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U.S. PROGRAM IN BIOLOGY

INTERNATIONAL INDIAN OCEAN EXPEDITION

FINAL CRUISE REPORT

ANTON BRUUN CRUISE I

VOLUME 2 (of 2)

BATHYTHERMOGRAPH POSITIONS

STATION LISTS for BIOLOGICAL COLLECTIONS

INTERNATIONAL INDIAN OCEAN EXPEDITION

Woods Hole Oceanographic Institution
ATLAS - GAZETTEER COLLECTION

WOODS HOLE OCEANOGRAPHIC INSTITUTION

JULY, 1964

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K E Y

A. PLANKTON NETS AND TYPES OF TOWS

IOSN:	Indian Ocean Standard Net 113 cm diameter 0.33 mm mesh aperture
75-M-25:	75 cm diameter 0.064 mm mesh aperture (No. 25 mesh)
75-M-3:	75 cm diameter 0.333 mm mesh aperture (No. 3 mesh)
BE-3:	Be multiple plankton sampler 70.7 cm X 7.07 cm (square opening) 0.333 mm mesh aperture (No. 3 mesh)
M-O:	1 meter diameter 0.6 mm mesh aperture (No. 0 mesh)
FT-20:	1 foot diameter 0.076 mm mesh aperture (No. 20 mesh)
V:	Vertical
H:	Horizontal
Q:	Oblique

B. BENTHIC SAMPLING GEAR

GMT:	Gulf of Mexico shrimp trawl (40 foot lead line)
IKT:	Isaacs Kidd midwater trawl (10 foot)
DR:	Dredge
DLS:	Dietz-LaFond Snapper
FC:	Phleger corer
GC:	Gravity corer
GRB:	Campbell grab
MZT:	Menzies trawl

C. MISCELLANEOUS

RR:	Rod and reel
POIS:	Poison (rotenone compounds)
DIP:	Dip net
CAST:	Cast net
FOB:	Flew on board (eg. flying fishes, birds)
SCUBA:	Self-contained underwater breathing apparatus

D. INSTITUTIONS

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
VIMS:	Virginia Institute of Marine Science Gloucester Point, Virginia
UK:	University of Kansas Lawrence, Kansas
ANSP:	Academy of Natural Sciences of Philadelphia Philadelphia, Pennsylvania
UCSB:	University of California Santa Barbara, California

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BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION		BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
			LAT.	LONG.						
MISCELLANEOUS:	17 III 63		06°01'N	72°53'E			0220-0750	FOB		
Flying fishes										SOSC
MISCELLANEOUS:	18 III 63		06°29'N	86°46'E			0030	FOB		
Flying fish										SOSC
MISCELLANEOUS:	19 III 63		07°17'N	90°45'E			0300	FOB		
Flying fish										SOSC
NIGHT LIGHT:	19/20 III	14	07°27'N	94°21'E		Surface	2130-0100	DIP		
Fishes-gempylids										SOSC
Fishes-myctophids										SOSC
Flying fishes										SOSC
Flying fishes										VIMS
Lobsters (triple-tail)										SOSC
Squids										UK
Squids										SOSC

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION		BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
			LAT.	LONG.						
BENTHIC:	20 III 63	15A	07°24'N	95°26'E		1830-1575	1345-1447	GMT		
Sponges & barnacles										SOSC
Mud										UK
NIGHT LIGHT:	20 III 63	16	07°31'N	96'11'E		Surface	2100-2230	DIP		
Fishes										SOSC
Squids										SOSC
BENTHIC:	21 III 63	17	07°40'N	97°09'E		512-503	0716-0750	GMT		
Fishes										SOSC
Fishes & shrimps										SOSC
Shrimps										SOSC
Worms, worm tubes, shrimps										SOSC
Crabs, sponges										SOSC
Sea urchins, brittle stars										SOSC
Mollusks										ANSP
Fishes										VIMS
Mud										UK

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION		BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
			LAT.	LONG.						
BENTHIC:	21 III 63	18A	07°34'N	98°00'E		77	1623-1723	GMT		
Fishes										SOSC
Assorted invertebrates										SOSC
Sponges, gorgonians										SOSC
Mollusks										ANSP
Sponges, gorgonians, assorted invertebrates										UK
BENTHIC:	21/22 III	18B	07°15'N	98°07'E		77	2330-0030	DR		
Assorted invertebrates										SOSC
Mollusks										ANSP
Mud										UK
SHORE COLLECTIONS-OFF PHUKET, THAILAND:	22 III 63		08°00'N	98°15'E			1100-1600	POIS		
Fishes, assorted invertebrates										SOSC
Fishes										VIMS
Holothurians										SOSC
Fishes										SOSC
Eels										SOSC
Eels and puffers										SOSC

