

Air-sea interaction at high latitudes: A focus on the International Polar Year

Ian Renfrew

A review of high-latitude air-sea flux data sets gathered during the International Polar Year (IPY), 2007-2009, will be presented. I will endeavour to cover all relevant field campaigns and any allied numerical modelling activities, data comparisons and so on. However there will certainly be a focus on the field work that I have been involved with directly. From the Greenland Flow Distortion Experiment a compilation of air-sea turbulent flux data obtained under high windspeed cold-air outbreak conditions, over the Irminger Sea and Denmark Strait, from low-level instrumented aircraft flights. And in the Antarctic turbulent flux observations from several flights over thin ice conditions in a coastal polynya in the southern Weddell Sea.