



Colloque de séminaires organisé par la  
chaire de l'évolution du climat et de l'océan  
du Collège de France

# ***Variations of the Global Overturning Circulation of the Ocean***

Vendredi 10 juin 2022 de 9h à 18h, Amphithéâtre Marguerite de Navarre  
du Collège de France, 11 place Marcellin Berthelot, Paris 75005  
Ouvert au public en présentiel

**9h** Edouard BARD (Collège de France & CEREGE)  
*Introduction and paleoceanographic perspective*

**9h50** Pascale LHERMINIER (IFREMER, LOPS, IUEM, Brest)  
*Observed variability of the Atlantic Meridional Overturning Circulation*

**10h40** Juliette MIGNOT (IRD, LOCEAN, Paris)  
*The Meridional Overturning Circulation: drivers,  
and representation in numerical models*

**11h30** Anne-Marie TREGUIER (CNRS, LOPS, IUEM, Brest)  
*Importance of mesoscale processes for meridional transports,  
boundary currents and their variability*

Pause déjeuner (12h20-14h30)

**14h30** Fortunat JOOS (Bern University)  
*The role of the deep ocean circulation in the global carbon cycle:  
insights from model simulations*

**15h20** Luke SKINNER (Cambridge University)  
*Reconstructing and interpreting past changes in the Global Overturning  
Circulation and their impacts on the carbon cycle*

**16h10** Gerrit LOHMANN (Bremen University)  
*Modes and states of the Meridional Overturning Circulation*

**17h** Didier SWINGEDOUW (CNRS EPOC Bordeaux)  
*On-going changes and possible fate of the North Atlantic  
ocean circulation and its impacts on climate and biodiversity*

General discussion and conclusion