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION		BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
			LAT.	LONG.						
BENTHIC:	23 III 63	19	08°29'N	97°59'E		42	1405-1435	DR		
Mollusks										ANSP
Mud										UK
Invertebrates										SOSC
MISCELLANEOUS:	23 III 63	19	08°29'N	97°59'E		5	1900	RR		
Fishes-bigeyed scad										SOSC
Squid-from scad stomachs										SOSC
BENTHIC:	23 III 63	20	09°13'N	97°51'E		60-58	1844-1914	GMT		
Fishes-plectognaths										ANSP
Fishes										VIMS
Fishes										SOSC
Jellyfishes, shrimps, crabs,										SOSC.
crinoids, squids, starfishes										
BENTHIC:	23 III 63	20	09°13'N	97°51'E		58	2104-2115	DR		
Mollusks										ANSP
Mud										BANDY

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION LAT.	POSITION LONG.	BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
BENTHIC:	24 III 63	21	09°54'N	97°42'E		70	0248-0318	GMT		
Fishes										SOSC
Assorted invertebrates										SOSC
Shrimps, mollusks, jellyfishes										SOSC
Fishes										VIMS
Mollusks										ANSP
BENTHIC:	24 III 63	22	10°37'N	97°34'E		80	0854-0915	DR		
Shells										ANSP
Crabs & corals										SOSC
BENTHIC:	24 III 63	22	10°37'N	97°34'E		75-80	1024-1054	GMT		
Fishes										SOSC
Crabs, squids										SOSC
Fishes-plectognaths										ANSP
Mollusks										ANSP
Fishes										VIMS
BENTHIC:	24 III 63	22A	10°39'N	97°06'E		275	1430-1455	DR		
Mollusk shells										ANSP
Coral, shrimp, glass sponge										?

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION LAT.	POSITION LONG.	BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
BENTHIC:	24 III 63	22A	10°39'N	97°06'E		290	1538-1608	GMT		
Fishes										SOSC
Fishes										VIMS
Fishes										ANSP
Fishes-Triacanthoids, Chauna										ANSP
Crabs										SOSC
Squids, shrimps, assorted inverts.										SOSC
BENTHIC:	24 III 63	23	10°39'N	96°35'E		375-367	2309-2339	GMT		
Fishes										VIMS
Fishes										SOSC
Assorted invertebrates										SOSC
Mollusks										ANSP
Fishes-plectognaths										ANSP
MISCELLANEOUS:	25 III 63	24	10°36'N	95°39'E		Surface	0715	DIP		
Medusae and salps										SOSC
Flying fishes and myctophids										SOSC

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION		BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
			LAT.	LONG.						
BENTHIC:	25 III 63	24	10°36'N	95°39'E		2488	0946-1249	DR		
Mud										UK
Mud										Bandy
Mud										SOSC
Worms										SOSC
Shells										ANSP
NIGHT LIGHT:	26 III 63	27	10°37'N	92°59'E		Surface	2130-2330	DIP		
Fishes										SOSC
Assorted invertebrates										SOSC
BENTHIC:	27 III 63	28	11°49'N	92°53'E		88	0800-	DR		
Shells										ANSP
BENTHIC	27 III 63		11°49'N	92°53'E		88	0854-0924	GMT		
Crabs, sea urchins										SOSC
Assorted invertebrates										SOSC
Fishes										SOSC

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION LAT.	POSITION LONG.	BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
BENTHIC:	27 III 63	28A	11°52'N	92°49'E		66	1045-1115	GMT		
Jellyfishes										SOSC
Sponges										SOSC
Fishes										SOSC
Sting ray										SOSC
BENTHIC:	27 III 63	28B	12°01'N	92°55'E		64-50	1245	DR		
Eel										ANSP
Shells										ANSP
BENTHIC:	27 III 63	28C	12°03'N	92°57'E		37	1351-1421	GMT		
Shrimps, squids										SOSC
Fishes										SOSC
Shark										SOSC
Shells including Conus										ANSP
BENTHIC:	27 III 63	28D	11°37'N	92°56'E		326-357	1745-1818	GMT		
Sea pen										
NIGHT LIGHT:	27 III 63	28D	11°37'N	92°56'E		Surface	2000	DIP		
Flying fishes										SOSC
Jellyfishes, sargassum										SOSC
Monacanthids										ANSP

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION		BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
			LAT.	LONG.						
MISCELLANEOUS:	27 III 63	29	11°23'N	93°31'E		Surface	2300-2400	DIP		
Fishes										SOSC
BENTHIC:	28 III 63	29	11°23'N	93°31'E		55-40	0118-0231	DR		
Coral crabs										SOSC
Brittle stars										SOSC
Mollusks-including Haliotis										ANSP
Eel										ANSP
NIGHT LIGHT:	28 III 63	32	12°52'N	94°13'E		Surface	2100-2400	DIP		
Fishes and assorted inverts.										SOSC
NIGHT LIGHT:	29/30 III	35	12°51'N	96°34'E		Surface	2245-0200	DIP		
Fishes										SOSC
MISCELLANEOUS:	30 III 63	36	12°52'N	97°40'E			0830	RR		
Remora										SOSC
BENTHIC:	30 III 63	36A	13°00'N	97°41'E		68	1040-1120	DR		
Leptocephalus										SOSC

