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**Short Cruise Report**  
**RV SONNE SO304.**

**Colombo (Sri Lanka) – Colombo (Sri Lanka)**

**22.02.2024 – 07.04.2024**

**Chief Scientist: Prof. Dr. Volkhard Spiess**

**Captain: Oliver Meyer**

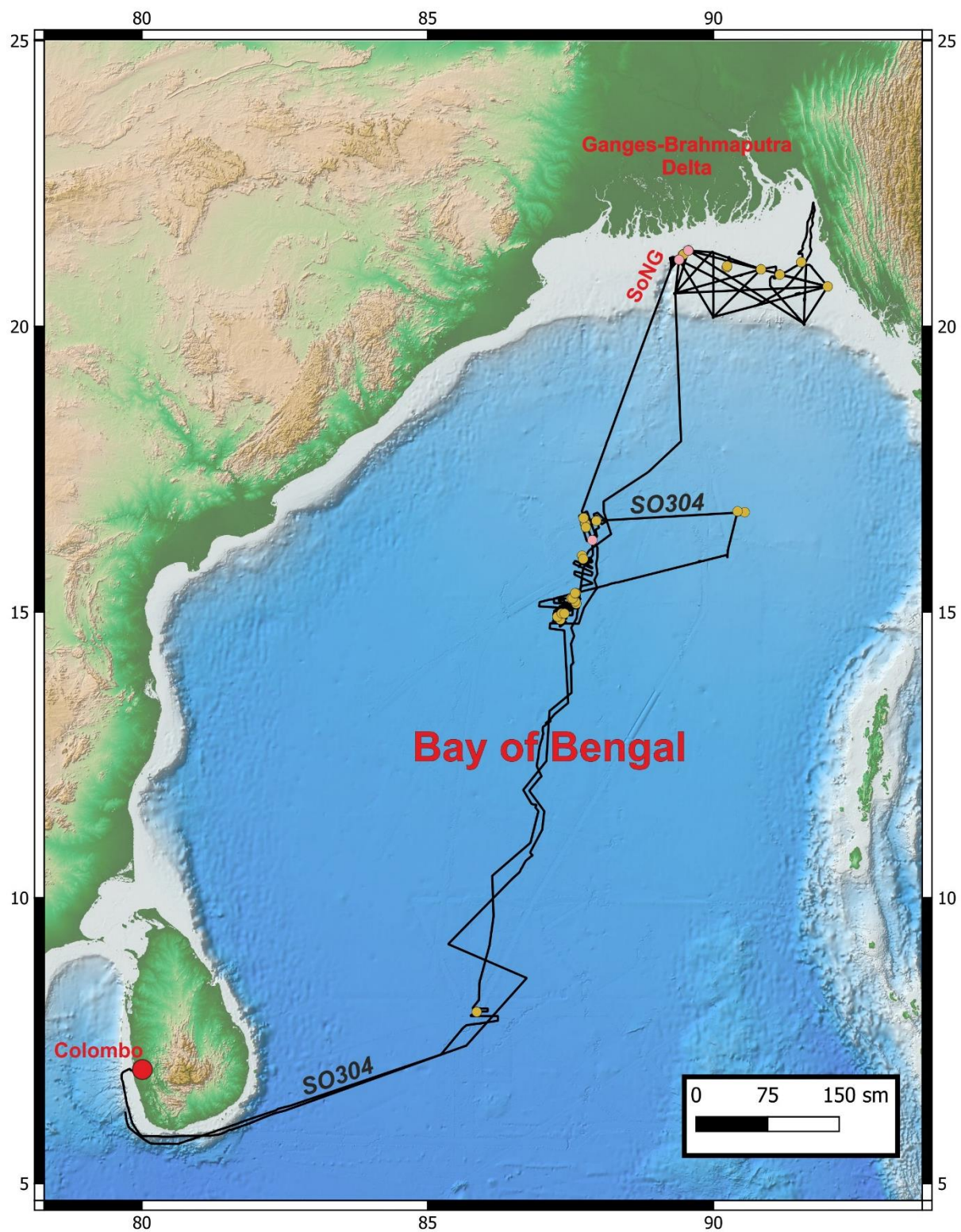


Figure 1:  
Trackchart of Cruise SO 304. Coring stations are indicated by yellow points, CTD stations and mooring by pink dots.

