

図8 トランセクト法の検討を行った仮想の海草パッチと藻場。×印はトランセクト法を行った地点、直線は観察トランセクトを表す。

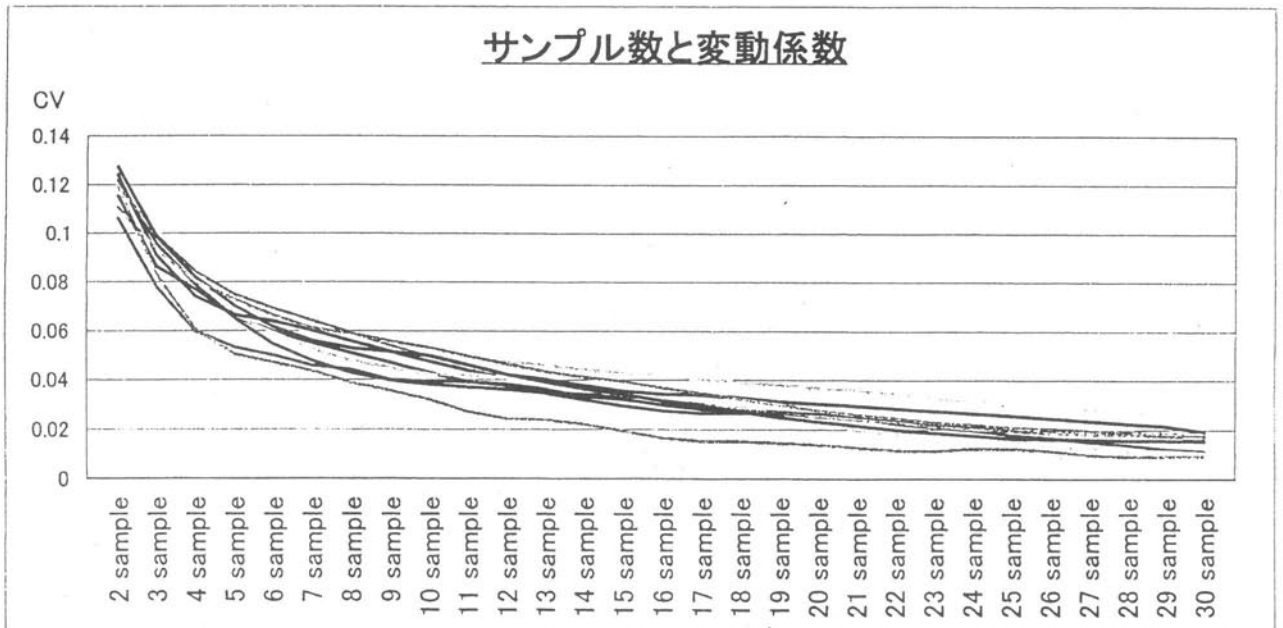


図9 トランセクト法の検討結果からのサンプル数と平均値の変動計数 CVの関係。

Intertidal Stations

Stn	Depth(m)	Time	Quadrat bottom		Species	Rank	Biomass (gDW/m ²)	Average Biomass			Reader
								Za	Zm	Pi	
I01			2	S	Pi	1	253	95	63	Asato	
I01	0.0	9:34	1	S	Zm	3	120			Suzuki	
I01			2	S	Zm	3	138			Asato	
I01			3	S	Zm	3	120			Watanabe	
I02	0.0	9:39	1	S	Zm	4	160	151		Suzuki	
I02			2	S	Zm	2	92			Asato	
I02			3	S	Zm	5	200			Watanabe	
I03	0.3	9:44	1	S	Zm	3	120	163		Suzuki	
I03			2	S	Zm	8	368			Asato	
I03			3	S		0	0			Watanabe	
I04	0.0	9:49	1	S	Zm	1	40	115		Suzuki	
I04			2	S	Zm	4	184			Asato	
I04			3	S	Zm	3	120			Watanabe	
I05	0.2	9:52	1	S		0	0		358	Suzuki	
I05			2	R		0	0			Asato	
I05			3	S	Pi	5	1075			Watanabe	
I06	0.1	10:29	1	S		0	0			Suzuki	
I06			2	S		0	0			Asato	
I06			3	S		0	0			Watanabe	
I07	0.4	10:32	1	S20R80		0	0		468	Suzuki	
I07			2	S95R5	Pi	3	759			Asato	
I07			3	S50R50	Pi	3	645			Watanabe	
I08	0.3	10:35	1	S		0	0			Suzuki	
I08			2	S		0	0			Asato	
I08			3	S50R50		0	0			Watanabe	
I09	0.3	10:37	1	S		0	0			Suzuki	
I09			2	R10S90		0	0			Asato	
I09			3	S		0	0			Watanabe	
I10	0.5	10:40	1	S		0	0			Suzuki	
I10			2	S		0	0			Asato	
I10			3	S		0	0			Watanabe	
I11	0.2	10:41	1	S		0	0	273		Suzuki	
I11			2	S	Za	3	660			Asato	
I11			3	S	Za	1	160			Watanabe	
I12	0.1	10:45	1	S	Za	3	516	692		Suzuki	
I12			2	S	Za	2	440			Asato	
I12			3	S	Za	7	1120			Watanabe	
I13	0.1	10:47	1	S		0	0	667		Suzuki	
I13			2	S	Za	4	880			Asato	
I13			3	S	Za	7	1120			Watanabe	
I14	0.2	10:50	1	S	Za	6	1032	811		Suzuki	
I14			2	S	Za	2	440			Asato	
I14			3	S	Za	6	960			Watanabe	
I15	0.2	10:53	1	S		0	0	220		Suzuki	
I15			2	S	Za	3	660			Asato	
I15			3	S		0	0			Watanabe	
I16	0.2	10:56	1	MS		0	0			Suzuki	
I16			2	MS		0	0			Asato	
I16			3	MS		0	0			Watanabe	
I17	0.3	10:59	1	MS	Za	7	1204	1161		Suzuki	
I17			2	MS	Za	6	1320			Asato	
I17			3	Sand&Cobble	Za	6	960			Watanabe	
I18	0.3	11:02	1	MS	Za	6	1032	1231		Suzuki	
I18			2	Cobble70S30	Za	7	1540			Asato	
