

Photographs of bottom at the Emperor Seamounts

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Drop Camera Survey

- 28 times of drop camera survey were conducted in 2008.
- Drop camera could not dive over 2500m depth.
- Drop camera system have light, video camera, and digital camera.

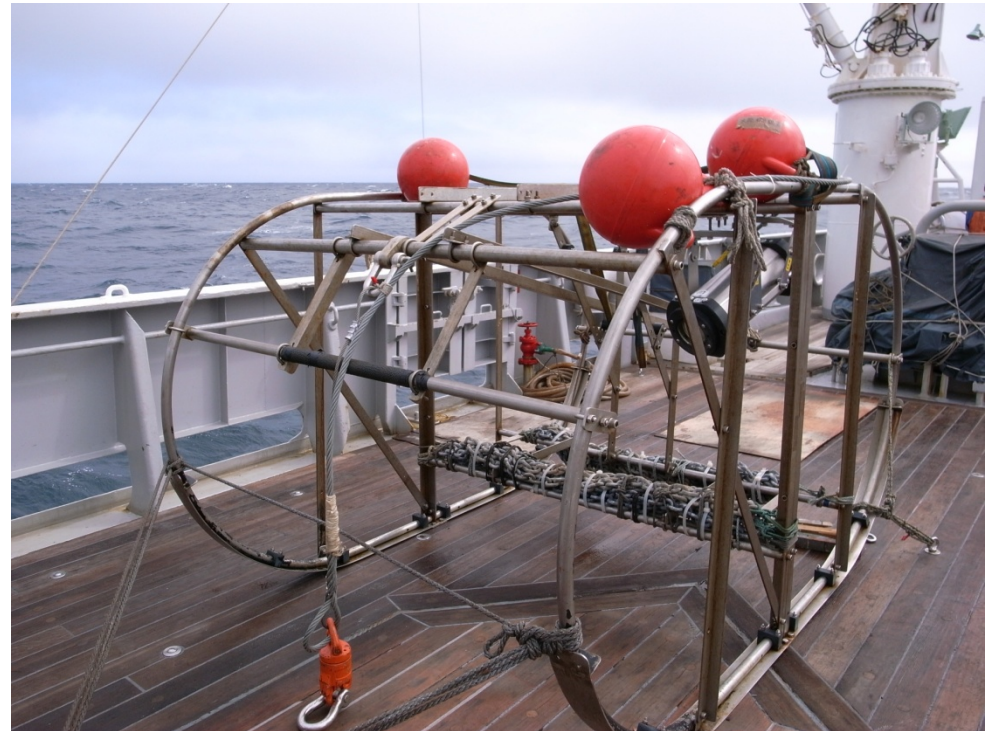


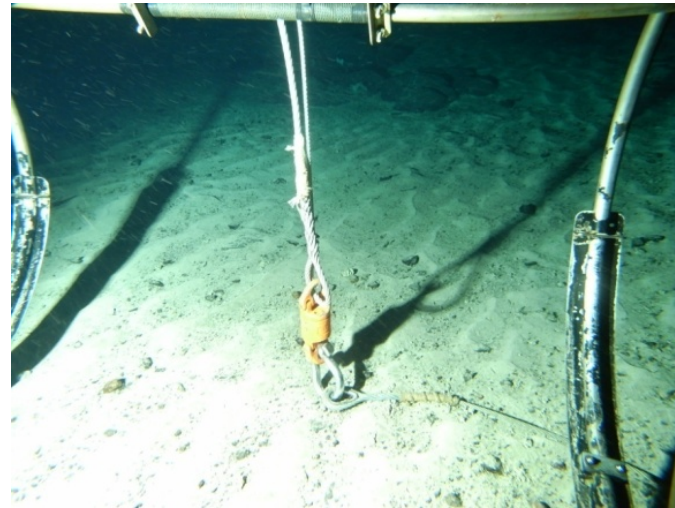
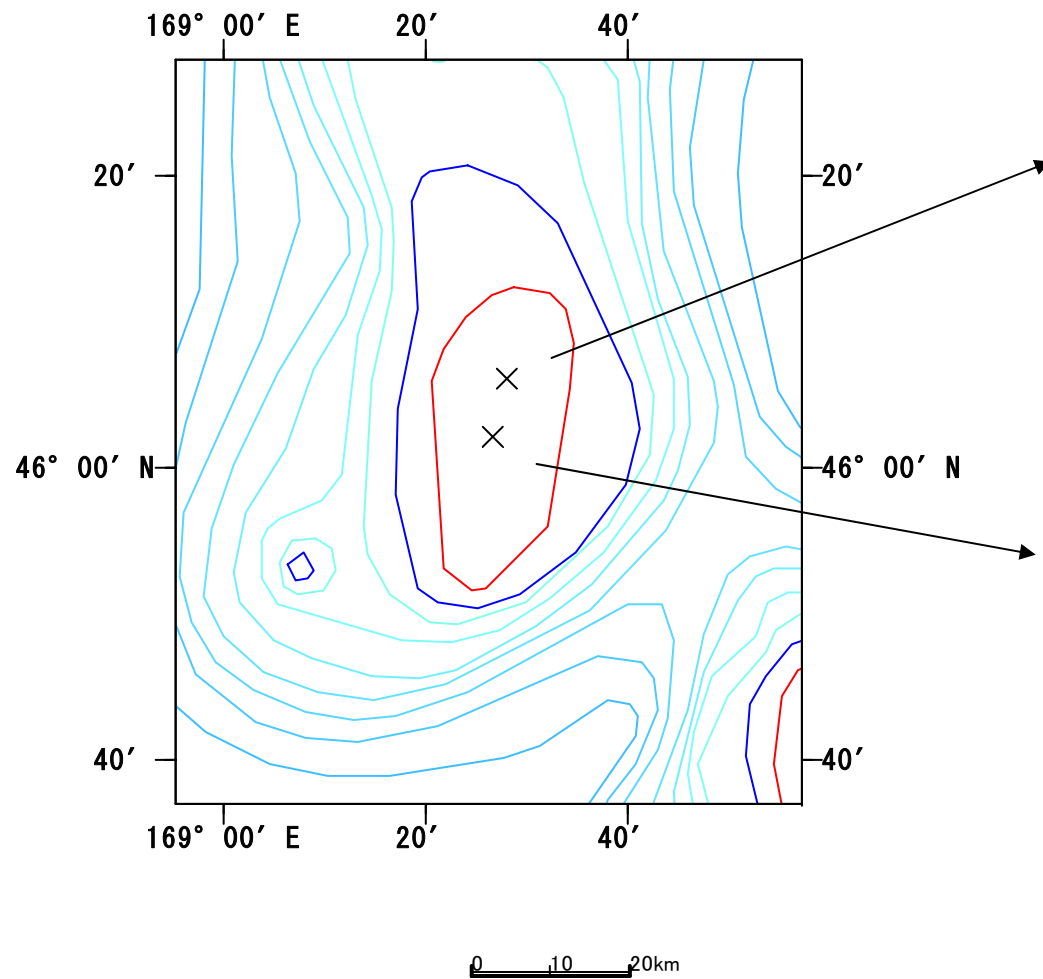
Table1 Information of ndrop camera survey in 2008.

Station	Seamount		GMT		Position		Wire Length (m)	Depth (m)	BWT (°C)	Memo
			Date	Time	Lat.	Long.				
St1	Jinmu	Observation start	2008/6/29	0:40:02	46-06.18 N	169-27.87 E	1370	1279.07	2.23	Video ×
		Observation stop	2008/6/29	1:13:16	46-06.33 N	169-29.00 E		1278.93	2.23	Camera ○
St2	Jinmu	Observation start	2008/6/30	2:40:46	46-02.19 N	169-26.63 E	1420	1308.95	2.18	Video ×
		Observation stop	2008/6/30	2:51:49	46-02.19 N	169-26.68 E		1309.09	2.21	Camera ○
St3	N bank of Suiko	Observation start	2008/7/2	0:26:32	45-41.48 N	170-01.27 E	1450	1365.78	2.16	Video ×
		Observation stop	2008/7/2	0:36:32	45-41.46 N	170-01.25 E		1365.71	2.15	Camera ○
St4	S bank of Suiko	Observation start	2008/7/3	22:16:49	44-30.54 N	170-13.20 E	1285	1169.57	2.27	Video ○
		Observation stop	2008/7/3	22:26:48	44-30.49 N	170-13.18 E		1169.6	2.27	Camera ○
St5	S bank of Suiko	Observation start	2008/7/5	0:12:58	44-34.10 N	170-16.79 E	1270	1167.73	2.47	Video ○
		Observation stop	2008/7/5	0:23:36	44-34.12 N	170-16.89 E		1167.38	2.47	Camera ○
St6	Showa	Observation start	2008/7/6	22:37:04	43-05.21 N	170-29.83 E	1760	1657.83	2.04	Video ○
		Observation stop	2008/7/6	22:47:09	43-05.26 N	170-29.95 E		1657.79	2.11	Camera ○
St7	Youmei	Observation start	2008/7/8	22:18:25	42-22.71 N	170-30.47 E	1470	1387.21	2.44	Video ×
		Observation stop	2008/7/8	22:28:26	42-22.72 N	170-30.48 E		1386.72	2.44	Camera ○
St8	Youmei	Observation start	2008/7/10	1:06:26	42-25.52 N	170-38.65 E	1950	1853.12	2.09	Video ○
		Observation stop	2008/7/10	1:12:00	42-25.51 N	170-38.67 E		1853.05	2.1	Camera ×
St9	Youmei	Observation start	2008/7/11	0:02:34	42-26.79 N	170-40.72 E	1980	1852.57	2.06	Video ○
		Observation stop	2008/7/11	0:17:28	42-26.80 N	170-40.73 E		1852.53	2.06	Camera ×
St10	C-H	Observation stop	2008/7/27	2:36:21	30-22.38 N	177-33.68 E	570	346.28	13.47	No Camera
		Observation start	2008/7/27	5:50:08	30-22.80 N	177-32.94 E		508.73	10.6	Video ○
St11	C-H	Observation stop	2008/7/27	6:00:08	30-22.78 N	177-32.89 E	750	508.59	10.61	Camera ×
		Observation start	2008/7/27	21:43:43	30-22.51 N	177-34.75 E		686.36	6.54	Video ○
St12	C-H	Observation stop	2008/7/27	21:54:17	30-22.51 N	177-34.76 E	770	685.15	6.59	Camera ○
		Observation start	2008/7/28	21:54:07	31-02.32 N	175-55.26 E		756.86	5.55	Video ○

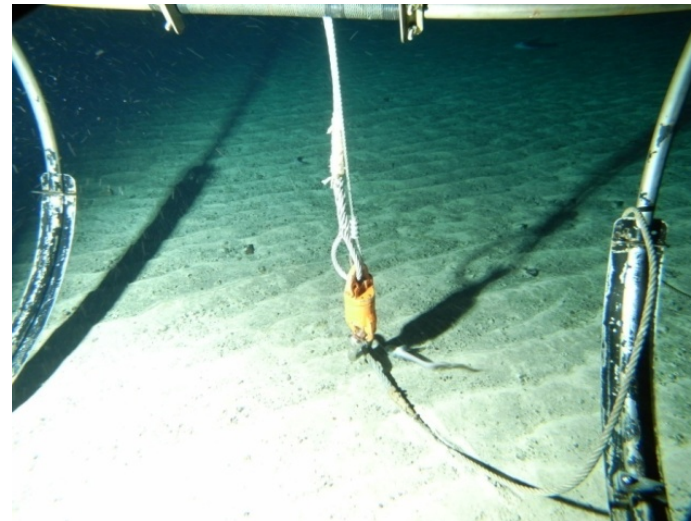
Table1 Continued.