## Objectives

### Preface:

The original objectives of the shiptime proposal focused all on work within the EEZ of Bangladesh. However, as there were some irritations about the permission from Bangladesh, the first part of the cruise had to be carried out in international waters. As the objectives deal mainly with recent processes, the most recent deposits on the Bengal Fan were surveyed and sampled. Moreover, new objectives were developed utilizing the gathered data sets. As the final permission for the shelf restricted the work to smaller areas and less coring positions as requested, some original objectives had to be cancelled.

Finally, the following objectives were targeted by means of multichannel seismic data, hydroacoustic data, sediment sampling, CTD casts, and installation and retrieving of a mooring:

- Indian monsoon changes during the last millennium
- Response of delta front deposition to human-induced land modifications
- Triggers and consequences of sediment mobilization and transport in the shelf canyon SoNG
- Deciphering long-term subsidence and its temporal and spatial variations
- Dispersal of microplastic on submarine delta, canyon and fan
- Morphology and sediment deposition on the most recent terminating lobe on the fan
- Avulsion and reoccupation processes of channel-levee systems
- Pathways of turbidity currents from the upper fan down to the area of IODP Exp. 354 drillings
- Tectonics of the 85° Ridge
- Depocenter shifts on the upper fan

## Narrative

Cruise SO304 with R/V Sonne started with 31 scientists in the late afternoon of February 21 in Colombo (Sri Lanka). The ship sailed south around the island of Sri Lanka and then in northeasterly direction towards international waters at 8°N. After a transit of 40 hours we left the EEZ of Sri Lanka in the afternoon of February 23 and started geophysical work. We began with an echosounder survey of the active transport channel supplementing previous data sets. On the night of February 24, the seismic equipment was tested and configured for the various areas of application in the deep sea and shallow water.

In the morning of February 25, geologic samples were taken next to an IODP Exp 354 drill site at 8°N. Around noon we left the station and headed north with sediment echosounder and multibeam for about 500 nm in total to map the 'active' channel. In the afternoon of February 26, we added the multichannel seismic equipment and continued surveying. In the evening of February 28, at our first working area at 16°30 N, we ran a CTD station and continued with sediment echosounder and multibeam mapping until the morning of February 29. We found a location, where the formerly active channel had been cut off from the inflow of fresh sediment, and a depositional lobe formed instead.

Station work started at 6:00 in the morning at six different multicorer sites on the channel floor as well as on its flanks (levees). After a long day of very successful sampling beyond

midnight, surveying in the vicinity complemented the existing echosounder grid until noon of March 1. This time, gravity cores were successfully taken in two different locations. Our work in the working area at 16°30'N was completed on the evening of March 1.

Since the submission of our research notification in July 2023, we were waiting for a formal approval from the Bangladesh authorities, which had clearly stated an acceptance, but this was significantly delayed and then had been very unclear. So, at this point in time, we could not move into the Bangladesh EEZ, but rather had to develop an alternative research plan.

We started in the afternoon of March 1 an eastward seismic profile to extend our net of lines. At the end of the seismic survey in the morning of March 3, we surveyed with echosounder the vicinity to prepare for two coring stations. Afterwards we sailed with echosounder to the starting point of a westward oriented seismic line. At late evening of March 3, we went back with seismics to our previous working area, which we reached around noon of March 5.

Here we designed a new plan of investigating an area of a channel avulsion and an associated development of a sand-rich depositional lobe. This setting is an exciting target, not well studied at all, and we therefore decided to spend a couple of days with survey and sampling there.

We continued our multibeam and sediment echosounder survey until the early afternoon of March 6. Two stations were visited with multicorer and gravity cover, and echosounder surveying continued in the late evening to cover an area of more than 10'000 km<sup>2</sup>. In the morning of March 7, we visited three more stations with multicorer and gravity corer.

Station work ended at midnight of March 7, and a survey with echosounder and multichannel seismic followed until the morning of March 9. Then another 4 stations were sampled. In the late evening, we surveyed first with echosounder and then also with multichannel seismics the area, where a channel avulsion took place. This survey lasted until the morning of March 11, and two gravity cores were taken subsequently.

