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Affects of temporal variations of wind on currents around Iceland.

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Ocean currents around Iceland are simulated with the ocean current model MOM (Modular Ocean Model). The simulations are initialized with a mean condition in the ocean, based on a simulation using as forcing mean monthly values of atmospheric winds, temperature and precipitation/evaporation. Sensitivity studies show that river runoff from Iceland leads a counterclockwise coastal current, with a maximum in intensity at the edge of the coastal shelf. Further simulations with daily winds are described, but in these experiments the enhanced temporal variations of the wind lead to significant differences in the forcing fields.