

Impact of runoff on the Icelandic coastal current

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The ocean current model MOM (Modular Ocean Model) is used to simulate current with and without runoff from Iceland. The runoff generates a relatively weak clockwise coastal current over the Icelandic shelf. The runoff contributes to warming of the waters off N-Iceland and cooling of the waters off NE-Iceland, while elsewhere there is only a moderate change in the temperature of the water. The temperature changes are consistent with advection generated by the coastal current.