles en la provincia de Sevilla. *Boletín de la Asociación Herpetológica Española*, 29(2): 111-117.
- Rodríguez-Rodríguez, E.J., De Vries, W., Escrivà, I., Trujillo, F. & Marco, A. 2015. Evolución de la distribución y estimas de abundancia para *Emys orbicularis* y *Mauremys leprosa* en la Sierra Norte de Sevilla. *Boletín de la Asociación Herpetológica Española*, 26 (1): 54-57.

## New contributions on amphibians and reptiles distribution on the Gran Bilbao coast, Biscay (Spain) during the decade of 1970-80

Juan Francisco Beltrán Gala & Eduardo José Rodríguez-Rodríguez

Grupo Evolución, Ecología y Conservación de Vertebrados. Departamento de Zoología. Facultad de Biología. Universidad de Sevilla. Avenida de Reina Mercedes, s/n. 41012 Sevilla. Spain. C.e: [beltran@us.es](mailto:beltran@us.es).

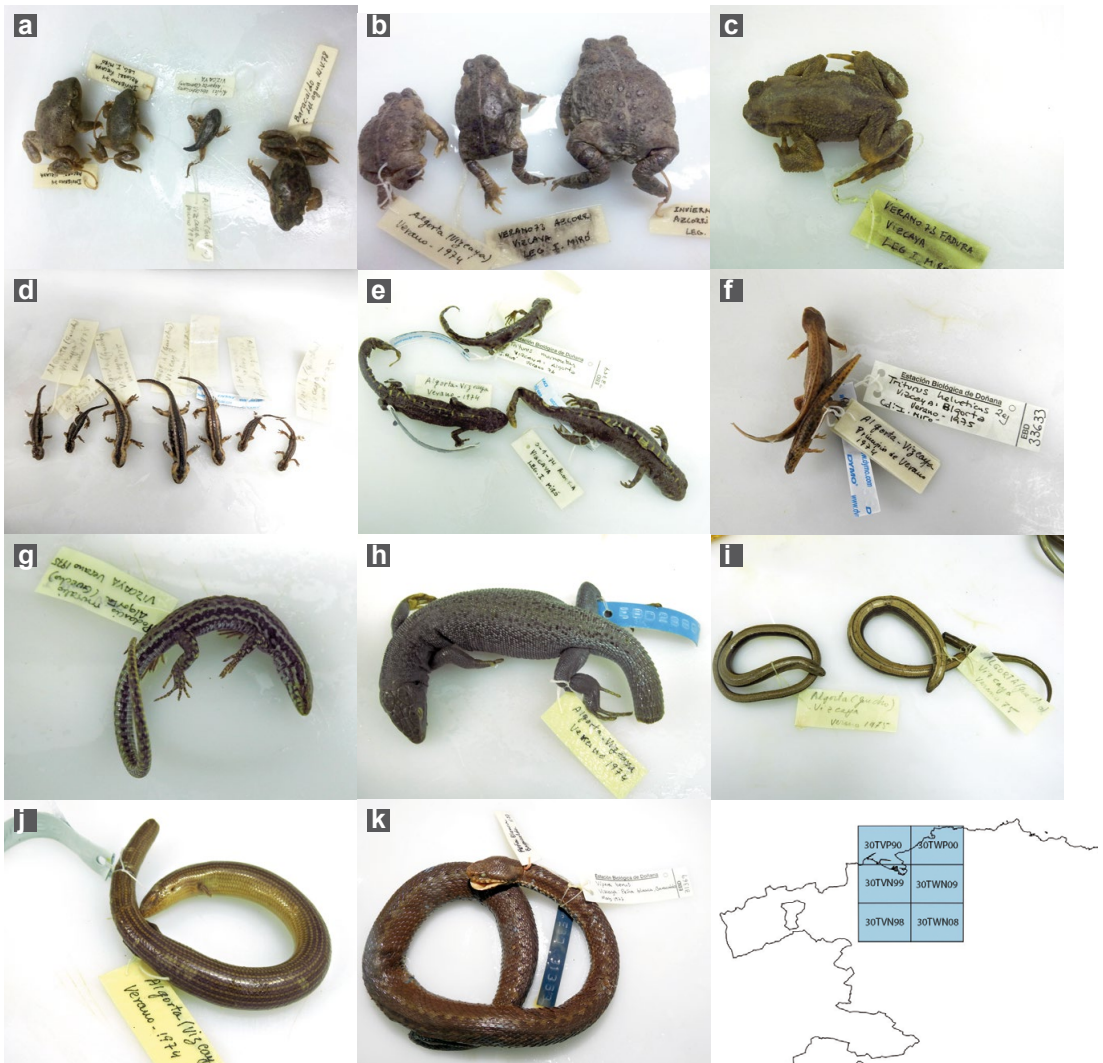
**Fecha de aceptación:** 16 de mayo de 2019.

