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Updating Field Course integrated in the I Course for Geosciences
Teachers - Special Edition
Accredited Training Course for Biology and Geology teachers "Field classes - a strategy
for science teaching VII - Naturtejo Geopark
...and more!

CRUZIANA

NATURTEJO UNESCO GLOBAL GEOPARK - E-MAGAZINE



MONTHLY ACTIVITIES



May 3rd and 4th - Field trip "interpretation of biodiversity and geodiversity in Tapada do Sobral, Idanha-a-Nova". The activity took place in the scope of the Natural Sciences discipline, and was intended for 43 students of the 8th grade of the Idanha-a-Nova School Group, who were accompanied by two teachers. The instructor was Manuela Catana.

May 4th - The UNESCO International Geosciences Programme has renewed funding for the project 'IGCP 726 GEOfood for Sustainable Development in UNESCO Global Geoparks'. The UNESCO International Geosciences Programme renewed for another year the funding of the project 'IGCP 726 GEOfood for Sustainable Development in UNESCO Global Geoparks', led by the Magma, Hateg and Naturtejo Geoparks. During the last management team meeting, which meets every 2 months, the results of the project evaluation made by UNESCO were analysed and the next actions were scheduled for the year 2022. Recently, the "GEOfood" board game was launched and can be used in schools as an educational resource for the discovery of more sustainable ways of eating.



May 6th to 8th - Field Course integrated in the I Updating Course for Teachers in Geosciences - Special Edition. This training course marked the 20 years of the CAP 21st edition and was organized by the Portuguese Association of Geologists in partnership with Naturtejo UNESCO Global Geopark. The 1st CAP Special, accredited by the Scientific-Pedagogical Council for Continuing Education for teachers of 520, 420 and 230 groups, showed the evolution of the scientific knowledge in the last 20 years in the Geopark territory, the extraordinary geodiversity and the vast and rich Geological Heritage of this territory of Science, Education and Geotourism. During the field course the educational value of the following geosites was highlighted and visited by the participants: Ponsul Fault scarp, in Idanha-a-Nova; Monsanto Inselberg; Penha Garcia Ichnological Park; Thermal Spa of Monfortinho; Barrocal Park, in Castelo Branco; Fossil Trunks of Vila Velha de Ródão; Zooarchaeological Station of Foz do Enxarrique; Natural Monument of Portas de Ródão; Roman Gold Mine of Conhal do Arneiro; Portas de Almourão Viewpoint, in Foz do Cobrão. Fifty teachers and geologists attended this field course and the trainers were Carlos Neto de Carvalho, Joana Rodrigues and Manuela Catana.



May 9th - Field Trip "On the Fossils Trail of Penha Garcia searching for Trilobites traces. The activity took place in the scope of the Natural Sciences discipline, attended by 60 7th grade students and 3 teachers. This initiative resulted from a partnership between Naturtejo Geopark, the School Group José Silvestre Ribeiro and the Municipality of Idanha-a-Nova. And was framed in the action "Think Outside the Box" of the Integrated and Innovative Plan to Combat School Failure (PIICIE - 2nd phase), promoted by CIMBB and funded by Centre 2020, Portugal 2020 and the European Social Fund. The trainers were Catarina Caria and Manuela Catana.

May 9th - Meeting of the Tourism Working Group of the European Geoparks Network. The Tourism Working Group met virtually with representatives from eight geoparks, coordinated by Carlos Neto de Carvalho. At this meeting it was discussed the new tourist tool that is under development and that corresponds to a Geotouristic Guide of European Geoparks. This Guide presents packages of innovative experiences on each geopark and seeks to demonstrate the diversity of the tourism offer organized by the European UNESCO geoparks.

May 10th - Visit of International Master's Degree from University of Minho to Naturtejo Geopark. The International Master Pangea, of which the University of Minho and Naturtejo Geopark are associated partners, organized a visit to Naturtejo Geopark. During two days the students, coordinated by the teachers José Brilha and Paulo Pereira, visited the main geomonuments of Naturtejo Geopark. Among these, students and teachers were received in the Barrocal Park by Carlos Neto de Carvalho. Here, besides a visit to the geodiversity of Barrocal, took place a round table where the students could discuss the strategies adopted by Naturtejo Geopark along the years.



