

Appendix A

List of fishes collected by the Meisyo Maru #128 in 1993,
expressed in relative abundance in weight by seamount depth zone,
with related information

Seamount surveyed	C-H	Colahan	Kammu	Yuryaku	Yuryaku	Koko	Total
Depth zone surveyed	200-400m	200-400m	200-400m	400-700m	200-400m	200-400m	
Operation start date (UTC) for each strata	1993/11/19	1993/11/16	1993/11/10	1993/11/7	1993/11/7	1993/11/19	
Type of trawl, bottom or mid-water.	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	
Type of trawl, single, double or	Single	Single	Single	Single	Single	Single	
Typical height of net opening (m).	5	5	5	5	5	5	
Typical width of net opening (m).	25	25	25	25	25	25	
Mesh size of the cod-end net (mm)	4	4	4	4	4	4	
Mesh type (diamond, square, etc).	Diamond	Diamond	Diamond	Diamond	Diamond	Diamond	
Number of effective trawl operation	1	8	23	3	5	16	
Total duration of tows (min)	4	77	238	30	48	248	
Total estimated duration of seabed contact (min)	4	77	238	30	48	248	
Total estimated area of seabed contact (km2)	0.0093	0.1783	0.5510	0.0695	0.1111	0.5741	
TOTAL CATCH BY WEIGHT (kg)	432.5	3644.5	6736.1	293.8	12180.3	5616.6	28903.7
Etmopterus pusillus	15.3	7.8	308.4	104.1	14.4	40.9	490.8
Squalus mitsukurii	0.0	0.0	94.1	0.0	0.0	58.7	152.8
Chimaera spp.	0.0	0.0	0.0	0.0	0.0	13.9	13.9
Meadia abyssalis	0.6	3.2	14.7	0.5	20.4	0.5	39.9
Chlorophthalmus spp.	0.0	0.1	18.7	3.6	0.0	0.2	22.6
Argyropelecus aculeatus	0.0	0.0	0.3	0.0	0.0	0.0	0.3
Mvctophidae sp.	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polymixia japonica	0.0	0.8	14.6	5.5	0.2	16.1	37.1
Physiculus spp.	0.6	8.1	197.2	10.8	5.2	1347.0	1568.9
Macrouridae sp.	0.1	0.1	12.9	2.8	0.2	1.5	17.5
Lophiomus miacanthus	0.1	4.2	73.8	14.3	24.4	83.5	200.2
Chaunax spp.	0.0	0.2	18.1	2.7	20.3	38.6	79.7
Malthopsis spp.	0.0	0.0	0.0	0.0	0.0	0.3	0.4
Beryx splendens	24.5	1275.9	1242.8	50.2	11591.2	16.9	14201.5
Beryx decadactylus	0.0	0.0	3.3	0.0	0.0	48.9	52.2
Scorpaena spp.	0.0	0.0	0.1	0.5	0.0	0.0	0.6
Satyrichthys engyceros	0.0	0.0	2.6	0.6	0.6	0.2	3.9
Macroramphosus spp.	0.0	2.8	6.5	0.0	0.0	143.2	152.4
Zenopsis nebulosa	15.7	284.9	3933.3	1.9	15.7	845.1	5096.6
Zenion japonicum	0.0	0.0	4.5	0.0	0.0	0.0	4.5
Parazen pacificus	0.0	0.0	0.5	0.0	0.0	0.0	0.5
Hoplostethus crassispinus	0.7	0.1	2.3	7.7	0.1	0.0	11.0
Congriscus megastomus	0.7	0.2	1.6	0.1	0.5	0.3	3.3
Helicolenus spp.	0.0	0.0	141.1	0.2	0.1	523.3	664.7
Epigonus denticulatus	11.6	1.3	90.9	64.8	5.1	2327.9	2501.5
Plectranthias kelloggi	0.0	1.0	7.7	0.0	0.0	2.6	11.3
Symphyanodon maunaloae	0.1	1.5	4.4	0.0	0.0	0.5	6.4
Decapterus tabl	0.0	0.0	0.0	0.0	0.0	0.6	0.6
Emmelichthys struhsakeri	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Cookeolus japonicus	0.0	0.3	0.0	0.0	0.0	0.0	0.3
Brama japonica	0.0	0.0	0.0	0.0	0.0	1.5	1.5
Pseudopentaceros wheeleri	315.7	1912.4	464.1	13.8	391.4	44.4	3141.8
Pentaceros japonicus	0.0	0.0	0.2	0.0	0.0	0.0	0.2
Antigonia capros	0.0	0.7	4.6	0.0	0.0	0.0	5.4
Antigonia spp.	0.0	0.0	0.2	0.0	0.0	0.0	0.3
Parapercis sp.	0.0	0.5	0.0	0.0	0.0	0.0	0.5
Promethichthys prometheus	47.0	12.8	0.4	1.3	71.3	0.0	132.7
Thyrsitoides marlevi	0.0	16.3	12.5	0.0	0.0	0.0	28.8
Evoxymetopon sp.	0.0	1.0	9.8	1.1	0.7	0.0	12.6
Benthodesmus pacificus	0.0	0.0	1.5	0.0	0.0	0.0	1.5
Callionymidae spp.	0.0	0.1	1.3	0.0	0.0	7.1	8.4
Hyperoglyphe japonica	0.0	17.6	7.8	0.0	13.8	0.0	39.2
Microstomus shuntovi	0.0	0.0	2.3	7.2	3.8	53.0	66.2
Chascanopsetta prorigera	0.0	0.4	15.0	0.4	0.9	0.0	16.7
Parabothus coarctatus	0.0	90.2	10.5	0.0	0.0	0.0	100.6
Sphaeroides pachygaster	0.0	0.1	11.8	0.0	0.0	0.0	11.9