**Key words:** Amphibians, Biscay, Distribution, Doñana, Reptiles, Scientific Collection.

**RESUMEN:** Se revisan los especímenes de anfibios y reptiles depositados en la colección científica de la Estación Biológica de Doñana (CSIC, Sevilla) procedentes de la región del Gran Bilbao (Vizcaya) durante la década de 1970-80. Se completan así los muestreos realizados en seis cuadrículas (UTM 10x10 km), y se proporcionan nuevos datos sobre 11 taxones (seis de anfibios y cinco de reptiles), cuatro de ellos en cuadrículas donde hasta el momento no habían sido registrados.

If anyone wants to access to Gorrondatxe beach (also known locally as Azkorri), it is easy nowadays: there is a narrow-paved road that takes you almost until the sand. However, at the beginning of the 1970's this was not the case. Anyone who would want to access this natural area had to use a dirty track, or a shorter way

taking the risk of descending the cliff by using a steep path. Young and enthusiastic naturalist apprentices used to find a reward in the risk, because once on the beach, under the rocks there were easy to find different species of reptiles and amphibians. Our mistake was not to write down these data, and just rely in our memory to



**Figure 1:** A sample of the specimens revised in the EBD collection with a map of the revised 10x10 km UTM grids. a) *A. obstetricans*; b) *E. calamita*; c) *B. spinosus*; d) *S. salamandra*; e) *T. marmoratus*; f) *L. helveticus*; g) *P. muralis*; h) *L. bilineata*; i) *A. fragilis*; j) *C. striatus*; k) *V. seoanei*.

**Figura 1:** Una muestra de los ejemplares revisados en la colección EBD, con mapa de las cuadrículas UTM 10x10 km revisadas. a) *A. obstetricans*; b) *E. calamita*; c) *B. spinosus*; d) *S. salamandra*; e) *T. marmoratus*; f) *L. helveticus*; g) *P. muralis*; h) *L. bilineata*; i) *A. fragilis*; j) *C. striatus*; k) *V. seoanei*. Fotos: J.E. Beltrán & E.J. Rodríguez-Rodríguez.

keep the journal of field samplings. This was not the only beach of Biscay visited by these young naturalists, which also visited for herpetological sampling the nearby Arrigúnaga, Tunelboca, and Barinatxe (also known locally as La Salvaje, in Sopela-Getxo), although no data or specimens of these localities were preserved.

Some of these observations were precociously collected in a small book (Miró, 1976), but with very few and scattered distribution data. However, some of those specimens were sent to Dr Javier Castroviejo, director of the Doñana Biological Station (EBD, Seville) in that time, to be incorporated in the growing herpetologi-

cal collection of this institution. A decade later, a much more comprehensive and detailed publication filled the lack of knowledge on herps of this region (Bea, 1985). In 2002, the *Atlas y Libro Rojo de los Anfibios y Reptiles de España* (Pleguezuelos *et al.*, 2002) supposed a new and complete contribution, and since then the SIARE program of “Asociación Herpetológica Española” has kept the information updated.