I18			3		Za	7	1120			Watanabe	
I19	0.3	11:05	1	MwithCobble	Za	8	1376	1132		Suzuki	
I19			2	MS	Za	7	1540			Asato	
I19			3	MwithCobble	Za	3	480			Watanabe	
I20	0.2	11:07	1	MwithCobble	Za	8	1376	979		Suzuki	
I20			2	MS	Za	2	440			Asato	
I20			3	MwithCobble	Za	7	1120			Watanabe	
I21	0.2	11:10	1	MS	Za	3	516	545		Suzuki	
I21			2	MS		0	0			Asato	
I21			3	MS	Za	7	1120			Watanabe	

表1 潮間帯におけるRapid visual techniqueによる観測結果。種の表記は図7
に同じ。

Subtidal Stations

Stn	Depth(m)	Time	Quadrat bottom		Species	Rank	Biomass (gDW/m ²)	Average Biomass			Reader
								Za	Zm	Pi	
S01	1.5	9:18	1	S	Za	7	686	751		Nakaoka	
S01			2	S	Za	8	784			Nakaoka	
S01			3	S	Za	8	784			Nakaoka	
S02	3.1	9:47	1	S	Za	5	610	678		Mukai	
S02			2	S	Za	10	980			Nakaoka	
S02			3	S	Za	5	445			Nakamura	
S03	3.8	10:02	1	R		0	0			Nakamura	
S03			2	R		0	0			Nakamura	
S03			3	R		0	0			Nakamura	
S04	3.9	10:09	1	S	Za	5	490	359		Nakaoka	
S04			2	S	Za	4	392			Nakaoka	
S04			3	S	Za	2	196			Nakaoka	
S05	2.4	10:15	1	S	Za	6	732	732		Mukai	
S05			2	S	Za	7	854			Mukai	
S05			3	S	Za	5	610			Mukai	
S06	2.6	10:20	1	S	Za	7	588	560		Tanaka	
S06			2	S	Za	7	588			Tanaka	
S06			3	S	Za	6	504			Tanaka	
S07	3.0	10:30	1	S	Za	7	623	653		Nakamura	
S07			2	S	Za	7	623			Nakamura	
S07			3	S	Za	8	712			Nakamura	
S08	4.3	10:36	1	S		0	0			Nakaoka	
S08			2	S		0	0			Nakaoka	
S08			3	S		0	0			Nakaoka	
S09	3.4	10:40	1	S	Za	1	122	122		Mukai	
S09			2	S		0	0			Mukai	
S09			3	S	Za	2	244			Mukai	
S10	2.9	10:53	1	R		0	0			Tanaka	
S10			2	R		0	0			Tanaka	
S10			3	R		0	0			Tanaka	
S11	2.8	10:59	1	S	Za	8	712	653		Nakamura	
S11			2	S	Za	6	534			Nakamura	
S11			3	S	Za	8	712			Nakamura	
S12	3.6	11:10	1	S	Za	5	490	555		Nakaoka	
S12			2	S	Za	6	588			Nakaoka	
S12			3	S	Za	6	588			Nakaoka	
S13	4.3	11:12	1	S		0	0			Tanaka	
S13			2	S		0	0			Tanaka	
S13			3	S		0	0			Tanaka	
S14	0.7	11:17	1	S	Za	8	712	771		Nakamura	
S14			2	S	Za	9	801			Nakamura	
S14			3	S	Za	9	801			Nakamura	
S15	1.6	11:23	1	S	Za	7	686	784		Nakaoka	
S15			2	S	Za	9	882			Nakaoka	
S15			3	S	Za	8	784			Nakaoka	

