



**POLITECNICO**  
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DIPARTIMENTO DI ELETTRONICA  
INFORMAZIONE E BIOINGEGNERIA

## STEP-CHANGE PHD SEMINAR SERIES

DANILA VOLPI | EUROPEAN COMMISSION JRC

# UNDERSTANDING DROUGHT RISK IN THE NORTHERN HEMISPHERE UNDER AMOC WEAKENING

Drought characteristics change when the Atlantic Meridional Overturning Circulation (AMOC) weakens or collapses. More specifically, changes in AMOC significantly alter drought duration, severity, and spatial patterns. This highlights the strong control of ocean circulation on drought risks, and emphasizes the importance of AMOC behavior for future climate extremes under climate change.

**January 19, 2026 | 11:00 AM**  
**Alessandra Alario Seminar Room**  
**Building 21**

For further information:  
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