

The Koldewey-Station, Alfred Wegener Institute for Polar and Marine Research

The Koldewey-Station run by the Alfred Wegener Institute for Polar and Marine Research constitutes the German Arctic research station. It is operated since 1991 throughout the year. It consists of a state of the art atmospheric observatory and serves as a platform for biological, geophysical and climatological projects. The observatory is part of important European research projects like VINTERSOL and THESEO, which are conducted by DG XII. It contributes to international networks like "Global Atmospheric Watch (GAW)" of the WMO, "Baseline Surface Radiation Network (BSRN)", "Network for the Detection of Atmospheric Change (NDSC)" and others. The continuously running programmes contribute mainly to climate change research by observing e.g. the state of the Arctic stratosphere (ozone loss problem),

investigating radiative transfer and the climate effect of aerosols and trace gases, or the properties and changes in permafrost soil. Sophisticated instrumentation used at the Koldewey-Station include multi wavelength lidars, UV - vis - infra red spectrometers, microwave radiometers, a balloon launching facility, a suite of radiation sensors covering the spectrum from the UV to the IR, and modern meteorological observation systems. Biological research is conducted into the marine ecosystem and on effects of UV radiation on marine organisms. Many contributions are provided by German Universities, in particular by the University of Bremen. The station is open to German and European researchers, with acces being supported through European "Transnational Access".



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