May 10th - Field trip "Reconnecting with Nature in the Vultures Trail in Salvaterra do Extremo. The activity took place in the scope of the Natural Sciences discipline, and was attended by 28 students from the 9thA of the School Group accompanied by 1 teacher. This initiative resulted from a partnership between Naturtejo Geopark, the School Group José Silvestre Ribeiro and the Municipality of Idanha-a-Nova. And was framed in the action "Think Outside the Box" of the Integrated and Innovative Plan to Combat School Failure (PIICIE - 2nd phase), promoted by CIMBB and funded by Centre 2020, Portugal 2020 and the European Social Fund. The trainer was Manuela Catana.



May 13th - Field Trip "Fossils of Penha Garcia and Monsanto Boulders" for students from Miranda do Corvo School Group. 47 students and 3 Biology and Geology teachers from the 10th and 11th grades and Geology from the 12th grade, from Miranda do Corvo School Group, attended the activity monitored by Manuela Catana.



May 14th and 28th - Bio-Region Market of Idanha-a-Nova. In April, two more editions of the Bio-Region Market of Idanha-a-Nova took place, and from now on every 2nd and 4th Saturday of each month. Besides Naturtejo Geopark space, where the consumers could know the Geopark territory, the Geoproducts and GEOfood, were present with their own stand the partners Geocakes (Idanha-a-Nova) and Vale de Alfaia (Sobral do Campo), which already have loyal customers. It is also possible to buy products from other partners such as RODOLIV, Ervas da Zoe, Egitânia or Aromas do Valado at the Market.



May 19th - Introductory Training Course to Groundwater in Thermal Springs of Monfortinho. Termas de Monfortinho hosted an Introduction to Groundwater training session, aiming to raise awareness for the importance of natural mineral waters and for the complex processes of underground circulation. Historical aspects of Termas de Monfortinho and the Hydrogeological Heritage of Geopark Naturtejo were discussed and a water tasting performed. The training course was attended by elements of the Thermal Spa of Monfortinho team and a partner company of tourism animation, in an action run by the geologist Joana Rodrigues.



May 19th - Outdoor Classroom Day. Under the ODETE Program - Odemira Educational Territory Carlos Neto de Carvalho was invited to present some of the main sites of geological relevance of the municipality of Odemira to 7th grade students from local schools. On the Outdoor Classroom Day students of Nossa Senhora da Graça School discovered the fascinating geological stories of the beaches of Foz dos Ouriços and Malhão.



May 20th and 21st - Accredited training course for Biology and Geology teachers from Guimarães "Field classes - a strategy for science teaching VII - Naturtejo Geopark". The accredited training course for Biology and Geology teachers, through Francisco de Holanda Training Centre (Guimarães) was addressed to 29 Biology and Geology teachers. The 25 hours course included a field trip to Naturtejo Geopark (12 hours). This course aimed to complement the curricular guidelines with motivational strategies for teaching and to develop new pedagogical tools applied to the Geopark. The program included the Fossils Trail, the Monsanto Boulders, the Natural Mineral Waters of Termas de Monfortinho, the Fossil Trunks of Vila Velha de Ródão, the Fluvial Terrace of Foz do Enxarrique and a boat trip through Portas de Ródão and was accompanied by the geologist Joana Rodrigues.

Following the field course, the trainees will develop pedagogic tools about Naturtejo Geopark, to be used in classroom context. Joana Rodrigues boosted the field trip in Naturtejo Geopark.

May 20th to June 5th - European Geoparks Week in another Landscape Festival in the Centre of Portugal.

Naturtejo UNESCO Global Geopark territory is once again preparing to organize the Landscape Festival. It is the European Geoparks Week that takes place in 94 UNESCO territories existing in 28 countries. Hundreds of activities to celebrate the most enchanting natural and human landscapes recognized by UNESCO which potentiate a more sustainable human development. In Naturtejo Geopark there are 25 events, among conferences and visits for knowledge sharing, sustainable markets, activities for the youngest and nature walks. Naturtejo UNESCO Global Geopark Landscape Festival that will take place between May 20th and June 5th starts with the Fôlego Project of artistic intervention for the community, allying art, science and environment, in Oleiros. The first day of the festival starts with a training action for Biology and Geology teachers which will extend through Naturtejo Geopark for two days. During the weekend it will take place the delicious Cherry and Lemon Festival of Montes da Senhora, in Proença-a-Nova, with a hike with "Cherry Hills". On Saturday, Cambas River Beach in Oleiros hosts the Schist Market, with many local products, and there is a staged tour around the village of Oleiros. From Idanha-a-Nova an online conference on children's sleep will take place. On Sunday, the Living Science Forest Centre hosts another edition of the BioDivSummit, this year dedicated to biodiversity in the era of digital and climate transition.