At this time we now had sufficient clarification from Bangladesh, and we could move northwards, first in international waters to the Bangladesh EEZ, which we reached in the afternoon of March 12, and with limited surveying (only multibeam) towards the Swatch of No Ground (SoNG) shelf canyon. We arrived in the morning of March 13, having lost almost 13 working days of our program for the Bangladesh shelf, a significant reduction from a total of 34 working days originally planned for the cruise.

Furthermore, we were unexpectedly forced to 9 fixed, randomly defined and not changeable sampling positions, which were not decided by us, and also to survey lines, which only connect these points. That limitation was a dramatic drawback into our research strategy, which relies on pre-site survey for coring and alignment of survey lines based on geologic criteria and incoming new data. Furthermore we had planned to survey along previously collected lines from 1994, 1997 and 2006 to study the changes in the delta and canyon on decadal scales. Multibeam mapping was limited to depths greater than 300 m. Much of the original plan was therefore not achievable at the same quality and quantity.

On March 13, we arrived in the Swatch of No Ground shelf canyon, gathered new multibeam data and began station work including mooring deployment. After successful deployment, we left the station and moved to the head of the canyon, sampling with CTD, multicorer and gravity corer. A short multibeam survey was performed and then the OFOS System was deployed in the morning of March 14 for several hours. An extended multibeam survey was afterwards conducted from the evening to noon time of March 15, where further samples with multicorer and gravity corer were taken. Seismic acquisition started on March 15 in the afternoon until morning next day, where we stopped for sampling with multicorer and gravity corer. Seismic acquisition commenced around noon of March 16, but was disturbed by intense fishing activities, and thus plans had to be

adjusted. Surveying was successfully continued on the Eastern Shelf until the afternoon of March 17, when we started sampling with multicorer and gravity corer. Afterwards, we continued surveying in the eastern part of the Bengal Shelf between the given points. Due to the deficits of the sampling location, we submitted a proposal to the Bangladesh authorities on March 19 to modify/add 4 sampling locations, which were a minimum requirement for a successful cruise.

Seismic surveying now extended across the shelf until March 22, when we had to interrupt work for a medical emergency in order to hand over a member of the crew to medical care in Chittagong, the port of Bangladesh. However, we had to wait for very long time, until around noon on March 23 the patient could be disembarked and taken to a hospital. The arrival had a number of administrative consequences that lasted until the late afternoon of March 24. Only then were we able to leave and return to our working area. In the meantime, our application for a few new sampling points was luckily granted after 5 days of waiting. As a result, we were able to head straight to two geological stations at the delta front. Sampling on Sunday night, March 25, turned out to be very successful. This station work was then followed by several days of seismic work starting on the morning of March 25. On March 28, we retrieved the seismic gear again and continued with a longer Parasound survey, in the middle of which another sampling was done.

In the night of March 29, we reached the Swatch of No Ground shelf canyon again with sediment echosounder, this time taking another gravity corer and water samples. This was followed by the additionally requested Parasound survey of about 10 hours duration.

At noon on March 29, we then deployed the seismic equipment one last time on the shelf until the morning of March 31, when we retrieved the mooring. The mooring station was then sampled again with CTD, multicorer and gravity corer before moving on to an additional station which we left in the evening of March 31 for international waters.

We made use of our way back to Colombo, after a transit through the Indian EEZ, to collect multibeam and sediment echosounder data from the evening of April 1 onwards.

Seismic gear was deployed on April 3 around noon time for the last two days of surveying. Right after noon time on April 5, seismic acquisition was finished with success, and we left for two more hours of hydroacoustic work, until we terminated all data acquisition when we entered the EEZ of Sri Lanka. Arrival at the port of Colombo took place in the morning on April 7 in Colombo.

## **Acknowledgements**

We thank Master Oliver Meyer and the crew of the R/V SONNE for their excellent support and helpfulness during cruise SO304. We gratefully acknowledge the PTJ/BMBF for funding this expedition in the Project SO304-BENGAL Shelf (03G0304A). We also thank the Leitstelle Deutsche Forschungsschiffe, Institute of Geology, University of Hamburg their comprehensive support of the cruise.

