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Validating and Testing Methods of Measuring Geostrophic Ocean Transports

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Most observational arrays that study the AMOC rely on the geostrophic method, by which a (small) number of measurements at endpoints of a section are used to infer the flow across the section. This is a necessity because measuring everywhere along the section is cost-prohibitive. Here, we will study a few different examples how the results from such applications have been validated using independent data. This helps identify and quantify the “weak spots” of the method, and supports a better understanding of overall measurement uncertainty.

Topic

Value of AMOC observing –what have we learned?

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