Oceanographic Data Collected Aboard

RV Polar Duke

January - February 1993

Research Conducted As Part Of
The Palmer Long-Term
Ecological Research Program

C. M. Lascara, R. C. Smith, D. Menzies and K. S. Baker

CCPO Technical Report No. 93-02

CENTER FOR COASTAL PHYSICAL OCEANOGRAPHY
Crittenton Hall Old Dominion University Norfolk, Virginia 23529
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### Palmer LTER Research Groups and Principal Investigators

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UCSB  University of California, Santa Barbara, CA 93106  
SIO  Scripps Institution of Oceanography, La Jolla, CA 92093  
MSU  Montana State University, Bozeman, MT 59717  
ODU  Old Dominion University, Norfolk, VA 23529  
UH  University of Hawaii, Honolulu, HA 96822
INTRODUCTION

From 8 January - 7 February 1993, a multidisciplinary cruise was conducted aboard the RV Polar Duke as part of the Palmer Long-Term Ecological Research (LTER) program off the Antarctic Peninsula. Stations were occupied at specified grid locations (Figure 1) within the Palmer LTER survey grid (Waters and Smith, 1992). The cruise departed from Punta Arenas, Chile (1 January) and returned to Palmer Station, Antarctica (7 February).

Oceanographic data were collected using a Bio-Optical Profiling System (BOPS) (for a complete description see Smith et al., 1984 and Smith and Baker, 1984). The BOPS package was configured with a SeaBird CTD sensor to measure temperature, conductivity, and pressure; a BioSpherical PAR and spectral irradiance sensor; and a SeaTech fluorometer. This data report presents the following hydrographic variables which were measured directly or derived from measured variables as part of this cruise: temperature, potential temperature, salinity, density, dynamic height, and Brunt-Väisälä frequency.

Upon return from the cruise, the BOPS data were initially processed at the Center for Remote Sensing and Environmental Optics at University of California, Santa Barbara. Final processing and report generation were completed at the Center for Coastal Physical Oceanography (CCPO) at Old Dominion University. Tapes of this data at one-meter resolution have been sent to the National Oceanographic Data Center.

SAMPLING PROCEDURES

In Situ Data Collection

The BOPS was used to collect 150 vertical profiles of temperature and conductivity at 69 stations within the Palmer LTER grid (Figure 1). Observations were made to 500 meters or to within 50 m of the bottom for shallower stations. The BOPS unit was lowered and raised at approximately 30 m min⁻¹. Data were collected on both down and up casts; down cast data were used to generate this report. A 12-place rosette frame outfitted with 12 12-liter Go Flo bottles was lowered with the BOPS. The bottles were closed at selected depths on the up cast to obtain water for nutrient and biological analyses. Horizontal spacing between the hydrographic stations was 20 km on most transects; alongshelf spacing between transects was 100 km.

CTD Sensor Calibration

The temperature and conductivity sensors on the CTD were subjected to pre- and post-cruise calibrations by Sea-Bird Electronics. The change in the temperature sensor between the two calibrations was 0.0005°C mo⁻¹. The change
in the conductivity sensor was 0.00007 Siemens m$^{-1}$ mo$^{-1}$. Both of these changes are negligible and consequently no corrections were applied to the temperature or conductivity data presented in this report. There were no water samples collected during this cruise to determine salinities using a shipboard salinometer.

**Data Processing and Derived Quantities**

For each cast, the raw data (temperature and conductivity) from the BOPS were converted to engineering units and averaged into 1-meter depth bins. The conductivity data were corrected for thermal mass effects and pressure reversals. Data from the top 2 m of the water column were ignored due to sensor adjustment and rough surface conditions.

The procedures given in UNESCO (1983) were used to compute salinity from the temperature and conductivity data. Temperature and salinity profiles were plotted for each cast and visually inspected for consistency with acceptable, historical values for the region and for unrealistic spikes. All data were considered acceptable and no editing was performed. A 5-meter running average was applied to the temperature and salinity data to generate smoothed profiles for subsequent processing.

Potential temperature ($\theta$) was determined from temperature profiles based on algorithms given in UNESCO (1983). The potential temperature and salinity data were used to calculate the density-related quantity, $\sigma_0$, which is the density anomaly for a water parcel that is moved adiabatically to the surface and was calculated using the International Equation of State of Seawater, 1980 as described in UNESCO (1983). Dynamic height values, reported in dynamic meters, were calculated relative to the first depth bin closest to the surface. The Brunt-Väisälä frequency, which is a measure of water column stability, was calculated from the 1-db vertical profiles of potential density and density gradient at each station using the approach described in Fofonoff and Bray (1981).

As a final step, all data were interpolated, using a cubic spline, to the standard depths that are reported in the following tables.
GRAPHICAL AND TABULAR DATA CHARACTERISTICS

A reference list of all 150 BOPS casts is presented in Table 1 which contains the cast or event number, latitude, longitude, Julian day, GMT, and station.

