MEASUREMENTS OF CURRENT AND TEMPERATURE PROFILES
DURING INDEX 1979,
RRS DISCOVERY

D.R. QUADFASEL

DATA REPORT 20
1980
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1. Introduction

Between March and September 1979 the Indian Ocean Experiment (INDEX) as part of FGGE was carried out in the western equatorial Indian Ocean. A general description of this experiment is given by Swallow (1980). One of the aims of INDEX was to study the spatial distribution and time evolution of the surface and subsurface circulation before, during and after the onset of the South West Monsoon. Some preliminary results from this experiment have been published by Döing et al. (1980) and Leetmaa et al. (1980).

During the second leg of RRS Discovery's cruise 102 from 9 June to 6 July 1979 (IOS Cruise Report No. 83, 1979) we obtained 55 vertical profiles of current and temperature from the surface down to a nominal depth of 730 m, using a Döing profiling current meter (Döing and Johnson, 1972).

In this report the corrected absolute current and temperature profiles are presented. Part one describes the first profile on each station, part two repeated profiles on some of these stations. Listings of current and temperature values for 10 dbar intervals are given, also plots of current components and temperature versus pressure.

2. Instrumentation and experimental procedure

The Döing profiling current meter (PCM) consists of upside-down Aanderaa RCM-4 current meter mounted below a 200 cm long cylindrical housing (Döing and Johnson, 1972). Acting as a current vane the tube aligns the instrument in the direction of the flow. The whole instrument package has a slight negative buoyancy and slides down the hydrographic wire to which it is attached by a roller. It is thus decoupled from vertical motion of the wire and ship. The current profiler is trimmed so that descending speeds are between 6 and 12 m/min, depending on stratification, horizontal current speed and vertical wire angle. With a sampling interval of 30 sec measurements are taken every 3-6 m.

Combining the manufacturers information with our calibrations at I.O.S., the accuracy of this instrument can safely be given as ± 0.1°C for temperature, ± 2 dbar for pressure and ± 2° for direction. The speed calibration was found to be linear between 0 and 230 cm/s, the standard deviation from the linear fit was less than 1.7 cm/s over this range. For the first half of the profiles the range of the thermistor was between 2.0 and 21.1°C, from Station 10079 onward a fast response thermistor was mounted with an upper limit of 32°C.

The measurement itself was carried out in the following way: after lowering the
4 mm hydrographic wire with a 300 lb weight to 750 m depth the current profiler was attached by the roller to the taut wire. When the movement of the ship became steady in speed and heading, the instrument held at the surface up to then, was released. During the measurement which took about 1½ hours the ships movement was kept as steady as possible, with a vertical wire angle of 15°.

During the time the profile was taken ships heading and mean fore-aft and port-starboard component of speed of the ship through the water was logged on the ship's computer at two minute intervals. The heading was taken from the gyro and the speed from the hull mounted electromagnetic log. The accuracy of these measurements are within + 1° for heading and ±3 cm/s for speed. The estimated dead reckoning based on these 2 minute interval data was later fitted between successive satellite fixes. Thus, assuming a constant surface current between fixes, the ship's position and therefore its speed and direction over the ground are known every 2 mins.

During the measurement the descent of the profiling current meter was observed on the precision echo sounder, in addition the vertical wire angle at the surface was logged every 5 minutes.

3. Data processing and reduction

All data processing was done at I.O.S. using the G-EXEC system on the Rutherford IBM 360/195 computer. After standardized calibrating and editing of the raw data as a current meter record, the profile had to be corrected to compensate for the horizontal slip of the instrument due to a vertical wire angle and to allow for the movement of the ship over the ground.

The wire shape was calculated assuming a quadratic relationship between the horizontal drag on the wire and the water velocity (Siedler and Grasshoff, 1970). The drag was estimated for wire increments corresponding to the sampling depths of the current profiler and the direction of maximum drag was determined. Wire angles were calculated in a vertical plane through this direction and the component of the current in that direction is corrected for the horizontal slip of the instrument caused by this angle. The current components were then recombined and resolved into North and East.

Thus, a wire angle correction was only carried out in one plane. It was also assumed that the vertical current profile and therefore the wire shape stayed constant during the time of the measurement.

