



PALEONTOLOGICAL RESEARCH LINES IN THE NORTHWEST OF IBERIAN PENINSULA

Book of abstracts of the 1st PaNOP

Editors

Blanca Moncunill-Solé
Néstor Carrillo-Barral
Alejandro Blanco

2022



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November, 2022

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Prologue

The first scientific studies focused on fossils recovered in the northwestern Iberian Peninsula were performed at the beginning of the XX Century; though important paleontological findings had already been discovered in the 1800s. However, it was not until the 60s when there was a little growth of Paleontology in the region. At that time, several foreign geologists carried out prospections and studies in the Galician Paleozoic (Mondoñedo and O Courel-Peñalba), with special interest in the paleontology of trilobites and archaeocyathids. In the following decades, Dr. Isidro Parga Pondal – from the Laboratorio Xeolóxico de Laxe – prompted the mobilization of Spanish geologists towards the North-West of the Iberian Peninsula, whose studies and assessments let to discover new and significant fossil sites. In the 90s, the first generation of paleontologists academically formed in northwestern universities was developed, creating new research lines in paleontology of large mammals, paleoclimatology, paleoecology, and paleobotany. This expansion of the research field was introduced to the scientific community in 1997, when the first and unique paleontological meeting in Galicia was performed (XIII Jornadas de Paleontología “Fósiles de Galicia”, October 16th-18th 1997, A Coruña). The main aim of such meeting was to disseminate the fossil heritage, prompting and developing a professional core of paleontologists in the Galician region. Today, 25 years later, new paleontologists have joined the Galician University System, funded by autonomic, national, and international programs. This leads to a bloom of new groups and research lines.

From the Paleontology Area of the Universidade da Coruña, we want to take the opportunity of this 25th anniversary to organize the 1º Simposio de Paleontología del Noroeste Peninsular - PaNOP (November 16th-18th 2022), with the aim to reunite researchers and/or research groups from the Galician University System specialized in Paleontology, as well as those from other regions and countries that work or have worked in fossil sites and/or remains recovered in the northwest of Iberian Peninsula. We hope the researchers share their last findings and results with the scientific community during these three days of symposium, by means of presentations in specialized sessions of all the different geological times. The meeting will also prompt synergies among the participants, and reignite the dissemination of the Paleontological Heritage of the northwestern Iberian Peninsula.

The Organizing Committee

Universidade da Coruña,

November 2022

New data on the carbonate microfacies from the upper Cenomanian of the Baixo Mondego region (Beira Litoral, Portugal)

E. Rodríguez-Gómez^{1*}, B. Ferré², P. M. Callapez³, A. Balbino^{4,5,6}, P. Legoinha⁶, B. Granier⁷ & G. Marino^{1,8}

The Baixo Mondego region in western Portugal is reknown to expose a large record of middle to upper Cenomanian and lower Turonian platform carbonates with rich fossil assemblages. There is a huge variety of microfacies that suggests a rather complex palaeo-environmental setting. Several workers initiated their study since the 1960s, but the available information now require being complemented with new relevant bio-stratigraphic and palaeo-ecological data. Within this scope, the upper Cenomanian carbonate levels “C” to “J” of the Costa d’Arnes Formation were sampled from stratigraphic sections located between the localities of Salmanha, Vila Verde and Lares. A representative collection of 85 thin sections was then prepared for a micropalaeontological study completed in both the Earth Sciences Department of the New University of Lisbon and the University of Vigo. Subsequently, the following planktonic foraminifers were identified in bioclast-rich, wackstone-packstone, carbonate microfacies: *Hedbergella delrioensis*, *Heterohelix* sp., *Guembelitria cretacea*, *Helvetoglobotruncana praehelvetica*, *Rotalipora cushmani*, *Whiteinella* spp., *Dicarinella* sp., and *Praeglobotruncana delrioensis*. They occur together with the benthonic foraminifers: *Thomasinella punica*, *Placopsilina cenomana*, *Hemicyclammia sigali*, *Gavelinella* sp., *Marssonella oxycona*, *Dorothia* sp., and *Ammobaculites* spp., and forms attributed to *Lenticulina*, *Quinqueloculina* and *Nautiloculina*. Other bioclasts include abundant dasycladacean algae and small fragments of invertebrates, including sponges, bryozoans, bivalves, gastropods, serpulid worms, echinoids, and crinoids. These Tethysian-influenced assemblages indicate the presence of a rather distal, mid- to outer-shelf environment with open marine conditions.