The remainder of this data report presents graphical and tabular representations of station information and oceanographic measurements. For each BOPS cast, a table of station information is provided as described below.

- Station and event numbers (in parenthesis to the right of the station number) are given for each station. The event number is an unique number assigned to each shipboard activity.
- The day of the BOPS cast is reported in Julian Days.
- Time for the BOPS cast is given in Greenwich Mean Time and corresponds to the time when the BOPS departed the surface on the down cast.
- Latitude and longitude locations correspond to the navigational fix, from the FURNO GPS receiver system, at the time the BOPS cast started.
- Bottom depths were determined acoustically with the 50kHz Digitrak system on board the ship.

The second table given for each BOPS cast provides the following oceanographic variables as described below.

- Sample depth is given in meters at 5 m, 10-m intervals from 10 to 160 m and 20-m intervals from 160 to 500 m.
- In situ temperature is given in degrees Celsius.
- Salinity is based on the practical salinity scale.
- Potential temperature is given in degrees Celsius.
- Density is given as $\sigma_0$ and is reported as kg m$^{-3}$.
- Dynamic height is given in dynamic meters.
- Brunt Väisälä frequency is given in rad$^2$ sec$^{-2}$.

The graphical presentation consists of vertical profiles of temperature (solid line) and salinity (dotted line) for each station to 500 meters. Also shown are potential temperature-salinity diagrams for each station. The symbols on
the potential temperature-salinity curves are provided as reference points and correspond to depths of 50 m, 100 m, and 200 m.

ACKNOWLEDGMENTS

This work was supported by the National Science Foundation grant DPP-9011927. We thank Sharon Stammerjohn, Michael Hearne, David Jones and Tim Newberger for assistance in field collection.

REFERENCES


Figure 1. Distribution of BOPS stations, indicated by triangle, occupied during the January - February 1993 LTER cruise. The 500 and 2000 meter isobaths are indicated by the dotted and dashed line, respectively. The southernmost and northernmost transect lines sampled during this cruise correspond to the 200 and 600 lines, respectively of the Palmer LTER peninsula-scale grid.
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potential temperature (°C)

salinity (psu)

depth (m)
**LTER 93a**  
Station: palB (2)  
Julian Day: 8  
**GMT:** 1039  
Latitude: 64° 46.77' S  
Longitude: 64° 4.41' W  
Depth: 74 m

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Station: palE

potential temperature (°C)

depth (m)

salinity (psu)
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depth (m)
salinity (psu)

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Station: palH
potential temperature (°C)

Salinity (psu)

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Latitude: 64° 46.53' S Longitude: 64° 7.96' W Depth: 125 m

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Station: paJ

potential temperature (°C)

depth (m)
salinity (psu)
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**Latitude:** 64° 55.96' S  **Longitude:** 64° 23.92' W  **Depth:** 1466 m

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Station: 600.080

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depth (m)

salinity (psu)

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38
Station: 600.140

Potential temperature (°C)

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Julian Day: 11  
GMT: 1921  
Latitude: 64° 5.31' S  
Longitude: 66° 33.38' W  
Depth: 1635 m

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Station: 600.180

Potential temperature (°C)

Salinity (psu)

Depth (m)
### LTER 93a Station: 600.180 (94)  JulianDay: 11  GMT: 2127
Latitude: 64° 5.25' S  Longitude: 66° 33.31' W  Depth: 1670 m

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Station: 600.180

potential temperature (°C)

depth (m)
salinity (psu)
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Station: 600.180

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Station: 600.180

potential temperature (°C)

depth (m)

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33.0 33.5 34.0 34.5 35.0

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Station: 600.180

Potential temperature (°C)

Salinity (psu)

Depth (m)

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33.0 33.5 34.0 34.5 35.0
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Station: 500.160

Potential temperature (°C)

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depth (m)
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Station: 500.080

potential temperature (°C)

depth (m)

salinity (psu)

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Station: 500.060

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potential temperature (°C)

0 100 200
depth (m)

33.0 33.5 34.0 34.5 35.0
salinity (psu)

-2 -1 0 1 2 3
potential temperature (°C)

33.0 33.5 34.0 34.5 35.0
salinity (psu)
**LTER 93a Station:** 500.060 (177)  
**JulianDay:** 14  
**GMT:** 0758  
**Latitude:** 65° 28.93' S  
**Longitude:** 66° 8.98' W  
**Depth:** 289 m

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Station: 500.060

potential temperature (°C)

salinity (psu)

depth (m)

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Station: 600.040

potential temperature (°C)

depth (m)
salinity (psu)

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 depth (m)

 salinity (psu)

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 0 100 200 300 400 500

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potential temperature (°C)

depth (m)

salinity (psu)

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salinity (psu)

depth (m)

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Station: 600.040

potential temperature (°C)

depth (m)

salinity (psu)

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depth (m)
salinity (psu)

