



Figure 2. Station locations for three cruises used in this and original study of Steele and Boyd, 1998 (triangles, squares and circles indicate: 1991, Oden; 1993, SCICEX, and 1995, SCICEX, cruises, respectively). Full Arctic domain includes all station locations. Dashed semi-circle indicates Eastern Arctic domain, sampled by all cruises and where CHL was absent in 1995. Inset shows location of Figure 1 profiles. Scale-bars indicate: (top) Estimated seasonally-averaged winter ocean heat flux potential $\langle FT \rangle$; (middle) reduction in winter ice growth over 5-month winter period Dh ; and (bottom) percent reduction in winter ice growth Q_r , given loss of CHL relative to years with CHL present.