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## Station Lists

### Sediment sampling stations

GeoB #	Ship #	Device	Lat (N)	Long (E)	WD (m)	Recovery (cm)
25801-1	SO304-3-1	GC-3	8°093	85°51.527	3,772	31
25803-1	SO304-6-1	MUC	16°32.802	87°45.091	2,561	
25804-1	SO304-7-1	MUC	16°32.676	87°45.731	2,612	
25804-2	SO304-12	GC-6	16°32.779	87°45.722	2,610	142
25805-1	SO304-8_1	MUC	16°38.912	87°43.959	2,604	
25806-1	SO304-9_1	MUC	16°38.886	87°43.626	2,541	
25807-1	SO304-10-1	MUC	16°28.858	87°46.164	2,570	
25808-1	SO304-11-1	MUC	16°29.148	87°46.144	2,616	
25808-2	SO304-11-2	GC-3	16°29.154	87°46.150	2,618	empty
25809-1	SO304-13-1	GC-12	16°35.892	87°57.154	2,607	571
25810-1	S304-16-1	GC-12	16°44.914	90°32.886	2,385	572
25811-1	SO304-17-1	GC-12	16°45.953	90°25.378	2,386	628
25812-1	SO304-19-1	MUC	15°8.991	87°36.078	2,823	
25812-2	SO304-19-2	GC-6	15°8.989	87°36.085	2,824	empty, laid down
25812-3	SO304-19-3	GC-6	15°8.979	87°36.084	2,825	empty, laid down
25813-1	SO304-20-1	MUC	15°11.225	87°35.011	2,822	
25814-1	SO304-21-1	MUC	15°14.407	87°30.768	2,819	
25815-1	SO304-22-1	MUC	15°14.408	87°32.273	2,806	
25815-2	SO304-25-1	GC-6	15°14.42	87°32.278	2,808	empty, bent
25816-1	SO304-23-1	MUC	15°20.036	87°35.637	2,805	
25817-1	SO-304-24-1	MUC	15°19.905	87°34.785	2,791	
25817-2	SO304-24-2	GC-6	15°19.907	87°34.78	2,789	106
25818-1	SO304-27-1	GC-6	14°52.238	87°19.254	2,906	103
25818-2	SO304-27-2	GC-6	14°52.245	87°19.259	2,907	251
25819-1	SO304-28-1	MUC	14°55.161	87°16.304	2,907	
25820-1	SO304-29-1	MUC	14°58.671	87°20.771	2,884	
25821-1	SO304-30-1	MUC	14°58.583	87°23.599	2,881	
25822-1	SO304-32-1	GC-12	15°59.367	87°42.054	2,699	374
25823-1	SO304-33-1	GC-12	15°55.983	87°43.234	2,717	418
25824-2	SO304-34-2	MUC	21°10.081	89°23.998	588	
25824-3	SO304-34-3	GC-6	21°10.086	89°23.994	586	185
25824-7	SO304-50-3	MUC	21°10.088	89°24.003	586	
25824-8	SO304-50-4	GC-6	21°10.086	89°24.001	586	empty, bent
25825-2	SO304-35-2	MUC	21°19.804	89°33.901	323	
25825-3	SO304-35-3	GC-12	21°19.81	89°33.902	322	346
25825-5	SO304-48-2	GC-6	21°19.799	89°33.909	304	340
25828-1	SO304-37-1	GC-12	21°10.024	89°23.771	595	761
25828-2	SO304-37-2	GC-12	21°10.022	87°23.764	593	759
25828-3	So304-37-3	GC-12	21°10.032	87°23.76	595	758
25828-4	SO304-37-4	MUC	21°10.031	87°23.761	588	
25829-1	SO304-38-1	GC-12	21°19.805	89°34.046	265	636
25829-2	SO304-38-2	GC-12	21°19.81	89°34.054	266	719
25829-3	SO304-38-3	GC-12	21°19.81	89°34.06	267	655
25829-4	SO304-38-4	MUC	21°19.811	89°34.057	268	
25830-1	SO304-40-1	MUC	21°0	90°50.001	62	
25830-2	SO304-40-2	GC-6	21°0.003	90°50	62	empty, bent