表2 亜潮間帯におけるRapid visual techniqueによる観測結果。種の表記は図7に同じ。

Intertidal Stations						
Stn	Latitude	Longitude	Biomass (gDW/m ²)			
			Za	Zm	Pi	Total
I01	14.8	72.7	0	95	63	158
I02	14.7	73.3	0	151	0	151
I03	15.2	74.4	0	163	0	163
I04	15.9	75.4	0	115	0	115
I05	16.4	75	0	0	358	358
I06	17.1	75.9	0	0	0	0
I07	17.5	75.7	0	0	468	468
I08	17.7	76.1	0	0	0	0
I09	18.7	76.2	0	0	0	0
I10	19.2	76	0	0	0	0
I11	19.8	75.4	273	0	0	273
I12	20.5	75	692	0	0	692
I13	21	75	667	0	0	667
I14	21.5	75	811	0	0	811
I15	22.8	74.6	220	0	0	220
I16	22.7	74.5	0	0	0	0
I17	23.3	74.3	1161	0	0	1161
I18	23.9	74.1	1231	0	0	1231
I19	23.8	74.4	1132	0	0	1132
I20	24.8	73.5	979	0	0	979
I21	25.3	72.9	545	0	0	545

Subtidal Stations						
Stn	Latitude	Longitude	Biomass (gDW/m ²)			
			Za	Zm	Pi	Total
S01	15	69.2	751	0	0	751
S02	9.3	57.3	678	0	0	678
S03	6.1	49.7	0	0	0	0
S04	9.1	54.9	359	0	0	359
S05	11.7	63.5	732	0	0	732
S06	19.7	67	560	0	0	560
S07	17.6	60.2	653	0	0	653
S08	14.8	52.7	0	0	0	0
S09	14.6	57.5	122	0	0	122
S10	25.7	64	0	0	0	0
S11	23.1	63.9	653	0	0	653
S12	20.7	60.4	555	0	0	555
S13	18.8	55.2	0	0	0	0
S14	19.3	70.4	771	0	0	771
S15	23.9	67.5	784	0	0	784