Station	Seamount		GMT		Position			Wire Length (m)	Depth (m)	BWT (°C)	Memo	
			Date	Time	Lat.	Long.						
St13	Colahan	Observation stop	2008/7/28	22:04:08	31-02.34	N	175-55.21	E		707.47	6.28	Camera ×
		Observation start	2008/7/29	1:40:03	30-59.78	N	175-52.84	E	1150	1070.82	3.64	Video○
St14	Colahan	Observation stop	2008/7/29	1:50:19	30-59.76	N	175-52.84	E		1070.3	3.53	Camera○
		Observation start	2008/7/31	0:00:34	32-06.23	N	173-01.19	E	630	560.88	6.02	Video○
St16	Kammu	Observation stop	2008/7/31	0:10:37	32-06.22	N	173-01.20	E		560.78	6.01	Camera○
		Observation start	2008/7/31	6:40:06	32-07.43	N	172-58.86	E	770	679.85	4.89	Video○
St17	Kammu	Observation stop	2008/7/31	6:50:07	32-07.46	N	172-58.88	E		679.3	4.82	Camera○
		Observation start	2008/8/1	21:22:21	32-09.79	N	172-56.75	E	760	688.91	4.25	Video○
St19	Kammu	Observation stop	2008/8/1	21:32:32	32-09.77	N	172-56.72	E		688.05	4.18	Camera○
		Observation start	2008/8/2	0:06:58	32-10.00	N	172-57.87	E	777	694.6	4.17	Video○
St20	Kammu	Observation stop	2008/8/2	0:17:02	32-09.99	N	172-57.84	E		706.72	4.16	Camera○
		Observation start	2008/8/3	21:14:02	32-41.49	N	172-16.60	E	400	406.3	8.55	Video○
St22	Yuryaku	Observation stop	2008/8/3	21:24:10	32-41.50	N	172-16.60	E		406.26	8.41	Camera ×
		Observation start	2008/8/3	23:23:46	32-41.50	N	172-17.24	E	412	410.26	8.35	Video○
St23	Yuryaku	Observation stop	2008/8/3	23:33:49	32-41.49	N	172-17.24	E		410.19	8.36	Camera○
		Observation start	2008/8/4	21:42:24	34-57.29	N	171-38.70	E	1299	1299.44	2.76	Video○
St24	Koko	Observation stop	2008/8/4	21:52:41	34-57.35	N	171-38.79	E		1299.33	2.75	Camera○
		Observation start	2008/8/5	1:21:31	34-56.21	N	171-36.98	E	1075	1082.58	3.29	Video○
St25	Koko	Observation stop	2008/8/5	1:31:31	34-56.20	N	171-36.97	E		1081.22	3.22	Camera○
		Observation start	2008/8/6	0:21:26	35-27.00	N	171-47.20	E	409	415.82	10.86	Video○
St27	Koko	Observation stop	2008/8/5	23:46:58	35-26.98	N	171-47.05	E		415.79	10.81	Camera○
		Observation start	2008/8/6	2:07:54	35-27.52	N	171-47.17	E	490	416.83	9.86	Video○
St28	Koko	Observation stop	2008/8/6	2:17:58	35-27.54	N	171-47.18	E		416.76	9.92	Camera○
		Observation start	2008/8/6	21:22:26	35-36.73	N	171-02.98	E	750	725.8	4.56	Video○
St29	Koko	Observation stop	2008/8/6	21:32:28	35-36.75	N	171-02.98	E		725.08	4.47	Camera○
		Observation start	2008/8/7	0:24:51	35-36.73	N	171-05.62	E	675	645.19	5.33	Video○
St30	Koko	Observation stop	2008/8/6	23:39:02	35-36.50	N	171-05.48	E		644.46	5.01	Camera○
		Observation start	2008/8/7	0.898021	35-43.00	N	171-26.97	E	1175	1173.08	3.22	Video○

Jinmu Seamount

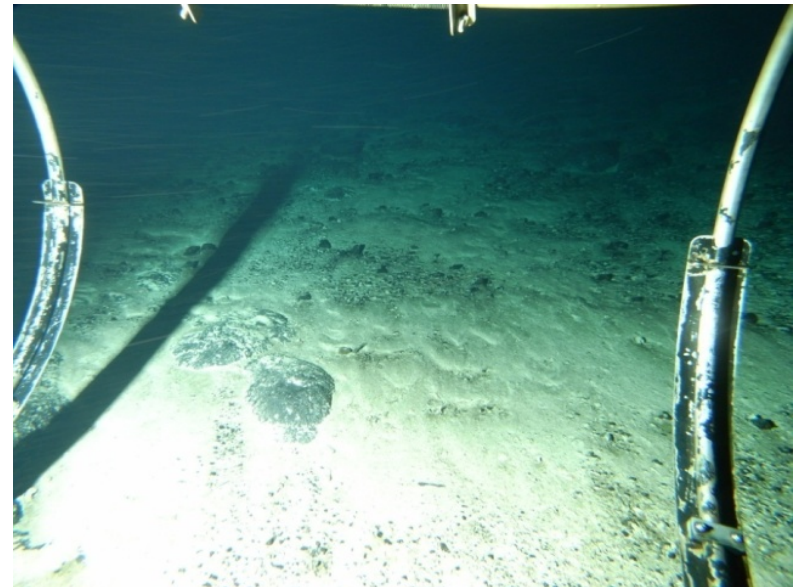
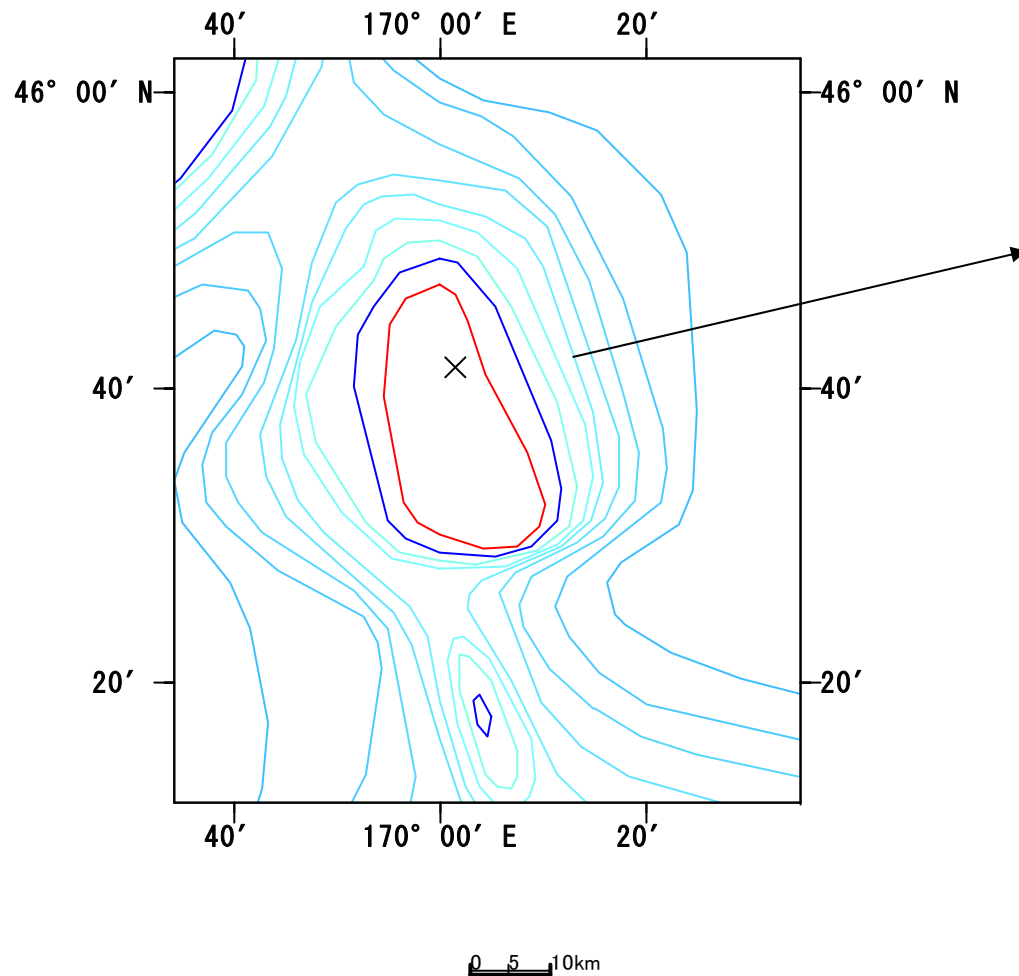


