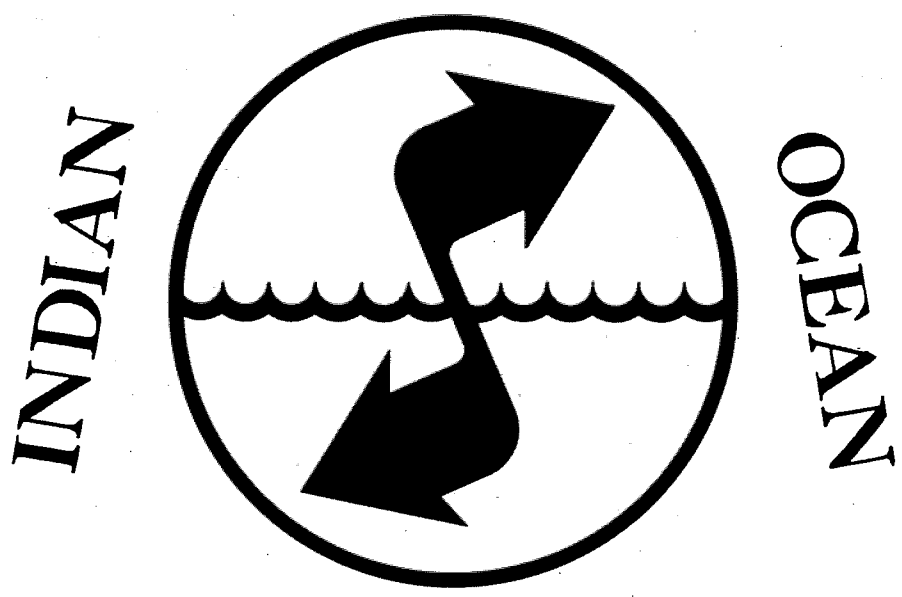


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U.S. PROGRAM IN BIOLOGY  
INTERNATIONAL INDIAN OCEAN EXPEDITION  
  
FINAL CRUISE REPORT  
ANTON BRUUN CRUISE 3  
  
OCEANOGRAPHIC DATA  
BATHYTHERMOGRAPH POSITIONS  
STATION LISTS for BIOLOGICAL COLLECTIONS

# INTERNATIONAL



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Final Report: R/V ANTON BRUUN, Cruise 3

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U. S. PROGRAM IN BIOLOGY  
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Final Report: R/V ANTON BRUUN, Cruise 3

INTRODUCTION

Cruise 3 of the R/V ANTON BRUUN, originating from Bombay on August 8 and terminating at Port Louis, Mauritius on September 20, 1963, was the first of two cruises on which a special effort was made to sample the meso- and bathypelagic fauna of the western Indian Ocean. Collections were made with a 10-ft. Isaacs-Kidd midwater trawl at 17 stations from 11°56'N. latitude to 40°54'S latitude, along the 60°E. meridian. In addition to the midwater trawl collections, the basic program of hydrography, biological oceanography, and primary production was continued.

Presented in this report are the reduced oceanographic, chemical, and biological data, station lists of plankton, midwater trawl, and miscellaneous biological collections, and bathythermograph positions for Cruise 3. A narrative report of Cruise 3 was issued as News Bulletin No. 4 of the U. S. Program in Biology, IIOE, dated February, 1964.