表3 各調査員のランク付けによる結果から推定した海草の現存量。

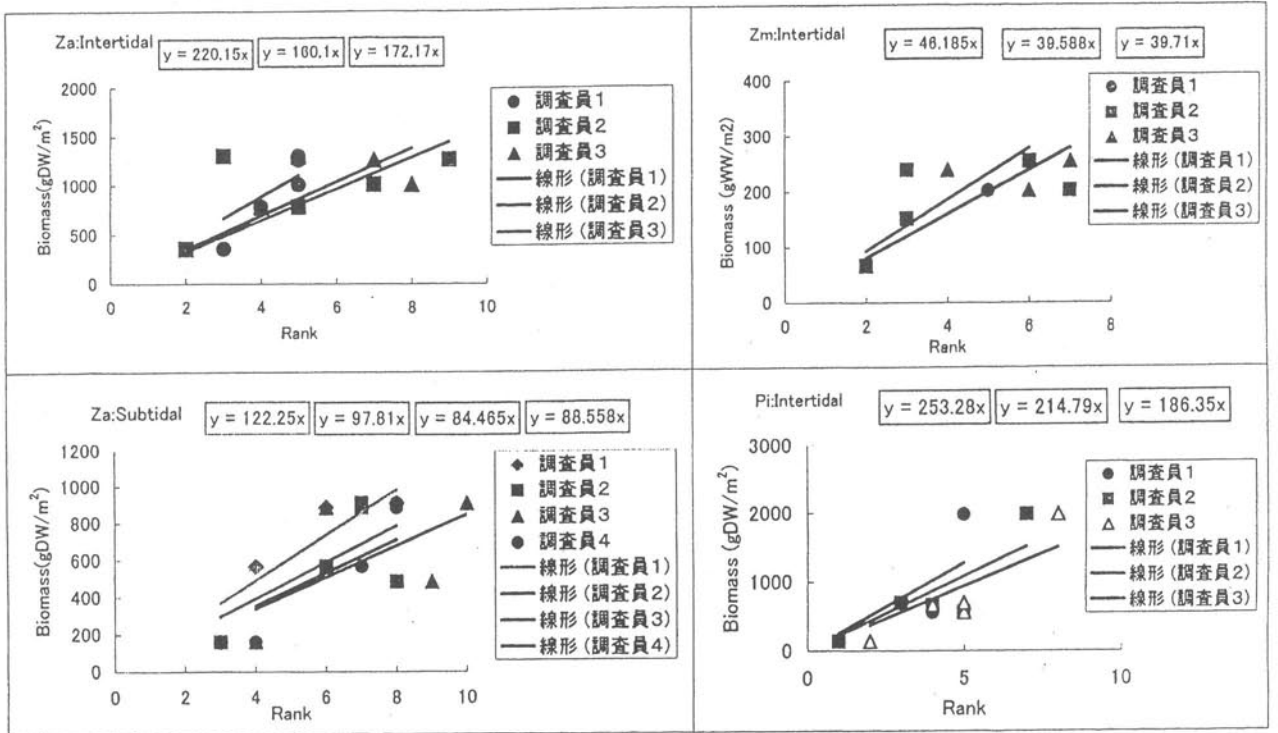


図10 Rapid visual technique による各調査員のランク付け観測結果と
 坪刈りによるバイオマスデータとの相関。種の表記は図7と同じ。

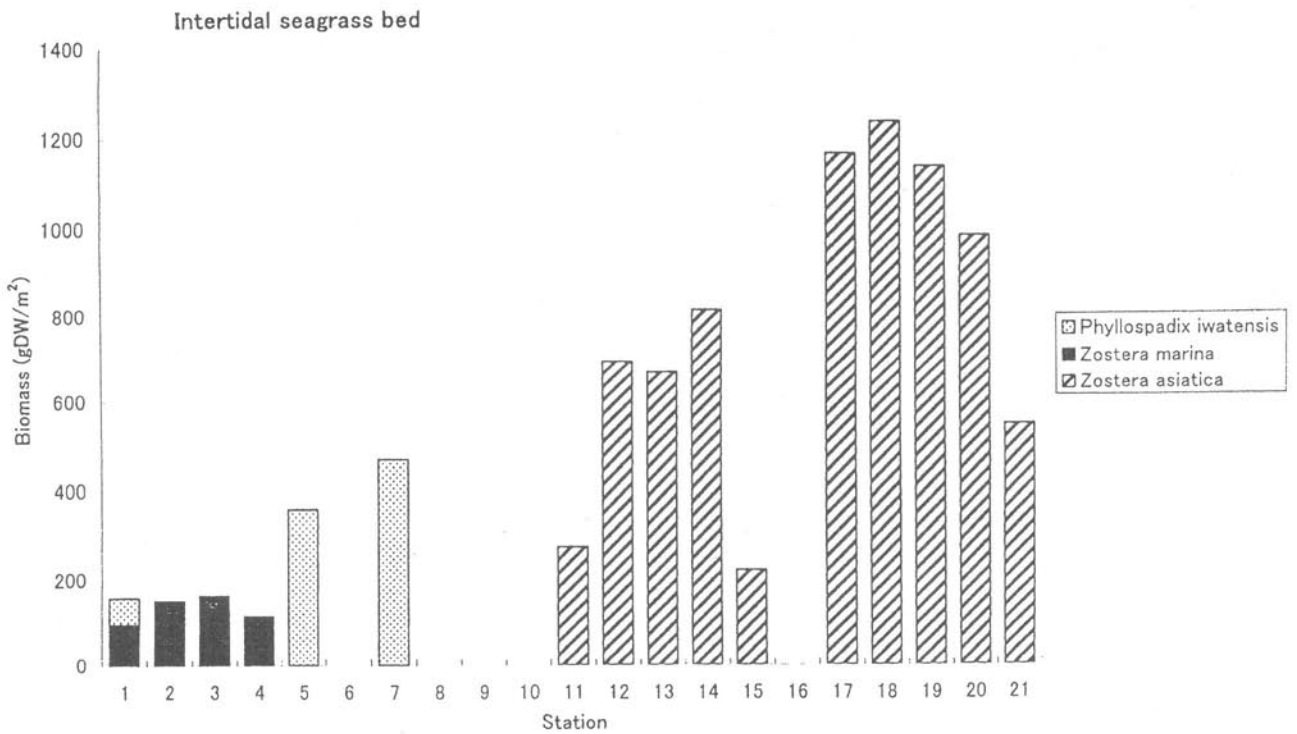


図11 各調査員のランク付けによる結果から推定した潮間帯における海草の
 現存量。