25830-3	SO304-40-3	GC-3	21°002	90°50.006	63	33, laid down
25831-1	SO304_42_1	MUC	20°42.001	91°59.999	30	
25831-2	SO304-42-2	GC-6	20°42.004	91°59.9947	30	441
25831-3	SO304-42-3	GC-6	20°42.001	91°59.987	30	412
25832-1	SO304-44-1	MUC	21°7.604	91°32.243	40	
25832-2	SO304-44-2	GC-12	21°7.605	91°32.243	38	719
25832-3	SO304-44-3	GC-12	21°7.610	91°32.238	37	583
25833-1	SO304-45-1	MUC	20°54.482	91°9725	77	
25833-2	SO304-45-1	GC-12	20°54.454	91°9.756	77	581
25833-3	SO304-45-3	GC-12	20°54.455	91°9.756	77	623
25834-1	SO304-47-1	MUC	21°2.181	90°14.028	85	
25834-2	SO304-47-2	GC-12	21°2.172	90°14.017	85	empty
25834-3	SO304-47-3	GC-6	21°2.172	90°14.017	85	<20, bent
25834-4	SO304-47-4	GC-6	21°2.546	90°14.387	83	empty
25835-1	SO304-51-1	GC-12	21°15.761	89°28.368	389	720
25835-2	SO304-51-2	MUC	21°15.761	89°28.364	391	
25835-3	SO304-51-3	GC-12	21°15.763	89°28.365	391	748
25835-4	SO304-51-4	MUC	21°15.762	89°28.304	409	

## Profiles and Stations

Station No.	Profile Station No.	Start				End			
		Date	Time	Latitude	Longitude	Date	Time	Latitude	Longitude
		UTC	UTC	North	East	UTC	UTC	North	East
		dd.mm.	HH:MM	xx° xx′	xxx° xx′	dd.mm.	HH:MM	xx° xx′	xxx° xx′
SONNE		2024				2024			
SO304_2-1	001	24.02.	20:58	07°49.368'	086°03.378'	24.02.	22:57	07°50.765'	086°13.152'
SO304_2-1	002	24.02.	23:09	07°51.502'	089°13.770'	25.02.	23:53	07°55.213'	086°13.656'
SO304_2-1	003	25.02.	00:03	07°55.757'	086°13.278'	25.02.	05:05	07°55.711'	085°47.310'
SO304_4-1	004	26.02.	13:37	11°39.393'	086°48.664'	26.02.	16:44	11°53.050'	086°40.493'
SO304_4-1	005	26.02.	16:49	11°53.542'	086°40.493'	27.02.	00:26	12°23.545'	087°04.564'
SO304_4-1	006	27.02.	00:26	12°23.545'	087°04.564'	27.02.	10:53	13°15.976'	087°08.000'
SO304_4-1	007	27.02.	10:56	13°16.156'	087°08.011'	27.02.	16:48	13°35.237'	087°30.963'
SO304_4-1	008	27.02.	16:49	13°35.422'	087°30.983'	27.02.	22:27	14°03.737'	087°30.530'
SO304_15-1	009	01.03.	16:44	16°34.924'	087°48.847'	01.03.	18:24	16°35.931'	087°57.560'
SO304_15-1	010	01.03.	18:24	16°35.931'	087°57.560'	03.03.	00:41	16°45.054'	090°35.210'
SO304_18-1	011	03.03.	16:59	15°59.996'	090°13.790'	05.03.	09:04	15°10.681'	086°58.259'
SO304_26-1	012	07.03.	15:44	15°16.259'	087°32.692'	07.03.	19:33	14°57.040'	087°31.990'
SO304_26-1	013	07.03.	19:40	14°56.723'	087°31.364'	07.03.	23:22	14°56.901'	087°12.240'
SO304_26-1	014	07.03.	23:22	14°56.901'	087°12.240'	07.03.	23:42	14°55.344'	087°12.291'
SO304_26-1	015	07.03.	23:47	14°55.193'	087°12.657'	08.03.	02:18	14°55.084'	087°22.177'
SO304_26-1	016	08.03.	02:18	14°55.084'	087°22.177'	08.03.	02:40	14°53.054'	087°25.383'
SO304_26-1	017	08.03.	02:40	14°53.054'	087°25.383'	08.03.	05:17	14°53.205'	087°12.219'
SO304_26-1	018	08.03.	05:17	14°53.205'	087°12.219'	08.03.	06:25	14°58.732'	087°12.296'
SO304_26-1	019	08.03.	06:25	14°58.732'	087°12.296'	08.03.	09:05	14°58.542'	087°26.036'
SO304_26-1	020	08.03.	09:23	14°59.785'	087°25.825'	08.03.	10:55	15°01.270'	087°18.141'
SO304_26-1	021	08.03.	10:56	15°01.260'	087°18.065'	08.03.	11:51	15°00.102'	087°13.392'
SO304_26-1	022	08.03.	12:00	15°00.606'	087°12.955'	08.03.	12:15	15°01.573'	087°13.350'
SO304_26-1	023	08.03.	12:17	15°01.571'	087°13.487'	08.03.	13:10	15°01.111'	087°18.110'
SO304_26-1	024	08.03.	13:10	15°01.111'	087°18.110'	08.03.	13:42	14°58.967'	087°19.776'

