



CANAIMOC Virtual Workshop - Science Seminar Session Program

Tue 23 - Wed 24 Feb 2021

DAY 1 - Tue 23th Feb 2021, 1500-1800 (CET)

1500-1640 Session 1: The North Atlantic MOC (AMOC) variability.

Chair: L. Carracedo (LOPS, Ifremer, France)

15:00 – 15:10 Welcome and overview workshop and Seminar Session 1: AMOC variability.

15:10 – 15:25 AMOC across the OVIDE section. H. Mercier (LOPS, CNRS, France)

15:25 – 15:40 AMOC across RAPID section. E. Frajka-Williams (NOC, UK)

15:40 – 15:55 AMOC mechanisms. S. Lozier (Georgia Tech, Earth and Atmospheric Sciences, USA)

15:55 – 16:10 Latitudinal shift of the AMOC source regions. C. Lique (LOPS, Ifremer, France)

16:10 – 16:25 Mechanisms of ocean heat content variability. D. Desbruyères (LOPS, Ifremer, France)

16:25 – 16:35 Q&A

16:35 – 16:40 *Grab-a-coffee break.*

1640-1800 Session 2: Feedbacks between the AMOC and the ocean carbon cycle.

Chair: M. Garcia-Ibáñez (UEA, UK)

16:40 – 16:45 Overview Seminar Session 2: ocean dynamics and the ocean carbon pump.

16:45 – 17:00 C_{ant} and excess ocean heat content in the Subtropical NA Ocean. M.J. Messias (Uni of Exeter, UK)

17:00 – 17:15 C_{ant} in the subpolar gyre. F. F. Pérez (IIM-CSIC, Spain)

17:15 – 17:30 C_{ant} transport across RAPID. P. Brown (NOC, UK)

17:30 – 17:45 MOC regulation of nutrient inventories in the North Atlantic. L. Carracedo (LOPS, Ifremer, France)

17:45 – 18:00 Q&A

DAY 2 – Wed 24th Feb 2021, 1430-1800 (CET)

1430-1800 Session 3: The Florida Current (FC) & Gulf Stream: C_{ant} and nutrient stream.

Chair: P. Lherminier (LOPS, Ifremer, France)

14:30 – 14:40 Welcome and overview Seminar Session 3: The Florida Current & Gulf Stream variability.

14:40 – 14:55 Florida Current variability. D. Volkov (AOML, NOAA, USA)

14:55 – 15:10 Likely weakening of the Florida Current during the past century. C. Piecuch (WHOI, USA)

15:10 – 15:25 Freshwater/heat transport across the Florida Strait. E. McDonagh (NORCE, Norway)

15:25 – 15:30 *Grab-a-coffee break*

15:30 – 15:45 DIC transport across the Florida Strait. N. Bates (BIOS, Bermuda)

15:45 – 16:00 DIC transport and coastal acidification off the east coast of Florida. Y. Xu (AOML, NOAA, USA)

16:00 – 16:15 Surface OA in the Northern Caribbean Sea, including the FC. R. Wanninkhof (AOML, NOAA, USA)

16:15 – 16:30 Ocean carbon uptake in the Gulf Stream and STMW region. J. Palter (Uni of Rhode Island, USA)

16:30 – 16:35 *Grab-a-coffee break*

16:35 – 16:50 The North Atlantic nutrient stream. Ric Williams (Uni of Liverpool, UK)

16:50 – 17:05 N_2 fixation in the Gulf Stream. M. Benavides (MIO, France)

17:05 – 17:20 Diapycnal nutrient fluxes to the euphotic zone in the Florida Straits. J.Z. Zhang (AOML, NOAA, USA)

17:20 – 17:35 Nutrient variability across Florida Straits. L. Carracedo (LOPS, Ifremer, France)

17:35 – 17:50 Pursuing new measures of change in the Florida Straits, L. Beal & H. Close (RSMAS, Uni of Miami, USA)

17:50 – 18:00 Q&A. Closing up Science Seminar Session.