

Drifting-buoys, measuring Sea Surface Temperature and Optics (remote site) from Southern Ocean, 1994-1998 (U.S. JGOFS AESOPS project)

Website: <https://www.bco-dmo.org/dataset/2709>

Version: Jan 24 2002

Version Date: 2002-01-24

Project

» [U.S. JGOFS Antarctic Environment and Southern Ocean Process Study](#) (AESOPS)

Program

» [U.S. Joint Global Ocean Flux Study](#) (U.S. JGOFS)

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Table of Contents

- [Dataset Description](#)
- [Parameters](#)
- [Deployments](#)
- [Project Information](#)
- [Program Information](#)

Dataset Description

Drifting-buoys, measuring SST and Optics (remote site)

[[table of contents](#) | [back to top](#)]

Parameters

Parameters for this dataset have not yet been identified

[[table of contents](#) | [back to top](#)]

Deployments

AESOPS_Array

Website	https://www.bco-dmo.org/deployment/57753
Platform	JGOFS Sediment Trap
Start Date	1996-11-28
End Date	1998-01-27
Description	AESOPS sediment trap and current meter moorings Mooring M1 was set at 53.031°S 174.730°W in 5441 meters of water during cruise NBP 96-5 and recovered during cruise NBP 98-2. Mooring M2 was set at 56.895°S 170.165°W in 4924 meters of water during cruise NBP 96-5 and recovered during cruise NBP 98-2. Mooring M3 was set at 60.283°S 170.056°W in 3958 meters of water during cruise NBP 96-5 and recovered during cruise NBP 98-2. Mooring M4 was set at 63.149°S 169.897°W in 2886 meters of water during cruise NBP 96-5 and recovered during cruise NBP 98-2. Mooring M5 was set at 66.161°S 168.672°W in 3016 meters of water during cruise NBP 96-5 and recovered during cruise NBP 98-2. Mooring M6 was set at 73.543°S 176.886°E in 566 meters of water during cruise NBP 96-5 and recovered during cruise NBP 98-2. Mooring M7a was set at 76.491°S 177.872°W in 567 meters of water during cruise NBP 96-5 and recovered during cruise NBP 98-2. Mooring M7b was set at 76.495°S 178.022°W in 582 meters of water during cruise NBP 96-5 and recovered during cruise NBP 98-2. View a graphic showing the location of AESOPS mooring arrays, courtesy of Suzanne O'Hara of Lamont-Doherty Earth Observatory, Columbia University.

[[table of contents](#) | [back to top](#)]

Project Information

U.S. JGOFS Antarctic Environment and Southern Ocean Process Study (AESOPS)

Website: <http://usjgofs.whoi.edu/research/aesops.html>

Coverage: Southern Ocean, Ross Sea

The U.S. Southern Ocean JGOFS program, called Antarctic Environment and Southern Ocean Process Study (AESOPS), began in August 1996 and continued through March 1998. The U.S. JGOFS AESOPS program focused on two regions in the Southern Ocean: an east/west section of the Ross-Sea continental shelf along 76.5°S, and a second north/south section of the Southern Ocean spanning the Antarctic Circumpolar Current (ACC) at ~170°W (identified as the Polar Front). The science program, coordinated by Antarctic Support Associates (ASA), comprised eleven cruises using the R.V.I.B Nathaniel B. Palmer and R/V Roger Revelle as observational platforms and for deployment and recovery of instrumented moorings and sediment-trap arrays. The Ross-Sea region was occupied on six occasions and the Polar Front five times. Mapping data were obtained from SeaSoar, ADCP, and bathymetric systems. Satellite coverage was provided by the NASA SeaWiFS and the NOAA/NASA Pathfinder programs.

[[table of contents](#) | [back to top](#)]

Program Information

U.S. Joint Global Ocean Flux Study (U.S. JGOFS)

Website: <http://usjgofs.whoi.edu/>

Coverage: Global

The United States Joint Global Ocean Flux Study was a national component of international JGOFS and an

integral part of global climate change research.

The U.S. launched the Joint Global Ocean Flux Study (JGOFS) in the late 1980s to study the ocean carbon cycle. An ambitious goal was set to understand the controls on the concentrations and fluxes of carbon and associated nutrients in the ocean. A new field of ocean biogeochemistry emerged with an emphasis on quality measurements of carbon system parameters and interdisciplinary field studies of the biological, chemical and physical process which control the ocean carbon cycle. As we studied ocean biogeochemistry, we learned that our simple views of carbon uptake and transport were severely limited, and a new "wave" of ocean science was born. U.S. JGOFS has been supported primarily by the U.S. National Science Foundation in collaboration with the National Oceanic and Atmospheric Administration, the National Aeronautics and Space Administration, the Department of Energy and the Office of Naval Research. U.S. JGOFS, ended in 2005 with the conclusion of the Synthesis and Modeling Project (SMP).

[[table of contents](#) | [back to top](#)]