Station: 600.040

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salinity (psu)
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Station: 600.040

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Station: 600.040

Potential temperature (°C)

Salinity (psu)

Depth (m)

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33.0  33.5  34.0  34.5  35.0
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Station: pall
potential temperature (°C)

depth (m)
salinity (psu)
### LTER.93a

**Station**: palH (222)  
**JulianDay**: 17  
**GMT**: 0736  
**Latitude**: 64° 47.41' S  
**Longitude**: 64° 8.33' W  
**Depth**: 96 m

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Station: palH

Potential temperature (°C)

Depth (m)

Salinity (psu)

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LTER 93a  Station: paG (223)  JulianDay: 17  GMT: 0901  
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LTER 93a Station: palF (227) JulianDay: 17 GMT: 1257
Latitude: 64° 48.45' S Longitude: 64° 4.33' W Depth: 131 m

132
Station: palF
potential temperature (°C)

salinity (psu)

depth (m)

potential temperature (°C)
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**Latitude:** 64°47.35' S

**Longitude:** 64°4.48' W

**Depth:** 68 m
Station: palC

potential temperature (°C)

depth (m)

salinity (psu)
### LTER 93a Station: pslB (229)

**Julian Day:** 17  |  **GMT:** 1533

**Latitude:** 64° 46.80' S  |  **Longitude:** 64° 4.48' W  |  **Depth:** 79 m

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depth (m)

salinity (psu)

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33.0 33.5 34.0 34.5 35.0

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Station: 580.040

potential temperature (°C)

depth (m)

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146
Station: 590.070

Potential temperature (°C)

Depth (m)

Salinity (psu)

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**LTER 93a**

**Station:** 595.030 (516)  
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**GMT:** 0938  
**Latitude:** 65° 1.76' S  
**Longitude:** 64° 18.65' W  
**Depth:** 137 m

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Station: 616.060

potential temperature (°C)

depth (m)

salinity (psu)

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Station: 617.050

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depth (m)

salinity (psu)

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**LTER 93a**

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**Longitude:** 64° 7.91' W  
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depth (m)

salinity (psu)

potential temperature (°C)

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Station: palE

Potential temperature (°C)

Depth (m)

Salinity (psu)

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**Julian Day:** 26  
**GMT:** 1353  
**Latitude:** 64° 47.36' S  
**Longitude:** 64° 4.47' W  
**Depth:** 71 m

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salinity (psu)
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Station: 622.040

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Station: 500.080

potential temperature (°C)

depth (m)

salinity (psu)

potential temperature (°C)

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Station: 400.060

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Station: 400.060

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Station: 400.060

Potential temperature (°C)
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**Longitude:** 67° 39.31' W  
**Depth:** 341 m  
**Julian Day:** 28  
**GMT:** 0528

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### LTER 93a

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**GMT:** 1428  
**Latitude:** 66° 7.80' S  
**Longitude:** 67° 39.29' W  
**Depth:** 343 m

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212
Station: 400.060

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depth (m)

salinity (psu)

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33.0 33.5 34.0 34.5 35.0

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Station: 400.080

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salinity (psu)

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Station: 400.120

potential temperature (°C)

depth (m)

salinity (psu)

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33.0 33.5 34.0 34.5 35.0

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**Station:** LTER 93a  
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**Longitude:** 68° 54.04' W  
**Julian Day:** 29  
**GMT:** 1327

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Station: 400.160

Potential temperature (°C)

Depth (m)

Salinity (psu)

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Station: 400.160

potential temperature (°C)

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depth (m)

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100 200 300 400 500

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salinity (psu)

0 1 2 3

potential temperature (°C)

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Potential temperature (°C)

Depth (m)

Salinity (psu)

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Station: 400.160

Potential temperature (°C)

Depth (m)

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Station: 400.200

Potential temperature (°C)

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Station: 300.180

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Potential temperature (°C)

Salinity (psu)

Depth (m)
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Station: 300.080

Potential temperature (°C)

Salinity (psu)

Depth (m)

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257
**LTER 93**  
**Station:** 300.060 (851)  
**JulianDay:** 32  
**GMT:** 2004  
**Latitude:** 66° 45.83' S  
**Longitude:** 69° 14.57' W  
**Depth:** 206 m

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Station: 300.060

Potential temperature (°C)

Depth (m)

Salinity (psu)

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262
Station: 200.200

Potential temperature (°C)

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salinity (psu)

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depth (m)

salinity (psu)

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Station: 600.040

Potential temperature (°C)

Salinity (psu)

Depth (m)

289
**LTER 93a**  
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JulianDay: 38  
GMT: 1102  
Latitude: $64^\circ 46.09'$ S  
Longitude: $64^\circ 8.02'$ W  
Depth: 119 m

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Station: palH
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depth (m)

salinity (psu)

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Station: palG

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salinity (psu)

depth (m)

potential temperature (°C)
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