In this note, we revise the specimens from this area in the EBD collection, in order to fill possible gaps in past distribution, and we provide unpublished data about these taxa in the Gran Bilbao (Biscay) during the 1970 decade. Some specimens were classified under a wrong or obsolete nomenclature, being all specimens analysed and re-identified. The species included in this review are *Alytes obstetricans*, *Epidalea calamita*, *Bufo spinosus*, *Salamandra salamandra*, *Triturus marmoratus*, *Lissotriton helveticus*, *Podarcis muralis*, *Lacerta bilineata*, *Anguis fragilis*, *Chalcides striatus* and *Vipera seoanei*.

The results by species are distributed in six 10x10 km UTM grids (Figure 1). The locations mentioned as already known are extracted from SIARE (2019) and Pleguezuelos *et al.* (2002), San Sebastián *et al.* (2007), and Gosá (1987). When we mention Algorta as a location, we are referring to a wide area around the current Julio Caro Baroja IES (Secondary Education Institute), including the Gobelás river, and some other tributary creeks such as Sarri and Kandelu.

- ***A. obstetricans***: Three specimens in 30TVP90 (10x10 km UTM), one from Algorta (1975) and two from Gorrondatxe beach area (1974). There is no previously published data for this species in this grid. In addition, one specimen from “Camino del Agua” in Barakaldo (30TVN98).

- ***E. calamita***: Four specimens (EBD-34793H, EBD34794H, EBD34795H and EBD34796H) in 30TVP90, one from Al-

gorta (1975) and three from Gorrondatxe beach (1973-1974). This species is poorly distributed around the Basque coast but this grid is one of the few already registered in the coast (San Sebastián *et al.*, 2007; Garin-Barrio *et al.*, 2014). It seems this species has been restricted to the surroundings of Gorrondatxe at least since 1970.

- ***B. spinosus***: One specimen in Fadura, 30TWN09 (1973). This is a well-known locality. The specimen was classified under old taxonomy as *Bufo bufo*.

- ***S. salamandra fastuosa***: Seven specimens (EBD33111) in Algorta, 30TVP90 (1975). The presence in this grid is not recorded previously, although the species is present in several neighbouring grids.

- ***T. marmoratus***: Four individuals (EBD33760, EBD33756, EBD33759, EBD33739) for 30TVP90, in Algorta (1974-1976). Grid previously known. It seems this species was present in the Coast of Algorta-Getxo in the 1970 decade, but no today.

- ***L. helveticus***: Four individuals (two for EBD33634 and two for EBD33663) in 30TVP90, from Algorta (1974-1975). Grid previously recorded.

- ***P. muralis***: Five individuals (EBD34798H, EBD34799H, EBD34800H, EBD34801H, EBD34802H) for 30TWN09, in Barakaldo (1978) and eight individuals (EBD34803H, EBD34804H, EBD34805H, EBD34806H, EBD34807H, EBD34808H, EBD34809H, EBD34810H) from Algorta, 30TVP90 (1974-1975). This last coastal grid is not registered in SIARE (2019) but it appears in Gosá (1987).

- ***L. bilineata***: Two individuals (EBD10214 and EBD28895) in 30TWN09 (previously registered), from San Bartolomé and Leioa (1976 and 1978). One individual (EBD28897) previously unregistered in 30TVP90, from Algorta (1974).

- *A. fragilis*: One individual (EBD10364H) in 30TWN08 (previously known), from Peñas Blancas, Barakaldo (1977). Three individuals (EBD34813H, EBD34814H, EBD34815H) in 30TVP90 (previously known), two from Algorta and one from Azkorri (1973-1975). Two individuals (EBD10339, EBD10365) in 30TWN09 (previously known) from 1978.

