

Communicating and outreaching palaeosciences through visual arts: lessons from different realms.

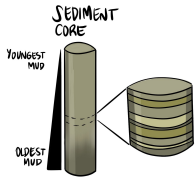


Graciela Gil-Romera

ARAID researcher, IPE-CSIC · Spain

Cirenia Arias-Baldrich | Alejandra Vicente de Vera |
Penélope González-Sampériz | Boris Vannière |
Sarah Eggleston | Marie-France Loutre | Paleo-IPE team

Session 10
“Visualizing
Science -
The art of
communicating
science”



XXI INQUA CONGRESS · TIME FOR CHANGE



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PAGES
PAST GLOBAL CHANGES

Art and science sides of the same coin

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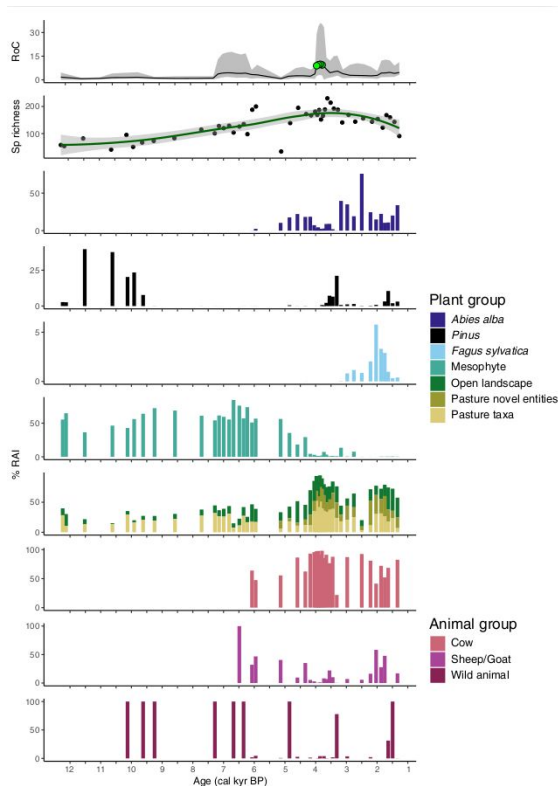
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Scientific cognition - Analytical, Quantitative and Systematic



Irene Julián-Posada
Oral session 4A 19/07
Room XI Moro - Legge CU002



Tramacastilla lake, central Pyrenees, 1680 masl



Author: Graciela Gil-Romera

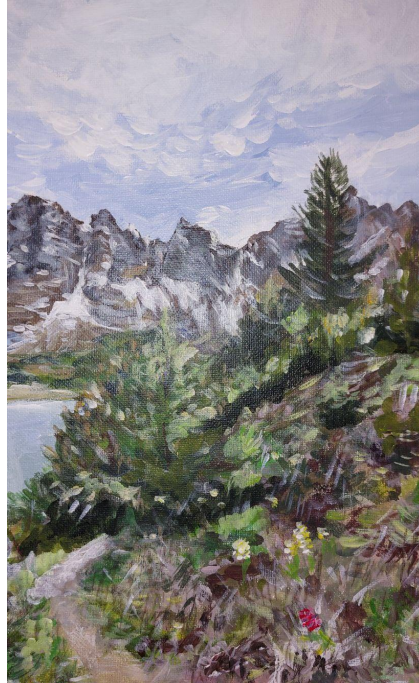
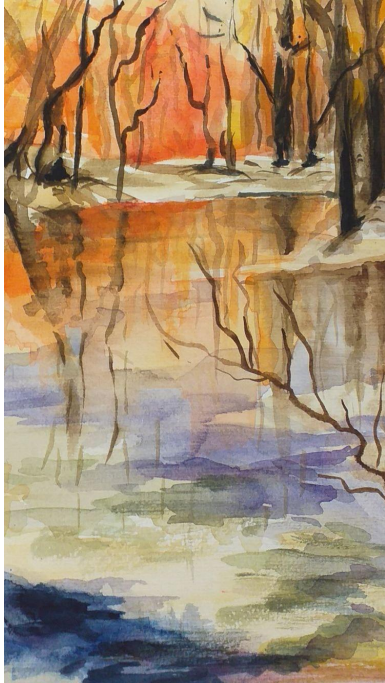
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Artistic cognition - Imagination, intuition, personal expression, and aesthetic exploration



