

Observing small-scale turbulent processes in the upper ocean and consequences for climate

Brian Ward

Candidate for a Canadian Excellence Research Chair in Observational Physical Oceanography

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ABSTRACT: The ocean plays a significant role in the regulation of climate by taking up about 25% of the anthropogenic carbon dioxide from the atmosphere. This ocean-atmosphere exchange is largely driven by small-scale turbulent processes in the upper ocean. It is therefore necessary to make observations of these processes in the open ocean to fully understand the ocean's role in climate. This talk will describe novel instrumentation which have been developed specifically for this purpose, and will present some of the scientific highlights arising from these observations.

ALL ARE WELCOME!