Keywords

Baixo Mondego
Cenomanian
Microfossil assemblages
Outer shelf
Palaeoenvironment
Western Portugal

Contact

E. Rodríguez-Gómez
estefania.rodriguez@uvigo.es

Poster

1 CENTRO DE INVESTIGACIÓN MARIÑA, UNIVERSIDADE DE VIGO, GEOMA, PALAEOCLIMATOLOGY LAB, VIGO, SPAIN | 2 SAINT ÉTIENNE DU ROUVRAY, FRANCE | 3 DEPARTAMENTO DE CIÊNCIAS DA TERRA (CENTRO DE INVESTIGAÇÃO DA TERRA E DO ESPAÇO), UNIVERSIDADE DE COIMBRA, PORTUGAL | 4 ACADEMIA DAS CIÊNCIAS DE LISBOA, LISBOA, PORTUGAL | 5 DEPARTAMENTO DE CIÊNCIAS DA TERRA, UNIVERSIDADE DE ÉVORA, PORTUGAL | 6 GEOBIOTEC, FACULDADE DE CIÊNCIAS E TECNOLOGIA, UNIVERSIDADE NOVA DE LISBOA, MONTE DA CAPARICA, PORTUGAL | 7 DÉPARTEMENT DES SCIENCES DE LA TERRE ET DE L'UNIVERS, FACULTÉ DES SCIENCES ET TECHNIQUES, UNIVERSITÉ DE BRETAGNE OCCIDENTALE, BREST, FRANCE | 8 RESEARCH SCHOOL OF EARTH SCIENCES, THE AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, AUSTRALIA

Occurrence of roveacrinoid assemblages (Roveacrinida, Crinoidea) in the Upper Cretaceous carbonate microfacies of Portugal

E. Rodríguez-Gómez^{1*}, B. Ferré², P. M. Callapez³, A. Balbino^{4,5,6}, P. Legoinha⁶, B. Granier⁷ & G. Marino^{1,8}

Roveacrinoids are a group of small, stemless, pelagic crinoids that are widespread in the Cretaceous carbonate microfacies of the fully-marine environments of the Tethysian Realm. Their minute remains have been described from a variety of outer shelf assemblages from Brazil, North and West Africa, and Europe, including Spain, where they can be quite abundant in high sea-level successions of platform carbonates. Despite their wide geographical dispersal and rather broad stratigraphic range, the occurrence of the family Roveacrinidae in the Cretaceous marine series of mainland Portugal had been so far lacking confirmation. A detailed study of carbonate microfacies has been purportedly undertaken in the Upper Cenomanian limestone units of Figueira da Foz (Costa d'Arnes Formation), where the most representative, microfossil-rich, outer shelf carbonate facies from the northern sector of the West Portuguese Carbonate Platform are exposed. The research thesaurus comprised four local stratigraphic sections showing a succession nearly 30 metres-thick, with massive limestone and marly limestone beds designated as units "C" to "J". These Tethysian carbonates were sampled through a collection of 85 thin sections, all representative of the different facies and stratigraphic levels. The subsequent microfacial analysis evidenced several roveacrinid taxa in carbonate levels rich in dasycladacean algae, planktonic and benthonic foraminifers, as well as diverse invertebrate microremains, including sponges, bryozoans, bivalves, gastropods, serpulids, and echinoids. The assemblages consist of *Roveacrinus geinitzi*, *Roveacrinus* cf. *alatus*, *Roveacrinus communis*, and *Roveacrinus* sp., suggesting the presence of an outer shelf, rather deep water environment, able to support a diverse benthonic fauna, together with planktonic and nektonic elements.

