





Introducing



A community portal for sharing quality science graphics









Fabio Crameri

Undertone. Design, CH



@fcrameri



Grace E. Shephard
Uni. Oslo, NOR



@ShepGracie



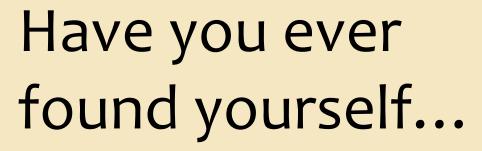
Eivind O. Straume



@EivindStra



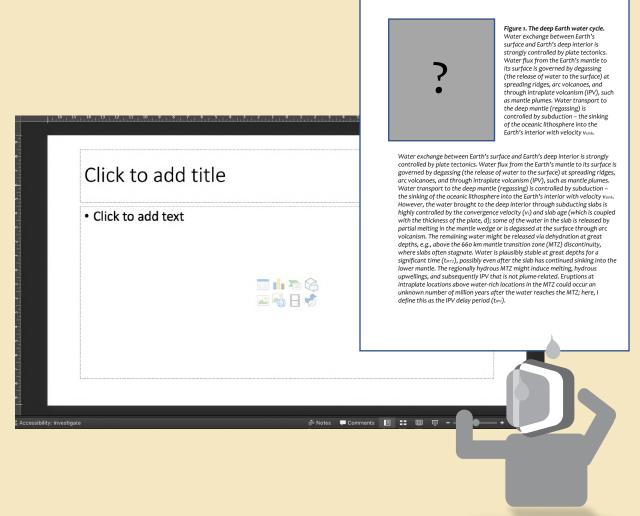




Making last minute presentations?

- Google search for an image
- Don't want to reinvent the wheel
- Not ideal... artistic or scientific quality
- Promised yourself to find better on next time?







Have you ever found yourself...

Tired of seeing the same image?

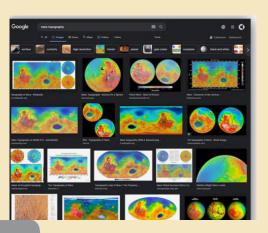
- Process, label etc that you don't agree with
- Rainbows everywhere?



