



Fresh water distribution and currents in a coastal area off East Iceland in late summer

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The coastal area in Heradsfloi is a region where there are various contrasts in the hydrographic regime. Tidal currents are strong. Considerable amount of fresh water flows out to sea from rivers of glacial origin. Outside on the banks remains of Atlantic water lie between the fresh coastal water and the relatively cold East Icelandic Current influencing the local climate. A study of hydrographic data and current measurements in relation with data for wind, fresh water runoff and precipitation was done in Heradsfloi. The results showed strong mixing and the great effect of wind on currents.