

REPORT ON THE CORINDON CRUISES

by

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The corindon cruises were the first realization of the Cooperation on Oceanology between the governments of France and Indonesia. The name Corindon is derived from the name of French vessel "*CORIOLIS*" and *Indonesia* to signify that the vessel was participating in marine research activities in Indonesian waters.

Several cruises had been executed under the name Corindon, two of them i.e. cruise II and IV were consecrated for biological activities. Corindon II (Figure 1) took place at the Makassar Strait from October 29 to November 12, 1980 while Corindon IV (Figure 2) took place at the vicinity of Piru Bay, Ceram, and entrance of Ambon Bay, Maluku from 14 to 16 April 1981.

The Makassar Strait which is located between Kalimantan and Sulawesi can be said, with the exception of the Siboga Expedition, that its benthic fauna, especially of the deeper water, was poorly known. Therefore the emphasize of the Corindon II cruise was to collect data on the benthic fauna by using beam trawl, rectangular dredge as well as "Okean" grab. The area surveyed covering from about 0.40'N to 2°40'S and from 117°E to 119°50'E. A total of 93 stations had been taken comprising of 30 beam trawl hauls in the depths ranging from 21 to 2,400 m; 10 dredgings to find out bottom condition before trawling operation with depth ranging from 30 to 1,500 m; 35 samplings with "Okean". grab of 0.5 m² in the depths ranging from 10-2,400 m; 14 hydrological stations to observe the water temperature near the bottom; and four different type of samplings: surface plankton samplings collecting invertebrate on the intertidal flat at Balalangan Island. Three French and two Indonesian biologists participated in this cruise.

Corindon IV was located in the vicinity of Piru Bay and the entrance of Ambon Bay. Although Maluku has been visited by several expeditions such as Challenger, Siboga, Snellius, Mariel King Memorial, Rumphius, informations concerning deep marine fauna of Piru Bay and Ambon

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Bay are still insufficient. Although Mariel King Memorial Expedition in 1970 had quite intensive samplings in the Piru Bay and its vicinity but collecting were only made by rectangular dredges therefore the larger animals, especially fishes, were not collected. Due to its very limited time, Corindon IV was only able to make six trawling stations of eight hauls.

I. LIST OF BIOLOGICAL STATIONS OF CORINDON II

Station No.	Date 1980	Position		Depth in meters	Gear
		latitude	longitude		
201	30.10	1°10.2'S	117°06.1'E	21	BT
202	"	1°10.1'S	117°06.4'E	21	G
203	"	1°08.6'S	117°07.5'E	25	BT
204	"	1°08.9'S	117°18.0'E	49	G
205	"	1°07.8'S	117°18.7'E	49	BT
206	"	1°05.0'S	117°45.2'E	85—79	BT
207	31.10	0°14.9'S	117°51.7'E	150	G
208	"	0°14.6'S	117°52.0'E	150	BT
209	"	0°07.3'S	117°53.8'E	490	BT
210	"	0°12.6'S	117°53.5'E	338	G
211	"	0°12.8'S	117°53.7'E	313	BT
212	"	0°10.4'N	117°54.5'E	820—710	BT
213	1.11	0°30.7'E	117°50.2'E	488	G
214	"	0°31.4'N	117°50.1'E	595	BT
215	"	0°39.5'N	117°52.3'E	93	BT
216	"	0°40.1'N	117°51.4'E	96	RD
217	"	0°38.2'N	117°59.6'E	470—447	BT
219	2.11	0°14.8'N	118°14.9'E	2300	G
220	"	0°13.6'N	118°12.3'E	2350	BT
223	3.11	0°00.7'S	119°01.8'E	2400	G
227	"	0°01.5'S	119°34.3'E	317	RD
228	"	0°01.5'S	119°35.0'E	300	GD
229	4.11	0°02.2'N	119°49.8'E	445—411	GD
230	"	0°06.7'N	119°47.0'E	1580—1400	GD
231	4.11	0°04.9'N	119°47.8'E	1080—980	BT
235	"	0°04.7'N	119°48.4'E	1110	G
236	"	0°06.7'N	119°45.5'E	1730	G
237	"	0°03.9'N	119°47.2'E	surface	P
238	"	0°51.8'S	119°50.9'E	20	G
239	5.11	0°37.0'S	119°31.4'E	690	G
240	"	0°37.6'S	119°33.5'E	675	BT
241	6.11	0°57.7'S	119°15.3'E	1550—1525	BT
244	"	0°56.5'S	119°21.9'E	970	G
247	"	0°54.9'S	119°26.4'E	520	G