Mantle convection



Mars topography



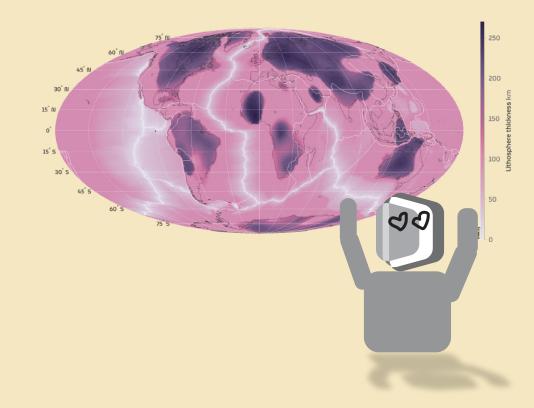


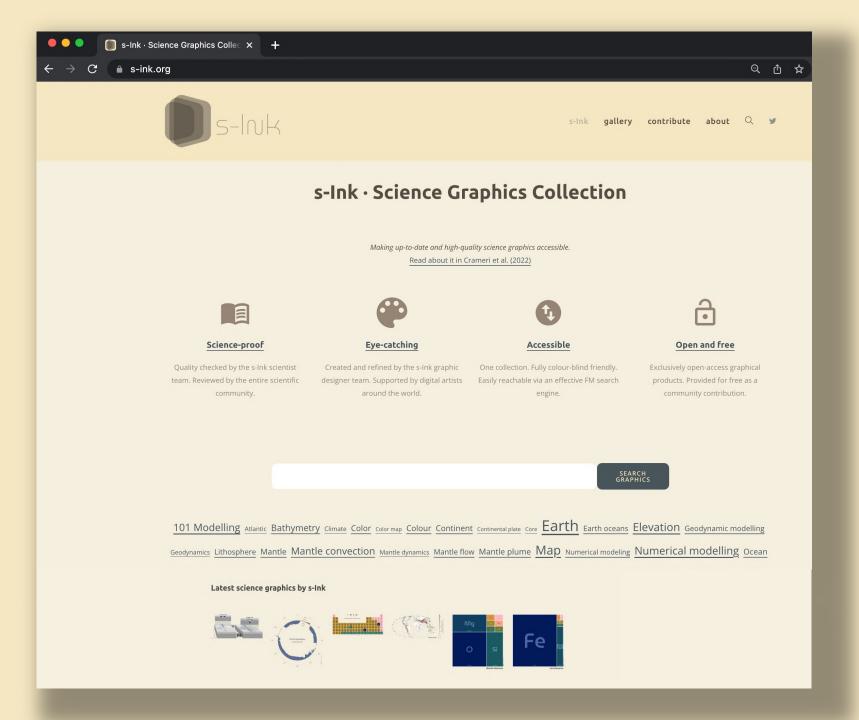


Have you ever found yourself...

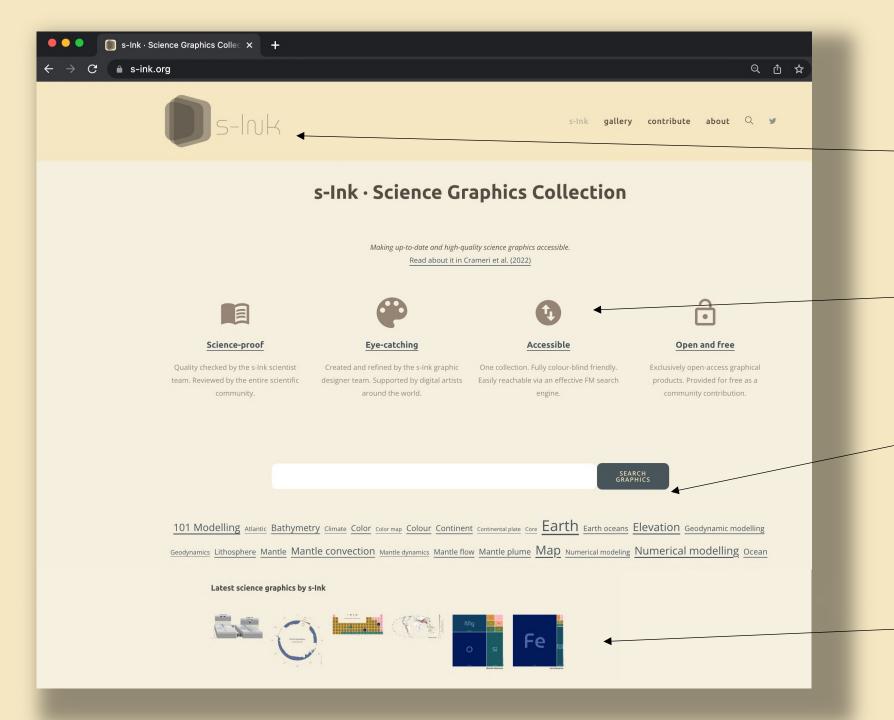
Spent time making a nice graphic?

- Want to share it and for it to be used
- Appreciate some attribution
- But where will it be found?











Play on "Source to (S)ink"

Highlight good data viz. practices

Structured and searchable via text, keyword, or category

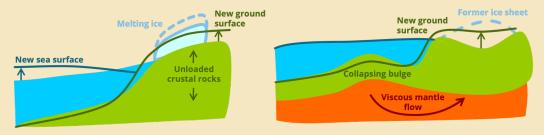
Latest contributions





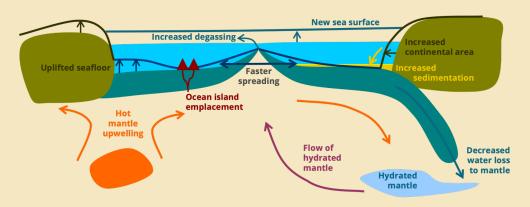
- Conceptual illustrations
- Data visualisations
- Animations
- Artistic impressions
- Icons, Logos
- Posters, Graphical templates
- Instructions
- Graphical tools