St1 2008/6/29,
46-06.18N, 169-27.87E,
Depth: 1279.07m



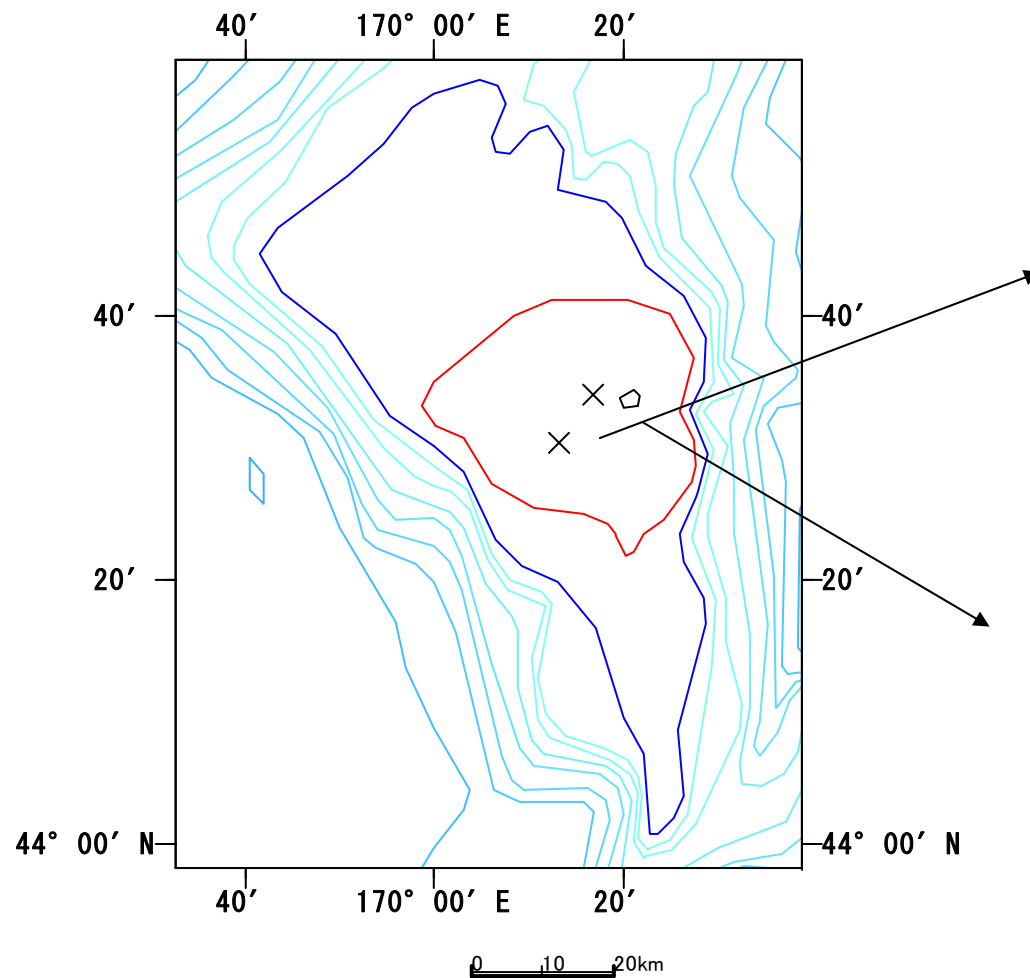
St2 2008/6/30,
46-02.12N, 169-26.17E,
Depth: 1308.95m

North bank of Suiko (Seamount A)

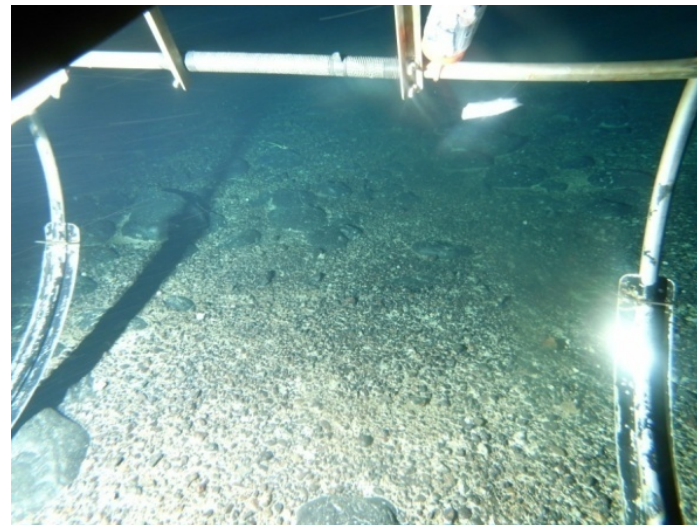


St3 2008/7/2,
45-41.56N, 170-01.47E,
Depth: 1365.78m

South bank of Suiko

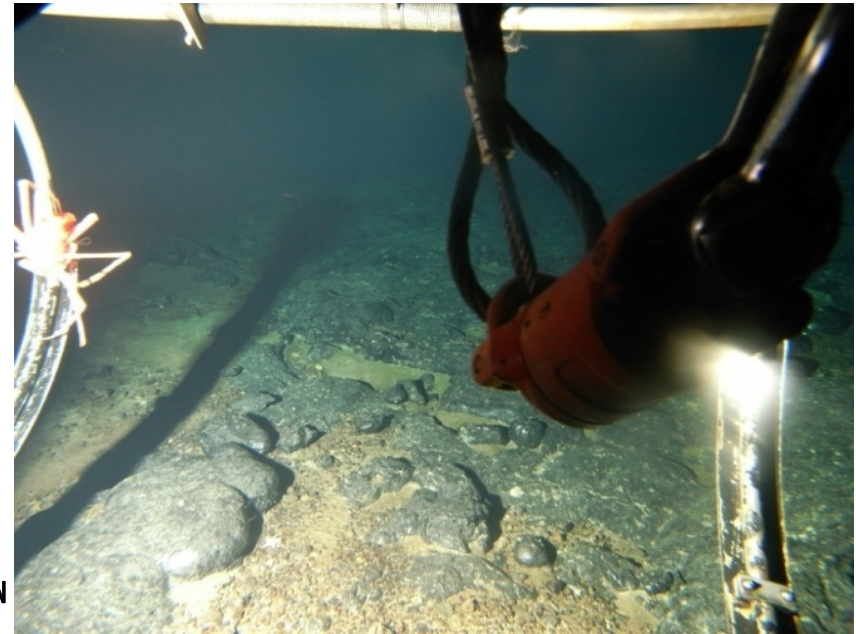
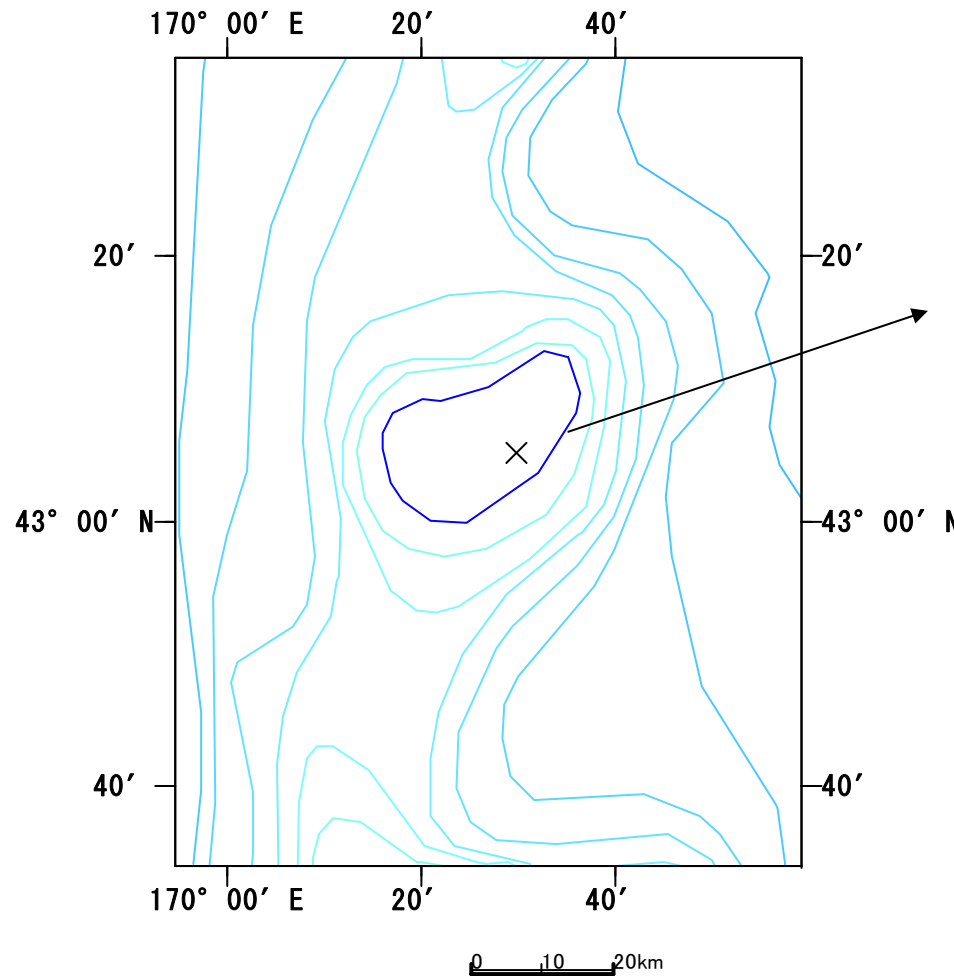


St4 2008/7/4,
44-30.72N, 170-12.55E, Depth:
1169.57m



St5 2008/7/5,
44-34.06N, 170-16.77E, Depth: 1167.73m

Showa (Seamount B)