The second week starts well with theatre at Raiano Cultural Centre "The biggest flower in the world", in Idanha-a-Nova. On the following days the project Fôlego goes to the Oleiros School with Pigmentos. On the 25th Africa Day will be celebrated in the village of Idanha-a-Nova and a night walk in Oleiros. In this same day and until the end of the week takes place the Meeting of UNESCO Portuguese Geoparks, with the presence of Naturtejo Geopark in Arouca.

The last weekend of the month sees the organisation of the now classic Orvalho GeoTrail and another edition of the Bio-Region Market in Idanha-a-Nova. Penamacor brings Nature to the table in a workshop promoted by the partnership of the European Charter of Sustainable Tourism - Lynx Lands.

The last week of the Landscape Festival is dedicated to children and future generations. The Children's Day is celebrated with the Healthy Market in Castelo Branco. In the same day the UNESCO Portuguese Geoparks start the Biennium for Climate Action in Portuguese Geoparks. In Oleiros, the week is dedicated to music, including an exhibition in the Municipal Gallery, the Oleiros Children's Music Festival and the project "Mão Verde" celebrating the World Environment Day. In Idanha-a-Nova the commemorations of the Children's Day are extended with theatre, the Iberian Encounters for children taking place on June 4th and the concert "Kids Live" closing the Landscape Festival.

During the period of Naturtejo UNESCO Global Geopark Landscape Festival the exhibition "Nature in Movement" will be open in the Municipal Museum of Penamacor.



May 21st and 22nd - Accredited Training Course for teachers "A Day in the Geology of Odemira. Naturtejo Geopark went once again towards teachers providing a geological capacity building action for Odemira teachers. Carlos Neto de Carvalho organized and taught this course for primary schools teachers. The first day was theoretical, with the presentation of bases and educational tools for understanding the geodiversity of the Odemira County. The second day allowed trainees to contact directly with some of the most important geosites located on Odemira coast, from Cabo Sardão, Lapa das Pombas, Ponta dos Azulejos, Foz dos Ouriços Beach and the cliffs south of Malhão Beach.



