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Wintertime surface conditions in the Greenland Sea, with characteristic ice
flees and overcast skies. Deep waters formed in this region by convective
vertical mixing contain measurable concentrations of dissolved atmospheric
chlorofluoromethanes of anthropogenic origin. Recent increases in atmospheric
chlorofluoromethane mixing ratios provide valuable new tracers for
the study of ocean circulation and mixing rates. See page 265. [John L. Bullis-
ter, Scripps Institution of Oceanography, University of California, La Jolla
92093]