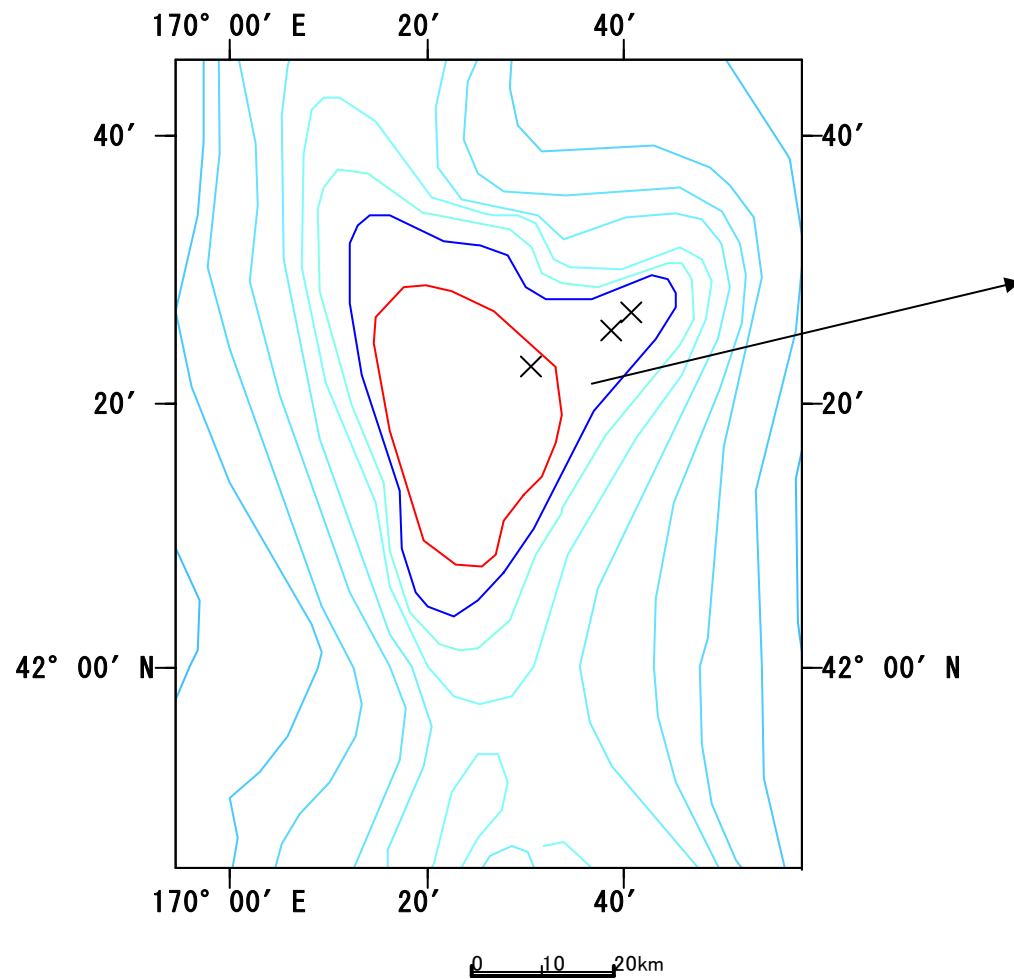


St6 2008/7/7

43-05.01N, 170-29.60E,

Depth: 1657.83m

Youmei Seamount

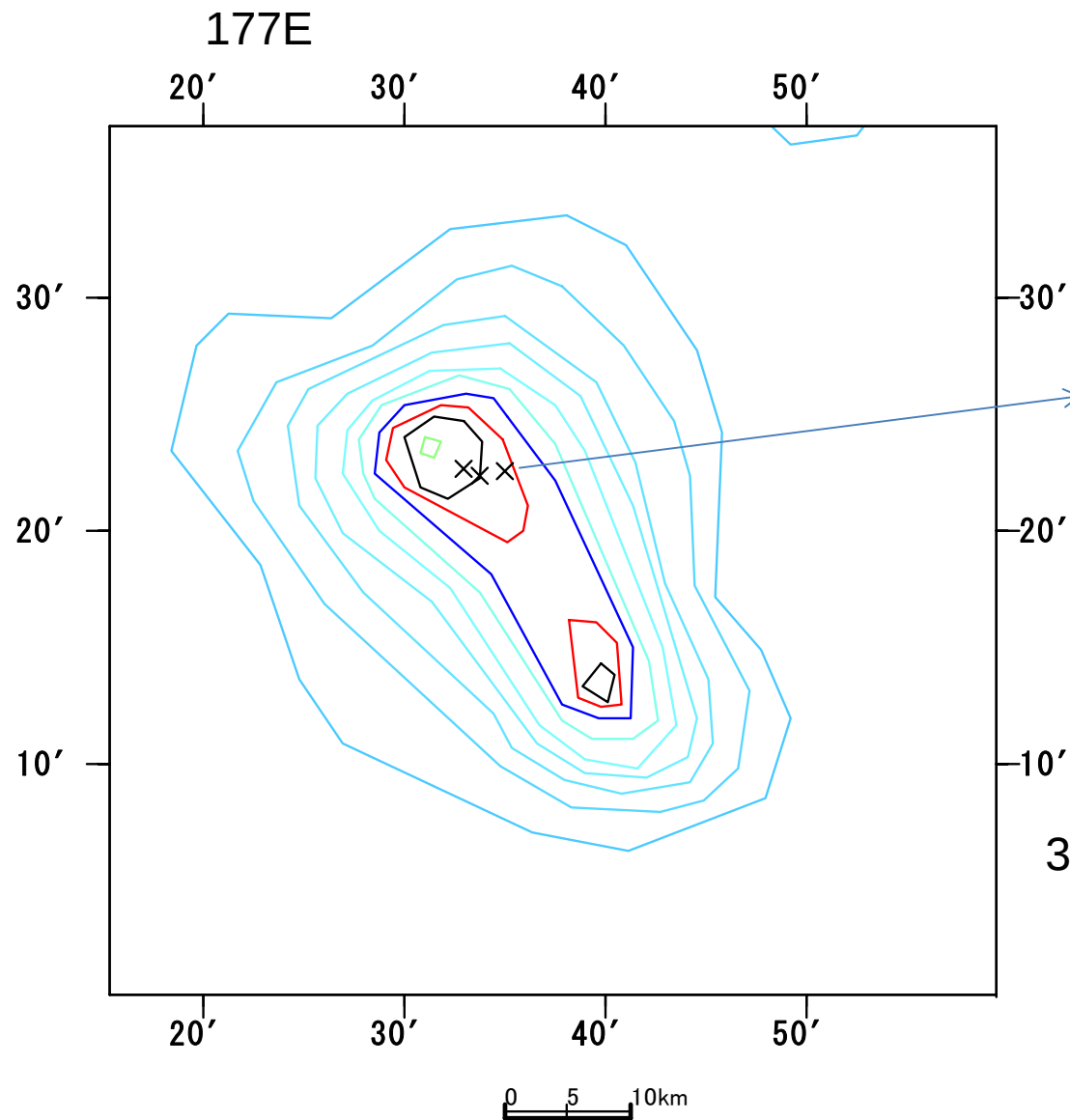


St7 2008/7/9

42-22.64N, 170-30.40E,

Depth: 1387.21m

C-H Seamount



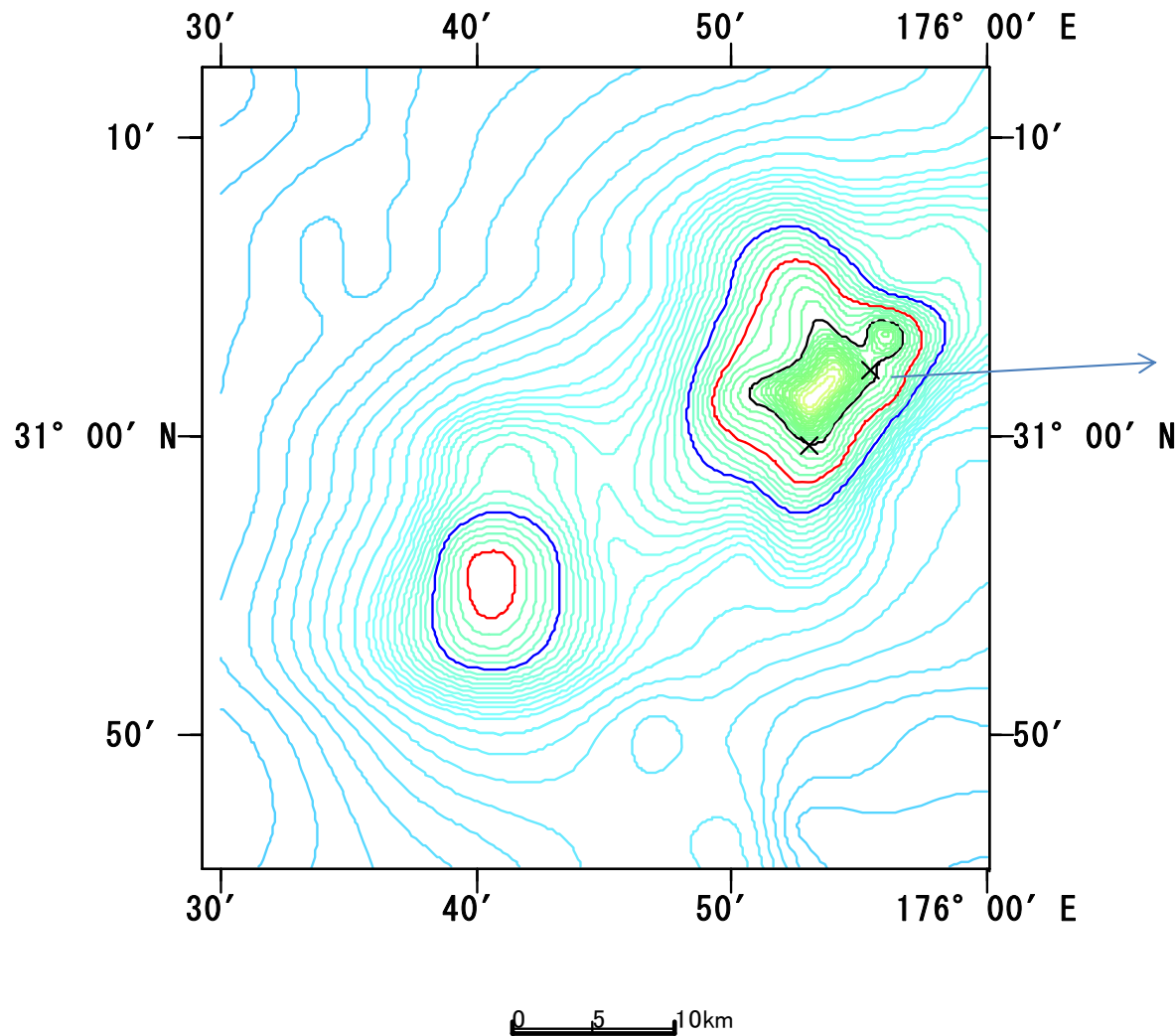
St12 2008/7/28
30-22.51N, 177-35.00E
Depth: 686.36m