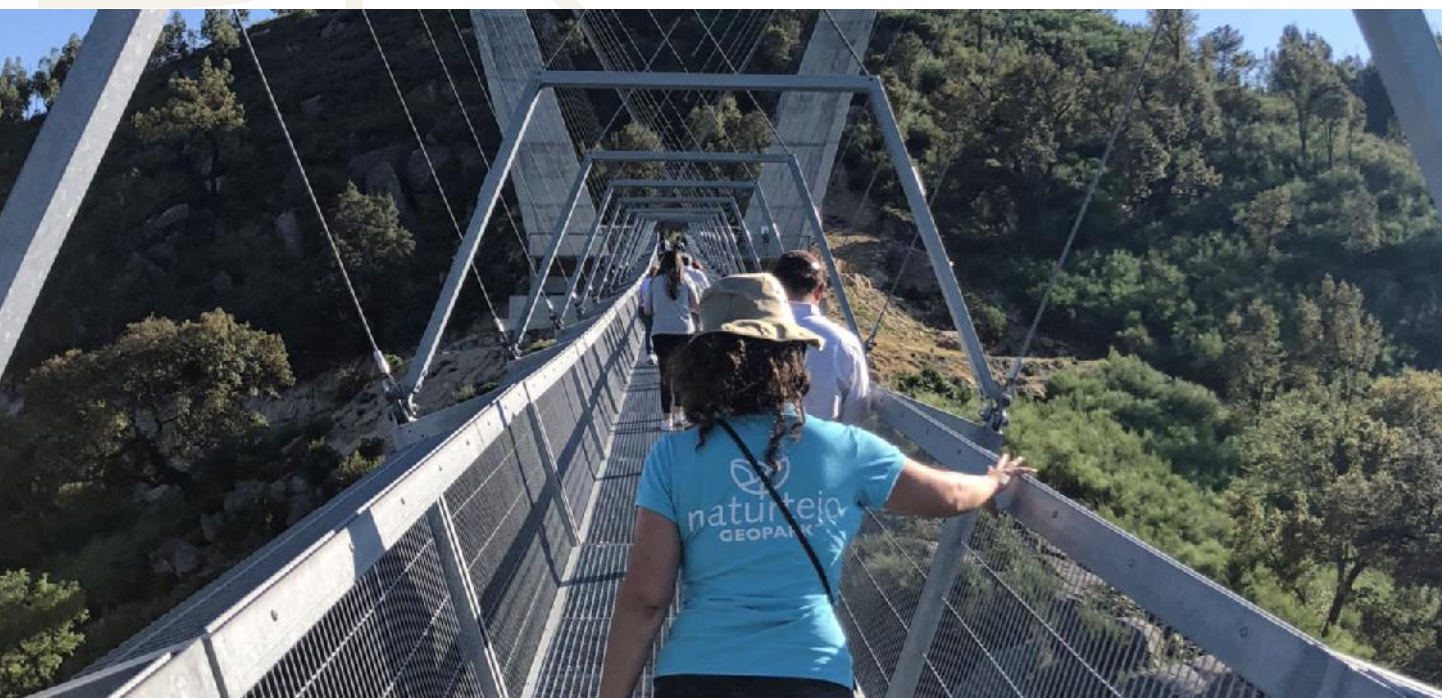
May 22nd - Celebration of International Biodiversity Day, with actions integrated in the Iberian Invasive Species Week 2022. A volunteer action to remove the aquatic invasive plant that was detected in the Toulica Dam, the creeping Ludwigia (*Ludwigia peploides*) was held. This invasive species is a serious threat to the biodiversity of the dam, which is home to 5 species of rare aquatic plants, including one that has disappeared for many years and has the only known population in Portugal. This invasive species is being targeted for eradication, which began with removal actions last October under the LudVISION Project (a project of the Municipality of Idanha-a-Nova, co-financed by the Environmental Fund). In the afternoon, the exhibition "Aquatic Plants of Idanha-a-Nova" was opened in the Cultural and Welfare Centre of Zebreira.

In the future, the exhibition will be itinerant through the parishes and schools of the Municipality, as well as in some thematic events in this municipality and others. This activity was organized by Idanha-a-Nova Municipality in partnership with the Zebreira and Segura Parishes Union. The actions were boosted by the Ecologist Joel Palhas, from the Functional Ecology Centre of Coimbra University with the support of Catarina Caria. The action was attended by around 10 volunteers who were collaborating with EcoAtivo Association.

May 23rd - New GEOfood board game. The GEOfood board game was launched, a game aiming to raise awareness in a playful way to the concept of GEOfood and the development process of geoproducts in Geoparks.

The game was developed in the scope of the international project IGCP726 "GEOfood for the Sustainable Development in UNESCO Global Geoparks", financed by the International Geosciences Program of UNESCO, in which Naturtejo Geopark participates. It fits in a package of tools developed to support local agents in the implementation of GEOfood and was coordinated by Geopark Hateg (Romania). The game is available for download in the GEOfood portal and can be adapted to each territory.

May 25th - Meeting of the Sustainable Tourism Observatory of Center of Portugal. The Sustainable Tourism Observatory of Center of Portugal met with smaller groups of associations from the territory. The outlines of a tourism data collection platform that will enter into testing in autumn 2022 were presented. The Monitoring System of the Tourist Activity of Center of Portugal (SMAT) has a comprehensive character, in order to allow to gauge and quantify the main impacts of tourism at local and regional level, considering the four major domains of sustainable development: economic, environmental, social and cultural. The possibility of a cycle of events to present the Observatory to local agents was also discussed. Carla Jacinto represented Naturtejo Geopark in this meeting.