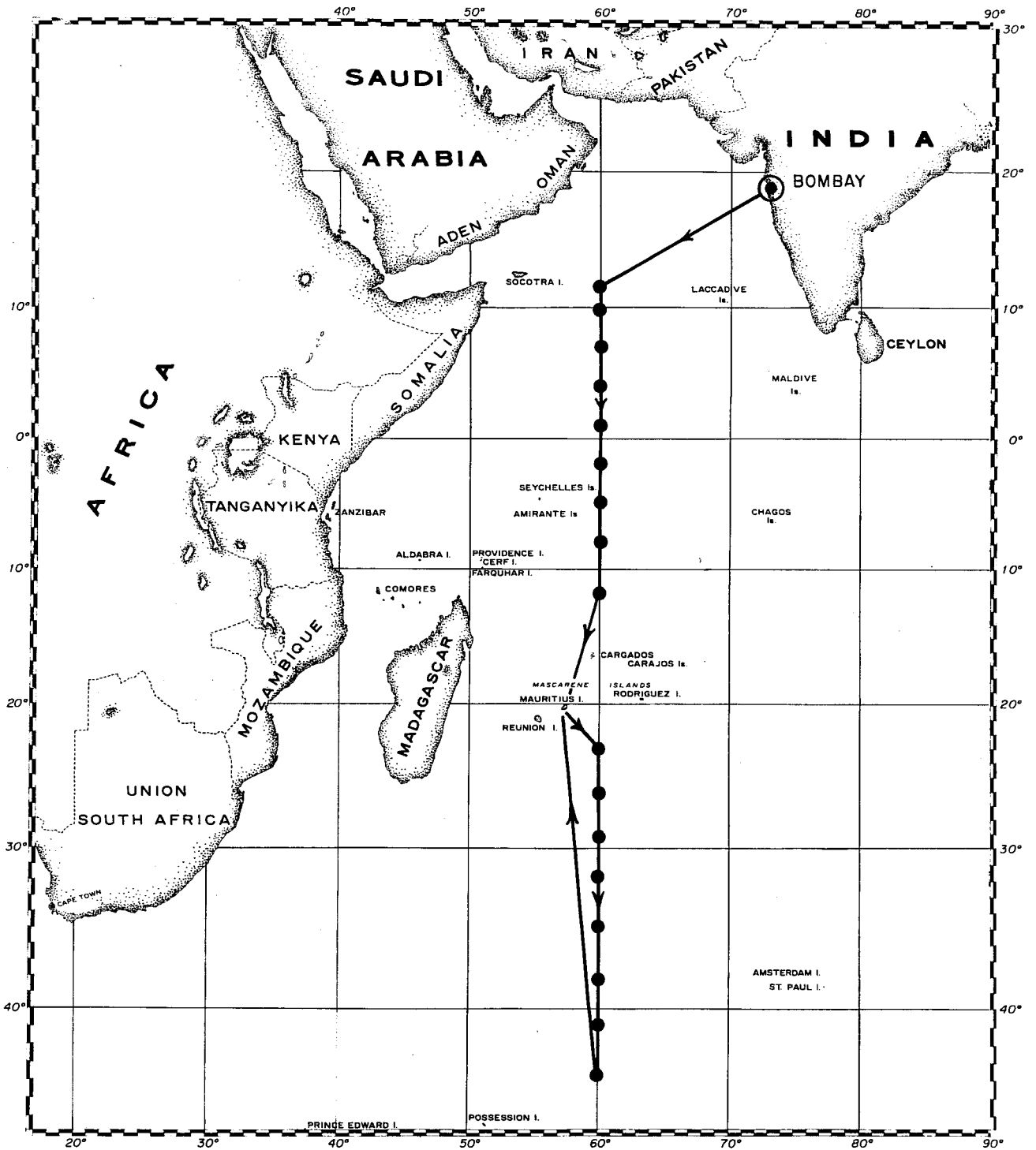


Fig. 1. Cruise track, R/V ANTON BRUUN, Cruise 3

Table 1.

## Itinerary, Cruise 3

August 8, 1964	Departed Bombay, India.
August 13-25	Completed series of stations from 12° N. to 12° S. latitude along 60° E. longitude.
August 29	Arrived Port Louis, Mauritius.
September 3	Departed Port Louis.
September 4-13	Completed series of stations from 23° S. to 44° S. latitude along 60° E. longitude.
September 20	Arrived Port Louis - end of Cruise 3.

Table 2

## Key to Abbreviations

## A. PLANKTON NETS AND TYPES OF TOWS

- IOSN: Indian Ocean Standard Net  
113 cm diameter  
0.33 mm mesh aperture
- 75M25: 75 cm diameter  
0.064 mm mesh aperture (No. 25 mesh)
- BE-3: Bé multiple plankton sampler  
70.7 cm X 70.7 cm (square opening)  
0.333 mm mesh aperture (No. 3 mesh)
- M-0: 1 meter diameter  
0.6 mm mesh aperture (No. 0 mesh)
- V: Vertical
- H: Horizontal
- Q: Oblique

## B. OTHER SAMPLING GEAR

- RR: Rod and reel

## C. INSTITUTIONS &amp; INDIVIDUALS

- SOSC: Smithsonian Oceanographic Sorting Center  
U. S. National Museum  
Washington, D. C.
- IOBC: Indian Ocean Biological Center  
Ernakulam  
Cochin, India
- POFI: Bureau of Commercial Fisheries  
U. S. Fish & Wildlife Service  
Honolulu, Hawaii
- WHOI: Woods Hole Oceanographic Institution  
Woods Hole, Massachusetts  
(R. H. Backus)
- AWHB: Lamont Geological Observatory  
Columbia University  
Palisades, New York  
(A. W. H. Bé)
- UCSB: University of California at Santa Barbara  
Goleta, California  
(A. W. Ebeling)

Table 3- Summary of activities, exclusive of midwater trawl hauls, Cruise 3

Sta.	Date	Position		Hydro Cast	Prim. Prod.	Plankton		Tows.	
		Latitude	Longitude			75M25	IOSN	BE-3	M-0
145	13 Aug.	11°56'N	60°53'E	x	x		x		x
146	15 Aug.	10°12'N	60°04'E	x	x		x	x	
147	16 Aug.	07°13'N	59°57'E	x	x	x	x	x	
148	17 Aug.	04°05'N	59°58'E	x	x	x	x	x	x
149	19 Aug.	01°16'N	60°08'E	x	x	x	x	x	
150	20 Aug.	02°00'S	59°59'E	x	x	x	x	x	x
151	22 Aug.	05°04'S	60°03'E	x	x		x	x	x
152	24 Aug.	07°21'S	59°44'E	x	x		x	x	
152A	25 Aug.	10°23'S	60°08'E						x
153	25 Aug.	11°39'S	58°02'E	x	x		x	x	
153A	28 Aug.	16°40'S	56°54'E			x			x
154	4 Sept.	22°58'S	59°45'E	x	x	x	x	x	
155	5 Sept.	25°55'S	60°01'E	x	x	x	x		x
156	6 Sept.	29°24'S	60°05'E	x	x	x	x	x	x
157	7 Sept.	31°58'S	59°51'E	x	x	x	x		
157A	8 Sept.	32°28'S	59°52'E						x
158	9 Sept.	34°57'S	60°05'E	x	x	x	x	x	
159	10 Sept.	38°22'S	59°51'E	x	x	x	x		x
160	12 Sept.	40°54'S	60°01'E	x	x	x	x		x



