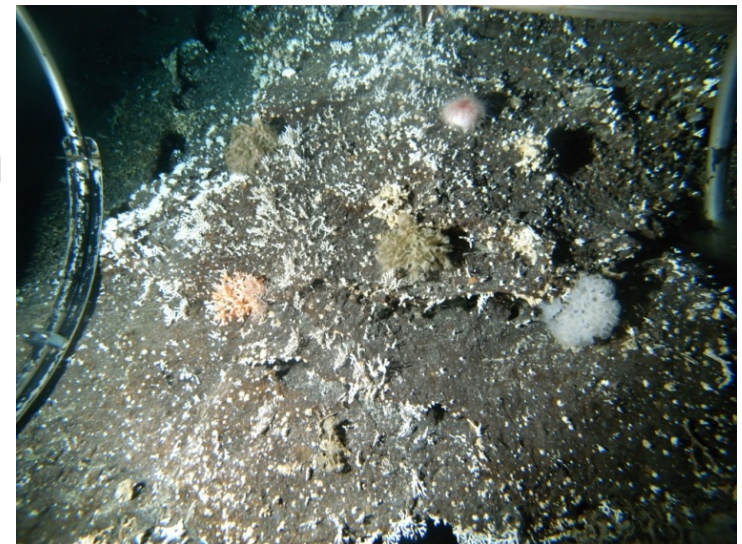
30N

Depth Line
Black: 1000m
Red: 1500m
Blue: 2000m

Colahan Seamount

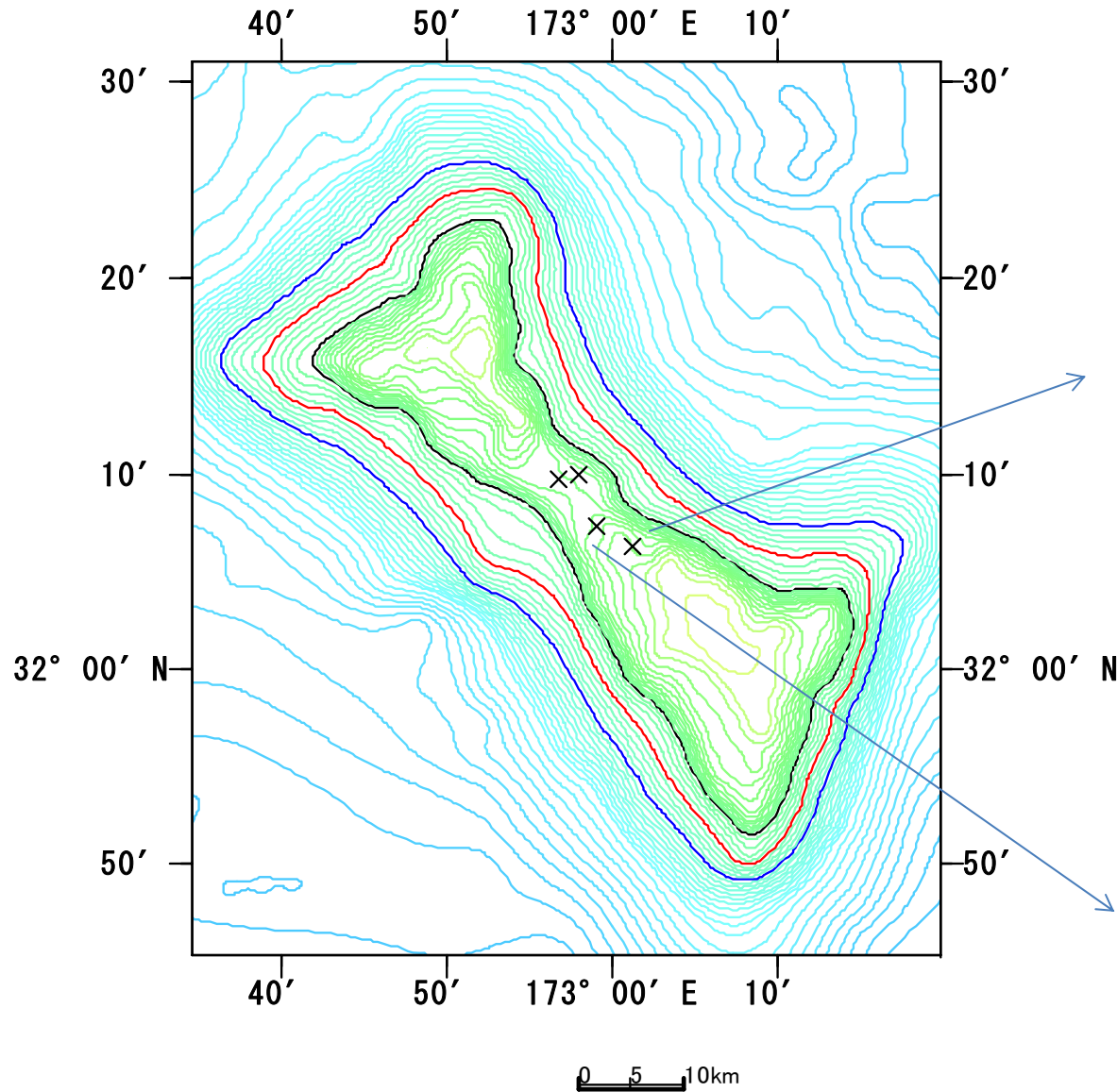


St14 2008/7/29
31-02.24N, 175-55.46E
Depth: 756.86m

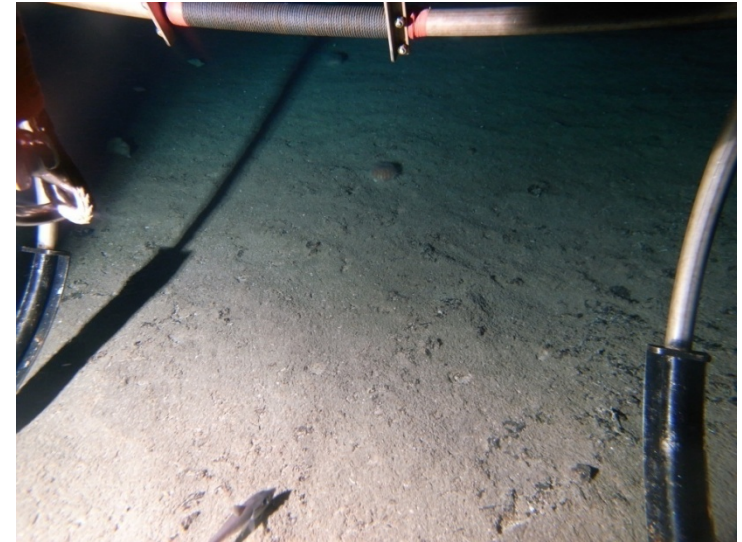


Depth Line
Black: 1000m
Red: 1500m
Blue: 2000m

Kammu Seamount 1



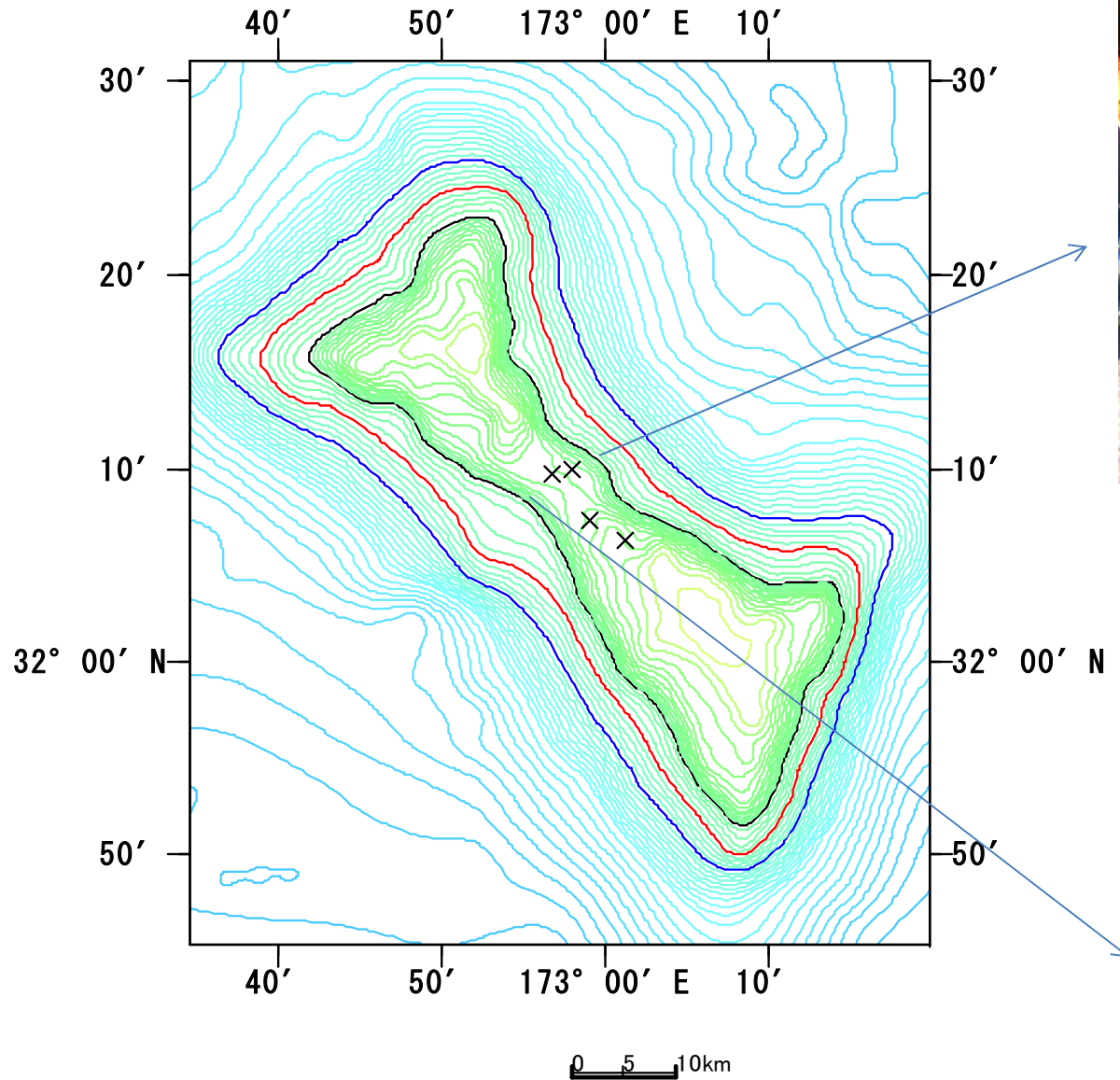
St16 2008/7/31
32-06.28N, 173-01.27E
560.88m



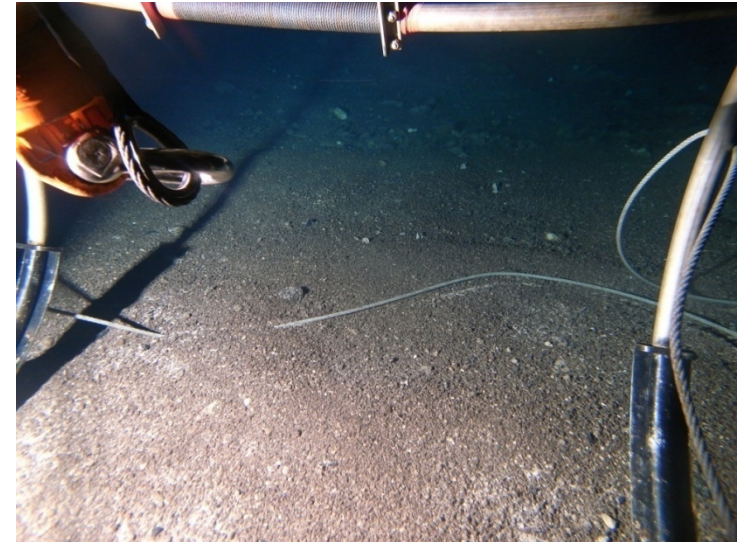
St17 2008/7/31
32-07.32N, 172-59.11E
679.85m