May 25th to 27th - Meeting of UNESCO Portuguese Geoparks. Arouca Geopark received the Meeting of UNESCO Portuguese Geoparks, in the scope of the European Geoparks Week. During 3 days took place meetings and technical visits to geosites, museological and interpretation spaces, local GEOfood market, contacts with partner companies and GEOfood partners. All field visits were accompanied by the Arouca Geopark team and by partner tourism animation companies.

Representatives from the five UNESCO Global Geoparks (Naturtejo, Arouca, Açores, Terras de Cavaleiros and Estrela), the three Aspirant Geoparks (Oeste, Algarvensis and Viana do Castelo), Tourism of Portugal, Regional Tourism Authorities of Porto and North Portugal and Turismo Center of Portugal participated.

The Meeting included a meeting between the Presidents of the Geoparks who signed a protocol of cooperation between UNESCO Geoparks. Armindo Jacinto, President of Naturtejo Geopark, attended the meeting remotely, and reaffirmed the importance of the network work that has been developed, not only benefiting each territory, but also in the higher visibility and institutional affirmation of the Geoparks in Portugal. He also underlined the importance of the collaboration with the territories in the application stage. Besides the Chairman Armindo Jacinto, Carla Jacinto and Joana Rodrigues represented Naturtejo Geopark.

May 26th - Participation by invitation in the III Workshop of the Project Geopark Costões e Lagunas of Rio de Janeiro. Naturtejo UNESCO Global Geopark was invited to present its example in the III Workshop of the Project of Geopark Costões e Lagunas do Rio de Janeiro. In this webinar, Carlos Neto de Carvalho spoke about Social and Economic Gains in UNESCO Geoparks.



IMPACT OF GEOPARK IN MEDIA



TV & Radio

May 5th (radiocastelobranco.pt) – “Educational Landscapes of Naturtejo UNESCO Global Geopark” in book

May 18th (Rádio Campanário) - Landscape Festival in Naturtejo Geopark until June 5th

May 20th (Rádio Elvas) – European Geoparks Week in Landscape Festival

Newspapers & www

May (Erbe der Welter) – Advertising Naturtejo Geopark

May 4th (viajes.nationalgeographic.com.es) – A tour around the geoparks of Portugal

May 3rd (<https://jornalpovodeportugal.eu/>) - New book "Educative Landscapes of the Naturtejo UNESCO Global Geopark" presented in Teachers Updating Course

May 3rd (BeiraNews) - New book "Educative Landscapes of the Naturtejo UNESCO Global Geopark" presented in Teachers Updating Course

May 3rd (maisbeiras.sapo.pt) - New book "Educative Landscapes of the Naturtejo UNESCO Global Geopark" presented in Teachers Updating Course

May 4th (BeiraBaixaTV) - New book "Educative Landscapes of the Naturtejo UNESCO Global Geopark" presented in Teachers Updating Course

May 16th (MédioTejo.net) – Landscape Festival in Naturtejo Geopark until June 5th

May 17th (Gazeta Rural) – European Geoparks Week in another Landscape Festival in Centre of Portugal

May 17th (Central Notícias) - European Geoparks Week in another Landscape Festival in Centre of Portugal

May 17th (Diário Digital Castelo Branco) – Naturtejo marks the European Geoparks Week with the Landscape Festival

May 18th (Mais Beiras) - European Geoparks Week in another Landscape Festival in Centre of Portugal

May 18th (MédioTejo) - Landscape Festival in Naturtejo Geopark until June 5th

May 18th (Noticias do Centro) - Landscape Festival in Naturtejo Geopark until June 5th

May 18th (Elvas News) - Landscape Festival in Naturtejo Geopark until June 5th

IMPACT OF GEOPARK IN MEDIA



May 18th (Expresso.pt-Boa Cama Boa Mesa) - Griffon Vulture, the castle of King Wamba and a river beach to visit in Beira Baixa

May 19th (Fugas Magazine) - Walks, talks, discoveries: Naturtejo Geopark celebrates the Landscape Festival

May 19th (BeiraBaixaTV) - European Geoparks Week - Landscape Festival in Centre of Portugal

May 19th (radionovaantena.com) - European Geoparks Week with Landscape Festival

May 19th (/www.wort.lu/pt) – Nature has produced something extraordinary in eastern Luxembourg

