Olympic Coast National Marine Sanctuary
Sediment Grab Groundtruth Data Analysis, McArthur II Sidescan Survey, 2008

DropNo	Date_	Time_	Lat_dd	Lon_dd	Wet Observed Sediment	Color	Notes
1_3	9/9/2010	1236	48.4572	-124.751283	BC	B	Brittle star, worms, organic matter. No samples 1_1, 1_2.
10_1	9/21/2010	1440	48.443783	-125.104866	GS	B	Gravel, pebble, sand, mud, full of all kinds of living orgs attached to rocks
10_2	9/21/2010	1455	48.442216	-125.104866	GS	B	Gravel, pebble, sand, mud, full of all kinds of living orgs attached to rocks
11_1	9/21/2010	1419	48.43995	-125.150533	M	Gr	Smooth green mud, worms (No 11_2, 11_3
12_1	9/21/2010	1400	48.41575	-125.185316	M	Gr	Smooth green mud, urchins, worms (No samples
13_1	9/21/2010	1250	48.376083	-125.255416	BS	B	Boulder, cobble in mud/sand
13_2	9/21/2010	1300	48.392966	-125.2554	CS	B	All rock sizes in sand. Few living orgs.
13_3	9/21/2010	1310	48.392716	-125.2548	CS	B	All rock sizes in sand/mud. Black strip in mix.
14_1	9/21/2010	1154	48.335133	-125.304916	PS	B	Pebbles, cobble, gravel, held with sand and mud,
14_2	9/21/2010	1207	48.3355	-125.305416	GS	B	Gravel and pebbles in sand/mud mix
14_3	9/21/2010	1250	48.3352	-125.305716	CS	B	Larger cobble with pebble and gravel, mud and
15_1	9/21/2010	1127	48.335566	-125.25135	M	G	Green smooth mud, worms (NO other site 15
16_1	9/22/2010	1016	48.409433	-125.121916	SM	Blk	Sand, mud and a few worms (No 16_2, 16_3
17_1	9/22/2010	1003	48.409316	-125.10545	S	Blk	Sand with lots of worms (No 17_2, 17_3
18_1	9/22/2010	935	48.4397	-125.054766	SM	Blk	Sand, mud, brittle stars (No 18_2, 18_3 samples)
19_1	9/21/2010	1331	48.396216	-125.2015	MP	Gr	Smooth green mud, urchins (No 19_2, 19_3
2_1	9/9/2010	1330	48.460033	-124.8138	MS	Gr/Blk	No comment
2_2	9/9/2010	1401	48.459483	-124.814766	M	Gr/Blk	Lots of brittle star, organic matter
2_3	9/9/2010	1421	48.4589	-124.813966	MS	Gr/Blk	Sticky, predominantly mud, brittle stars
20_1	9/22/2010	950	48.417216	-125.092666	S	Blk	Sand, worms (No 20_2, 20_3 samples)
21_1	9/21/2010	1614	48.439	-125.04805	S	Blk	Sand, brittle stars (No 21_, 21_3 samples)
22_1	9/9/2010	1440	48.470716	-124.878	S	G	Small gravel in sand - just a few pieces.
22_2	9/9/2010	1455	48.469816	-124.8809	S	G	Small Gravel - 2-3 pieces
22_3	9/9/2010	1509	48.469766	-124.881983	S	G	No comments
23_1	9/9/2010	1224	48.4747	-124.9471	PS	B	Cobble, mud, some living orgs
23_2	9/9/2010	1233	48.474533	-124.94695	PS	B	Sticky mud, sea squirts, worms, cobble
23_3	9/9/2010	1241	48.474816	-124.947616	PS	B	Cobble, mud, organisms, sea squirts
24_1	9/9/2010	1152	48.490916	-124.930366	PS	B	Mud and some sand; lots of living worms, brittle
24_2	9/9/2010	1200	48.489266	-124.929533	PM	B	Cobble, worms, large & small stones, living orgs.
24_3	9/9/2010	1209	48.490216	-124.929916	PM	B	No comments
25_1	9/9/2010	1105	48.502616	-124.859833	PC	B	No comments
25_2	9/9/2010	1117	48.502383	-124.861283	PC	B	Sand, mud, chiton, worms, crabs, other living
25_3	9/9/2010	1126	48.5025	-124.859666	SP	B	Cobble (several rocks), worms, crabs, other living
26_1	9/9/2010	1000	48.504783	-124.788	SM	Gr	Brittle stars and worms
26_2	9/9/2010	1020	48.5037	-124.78685	S	Gr	Brittle stars and worms
26_3	9/9/2010	1036	48.503316	-124.787183	S	Gr	Brittle stars and worms
27_1Ou	9/9/2010	1201	48.2724	-124.879616	S	Blk	No comments
28_1	9/22/2010	1145	48.279766	-124.922716	M	Blk	Mud with few worms (No 28_2, 28_3 samples)
3_1	9/9/2010	1450	48.4578	-124.871633	MS	Gr/Blk	Urchins, worms, slippery mud
3_2	9/9/2010	1508	48.459433	-124.8727	S	G	Brittle Stars
3_3	9/9/2010	1523	48.45855	-124.872716	S	G	Brittle Stars
30_1	9/22/2010	1106	48.273983	-124.954733	GM	Blk	Gravel, pebble, mud, sand, cobble, worms,
30_2	9/22/2010	1118	48.27215	-124.954466	GM	Blk	Gravel, sticky mud, pebbles, cobble, sand,
30_3	9/22/2010	1130	48.272966	-124.953666	CM	Blk	All rock sizes suspended in mud with many