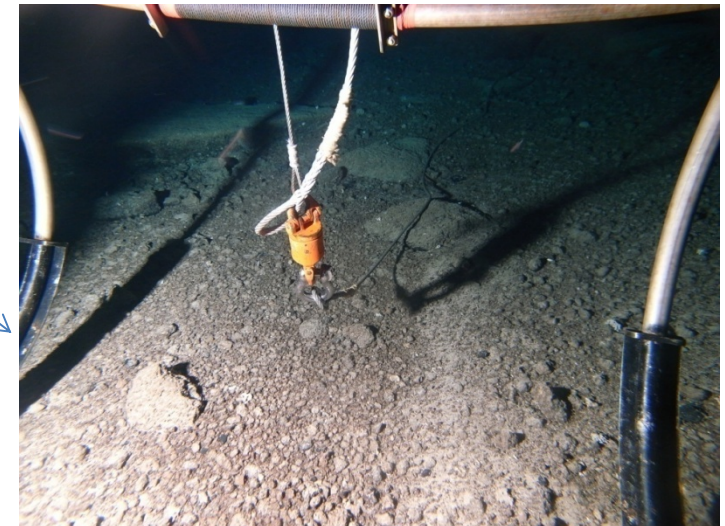
Kammu Seamount 2



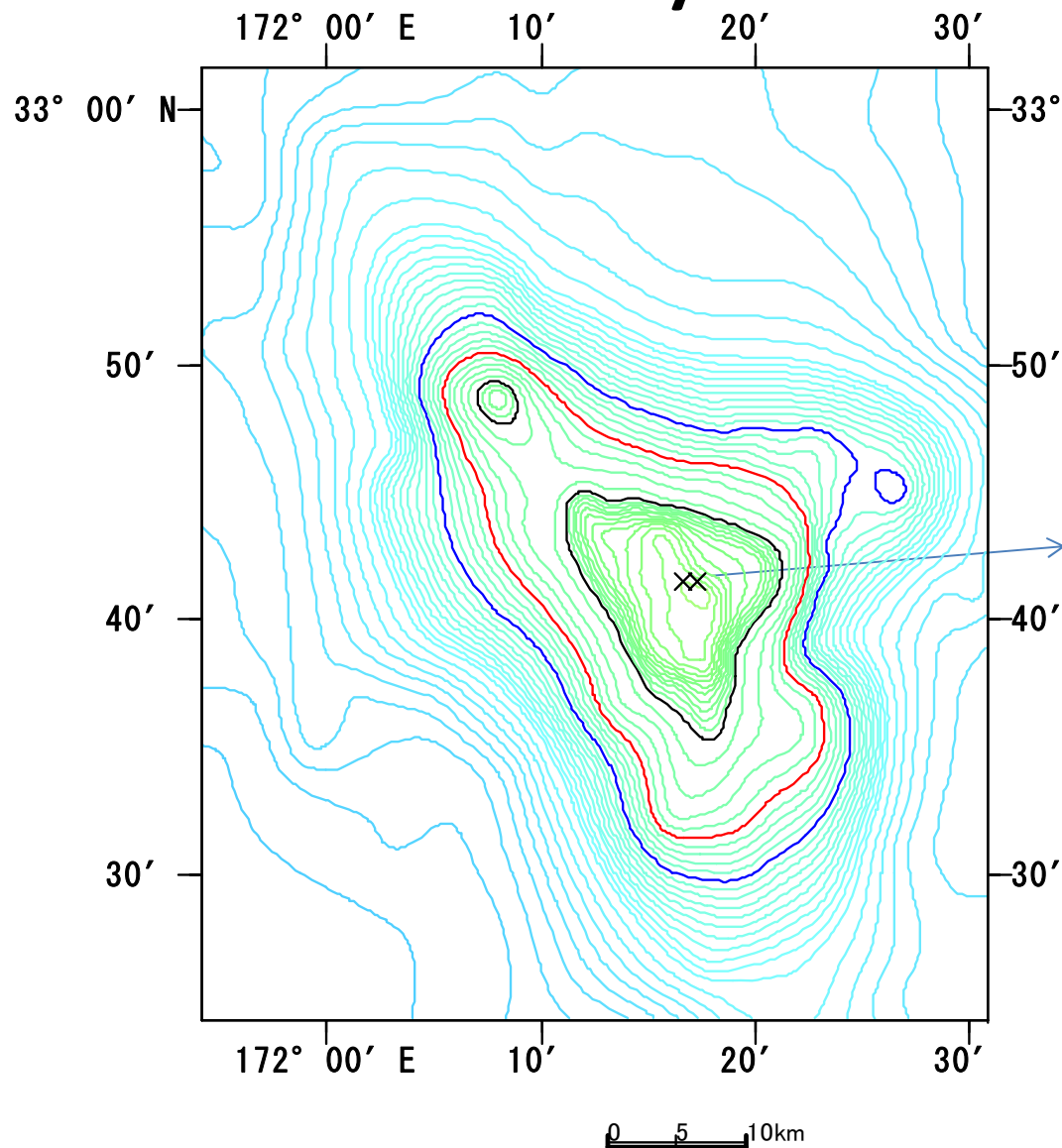
St20 2008/8/2
32-09.99N, 172-57.92E
694.6m



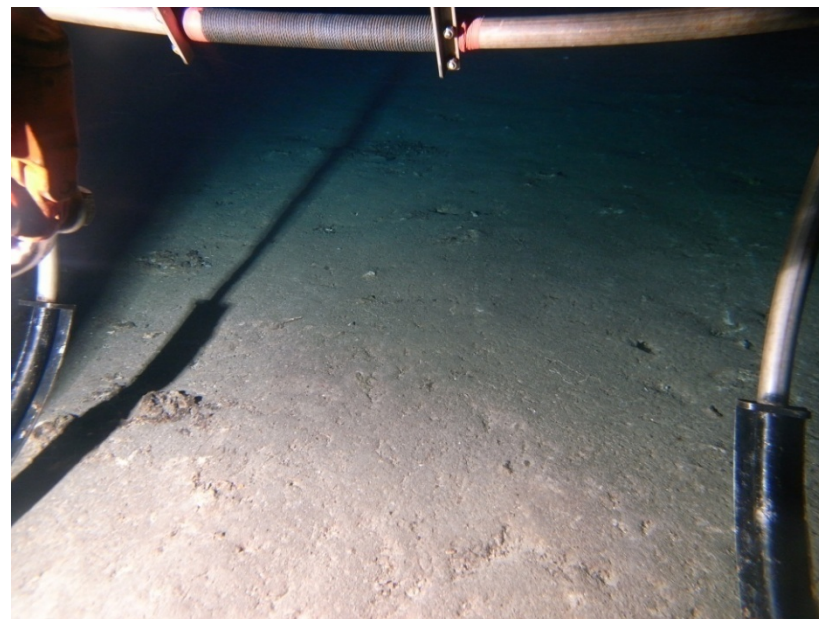
St19 2008/8/2
32-09.75N, 172-56.75E
688.91m



