

# Les limites planétaires

avec Dominique BOURG (Université de Lausanne)

Lundi 6 mai 2024 à 13h



## Où trouver des informations ou des données sur le sujet ?

- Chardin Gabriel, <https://lejournal.cnrs.fr/billets/le-paradoxe-de-fermi-et-les-extraterrestres-invisibles>.
- Hallmann Caspar A. et al., "More Than 75 Percent decline over 27 years in total flying insect biomass in protected areas", PLOS ONE.
- Klinger B. A. & S. J. Ryan, "Population distribution within the human climate niche", PLOS Clim 1(11): e0000086. <https://doi.org/10.1371/journal.pclm.0000086>.
- Persson Linn & alii., "Outside the Safe Operating Space of the Planetary Boundary for Novel Entities", *Environ. Sci. Technol.* 2022, 56, 3, 1510–1521.
- Rigal Stanislas & alli, "Farmland practices are driving bird population decline across Europe", *PNAS*, Vol. 120, N° 21, May 15, 2023, <https://doi.org/10.1073/pnas.2216573120>.
- Rockström Johan *et alii*, "A safe operating space for humanity", *Nature*, 24 September 2009, vol. 461, n° 7263, pp. 472-475.

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- Rockström Johan *et alii*, “Planetary boundaries: Exploring the safe operating space for humanity”, *Institute for Sustainable Solutions Publications*, 1er janvier 2009, vol. 14, n° 2, p. 32.
- Rockström Johan *et alii*, “Safe and Just Earth system boundaries”, *Nature*, vol. 619, 6 July 2023, p. 102-109 ; nomenclature refondue, différente des limites planétaires antérieures en raison de l’ajout du critère justice.
- Seibold S. & alii, “Arthropod decline in grasslands and forests is associated with landscape-level drivers”, *Nature*, volume 574, pages 671–674 (2019).
- Steffen Will *et alii*, “Planetary boundaries: Guiding human development on a changing planet”, *Science*, 15 January 2015, *doi: 10.1126/science.1259855*. Steffen Will *et alii*, “Trajectories of the Earth System in the Anthropocene”, *PNAS*, July 6, 2018; [www.pnas.org/lookup/suppl/doi:10.1073/pnas.1810141115/-/DCSupplemental](http://www.pnas.org/lookup/suppl/doi:10.1073/pnas.1810141115/-/DCSupplemental).
- Wang-Erlandsson Lan & alii, “A planetary boundary for green water”, *Nature Reviews Earth & Environment*, volume 3, pages 380–392 (2022).

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- Xu Chi *et al.*, “Future of the human climate niche”, *PNAS*, [www.pnas.org/cgi/doi/10.1073/pnas.1910114117](http://www.pnas.org/cgi/doi/10.1073/pnas.1910114117).
- IPCC, AR6, WG 1, 2 & 3, tout particulièrement le chapitre 12 sur les événements extrêmes WG1.
- Voir encore le dossier de la revue RIS. La revue internationale et stratégique (IRIS), n° 128, Hiver 2022, pour un bilan global de la question des ressources.
- Dryden Howard *et alii.*, “Climate regulating ocean plants and animals are being destroyed by toxic chemicals and plastics, accelerating our path towards ocean pH 7.95 in 25 years which will devastate humanity”, *Environmental Science eJournal*, vol. 1, n° 28, June 17, 2021.
- Richardson *et al.*, “Earth beyond six of nine planetary boundaries”, *Sci. Adv.* 9, eadh2458 (2023), 13 September 2023.
- Simon Willcock & *alii.*, “Earlier collapse of Anthropocene ecosystems driven by multiple faster and noisier drivers”, *Nature Sustainability*, June 2023, <https://doi.org/10.1038/s41893-023-01157-x>

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- Boutaud, A. et Gondran, N., 2020. Les limites planétaires. Ed. La Découverte, 128p.