Keywords

Figueira da Foz, Portugal
Microfacies
Palaeoenvironment
Roveacrinidae
Upper Cenomanian

Contact

E. Rodríguez-Gómez
estefania.rodriguez@uvigo.es

Oral Presentation

1 CENTRO DE INVESTIGACIÓN MARIÑA, UNIVERSIDADE DE VIGO, GEOMA, PALAEOCLIMATOLOGY LAB, VIGO, SPAIN | 2 SAINT ÉTIENNE DU ROUVRAY, FRANCE | 3 DEPARTAMENTO DE CIÊNCIAS DA TERRA (CENTRO DE INVESTIGAÇÃO DA TERRA E DO ESPAÇO), UNIVERSIDADE DE COIMBRA, PORTUGAL | 4 ACADEMIA DAS CIÊNCIAS DE LISBOA, LISBOA, PORTUGAL | 5 DEPARTAMENTO DE CIÊNCIAS DA TERRA, UNIVERSIDADE DE ÉVORA, PORTUGAL | 6 GEBIOTEC, FACULDADE DE CIÊNCIAS E TECNOLOGIA, UNIVERSIDADE NOVA DE LISBOA, MONTE DA CAPARICA, PORTUGAL | 7 DÉPARTEMENT DES SCIENCES DE LA TERRE ET DE L'UNIVERS, FACULTÉ DES SCIENCES ET TECHNIQUES, UNIVERSITÉ DE BRETAGNE OCCIDENTALE, BREST, FRANCE | 8 RESEARCH SCHOOL OF EARTH SCIENCES, THE AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA, AUSTRALIA

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PRINCIPIA



La Cátedra Epifanio Campo

EPIFANIO CAMPO - Leonés de nacimiento, con tan solo 18 meses Epifanio Campo se traslada a vivir a Vilalonga (Sanxenxo) con sus tíos y con apenas 22 años se hace cargo de sus empresas de extracción de arcillas. De ahí surgiría el grupo Cerámica Campo, una empresa de materiales de construcción tanto cerámicos como de hormigón, que tiene actualmente tres sedes en Galicia.

Gran empresario, visionario e innovador, dedicó toda su vida a trabajar por sus empresas y por sus empleados, guiado por su gran amor a Galicia y su interés en el desarrollo de la región. Economista de profesión, Epifanio es suficientemente perspicaz para saber que la construcción tendrá sus altibajos, por lo que diversifica sus negocios, pero siempre con el foco puesto en Galicia. El interés en el desarrollo de la economía y la sociedad gallega será una constante a lo largo de toda su vida. Así, además de participar en numerosas iniciativas empresariales junto con destacados socios y en múltiples sectores, crea el holding RODONITA, nombre que refleja su amor por los minerales, ya que realizó estudios en Ingeniería de Minas.

Epifanio cree en el desarrollo sostenible, por lo que invierte en energías renovables, y participa también en diversas firmas de hostelería, gestión de residuos o como gestor de mercados municipales. En el campo de la gestión de residuos, Epifanio demostró ser un visionario, y se inicia en este sector a finales de los años 80, siempre con la meta puesta en la economía circular.

En 1991 funda Protección Medio Ambiental SL (PMA), para gestionar y valorizar aceites minerales usados. En aquellos momentos, iniciándose en el mundo de la gestión de residuos, colabora estrechamente con la Xunta de Galicia y con asociaciones provinciales de despieces y talleres de automoción y participa activamente en la creación de SOGARISA. Entre 1995 y 2016 SOGARISA explota el CTRIG y Epifanio Campo se convierte en el socio gallego de referencia de la sociedad explotadora, colaborando siempre con la Xunta de Galicia en la búsqueda de soluciones a los grandes retos ambientales de la Comunidad.

CÁTEDRA EPIFANIO CAMPO - En noviembre de 2019 nace la cátedra Epifanio Campo, adscrita a la Escuela Politécnica Superior en el Campus de Ferrol, con el objetivo de establecer un marco de colaboración estable entre la Universidade da Coruña y el Grupo RODONITA, para el intercambio de experiencias en el campo de la docencia, la investigación y la divulgación científica relacionadas con el medioambiente y la sostenibilidad y en particular con la gestión de residuos industriales.

