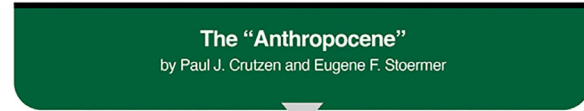


# Anthropocène : quelle interdisciplinarité ?

Depuis les années 2000, le concept d'Anthropocène suscite de nombreux débats entre les sciences naturelles et sociales pour définir cette nouvelle époque géologique qui serait dominée par les activités humaines. Très rapidement, il est ainsi devenu un concept central et transversal pour penser l'entrée dans un nouveau régime planétaire, tant sur le plan académique et médiatique, notamment en ligne.

Pourtant, en mars 2024, les institutions géologiques ont refusé de reconnaître la validité de ce concept sur le plan des sciences géologiques. Comment expliquer ce refus ? Que faire du concept d'Anthropocène ? Et comment continuer le dialogue interdisciplinaire entre les sciences de la « nature » et de la « société » à l'heure de la crise écologique et du Web ? Telles sont les grandes questions abordées à travers cette journée, et qui s'adresse à tous les champs de savoirs concernés par le changement global d'origine humaine, par-delà le grand partage entre « sciences » et « humanités ».

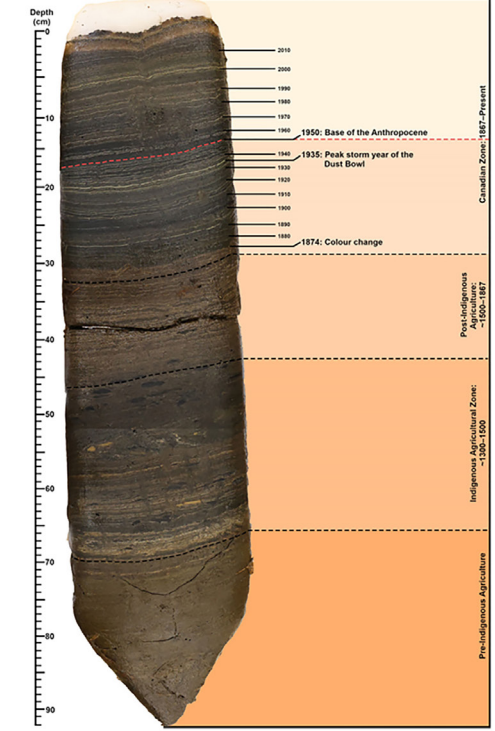


The name Holocene ("Recent Whole") for the post-glacial geological epoch of the past ten to twelve thousand years seems to have been proposed for the first time by Sir Charles Lyell in 1833, and adopted by the International Geological Congress in Bologna in 1885 (1). During the Holocene mankind's activities gradually grew into a significant geological, morphological force, as recognised early on by a number of scientists. Thus, G.P. Marsh already in 1864 published a book with the title "Man and Nature", more recently reprinted as "The Earth as Modified by Human Action" (2). Stoppani in 1873 rated mankind's activities as a "new telluric force which in power and universality may be compared to the greater forces of earth" [quoted from Clark (3)]. Stoppani already spoke of the anthropocenic era. Mankind has now inhabited or visited almost all places on Earth; he has even set foot on the moon.

The great Russian geologist V.I. Vernadsky (4) in 1926 recognized the increasing power of mankind as part of the biosphere with the following excerpt "... the direction in which the processes of evolution must proceed, namely towards increasing consciousness and thought, and forms having greater and greater influence on their surroundings". He, the French Jesuit P. Teilhard de Chardin and E. Le Roy in 1924 coined the term "noosphere", the world of thought, to mark the growing role played by mankind's brainpower and technological talents in shaping its own future and environment.

The exponential increase in human numbers has been accompanied by a corresponding increase in the impact of mankind on the Earth's resources and environment (5). To give a few examples: During the past 300 years, the world's population has increased tenfold, and the world's man-