Yuryaku Seamount

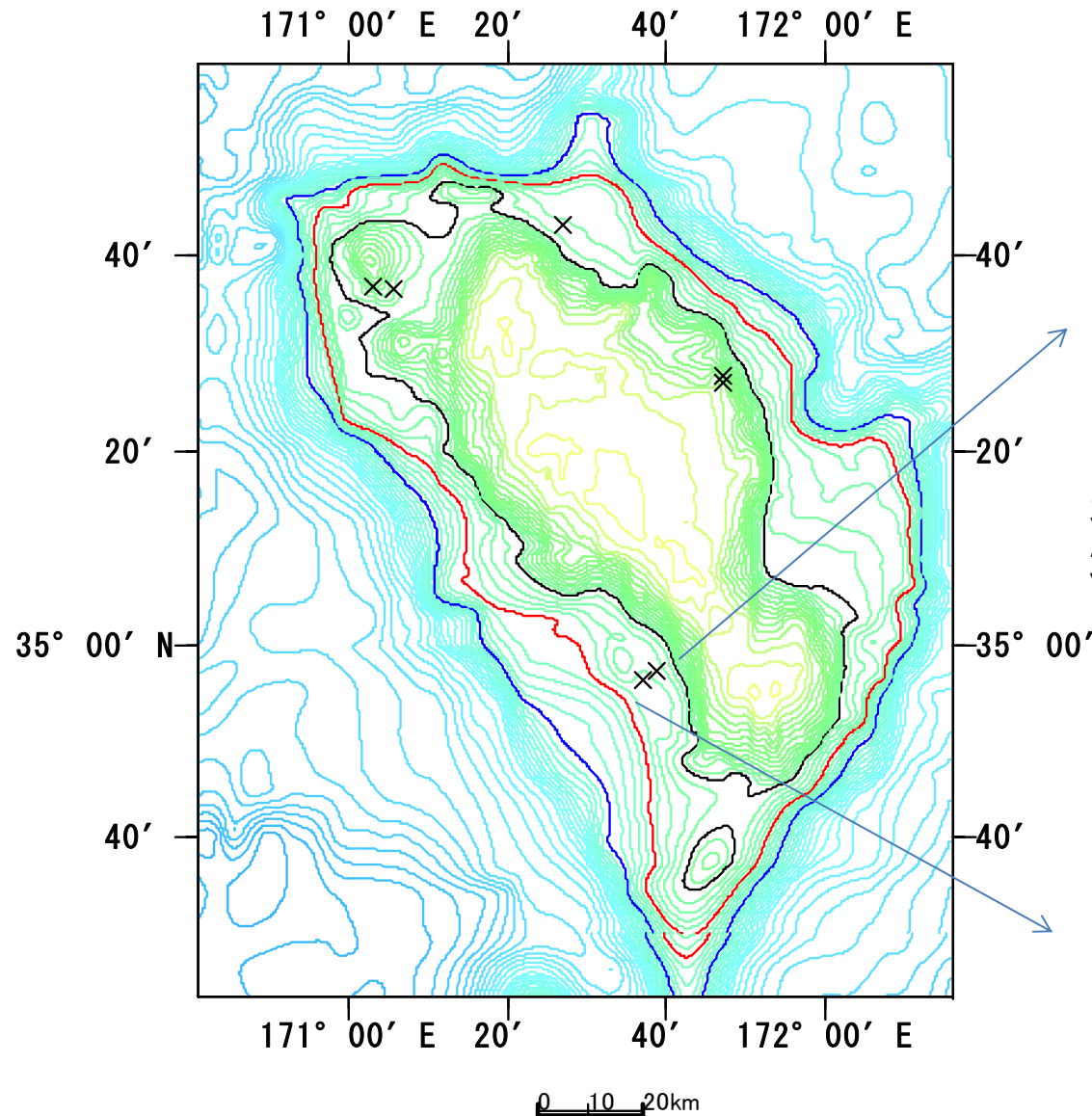


St23 2008/8/4
32-41.47N, 172-17.28E
410.26m



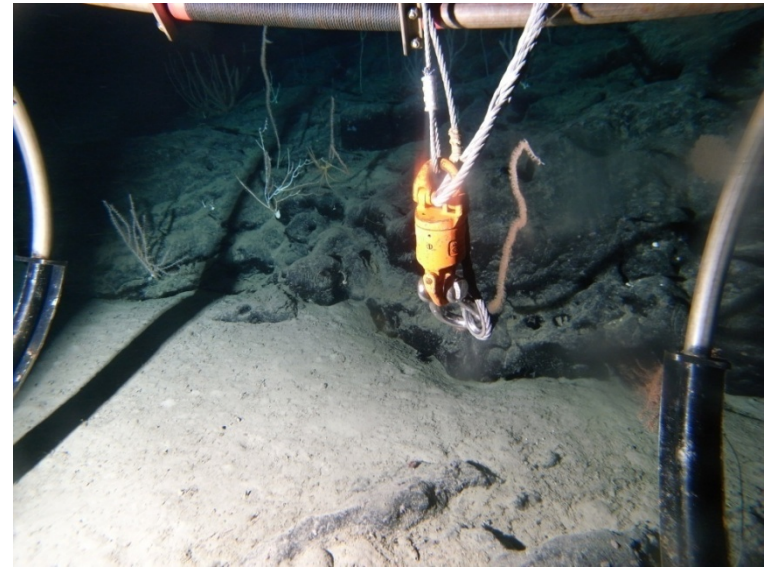
Depth Line
Black: 1000m
Red: 1500m
Blue: 2000m