Elastic time scales instantaneous

Post-glacial rebound time scales 1 ka – 100 ka



Mantle convection time scales

1 Ma – 1 Ga

Sea-level change mechanisms based on Conrad (2013) By Clint Conrad via s-Ink





Types of content:

- Conceptual illustrations
- Data visualisations
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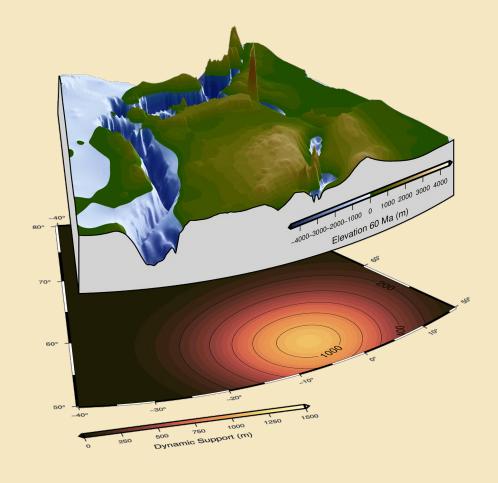
Moon topography (LOLA; Tooley et al., 2010) Adapted by Fabio Crameri via s-Ink





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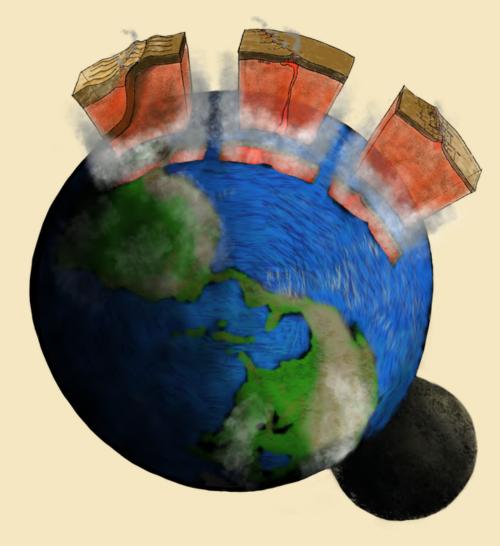
North East Atlantic ocean circulation (Straume et al 2022)



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Dynamic Planet Earth

By Fabio Crameri via s-Ink



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s-Ink and scientific colours logo

By Fabio Crameri via s-Ink





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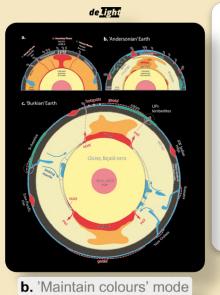


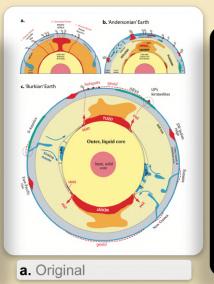


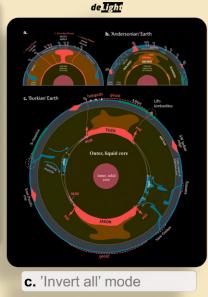


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License/attribution:

- CC BY-SA 4.0
- "This graphic by [NAME] is available via the open-access s-Ink repository"
- Can credit creator and data source(s)
- If published modify, check ©



The colour-vision deficiency friendly, time-uniform geologic time scale.

