

The Earth's climate is influenced by a complex system of processes occurring at different spatial and temporal scales. Mixing and dispersion within rotating and stratified flows are essential components that affect energy transfer, turbulence, and our understanding of the climate system. The five-day workshop brings together experts and early career researchers from various disciplines to discuss recent advances in the theory, modeling, and observation of mixing dispersion in geophysical fluid dynamics.

Workshop details:

12th - 16th February, 2025TT Jagannathan Hall (IC & SR Building)
IIT Madras, India

Organizers

Anubhab Roy Kannabiran Seshasayanan Manikandan Mathur

Geophysical Flows Lab, IIT Madras



Key themes

- Particle dispersion in turbulent flows
- Impact of Gravity waves in mixing
- Lagrangian measurements in oceans
- Experiments in Rotating and Stratified flows

Pedagogical lectures by

Alain Pumir

CNRS and École Normale Supérieure de Lyon , France

Arjun Jagannathan

IIT Madras, India

Eric D'Asaro

University of Washington, USA

Kannabiran Seshasayanan

IIT Madras, India

Mohamed Houssem Kasbaoui

Arizona State University, USA

Philippe Odier

École Normale Supérieure de Lyon, France





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