



Ocean-Atmosphere-Sea Ice-Snowpack Interactions in Polar Regions: OASIS

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OASIS is a multidisciplinary, internationally collaborative and open effort to quantify the impact of OASIS chemical, physical and biological exchange processes on tropospheric chemistry, the cryosphere, and the marine environment, and their feedback mechanisms in the context of a changing climate. To reach the goals of OASIS it will be essential to undertake studies in the Arctic Ocean surface environment.

OASIS is endorsed by the IGBP programs IGAC and SOLAS; and is further affiliated with the international science programs AICI-IGAC, LOICZ, AMAP, CLiC-WCRP, and GAW-WMO.

OASIS will during the IPY 2007/08: 1. Establish a network of Arctic Ocean buoys that will enable year-round measurements of ozone and related chemical species. 2. Conduct coordinated ice camp, icebreaker and aircraft studies of OASIS chemical exchange. 3. Conduct supporting laboratory studies. 4. Develop and apply 1D and 3D models of OASIS exchange.

The internationally vetted Science Plan, and Implementation Plan for OASIS can be obtained at: www.chem.purdue.edu/arctic/OASISHomePage.htm, and www.cnr.it/OASIS, respectively.