- Creator: Fabio Crameri
- This version: 08.10.2021
- License: Attribution-ShareAlike 4.0 International (CC BY-SA 4.0)
- Specific citation: This graphic by Fabio Crameri is available via the open-access s-Ink repository.
- Related reference: -
- Alternative colouring
- Alternative font
- Vector format
- Transparent background
- Light & dark background versions
- Colour-vision deficiency friendly
- Readable in black&white

Download





Feedback:

Comments from community welcome

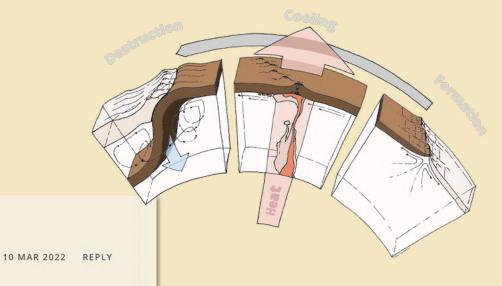
> THIS POST HAS 2 COMMENTS



Stéphane Labrosse

Nice figure and great site, with a lot of useful ressources!

I do have a criticism about this particular figure, regarding the heat arrow. It's great to link mantle dynamics to heat transfer, from the core to the surface, with an increasing amount through the mantle owing to its radiogenic contribution but it is unfortunate that its position coincides with the radio crameri



15 MAR 2022 REPLY

Thank you, Stéphane. We think your suggestion makes sense and would clarify the global heat transfer mechanism in relation to the mantle and mantle convection. Updating this figure is now added to our to-do list, but if someone else out there is quicker and wants to help out, let us know (-> https://s-ink.org/contribute)!





- Colour-vision friendly
- Black and white printable
- Legible, clear design
- Asthetically appealing
- Modifiable
- Caption, alt-text
- Attribution and key references



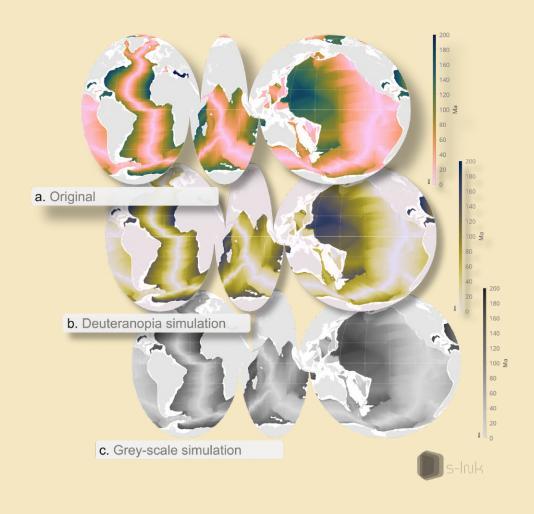




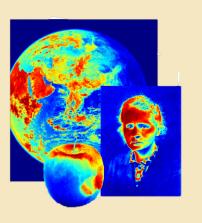


Figure considerations:

- Colour-vision friendly
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See also:

The misuse of colour in science communication







Crameri, Shephard, Heron (2020)
Nature Comms.





See also: Fabiocrameri.ch/colourmaps

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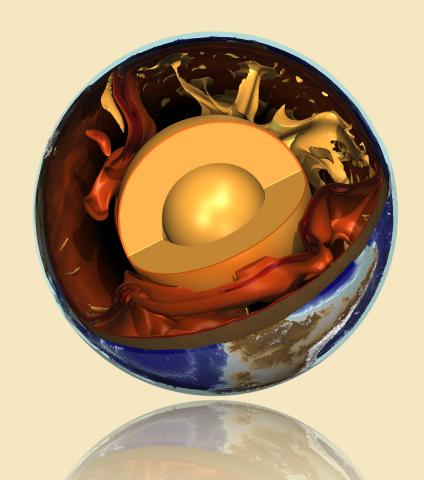