May 19th (Expresso.pt-Boa Cama Boa Mesa) - Art in the landscape and other charms between Vila Velha de Ródão and Proença-a-Nova

May 24th (www.cm-oleiros.pt) - Landscape Festival in Oleiros

May 24th (Descla) – European Geoparks Week in another Landscape Festival

May 26th (Reconquista) - European Geoparks Week - Landscape celebrated in Naturtejo territory

May 26th (@GlobalGeoparksNetwork) – Discover Earth's hidden treasures! Naturtejo UNESCO Global Geopark (Portugal)

SCIENTIFIC CONTRIBUTIONS FOR THE GEO PARK AND THE GEOSCIENCES



- NETO DE CARVALHO, C. - A case of aestivation of the terrestrial gastropod *Caseolus bowdichianus* inside a large *Pseudocampylaea lowei* shell in the Upper Pleistocene of Porto Santo Island (Madeira Archipelago). *Bulletin of the Portuguese Centre for Geo-History and Prehistory*, 3(1), 9-20.

- NETO DE CARVALHO, C. – The Icnofossil Interpretation Centre of Penedos de Góis (Povorais, Góis). *Bulletin of the Portuguese Centre for Geo-History and Prehistory*, 3(1), 21-33.

PROMOTION FOR THE GENERAL PUBLIC

VI CONGRESSO DAS
MEDICINAS TRADICIONAIS
 ALIMENTAÇÃO SAUDÁVEL, USOS E COSTUMES

PENHA GARCIA
 CONCEITO DE MANHA-A-NOVA

11 E 12 DE JUNHO DE 2022

PROGRAMA

Sábado, 11 de junho	Domingo, 12 de junho
9:00 Recepção aos participantes	9:00h Lazer e Costeiras
9:30h Abertura do VI Congresso das Medicinas Tradicionais	10:00h A importância alimentar dos ingredientes Medicais da região de Castelo Branco
10:00h Apresentação: Sinal Verde	10:30h O consumo do condimento: "os" - Casca - Vinho - 2022 Madeira
10:30h O desafio da produção: Casca Documental Foliano	11:00h A geografia do Diabete em Portugal
11:00h O desafio da produção: Casca Documental Foliano	11:30h Nova pizza caseira
11:30h O desafio da produção: Casca Documental Foliano	12:00h O Risco Cardiovascular da Dieta
12:00h O desafio da produção: Casca Documental Foliano	12:30h Encerramento
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*Almoço sujeito a pagamento até dia 5 de junho e do pagamento inferior de 15 euros por pessoa. C. municipal de inscrições a 10 euros.

Mercado Bio-Região
 IDANHA-A-NOVA

11 E 25 DE JUNHO DE 2022
 DAS 9H00 ÀS 13H00

MERCADO MUNICIPAL
 (PRAÇA)

726- GEOfood IGCP Meeting
 17th June 2022, 12:00 CET (webinar)

Taste Geoparks

www.GEOfood.io

GEOfood for sustainable development
 in UNESCO Global Geoparks

XII Encontro Internacional de Fitossociologia
 01-07-2022

A Ciência da Vegetação aplicada à gestão, conservação e restauro ecológico de habitats

Primeira Circular

Faculdade Superior Agrária de
 Castelo Branco, Portugal
 5, 7 e 8 de setembro de 2022

PROMOTION FOR THE GENERAL PUBLIC

WEBINAR
Biénio para a ação climática nos geoparques portugueses

13 AÇÃO CONTRA A MUDANÇA GLOBAL CÍCLICA

O Contributo dos Geoparks na problemática das Alterações Climáticas

17h30 na plataforma ZOOM

1 JUN

Parceiros:

A ÁGUA
UM TEMA TRANSVERSAL

ENCONTRO

ESTREMOZ
30 JUNHO + 01/02 JULHO

02
ENCONTRO TEMÁTICO
AJUDAR OS PROFESSORES
A EXPLORAR
PROBLEMAS DA SOCIEDADE
PARA ENSINAR
OS ASSUNTOS BÁSICOS
DA FÍSICA, QUÍMICA, BIOLOGIA
E GEOLOGIA