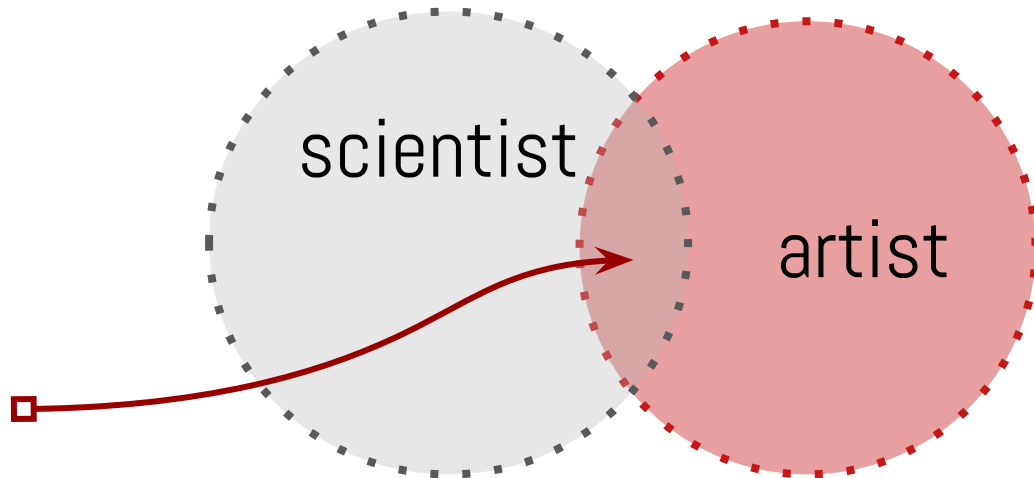
Paintings by **Penélope González-Sampériz**

Left: Watercoloured forest reflection on a lake. | **Right:** Acrylic painting of Tramacastilla lake (1680 masl)

Both involve:

- ★ **Creative thinking**, ability to produce new ideas.
- ★ **Observation and perception**, attention to details to gain deep insight.
- ★ **Exploration and curiosity**, driven by a sense of exploration.
- ★ **Iterative process** of experimentation, refinement and revision.

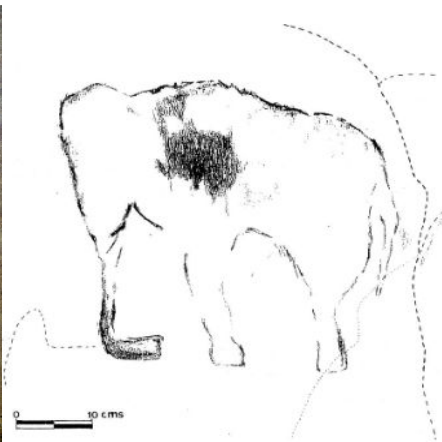
where
the
magic
happens





Chauvet Cave, Ardèche, France. Dated to: 30,000 to 28,000 B.C.
| DRAC Rhône-Alpes, Ministère de la Culture /AP Images

Mammoth painted in El Pindal cave (Asturias, Spain) attributed to Upper Palaeolithic communities during the LGM. Balbin et al., 1999.



- ★ Human expression
- ★ Observation
- ★ Purpose

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The emergence of scientific illustrations: purposeful and detailed

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Floral detail from "Study of flowers" by Leonardo Da Vinci (1511). Gallerie Accademia, Venezia

The Large Piece of Turf by Albrecht Dürer (1503). Albertina Museum, Vienna.

The emergence of scientific illustrations: purposeful and detailed.



Surinam caiman wrestling with a coral pipe snake, c.1701-1705, Merian's Drawings of Surinam Insects. Smithsonian museum.

The emergence of scientific illustrations: purposeful and detailed.

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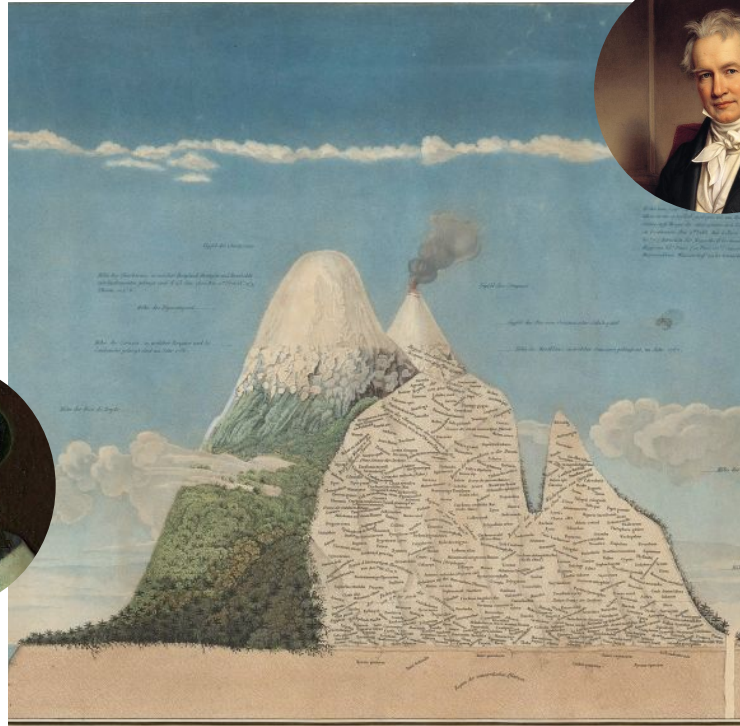
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Surinam caiman wrestling with a coral pipe snake, c.1701-1705, Merian's Drawings of Surinam Insects. Smithsonian museum.