- *C. striatus*: One specimen (EBD023418) in Algorta, 30TVP90 (1974). Previously classified as *Chalcides chalcides*. This locality is currently known (SIARE, 2019).

- *V. seoanei*: One specimen (EBD31369) in 30TWN08, from Peña Blanca, Barakaldo (1977), previously classified as *Vipera berus*. This grid is not previously recorded, although there are several known grids around it.

As a conclusion, several of the specimens are from already known grids (SIARE, 2019; Pleguezuelos *et al.*, 2002; Gosá, 1987; San Sebastián *et al.*, 2007; Garin-Barrio *et al.*, 2014), and the rest come from localities next to grids with known presences, but found in new, although historical, grids (this is the case of *A. obstetricans*, *S. salamandra* and *L. bilineata* in VP90, and *V. seoanei* in WN08). However, we consider this information important for several reasons. First, it is valuable as historical data for a currently very populated and transformed area. This change is evident when comparing orthoimages from 1973-1986 (‘vuelo interministerial’) vs 2016 ([www.ign.es/web/comparador.pnoa](http://www.ign.es/web/comparador.pnoa)). It would be interesting to determine if these new documented grids are due to an actual gap of information or a consequence of population disappearance. In fact, several of these populations are threatened due to habitat destruction, especially in the metropolitan areas like Algorta (including the locations of Vega de Berango, Iturgitxi or Arrigúnaga) and coast (Gorrondatxe beach; Garin-Barrio *et al.*, 2014). However,

the urbanization of the area seems not to be the only factor for the disappearance of some populations of species like *T. marmoratus* or *S. salamandra*, since no urbanized areas occur in the grids here mentioned. Among other causes of disappearance or rarification could be water pollution or isolation but these factors must be investigated. Of particular interest are small streams like the mentioned Sarri, Kandelu, and surrounding areas, which could have acted as refuge for some herpetological fauna (G. Morcillo, personal communication). It is important to mention the delicate status of *E. calamita* in the coastal area of Biscay, with an isolated population around Gorrondatxe (San Sebastián, 2007; Garin-Barrio *et al.*, 2014) since 1973, when an individual (EBD34795H) was collected. In addition, we want to remark the importance of scientific collections as field data reservoir. In this case, we have been able to recover useful information from a time in which personal photo cameras were not as common as today. Revision of past data from scientific collections is today a powerful tool to understand the changes from the past, as well as to register and document the present.

**ACKNOWLEDGEMENTS:** We would like to acknowledge to Estación Biológica de Doñana (CSIC) and personally to C. Urdiales to allow us the access to the specimens. In addition, we want to remember the role of Dr J. Castroviejo, encouraging young naturalists to initiate in herps knowledge and make contributions to this science. The senior author also thanks his naturalist friends G. Morcillo Juliani and I. Miró Viar for those years of joy exploring the bio and geodiversity of Biscay, following the guidance and teaching of our dear professor D. J. Gómez Tejedor, first director of Getxo’s INEM (Instituto Nacional de Enseñanza Media de Guecho, current Julio Caro Baroja IES). An anonymous reviewer made comments that improved an earlier version of the manuscript.