CASA DAS CIÊNCIAS
EDULOG • FUNDAÇÃO BELMIRO DE AZEVEDO

**OXFORD GEOHERITAGE
VIRTUAL CONFERENCE**

June 6-9 2022
Supported by the Oxford University Museum of Natural History
In association with the Charnwood Forest Geopark

#OXGVC

PROMOTION FOR THE GENERAL PUBLIC



**DIA DO
GEÓLOGO**
6 DE MAIO

unesco
Global Geopark

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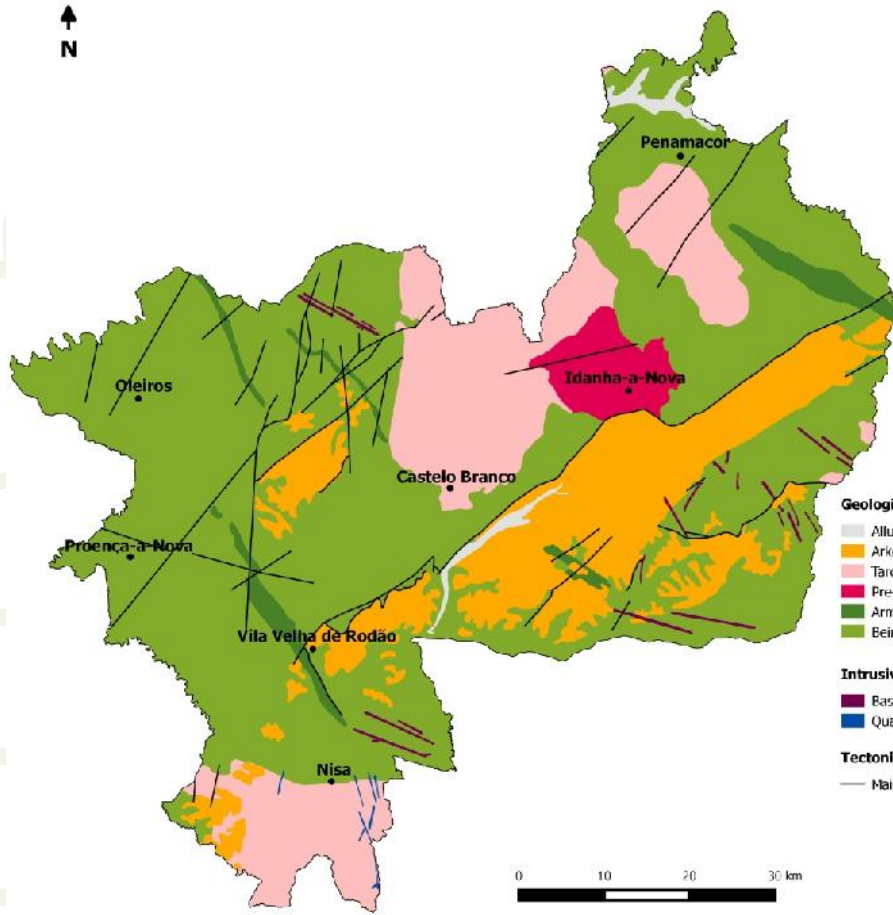
issuu.com/geoparknaturtejo



https://twitter.com/Geo_Naturtejo



<https://www.linkedin.com/company/geoparknaturtejo/>



naturtejo
GEOPARK



Geological Formations (Ma-Million years)

- Alluvium and fluvial terraces - Plistocene-Holocene (1Ma-present)
- Arkoses, breccias and conglomerates - Eocene-Pliocene (50-2.6Ma)
- Tardi-Variscan orogenic granites (315-300Ma)
- Pre-Variscan granodiorites (480-472Ma)
- Armorican Quartzite and schists - Ordovician-Lower Silurian (488-435Ma)
- Beiras Group (schists and greywackes) - Neoproterozoic (610-542Ma)