panied e.g. by a growth in cattle population to 1400 million (6) (about one cow per average size family). Urbanisation has even increased tenfold in the past century. In a few generations mankind is exhausting the fossil fuels that were generated over several hundred million years. The release of SO<sub>2</sub> globally about 160 Tg/year to the atmosphere by coal and oil burning, is at least two times larger than the sum of all natural emissions, occurring mainly as marine dimethyl-sulfide from the oceans (7); from Vitousek et al. (8) we learn that 30-50% of the land surface has been transformed by human action; more nitrogen is now fixed synthetically and applied as fertilizer in agriculture than fixed naturally in all terrestrial ecosystems; the escape into the atmosphere of NO from fossil fuel and biomass combustion likewise is larger than the natural inputs, giving rise to photochemical ozone ("smog") formation in extensive regions of the world; more than half of all accessible fresh water is used by mankind; human activity has increased the species extinction rate by thousand to ten thousand fold in the tropical rain forests (9) and several climatically important "greenhouse" gases have substantially increased in the atmosphere: CO<sub>2</sub> by more than 30% and CH<sub>4</sub> by even more than 100%. Furthermore, mankind releases many toxic substances in the environment and even some, the chlorofluorocarbon gases, which are not toxic at all, but which nevertheless have the potential to destroy the ozone layer in the stratosphere. The beginning of a growth in the atmospheric concentrations of several "greenhouse gases", in particular CO<sub>2</sub> and CH<sub>4</sub> (7). Such a starting date also coincides with James Watt's invention of the steam



## Journée d'étude

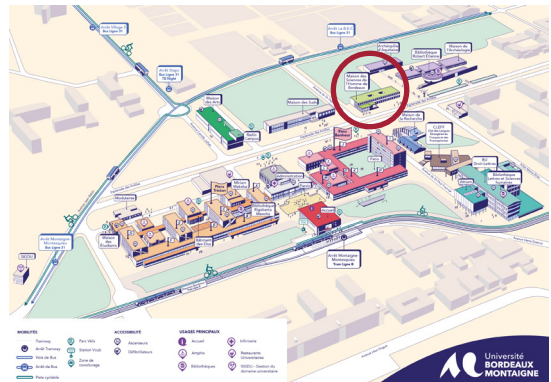
Organisée dans le cadre du projet Anthropocenoscope – Cartographier l'interdisciplinarité en Anthropocène : panorama des controverses et initiatives (AAP MSHBx 2026)



Mercredi 24 juin 2026  
MSH-Bordeaux (salle Jean Borde)  
9h-18h

Organisation : Fabien Colombo, chercheur associé à l'Université Bordeaux Montaigne, MICA (UR 4426)

Maison des Sciences de l'Homme de Bordeaux  
Domaine universitaire  
10 esplanade des Antilles  
33607 Pessac cedex  
mshbx.fr



Mercredi 24 Juin 2026

Matinée

- 8h30 Accueil
- 9h "Que faire de l'Anthropocène ?"  
*Fabien Colombo* (Sciences sociales, Lauréat MSHBx)
- Session 1** – Les signaux géologiques de l'Anthropocène  
Thèmes : Géologie, formalisation, clou d'or
- 9h15 *Anthropocene Working Group, Jan Zalasiewicz, Mark Williams, Simon Turner* (Sciences géologiques, University of Leicester & University College London)
- 10h15 Discussion
- 10h30 Pause
- Session 2** – Les trajectoires planétaires de l'Anthropocène  
Thèmes : Système Terre, Grande Accélération, complexité
- 10h45 *José Halloy* (Sciences de la durabilité, Université Paris Cité)
- 11h15 *Martin Bohle* (Géoéthique, Universität Erfurt)
- 11h45 Discussion
- Dialogue interdisciplinaire n°1**  
Des signaux géologiques aux dynamiques planétaires
- 12h Question directrice : Parle-t-on du même Anthropocène entre les sciences géologiques et les sciences du système Terre ?
- 12h30 Déjeuner (traiteur)

Mercredi 24 Juin 2026

Après-midi

- Session 3** – Les philosophies de l'environnement en Anthropocène  
Thèmes : Philosophie, modernité, ontologie
- 13h30 *Catherine Larrère* (Philosophie, Université Paris Panthéon-Sorbonne)
- 14h30 Discussion
- Session 4** – Les trajectoires planétaires de l'Anthropocène  
Thèmes : Système Terre, Grande Accélération, complexité
- 14h45 *Éric Macé* (Sociologie, Université de Bordeaux)
- 15h15 *François Prouteau* (Sciences de l'éducation, Université Catholique de l'Ouest)
- 15h45 Discussion
- 16h Pause
- Dialogue interdisciplinaire n°2**  
Des cadres conceptuels aux pratiques interdisciplinaires
- 16h15 Question directrice : À quelles conditions les recherches interdisciplinaires sur l'Anthropocène sont-elles possibles ?
- 17h **Perspectives interdisciplinaires**  
"Construire l'interdisciplinarité en Anthropocène"
- 17h45 Discussion
- Conclusion
- Temps convivial**  
Dîner dans Bordeaux
- 20h00