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION		BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
			LAT.	LONG.						
BENTHIC:	30 III 63	36A	13°00'N	97°41'E		73	1129-1159	GMT		
Shells										ANSP
Fishes-plectognaths										ANSP
Sea snakes										ANSP
Fishes										SOSC
BENTHIC:	30 III 63	37	13°28'N	97°19'E		73-81	1637-1707	GMT		
Fishes										SOSC
Squids										SOSC
Fishes-Balistids										ANSP
Shells										ANSP
BENTHIC:	30 III 63	37	13°28'N	97°19'E		64	1637-1707	DR		
Shells										ANSP
MISCELLANEOUS:	30 III 63	37	13°28'N	97°19'E		Surface	1700	RR		
Fish-Scombrid										SOSC
Parasites and gill arch of										VIMS
scombrid										
MISCELLANEOUS:	30 III 63	38	14°07'N	97°05'E		Surface	2200	CAST		
Sea snakes										ANSP

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION LAT.	POSITION LONG.	BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
BENTHIC:	30 III 63	38	14°07'N	97°05'E		69-73	2308-2338	GMT		
Fishes										SOSC
Fishes										VIMS
Fishes-Plectognaths										ANSP
Shells										ANSP
BENTHIC:	31 III 63	39A	14°52'N	96°39'E		48-64	0714-0759	GMT		
Fishes, shrimps										SOSC
Fishes										VIMS
Fishes-Plectognaths										ANSP
Shells										ANSP
BENTHIC:	31 III 63	40	15°20'N	96°24'E		26-27	1148-1238	GMT		
Fishes										SOSC
Shrimps										SOSC
Fishes-Plectognaths										ANSP
Sea snakes										ANSP
Fishes										VIMS
BENTHIC:	31 III 63	40	15°20'N	96°24'E		18-20	1325	DR		
Mud										

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION		BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
			LAT.	LONG.						
BENTHIC:	31 III 63	41	15°04'N	95°51'E		44-46	1810-1855	GMT		
Shrimps, horseshoe crab										SOSC
Sand dollars										SOSC
Fishes										SOSC
Fishes										ANSP
Mollusks										ANSP
MISCELLANEOUS:	31 III 63	41	15°04'N	95°51'E		Surface	1900	CAST		
Sea snakes										ANSP
Fishes-Monacanthids										ANSP
Dasson (Salariidae)										SOSC
BENTHIC:	31 III 63	41A	15°04'N	95°51'E		29-33	2318-0003	GMT		
Ficus, Tonna										ANSP
Crabs										SOSC
Stingray										SOSC
Fishes										SOSC
BENTHIC:	1 IV 63	42	15°08'N	94°54'E		35	0306-0351	DR		
Mud										

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION		BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
			LAT.	LONG.						
BENTHIC:	1 IV 63	42	15°08'N	94°54'E		35	0306-0351	GMT		
Fishes										SOSC
Fishes-Plectognaths										ANSP
Sea snakes										ANSP
BENTHIC:	1 IV 63	43	15°08'N	94°04'E		55	1250-1320	DR		
Shells										ANSP
BENTHIC:	1 IV 63	43	15°08'N	94°04'E		66	1322-1407	GMT		
Fishes										SOSC
Echinoderms										SOSC
Sea snakes										ANSP
BENTHIC:	4 IV 63	44	21°52'N	91°36'E		15	1400-1445	GMT		
Fishes, shrimps										SOSC
Sea snakes										ANSP
Melongena										ANSP
BENTHIC:	4 IV 63	44A	21°43'N	91°33'E		15	1610-1620	GMT		
Fishes										SOSC
Polinices										ANSP
Fishes, sea snakes										ANSP

BIOLOGICAL LOG —— R/V ANTON BRUUN, CRUISE I

COLLECTION	DATE	STA.	POSITION		BOTTOM DEPTH (M)	SAMPLING DEPTH (M)	ZONE TIME	SAMP. GEAR	LABEL NO.	CURRENT CUSTODY
			LAT.	LONG.						
BENTHIC:	4 IV 63	45	21°32'N	91°29'E		17	1800-1845	GMT		
Fishes										SOSC
Jellyfishes, shrimps										SOSC
Fishes-*Arius*										VIMS
NIGHT LIGHT:	5 IV 63	46	21°00'N	91°59'E		Surface	0000-0130	DIP		
Flying fishes										SOSC
BENTHIC:	5 IV 63	46	21°00'N	91°59'E		23-25	0050-0135	GMT		
Fishes										SOSC
Fishes-Plectognaths										ANSP
Sea snakes										ANSP
Fishes-*Arius*										VIMS
BENTHIC:	5 IV 63	47	20°27'N	92°20'E		19-20	0738-0823	GMT		
Fishes										SOSC
Squids, crabs										SOSC
Fishes-Plectognaths										ANSP
Placuna										ANSP