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Station No.	Date 1980	Position		Depth in meters	Gear
		longitude	latitude		
248	"	0°54.2'S	— 119°28.7'E	170	G
249	"	0°53.9'S	— 119°29.0'E	120	G
250	"	0°53.8'S	— 119°29.6'E	65	G
251	"	0°53.7'S	— 119°29.6'E	65	G
252	"	0°53.7'S	— 119°31.0'E	35	G
253	"	0°53.6'S	— 119°30.0'E	17	G
254	"	0°58.1'S	— 119°29.4'E	62—53	GD
255	"	1°56.5'S	— 119°17.3'E	13	G
256	"	1°56.5'S	— 119°17.2'E	24	G
258	"	1°56.8'S	— 119°17.3'E	30	GD
259	"	1°56.5'S	— 119°17.2'E	64	BT
260	"	1°56.9'S	— 119°17.6'E	50—15	BT
261	"	1°56.8'S	— 119°16.8'E	60	G
263	"	1°56.8'S	— 119°16.7'E	80	G
266	7.11	1°56.6'S	— 119°15.8'E	95	G
267	"	1°56.6'S	— 119°16.7'E	186—134	BT
268	"	1°56.6'S	— 119°16.4'E	200	G
271	"	1°57.8'S	— 119°15.0'E	215	BT
273	"	1°56.0'S	— 119°16.0'E	220—180	BT
275	"	1°53.9'S	— 119°13.7'E	530	G
276	8.11	1°54.6'S	— 119°13.8'E	456—395	BT
278	"	1°55.0'S	— 119°10.3'E	980	G
280	"	1°59.0'S	— 119°09.9'E	800—715	BT
281	"	1°57.5'S	— 119°02.0'E	1120—1150	BT
282	"	1°59.6'S	— 118°57.0'E	1500	G
284	9.11	2°03.0'S	— 118°45.0'E	surface	P
285	9.11	2°03.0'S	— 118°45.0'E	surface	P
286	"	2°04.4'S	— 118°46.9'E	1710—1730	BT
288	"	2°09.9'S	— 118°30.2'E	1980	G
289	"	2°08.5'S	— 118°15.0'E	2200	G
290	"	2°37.6'S	— 118°10.9'E	798—779	BT
291	10.11	2°32.7'S	— 117°56.6'E		
292	"	2°37.2'S	— 117°53.0'E	46	GD
293	"	2°37.7'S	— 117°49.4'E	45	GD
294	"	2°38.3'S	— 117°50.4'E	57—46	BT
295	11.11	1°26.5'S	— 117°02.1'E	54—51	BT

G E A R

- BT = Beam trawl of 4 m length
RD = Rectangular dredge of 1.20 × 0.50 m
GD = Geological dredge
G = "OKEAN" Grab
P = Plankton net, diameter 1 m.

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II. LIST OF BIOLOGICAL STATIONS OF CORINDON IV

Station No.	Date 1981	Position		Depth in meters	Gear
		latitude	longitude		
I ₁	14.4	03°13.3'N	— 128°06.2'E	595—448	BT
		03°12.2'N	— 128°06.2'E		
I ₂	"	03°12.0'N	— 128°06.1'E	448—217	BT
		03°11.3'N	— 128°06.2'E		
II ₁	15.4	03°18.0'N	— 128°16.0'E	646—348	BT
		03°17.3'N	— 128°16.7'E		
III ₁	"	03°26.6'N	— 128°19.7'E	582—528	BT
		03°26.2'N	— 128°18.9'E		
III ₂	"	03°22.8'N	— 128°20.6'E	528—546	BT
		03°22.1'N	— 128°20.6'E		
IV ₁	"	03°28.3'N	— 128°24.8'E	408—278	BT
		03°30.0'N	— 128°23.0'E		
V ₁	"	03°29.0'N	— 128°32.8'E	268—192	BT
		03°28.8'N	— 128°33.9'E		
V ₂	"	03°28.2'N	— 128°32.8'E	192	BT
		03°28.2'N	— 128°33.8'E		
VI	"	03°44.8'N	— 128°05.0'E	522—454	BT
		03°44.6'N	— 128°06.0'E		

G E A R

BT = Beam trawl.