For most parts of the profile the corrections were negligible as wire angles did not exceed 2°. Only in the top 100 m higher wire angles led to corrections of
up to 10 cm/s. Generally a good agreement was found between the calculated and measured wire angles at the surface.

The ship's drift correction was carried out using the 2 min interval speed and direction data from the ship's navigation system. An inspection of some profiles, where the ship's movement had varied significantly (e.g. Stn's 10067, 69, 70, 78, 85) revealed that the horizontal movement of the current meter at the wire introduced by ships movement did not lag in time between the surface and about 60 m but lagged about 6 min in depths greater than 180 m. It was also found that the amplitude of the high frequency (<10 mins) fluctuations in ship's speed was reduced quite substantially at the instrument, possibly due to a filtering effect of the wire.

The drift data have therefore been filtered with a low pass filter (half power frequency 8 min) after the aforementioned time lag had been applied to the drift data. In most cases the ships drift was fairly steady, problems occurred only in regions of relatively weak surface flow (e.g. at the equator). The filtered and delayed drift data of the ship were then simply added to the relative current profile to form the absolute profile.

In cases of steady ships drift the accuracy of the absolute current profile is about ± 10 cm/s. However, in some occasions of very variable ships drift the accuracy might not be better than ± 25 cm/s. These profiles are marked with an asterisk in tables 1 and 2.

4. Presentation of data

The data are presented in different ways. Part one contains the first profile of each station (Table 1, Fig. 1). Given are listings of averaged East and North components, direction and speed of currents as well as temperature for 10 dbar pressure intervals. 0 dbar corresponds to the mean of all samples between 0 and 5 dbar, 10 dbar to the mean between 5 and 15 dbar etc. Also shown are plots of the current profiles (East and North components) and temperature profiles against pressure. All the samples are plotted. Note that up to station 10078 the upper limit of the thermistor is 21.1°C. Only values below this limit are plotted.

Part two contains repeated profiles from several stations (10070, 73, 77 and 84) (Table 2). The data are presented in the same way as in part one.

Acknowledgements

We thank the University of Miami, Florida, for giving us the hull of the profiling current meter on loan. The Captain and crew of the RRS Discovery deserve
special thanks for their assistance and co-operation during this experiment, as well as a large number of people within IOS who carried out the measurements. Programming assistance of Mr D.S. Collins is gratefully acknowledged.

References


Fig. 1 Profiling current meter station positions (heavy dots) on RRS Discovery Cruise 102, leg 2, 9 June - 6 July 1979. Light dots indicate XBT profiles along ships track.
PART ONE

first profile on each station
Table 1. Position and time of first profiles at each station
Asterisks mark significant changes of ship's movement
during measurement, see text.

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PLOTXY  DISCOVERY 102  PCM  STN 10060  23APR80
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800.0

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PLOTXY

DISCOVERY 102  PCH  STN  10067

30APR80
PLOTXY

DISCOVERY 102  PCM  STN  10064

30APR80
PRESSURE

-64 -

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6.00 10.00 14.00 18.00 22.00 26.00 30.00

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09JUN80

DISCOVERY 102  PCM  STN 10093

PLOTXY
PART TWO

repeated profiles
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<td>-33.3</td>
<td>9.5</td>
<td>34.7</td>
<td>285.9</td>
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<td>80.</td>
<td>18.5</td>
<td>-27.7</td>
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<td>33.7</td>
<td>304.8</td>
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<tr>
<td>90.</td>
<td>18.4</td>
<td>-26.3</td>
<td>32.9</td>
<td>42.1</td>
<td>321.3</td>
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<tr>
<td>100.</td>
<td>18.4</td>
<td>-20.7</td>
<td>19.6</td>
<td>28.5</td>
<td>313.4</td>
</tr>
</tbody>
</table>
PRESURE

-0.0

100.0

200.0

300.0

400.0

500.0

600.0

700.0

800.0

6.00 10.00 14.00 18.00 22.00 26.00 30.00 TEMP

-100.0 -50.0 -0.0 50.0 100.0 150.0 200.0 EAST

-100.0 -50.0 -0.0 50.0 100.0 150.0 200.0 NORT

DISCOVERY 102 PCM STN 10077-2

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