## REFERENCES

- Bea, A. 1985. Atlas de los Anfibios y Reptiles de Álava, Vizcaya y Guipúzcoa. 55-99. In: Álvarez *et al.* *Atlas de los Vertebrados Continentales de Álava, Vizcaya y Guipúzcoa*. Departamento de Política Territorial y Transportes, Viceconsejería del Medio Ambiente. Gobierno Vasco. Bilbao.
- Garin-Barrio, I., Laza-Martínez, A. & Cabido, C. 2014. *Seguimiento de la población costera de sapo corredor en el arenal de Azkorri y sus alrededores. Año 2014*. Diputación Foral de Bizkaia. Bilbao.
- Gosá, A. 1987. Las lagartijas del género *Podarcis* en la costa del País Vasco (Vizcaya, Guipúzcoa y Lapurdi). *Eusko Ikaskuntza, Cuadernos de Sección, Ciencias Naturales*, 3: 331-346.
- Miró, I. 1976. *Anfibios y reptiles de Vizcaya*. Colección Temas Vizcaínos. CAV. Bilbao.
- Pleguezuelos, J.M., Márquez, R. & Lizana, M. (eds.). 2002. *Atlas y Libro Rojo de los Anfibios y Reptiles de España*. Dirección General de Conservación de la Naturaleza-Asociación Herpetológica Española (2ª impresión). Madrid.
- San Sebastián, O., Océn, M. & Rubio, X. 2007. *Análisis del estado y distribución geográfica actual del sapo corredor (Bufo calamita) en la costa de Bizkaia*. Diputación Foral de Bizkaia. Bilbao.
- SIARE. 2019. Servidor de Información de Anfibios y Reptiles de España. <<http://siare.herpetologica.es/>>. [Accessed: March 8 2019].

## Nuevas citas de *Hemidactylus turcicus* en Galicia

Antonio Acuña<sup>1</sup>, Francisco Docampo<sup>2</sup>, Marcos Paramos<sup>3</sup> & Xosé Lois Rey<sup>4</sup>

<sup>1</sup> Cl. Concepción Arenal, 135. 36900 Marín. Pontevedra. España.

<sup>2</sup> Cl. Honduras, 11. 3º B. 36204 Vigo. España. C.e.: franciscodocampo@hotmail.com

<sup>3</sup> AHE-Galicia. Cl. Barcelona, 86. 6º C. 36211 Vigo. España

<sup>4</sup> SGHN. Apdo. de correos nº 303. 36600 Vilagarcía de Arousa. Pontevedra. España.

**Fecha de aceptación:** 7 de junio de 2019.

**Key words:** allochthonous, distribution, Galicia, Mediterranean Gecko, NW Iberian Peninsula.

La salamanguera rosada (*Hemidactylus turcicus*) es un reptil con una distribución geográfica ampliamente extendida a lo largo de la cuenca mediterránea, ocupando prácticamente toda la franja marítima y las islas (Geniez, 2002). En la península ibérica se distribuye por todo el litoral mediterráneo, atlántico andaluz y sur de Portugal, incluyendo algunas islas e islotes murcianos (Barón, Perdiguera, Ciervo) y alicantinos (Nueva Tabarca). Está también presente en el archipiélago balear (Mallorca, Menorca, Ibiza, Formentera, Cabrera y muchas islas e islotes adyacentes). Penetra hacia el interior en Zaragoza, el valle del Ebro, Andalucía y Extremadura, así como en zonas del sur de Portugal como las regiones de Alto y Baixo Alentejo (Rato, 2015).

Ha sido introducido en las islas Canarias (entornos urbanos de Las Palmas de Gran Canaria y Santa Cruz de Tenerife), Estados Unidos, México, Cuba y Centroamérica (Geniez, 2002; Pianka &

Vitt, 2003; Locey & Stone, 2006; Hively, 2015; White & Husak, 2015), alejándose poco de la franja costera. Lo más probable es que la mayoría de las citas urbanas, tanto continentales como insulares, sean resultado de introducciones humanas accidentales (Rato *et al.*, 2011).

En Galicia la salamanguera rosada ha sido citada solamente en la cuadrícula UTM 10x10 km 29T NG27 (Vigo) (SIARE, 2019). Además, se cuenta con una cita adicional reciente en Sada (A Coruña; UTM 1x1 km: 29T NJ6000) (Biodiversidade Ameazada, 2019).

En esta nota recopilamos varias citas de salamanguera rosada en Galicia y aportamos detalles sobre algunas de las posibles vías de entrada de la especie. Las primeras observaciones se produjeron en torno a un local comercial de ultramarinos cercano al núcleo urbano de Poio (Pontevedra; NG2897), entre los años 2006 y 2017. Se detectó la pre-