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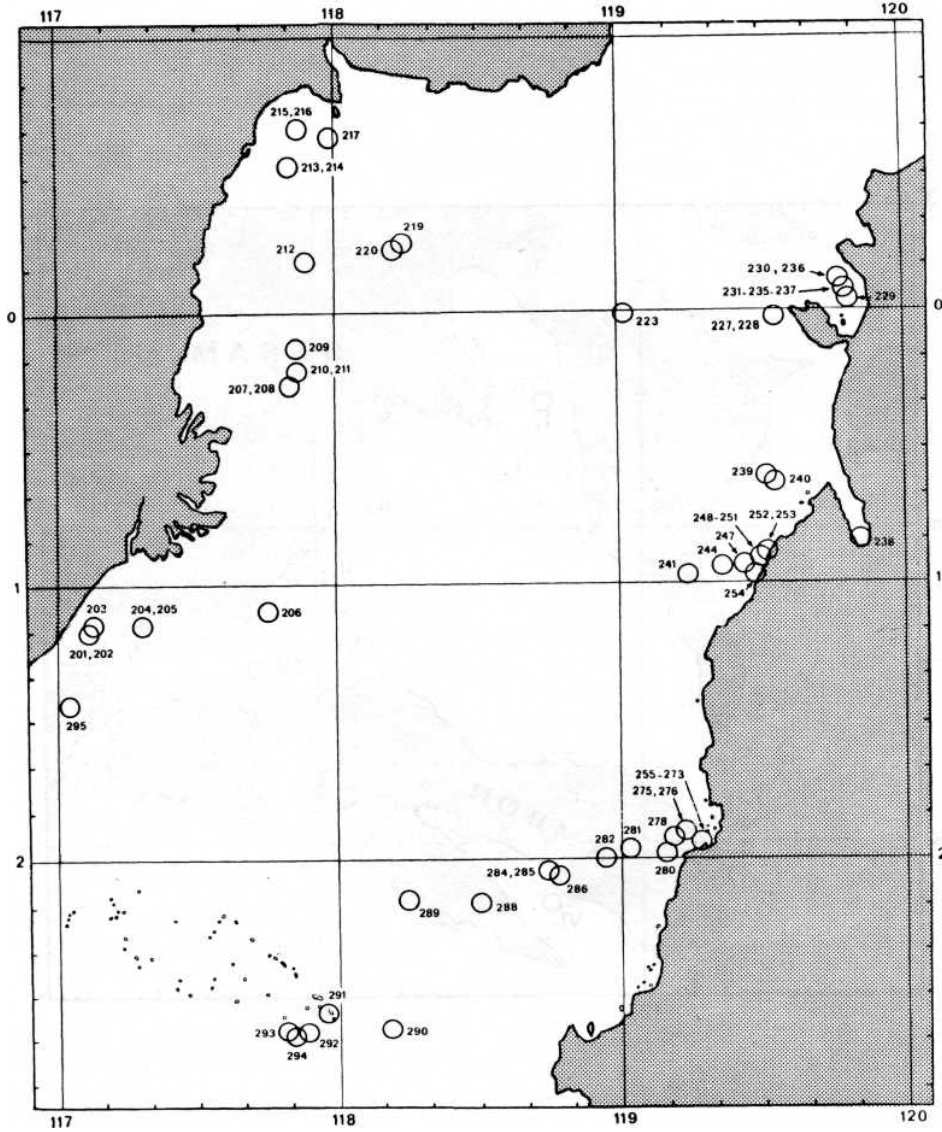


Figure 1. Biological stations in the Makassar Strait

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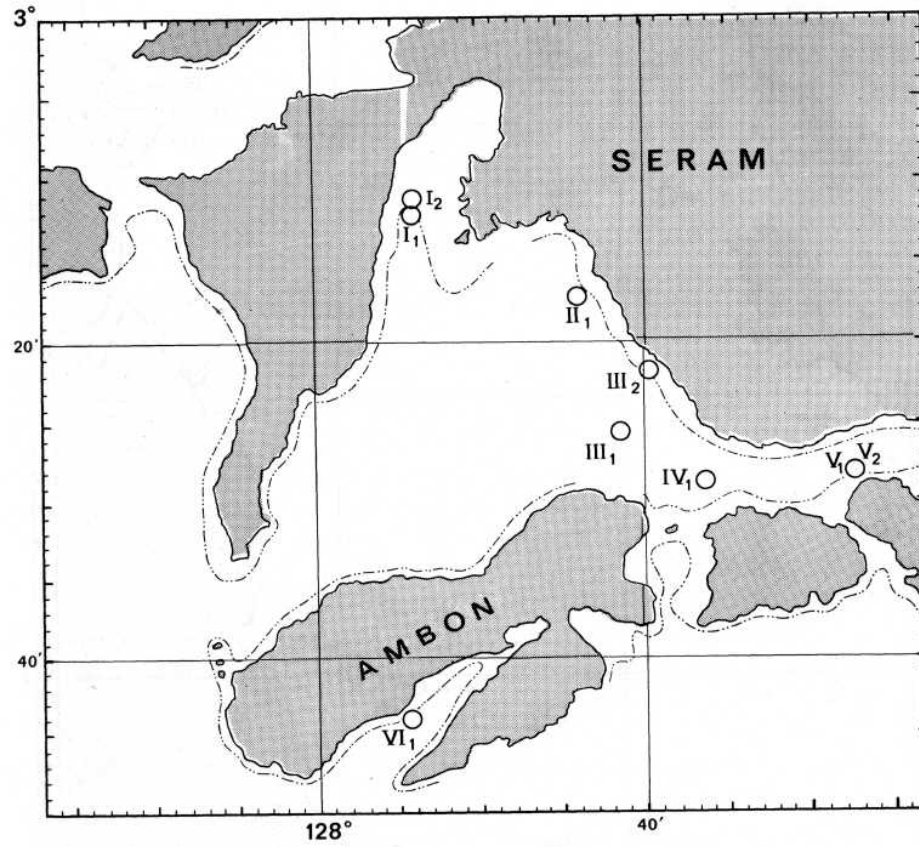


Figure 2. Biological station in the vicinity of Piru Bay and Ambon Bay