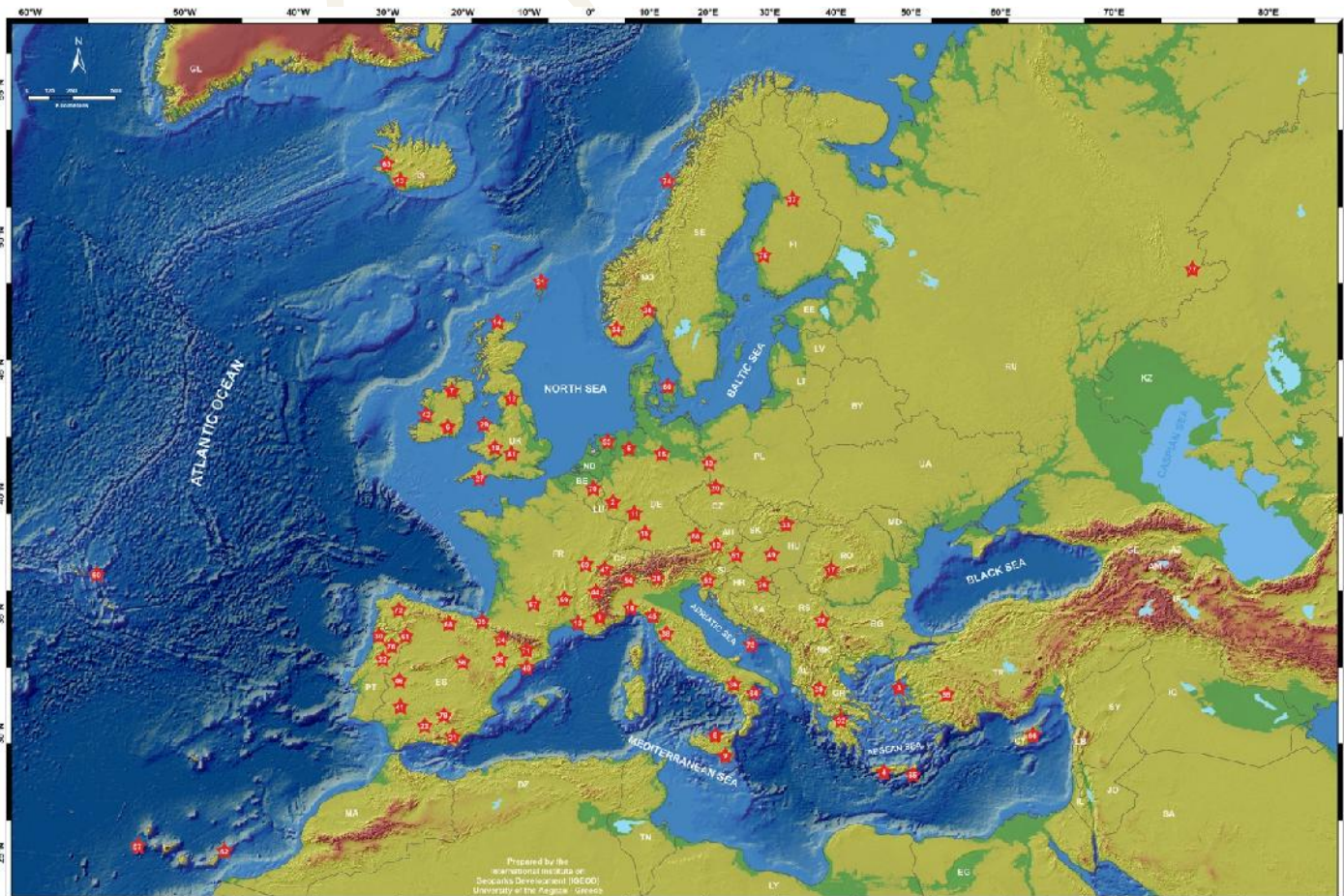
Intrusive rocks

- Basic rocks, aplites and pegmatites
- Quartz

Tectonic

- Main faults

Geoparks: Geology with human face





Edition - Geopark Naturtejo, 2022
Coordination - Carlos Neto de Carvalho
Texts - Carlos Neto de Carvalho, Joana Rodrigues, Manuela Catana, Carla Jacinto
Photos - Carlos Neto de Carvalho, Joana Rodrigues, Manuela Catana, Jael Palhas, Sara Capinhas, Carla Jacinto
Clipping - Carla Jacinto e Alice Marcelo
Design - Layer [Design and Print Studio]
Editing - Joana Rodrigues
Translation - Carla Jacinto



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GEOPARK NATURTEJO DA MESETA MERIDIONAL EUROPEAN AND GLOBAL GEOPARK MONTHLY REPORT

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