La división de Medio Ambiente del Grupo RODONITA trabaja desde su fundación bajo los principios de la responsabilidad ambiental y la economía circular, y con esa filosofía se crea la Cátedra Epifanio Campo, siguiendo el legado de un emprendedor comprometido con Galicia

y con el respeto al medio ambiente, como un adelantado a su tiempo, previendo el desafío que supondría en el futuro la gestión y la valorización de residuos.

Así, desde la Cátedra Epifanio Campo se promocionan todo tipo de actividades de formación, divulgación, investigación y transferencia de conocimiento en el ámbito de la gestión medioambiental y el tratamiento de residuos industriales. Uno de los proyectos más destacados en el campo de la divulgación es el de conceptualización, diseño y puesta en marcha del Centro de Interpretación de Residuos Industriales, que se encuentra actualmente en proceso y se ubicará en el Campus de Ferrol. El objetivo es avanzar en la divulgación científica a la comunidad escolar, a la comunidad universitaria, y a la sociedad en general sobre aspectos de gestión medioambiental relacionados con la recuperación y valorización de los residuos industriales. El desarrollo del Centro de Interpretación viene avalado por la experiencia en la actividad medioambiental que acumula el Grupo RODONITA, en concreto a través de las sociedades Protección Medio Ambiental S.L. (PMA), SOGARISA y Contenedores de la Coruña S.L. (CONTECO).

En el marco de esta Cátedra también se desarrollan actividades de formación y divulgación tales como jornadas, conferencias, visitas técnicas y didácticas o la promoción de prácticas curriculares y extracurriculares en las empresas del Grupo Rodonita. Además, se promueven actividades de transferencia y de investigación a través del desarrollo de proyectos conjuntos y del apoyo en la realización de tesis doctorales, trabajos fin de máster y trabajos fin de grado.

Schedule

Wednesday, November 16th

10.00-10.15	INAUGURAL SESSION, by Aurora Grandal d'Anglade
10.15-10.30	
PALEOZOIC & MESOZOIC SESSION. CONVENOR: ALEJANDRO BLANCO	
10.30-10.45	José B. Diez
10.45-11.00	<i>Contribution of the Paleobotany Group of Vigo to study the mesophytic floras of the NW of the Iberian Peninsula</i>
11.00-11.15	Sara Romero
	<i>A taxonomic reappraisal of the trilobite record from Galicia (NW Spain)</i>
11.15-11.30	Antonio Hernández Orúe
	<i>The problem of variability in the identification of adpression fossil plants (with examples of Pecopterids from the Cantabrian Carboniferous).</i>
11.30-11.45	Coffee Break
11.45-12.00	
12.00-12.15	Iván Rodríguez Barreiro
	<i>A reflection of the Mesozoic Galician floras: paleopalynology from the Galicia Bank and Vigo seamounts, NW Iberian offshore (sites 639, Leg 103, and 398, Leg 47B)</i>
12.15-12.30	Artai A. Santos
	<i>Plants, arthropods, and plant-arthropod interactions from the Late Carboniferous ecosystems of the NW Iberian Peninsula</i>
12.30-12.45	A. Alessandro Chiarenza
	<i>Tempo and mode in the evolution of dinosaurian (Archosauria: Dinosauria) climatic niche space</i>
12.45-13.00	Estefanía Rodríguez Gómez
	<i>Occurrence of roveacrinoidal assemblages (Roveacrinida, Crinoidea) in the Upper Cretaceous carbonate microfacies of Portugal</i>
13.00-13.30	Lunch time
13.30-15.00	
15.00-16.00	Juan Carlos Gutiérrez Marco
	<i>La industria de los fósiles de Marruecos: aspectos éticos y patrimoniales</i>
16.00-16.30	Coffee Break
16.30-17.30	Roundtable. Moderator: José B. Diez
17.30-18.30	<i>“Specific Legislation of the Paleontological Heritage in Galicia”</i>