SO304_26-1	025	08.03.	14:04	14°58.091'	087°18.264'	08.03.	15:07	15°02.487'	087°14.826'
SO304_26-1	026	08.03.	15:21	15°03.084'	087°15.558'	08.03.	17:43	15°02.646'	087°27.265'
SO304_26-1	027	08.03.	17:57	15°03.400'	087°27.320'	08.03.	19:49	15°04.407'	087°17.639'
SO304_26-1	028	08.03.	19:55	15°04.774'	087°17.505'	08.03.	20:18	15°06.309'	087°18.780'
SO304_26-1	029	08.03.	20:21	15°06.380'	087°18.989'	08.03.	21:46	15°06.188'	087°26.140'
SO304_26-1	030	08.03.	21:50	15°06.041'	087°26.258'	08.03.	22:19	15°03.822'	087°26.835'
SO304_26-1	031	08.03.	22:22	15°03.605'	087°26.707'	08.03.	00:05	14°58.925'	087°19.770'
SO304_26-1	032	09.03.	00:07	14°58.817'	087°19.751'	09.03.	02:57	14°44.828'	087°18.824'
SO304_26-1	033	09.03.	03:05	14°44.910'	087°19.338'	09.03.	04:37	14°49.472'	087°25.222'
SO304_26-1	034	09.03.	04:45	14°49.877'	087°24.977'	09.03.	07:23	14°50.186'	087°11.829'
SO304_31-1	035	10.03.	12:37	15°53.717'	087°34.917'	10.03.	16:26	15°46.195'	087°52.785'
SO304_31-1	036	10.03.	16:26	15°46.195'	087°52.785'	10.03.	19:28	15°54.377'	087°41.438'
SO304_31-1	037	10.03.	19:32	15°54.611'	087°41.483'	10.03.	19:55	15°55.993'	087°42.725'
SO304_31-1	038	10.03.	20:00	15°56.024'	087°43.120'	10.03.	21:53	15°52.707'	087°52.539'
SO304_31-1	039	10.03.	21:59	15°52.785'	087°52.777'	10.03.	22:12	15°54.009'	087°52.739'
SO304_31-1	040	10.03.	22:16	15°54.189'	087°52.555'	10.03.	23:41	15°55.949'	087°47.168'
SO304_31-1	041	10.03.	23:51	15°55.270'	087°46.875'	11.03.	00:38	15°51.615'	087°48.685'
SO304_31-1	042	11.03.	00:42	15°51.673'	087°48.998'	11.03.	01:36	15°54.740'	087°52.239'
SO304_31-1	043	11.03.	01:41	15°55.076'	087°52.075'	11.03.	02:25	15°57.180'	087°49.593'
SO304_31-1	044	11.03.	02:32	15°57.011'	087°49.240'	11.03.	03:19	15°53.951'	087°46.863'
SO304_31-1	045	11.03.	03:26	15°53.471'	087°47.037'	11.03.	04:18	15°52.062'	087°51.770'
SO304_31-1	046	11.03.	04:28	15°52.384'	087°52.124'	11.03.	04:41	15°53.358'	087°52.136'
SO304_31-1	047	11.03.	04:46	15°53.655'	087°51.885'	11.03.	06:17	15°56.390'	087°46.105'
SO304_31-1	048	11.03.	06:17	15°56.390'	087°46.105'	11.03.	07:34	15°59.497'	087°41.835'
SO304_39-1	049	15.03.	10:40	21°20'	089°34'	15.03.	15:40	21°18'	089°59'
SO304_39-1	050	15.03.	15:40	21°18'	089°59'	16.03.	01:51	21°00'	090°50'
SO304_41-1	051	16.03.	05:48	21°00'	090°50'	16.03.	08:57	21°02'	091°06'
SO304_41-1	052	16.03.	08:57	21°02'	091°06'	16.03.	09:19	21°00'	091°06'