Koko Seamount 1



St25 2008/8/5

34-56.24N, 171-36.98E, 1082.58m

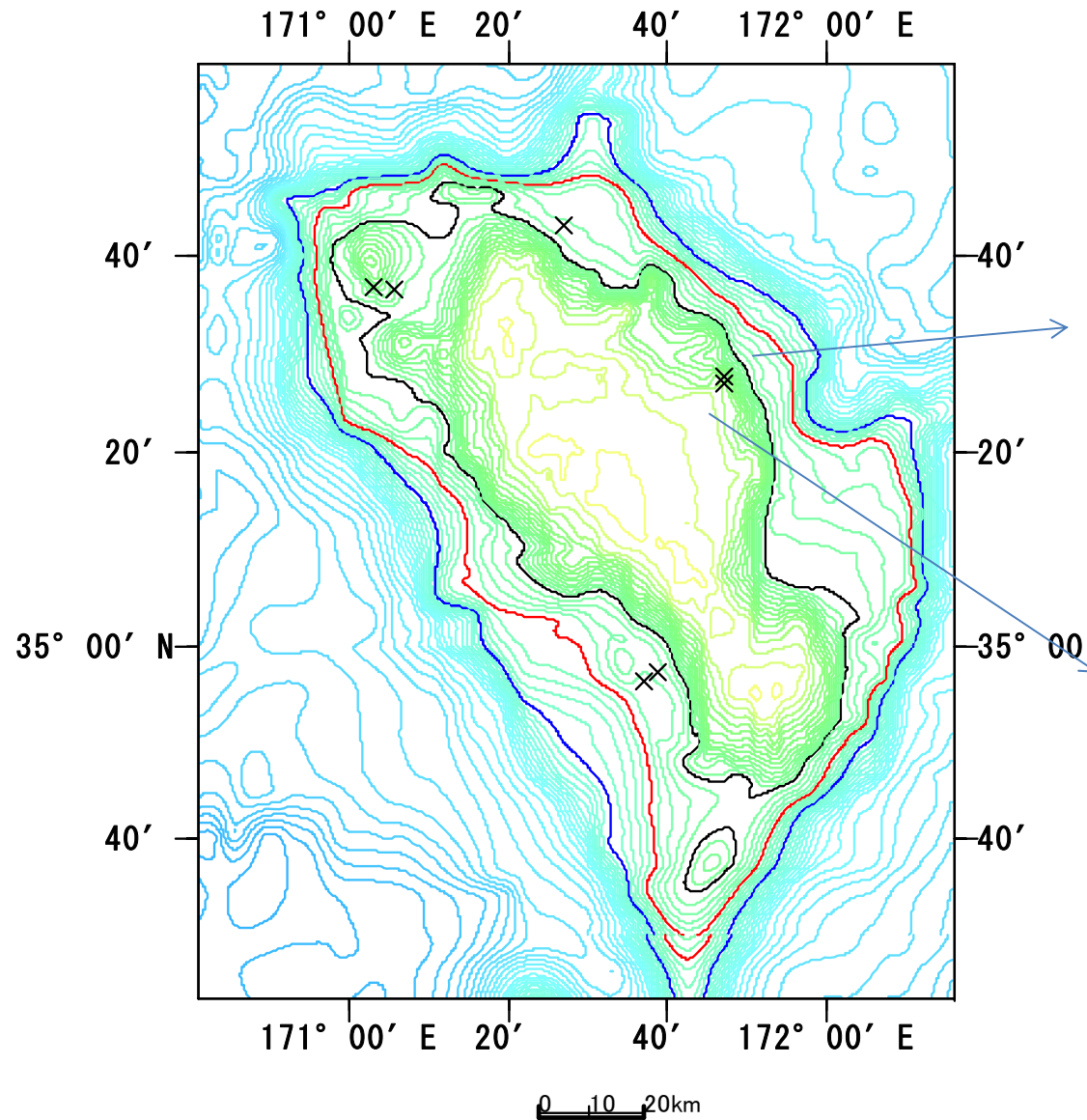


St24 2008/8/5

34-57.35N, 171-38.83E, 1299.44m

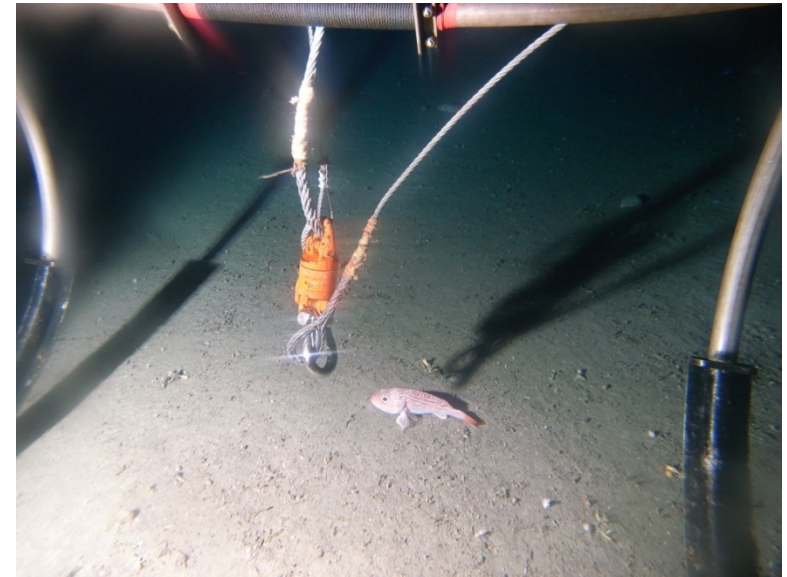


Koko Seamount 2



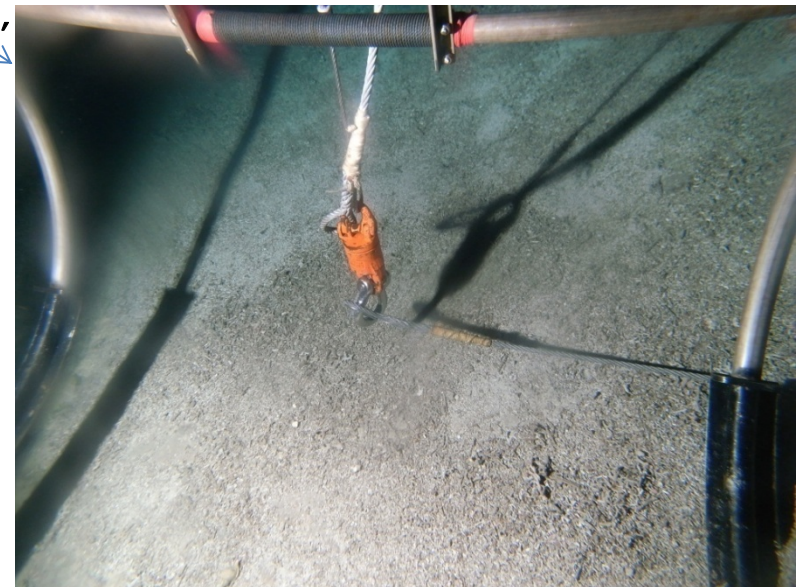
St28 2008/8/6

34-56.24N, 171-36.98E, 1082.58m

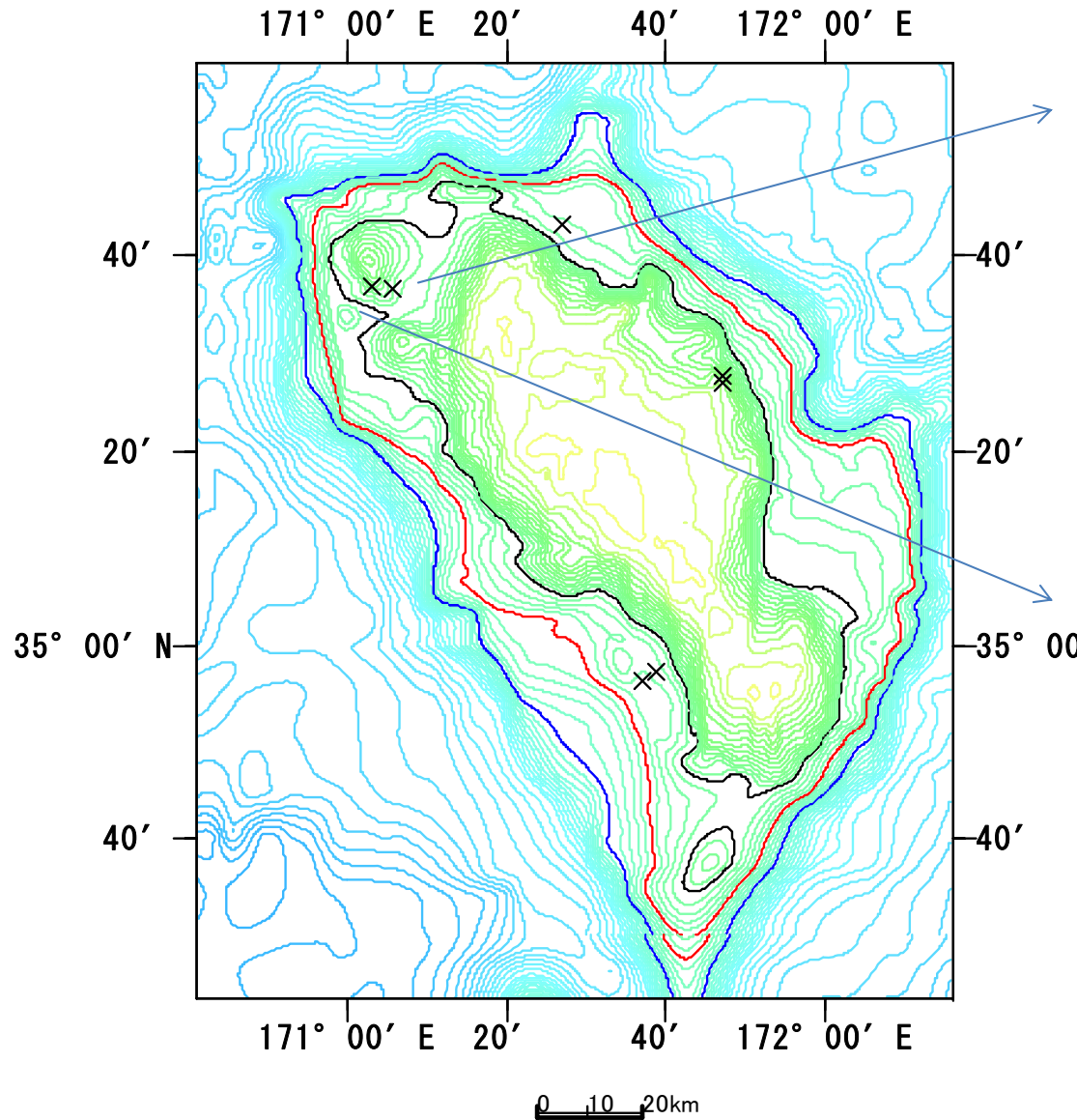


St27 2008/8/6

35-26.99N, 171-47.10E, 415.82 m



Koko Seamount 3



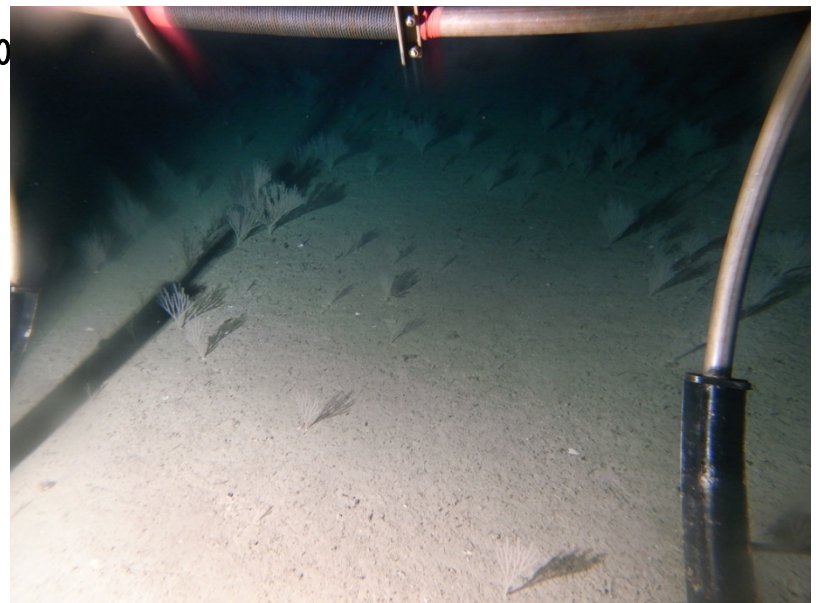
St30 2008/8/7

35-36.56N, 171-05.53E, 645.19m

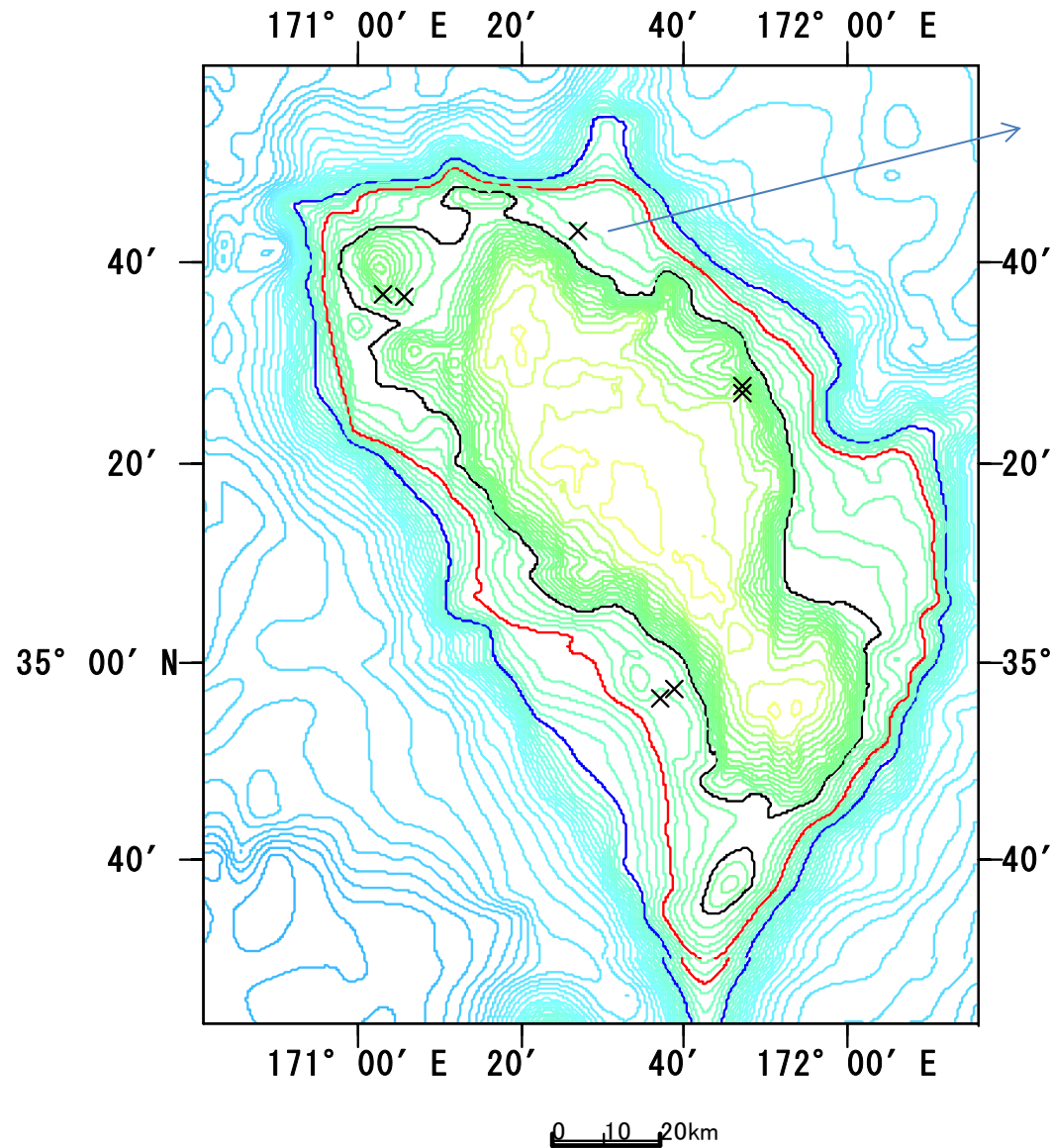


St29 2008/8/7

35-36.73 N, 171-02.95E, 725.8m

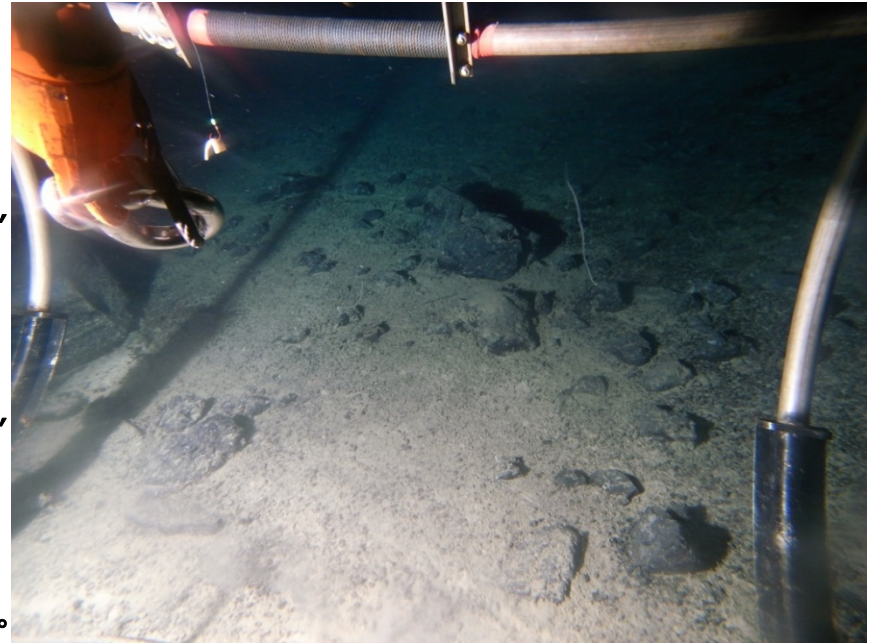


Koko Seamount 4



St31 2008/8/8

35-43.09N, 171-26.99E, 1173.08m



Summary

- There were few corals of the four orders in the slope and deep area of the Emperor Seamounts.
- Some corals were observed by drop camera system in the slope area of Colahan Seamount (St14) and Koko Seamount (St25 and St29).