"Tableau Physique des régions equinoxiales". In *Essai Sur La Geographie Des Plantes; Accompagne D'Un Tableau Physique Des Regions Equinoxiales*, Humboldt, Alexander Von; Bonpland, Aime. 1805

The emergence of scientific illustrations: purposeful and detailed.

A XXI century need transmitting,

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A XXI century need transmitting, strengthening,

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A XXI century need
transmitting,
strengthening,
nurturing.

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A XXI century need

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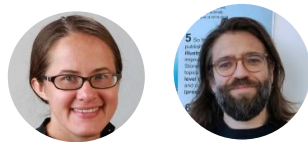
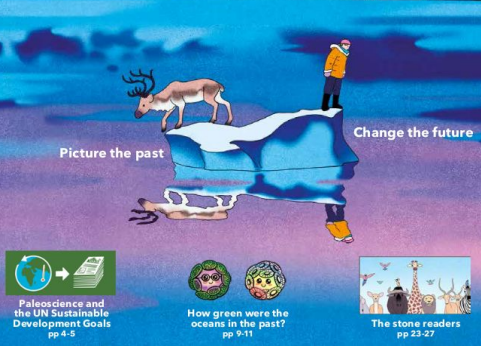
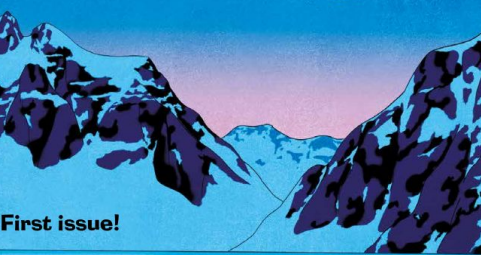
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Ivan Hernández-Almeida: Editor-in-chief | Science officer (Issue 3)



Chené Van Rensburg, Leigh Martens Winiger: Communications and project officers



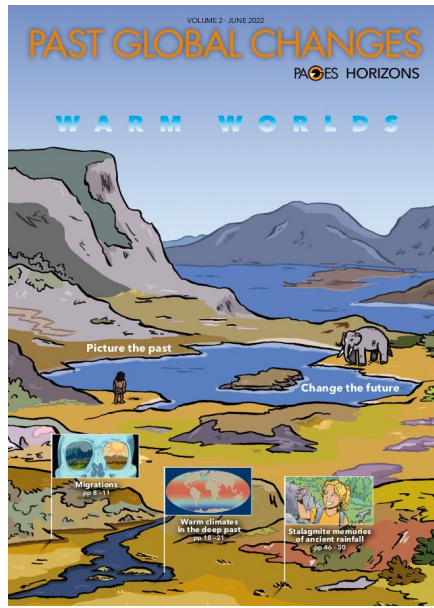
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Boris Vannièr: Issues 1, 2 and 3
Graciela Gil-Romera: Issues 1, 2 and 3
Nathäelle Bouttes & Emilie Capron: Issue 2
Ray Lombardi, Juan A. Ballesteros, Gerardo Benito, Keely Mills: Issue 3



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Horizons

Horizons intends to

- ★ Create awareness about past global changes.
- ★ Make paleoscience visible.
- ★ Disseminate the fundamentals of the scientific method



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Why the younger generation?

- ★ Environmentally sensitive.
- ★ Ready to make important decisions.
- ★ Able to gather and learn new information.
- ★ Still have time to ignite new enthusiasm.