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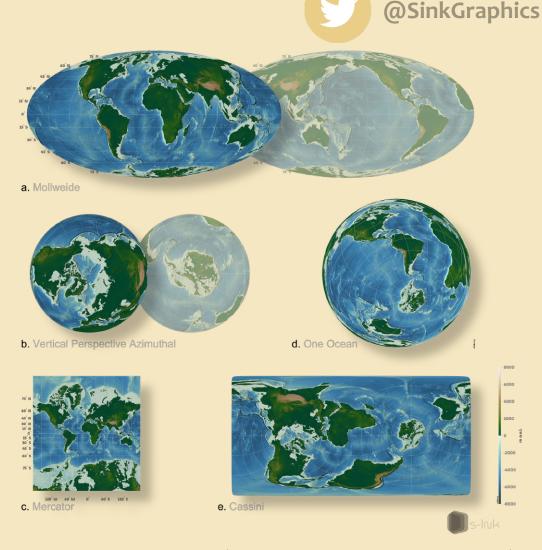
Earth Interior model Crameri and Tackley (2017) Adapted by Fabio Crameri via s-Ink



Figure considerations:

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e.g. content (map projections)



ETOPO1 (NOAA and Amante and Eakins 2009)

By Eivind Straume via s-Ink





Figure considerations:

ALT

- Colour-vision friendly
- Black and white printable
- Legible, clear design
- Asthetically appealing
- Modifiable
- Caption, alt-text
- Attribution and key references

Simplified model of the Earth interior and its global dynamics featuring a solid inner and a fluid outer core, a viscous partially molten but not fluid mantle, with hot material rising from the core-mantle boundary and cold material, including oceanic surface plates, sinking back into the mantle. The dynamics in the Earth interior crucially shapes the rocky surface of the planet, creating mountain ranges and deep-sea trenches.

- Creator: Fabio Crameri
- This version: 06.10.2021
- License: Attribution-ShareAlike 4.0 International (CC BY-SA 4.0)
- Specific citation: TThis graphic by Fabio Crameri adjusted from Crameri & Tackley (2016) is available via the open-access s-Ink repository.
- Related reference: Crameri, F., and P. J. Tackley (2016), Subduction initiation from a stagnant lid and global overturn: new
 insights from numerical models with a free surface, Progress in Earth and Planetary Science, 3(1), 1–19, doi:10.1186/s40645016-0103-8





- Check what may already be there
- Look at guidelines
- Create!
- Write caption
- Fill in slnk form
- Attach or provide link
- Update as necessary



Submission quality-standard checklist

- O Is my graphic readable? All small scale features and text should be conveniently readable by the viewer. Use larger, bolder, and high-contrast coloured fonts to improve readability.
- O Do I represent the bare data? It needs to be fairly presented to the viewer without distortion to allow them to judge any interpretation made on the data themselves. Avoid distorting axes (like x-axes and colour bars) and use perceptually uniform colour maps; ensure bar plots have a zero baseline; avoid pie charts.
- O Is my graphic colour-vision deficiency friendly? It needs to be readable to all your viewers. Use online tools, like Coblis (www.color-blindness.com/coblis-color-blindness-simulator/), to check for what it looks like for viewers with any form of colour-vision deficiency.
- O Is my graphic high-resolution? Small details like individual lines or text must be well readable. It is recommended to produce vector formats (such as pdf, eps, svg), or else high-resolution bitmap formats (e.g., png, jpeg, gif), to allow viewers to zoom in, if necessary.
- O Is my graphic widely usable? Graphics in the s-Ink collection should be suitable for many and a broad spectrum of purposes. It is recommended to provide a graphic, if possible, with various content, perspectives, and background compatibilities.
- O Have I been consistent with formatting, spelling, and dimensions? Graphics in the s-Ink collection should be as clear as possible. – With few exceptions, graphics work best when a single font, a single visual style, only few and matching special effects, consistent spelling (e.g., British vs. American English) and abbreviations, and comparable dimensions are used.



Get involved:

- Take a look at s-Ink.org
- Submit content
- Use content
- **Spread** the word
 - We're on Twitter
- Give feedback on our pre-print
 - Crameri et al. EarthArXiv