SO304_41-1	052A	16.03.	09:19	21°00'	091°06'	16.03.	10:35	20°54'	091°05'
SO304_41-1	052B	16.03.	10:35	20°54'	091°05'	16.03.	11:06	20°52'	091°06'
SO304_41-1	052C	16.03.	11:06	20°52'	091°06'	16.03.	11:31	20°51'	091°04'
SO304_41-1	053	16.03.	11:31	20°51'	091°04'	16.03.	14:29	20°43'	091°00'
SO304_41-1	054	16.03.	14:29	20°43'	091°00'	17.03.	00:52	20°03'	091°35'
SO304_41-1	055	17.03.	01:17	20°03'	091°35'	17.03.	10:50	20°42'	092°00'
SO304_43-1	056	17.03.	14:27	20°42'	092°00'	17.03.	20:45	21°05'	091°41'
SO304_43-1	057	17.03.	20:45	21°05'	091°41'	17.03.	21:09	21°05'	091°37'
SO304_43-1	058	17.03.	21:13	21°05'	091°37'	18.03.	11:07	20°03'	091°35'
SO304_43-1	059	18.03.	11:07	20°03'	091°35'	19.03.	15:13	21°19.9'	089°34'
SO304_43-1	060	19.03.	15:13	21°19.9'	089°34'	20.03.	03:36	20°35'	089°20'
SO304_43-1	061	20.03.	04:16	20°35'	089°20'	21.03.	10:52	20°42'	092°00'
SO304_43-1	062	21.03.	11:45	20°42'	092°00'	22.03.	05:46	20°22'	090°44'
SO304_46-1	063	25.03.	07:39	20°42'	092°00'	25.03.	21:57	21°00'	090°50'
SO304_46-1	064	25.03.	21:57	21°00'	090°50'	26.03.	08:43	20°17'	090°07'
SO304_46-1	064A	26.03.	08:43	20°17'	090°07'	26.03.	10:26	20°10'	090°00'
SO304_46-1	065	26.03.	10:49	20°10'	090°00'	26.03.	12:27	20°19'	090°00'
SO304_46-1	065A	26.03.	12:27	20°19'	090°00'	26.03.	23:09	21°18'	090°00'
SO304_46-1	066	26.03.	23:30	21°18'	090°00'	27.03.	10:05	20°35'	089°20'
SO304_46-1	067	27.03.	10:33	20°35'	089°20'	28.03.	05:17	21°00'	090°50'
SO304_49-1	068	29.03.	09:13	21°10'	089°24'	29.03.	21:38	20°10'	090°00'
SO304_49-1	069	29.03.	21:41	20°10'	090°00'	30.03.	06:55	20°24'	090°53'
SO304_49-1	070	30.03.	07:01	20°24'	090°53'	31.03.	00:11	21°10'	089°24.05'
SO304_52-1	071	03.04.	05:02	10°20.057	086°28.917	03.04.	22:26	09°11.605	085°21.817

SO304_52-1	072	03.04.	22:33	09°11.087	085°22.071	04.04.	14:51	08°35.774	086°43.781
SO304_52-1	073	04.04.	14:56	08°35.337	086°43.651	05.04.	07:47	07° 24,674' N	085°40.502'

## CTD Stations

GeoB #	Ship #	Device	Lat (N)	Long (E)	Date
25802-1	SO304_5-1	CTD	16.2606°	87.8811°	28.02.2024
25824-1	SO304_34-1	CTD	21.1681°	89.4001°	13.03.2024
25824-6	SO304_50-2	CTD	21.1682°	89.4000°	31.03.2024
25825-1	SO304_35-1	CTD	21.3299°	89.5601°	13.03.2024
25825-4	SO304_48-1	CTD	21.3300°	89.5602	28.03.2024

## Mooring

GeoB #	Ship #	Device	Lat (N)	Long (E)	Deployment	Retrieval
25824-4	SO304_34-4	Mooring	21.1681°	89.3987°	13.03.2024	31.03.2024