<https://youth.europa.eu>



www.theguardian.com

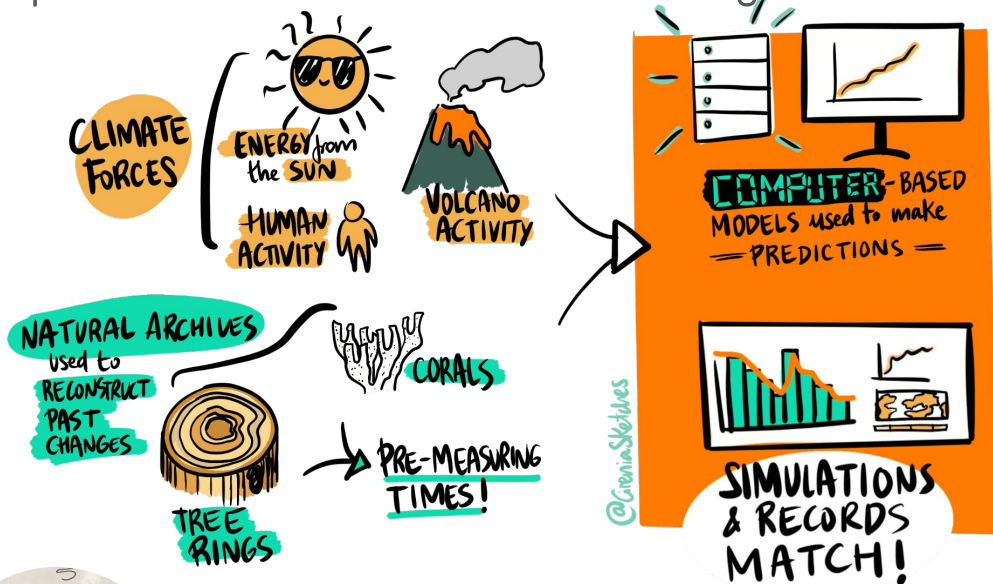


<https://www.ipsos.com>

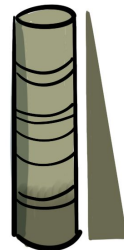


Graphic outlet

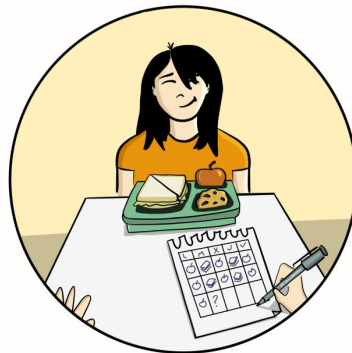
Information acquisition through image
Graphical abstracts - visual thinking



DRILLING



within a CORE,
the DEEPER
we go,
the OLDER
the SEDIMENT



Cirenía Arias-Baldrich



TI(C)K TO(C)K: INTO THE GEOLOGIC CLOCK

JOSE DOMINGUEZ GUBALLA, DEBORAH TANGUNAN, RICHARD JASON ANTONIO & JESSE JOSE NOBOT



PAGES HORIZONS • VOLUME 2 • 2022

TSN PAGES Horizons

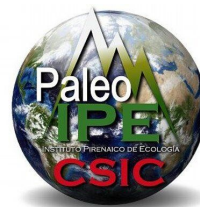
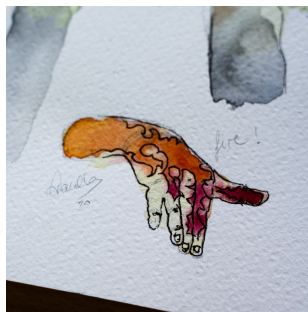
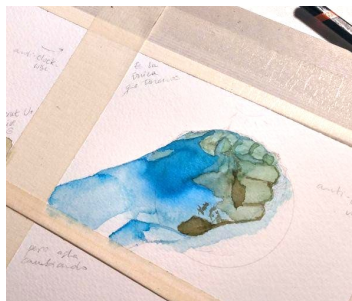
Marco Palombelli
Peter Gitau
(issue 2)

Guballa, Tangunan,
Jason and Nobot
(issue 2)

Moving through emotions

Combining lyric, music, image and make up!