Thursday, November 17th**CENOZOIC SESSION 1. CONVENOR: BLANCA MONCUNILL-SOLÉ**

10.00-10.15	Eduardo Barrón
10.15-10.30	<i>An overview of the palaeobotanical studies carried out on Galician Cenozoic basins and future prospects</i>
10.30-10.45	Manuel Casas-Gallego
	<i>Vegetation and climate in the As Pontes basin (A Coruna, NW Spain) through the Oligocene</i>
10.45-11.00	Rafael Carballeira
	<i>Understanding deterioration due to salt crystallization in plant fossils from Galicia (NW Iberian Peninsula)</i>
11.00-11.15	Alejandro Blanco
	<i>The 'Tertiary' palaeontological heritage from Galicia (NW Spain)</i>
11.15-11.30	Aurora Grandal d'Anglade
	<i>Cave bear (Ursus spelaeus) family behaviour revealed by ichnology and palaeogenetics</i>
11.30-11.45	Coffee Break
11.45-12.00	
12.00-12.15	Darío Estraviz-López
	<i>First occurrence of elk (Cervus canadensis) in Iberian Peninsula at Cova do Rei Cintolo (Galicia, Spain)</i>
12.15-12.30	Ana García-Vázquez
	<i>Morphological, isotopic and proteomic study of the fragmented bone remains of Cova dos Santos (Abadín, Lugo, NW Spain)</i>
12.30-12.45	Gloria González-Fortes
	<i>Palaeogenetics at the Northwestern Edge of Europe</i>
12.45-13.00	Ana García-Vázquez
	<i>Fossil brown bears (Ursus arctos) from NW Iberia: chronology, paleodiet and paleogenomics</i>
13.00-13.30	Lunch time
13.30-15.00	
15.00-16.00	POSTER SESSION
16.00-16.30	Coffee Break
16.30-17.30	Roundtable. Moderator: Luisa Santos Fidalgo <i>"Paleontological Scientific Career in Galicia"</i>
17.30-18.30	

Friday, November 18th

CENOZOIC SESSION 2, CONVENOR: RAFAEL CARBALLEIRA

10.00-10.15	Sara Varela
10.15-10.30	<i>Challenges when using Ecological Niche Models to map past species ranges</i>
10.30-10.45	Sara Gamboa <i>Closing the gap between Palaeontology and Neontology</i>
10.45-11.00	Eva Fernández-Bejarano <i>Femoral bone histology of extant ochotonids: a palaeobiological approach to study life history of fossil lagomorphs</i>
11.00-11.15	Blanca Moncunill-Solé <i>Reviewing eco-evolutionary adaptations of extinct ochotonids (Mammalia, Lagomorpha) to island environments: clues for the management of extant ones</i>
11.15-11.30	CLOSING SESSION* , by Alejandro Blanco
11.30-11.45	Coffee Break
11.45-12.00	
12.00-12.15	Geometric Morphometrics Workshop part 1 by Soledad de Esteban-Trivigno (Transmitting Science)
12.15-12.30	
12.30-12.45	
12.45-13.00	
13.00-13.30	Farewell lunch
13.30-15.00	
15.00-16.00	Geometric Morphometrics Workshop part 2 by Soledad de Esteban-Trivigno (Transmitting Science)
16.00-16.30	
16.30-17.00	
17.00-17.30	

* Closing session will include the awards ceremony and official photo with all the participants of the Symposium.

POSTERS

1. **N. Carrillo-Barral, B. Moncunill-Solé & A. Blanco.** *New finding of Stratiotes fossil seeds in the Oligocene lignite from As Pontes basin, NW Spain.*
2. **S. Galván, S. Gamboa & S. Varela.** *Future fossils: application of fossil record biases on current biodiversity information.*
3. **S. Gamboa, P. M. Carro-Rodríguez, E. Cuesta, M. Ríos, A. Oliver, L. Domingo, I. Menéndez, D. Sanz-Pérez, P. López-Guerrero, V. Hernández-Ballarín & A. R. Gómez Cano.** *Women in Palaeontological Meetings: are they currently more represented?*
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