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## Impact of runoff on the Icelandic coastal current

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The ocean around Iceland is simulated numerically with the ocean model MOM (Modular Ocean Model) with and without runoff from Iceland. The runoff generates a relatively weak anticyclonic coastal current over the Icelandic shelf. The runoff contributes to warming of the waters off N- and NE-Iceland and to cooling of the waters off SV-Iceland. The temperature changes are consistent with advection generated by the coastal current.