- ★ Storyboard
- ★ Script
- ★ Bodypainting adaptation
- ★ Lyric adaption
- ★ Music composition



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Visual arts



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Moving through emotions



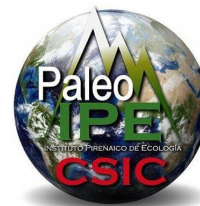
YouTube



<https://tinyurl.com/inqua23art>

Cambio a flor de piel (3' trailer)

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Visual arts



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#ShowYourStripes Rome 1850-2022
CC-by-SA Ed Hawkins (University of Reading)

Some final remarks

Some final remarks

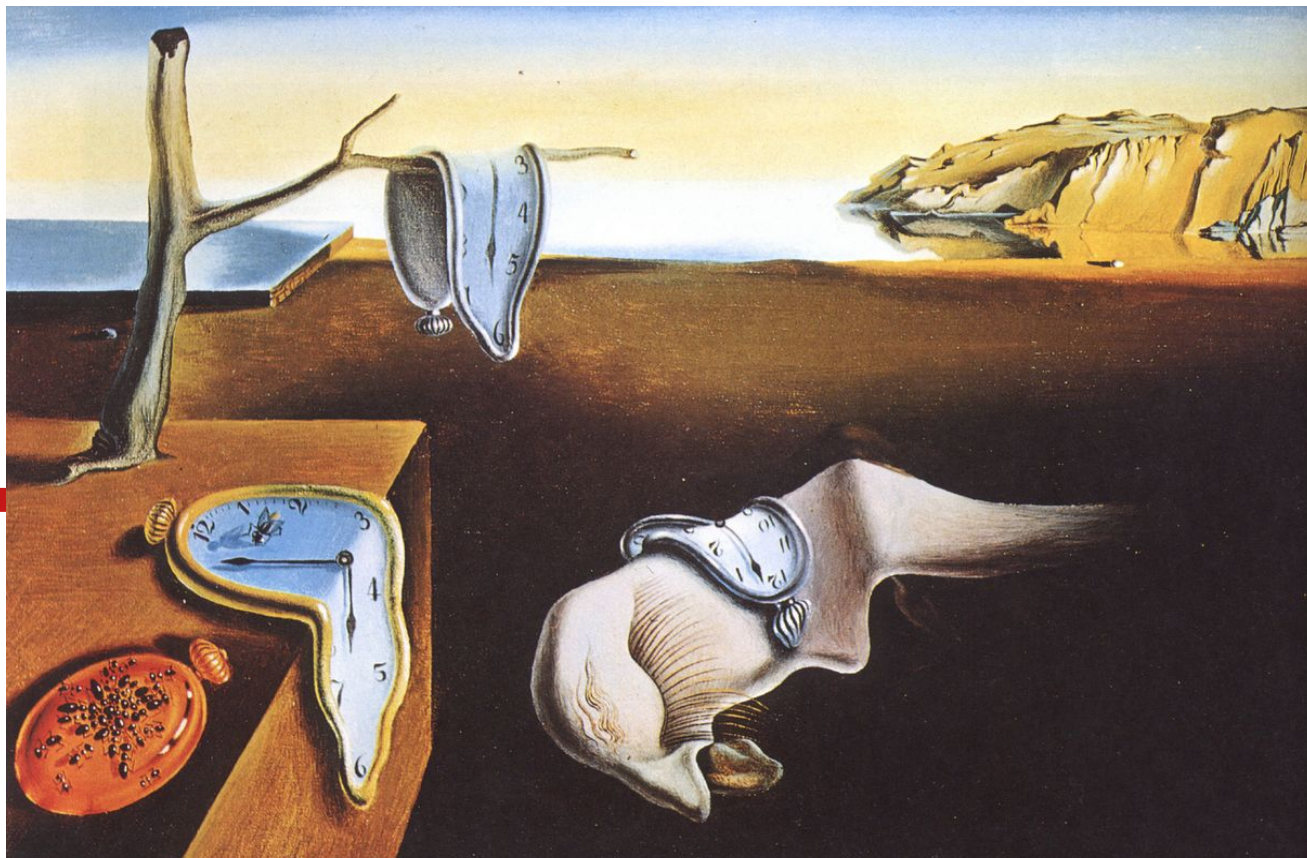
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Some final remarks

- ★ Science needs to be communicated and artistic venues have proven to be effective.
- ★ We, academics, should think of ways for the above to happen.
- ★ We, though, need better ways to account for our impact.

Some final remarks

- ★ Science needs to be communicated and artistic venues have proven to be effective.
- ★ We, academics, should think of ways for the above to happen.
- ★ We, though, need better ways to account for our impact.
- ★ Counting with professional communicators (early in the production phase) often helps.

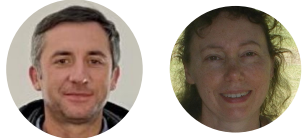


Salvador Dalí. The Persistence of Memory. 1931 - MoMA, New York



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Thank you!
Grazie mille!
Gracias

Questions?
Comments?
Commissions?



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