DropNo	Bottom	Depth_meters	Cob_grm	VCGrv_grm	CrsGrv_grm	MedGrv_grm	Peb_grm	VCSand_grm	CrsSand_grm	MudSlt_grm	Cob_prcnt
1_3	H	283									
10_1	M	128	0	0	64.14	191.23	173.22	156.53	133.14	593.18	0%
10_2	M	127									
11_1	S	160	0	0	0	0	0	0	0	752.35	0%
12_1	S	169	0	0	0	0	0	0	0	978.6	0%
13_1	M	127	426.42	367.8	8.82	26.33	20.43	34.19	65.06	199.78	37%
13_2	M	127	0	698.58	383.49	305.8	142.6	73.98	81.25	522.59	0%
13_3	M	126	443.01	676.53	518.82	117.61	133.59	96.51	192.15	530.19	16%
14_1	M	119	0	82.53	172.23	327.42	273.01	250.99	268.65	665.47	0%
14_2	M	118	0	64.35	560.01	207.57	111.76	95.82	267.46	725.02	0%
14_3	M	118	0	947.4	393.7	183.9	96.08	62.01	163.59	533.75	0%
15_1	S	184	0	0	0	0	0	0	0	916.17	0%
16_1	S	113	0	0	0	0	0	0	0	1914.15	0%
17_1	S	111	0	0	0	90.06	100.51	170.6	70.04	1108.96	0%
18_1	S	184	0	0	0	2.13	0	0	0	2074.46	0%
19_1	M	178	0	0	0	0	0	0	0	856.94	0%
2_1	S	312	0	0	0	0	0	0	0	309.12	0%
2_2	S	311	0	0	0	0	0	0	0	292.53	0%
2_3	S	312	0	0	0	0	0	0	0	416.57	0%
20_1	S	111	0	0	0	0	0	0	0	1848.1	0%
21_1	S	183	0	0	0	0	0	0	0	1810.67	0%
22_1	S	235	0	57	0	0	0	0	0	1155.2	0%
22_2	S	234	0	0	0	0	0	0	0	1384.08	0%
22_3	S	233	0	318.6	11.19	2.85	10.95	0	0	1582.15	0%
23_1	M	100	0	0	103.48	168.52	191.14	273.11	119.91	146.84	0%
23_2	M	99	0	0	370.54	202.88	271.86	210.95	93.19	167.13	0%
23_3	M	100	0	0	90.15	191.29	224.65	235.12	89.2	193.35	0%
24_1	M	89	0	0	54.08	162.59	255.74	244.91	104.45	198.46	0%
24_2	M	89	0	131.01	73.76	229.96	202.57	155.89	70.13	184.09	0%
24_3	M	89	0	247.49	33.16	289.88	228.86	369.45	117.42	248.31	0%
25_1	H	188	0	201.2	80.74	105.31	207.9	193.46	29.25	178.16	0%
25_2	H	184	0	75.21	403.56	198.77	199.56	95.36	31.1	167.5	0%
25_3	M	186	0	84.7	34.88	102.45	193.97	218.68	34.18	257.98	0%
26_1	S	234	0	0	0	0	0	0	0	553.1	0%
26_2	S	235	0	0	0	0	0	0	0	565.6	0%
26_3	S	237	0	0	0	0	0	0	0	533.21	0%
27_1Ou	S	72	0	0	0	0	0	0	0	1701.87	0%
28_1	S	184	0	0	0	0	0	0	0	1320.26	0%
3_1	S	271	0	0	0	0	0	0	0	565.28	0%
3_2	S	265	0	0	0	0	0	0	0	495.08	0%
3_3	S	267	0	0	0	0	0	0	0	511.79	0%
30_1	M	178	0	503.1	389.65	104.21	79.15	173.1	151.47	636.62	0%
30_2	M	178	0	463.72	313.13	265.48	172.51	152.32	75.4	330.2	0%
30_3	M	178	1109.84	313.29	123.29	86.56	65.03	112.12	262.36	394.9	45%

DropNo	VCGrv_prcnt	CrsGrv_prcnt	MedGrv_prcnt	Peb_prcnt	VCSand_prcnt	CrsSand_prcnt	MudSlt_prcnt	Mega	Bottom	Slope	Complex	Macro	Bio	Class	Simple Classsification
1_3															H
10_1	0%	5%	15%	13%	12%	10%	45%	S	m	2	B	*(mspg)	[o,w]	Sm 2B *(mspg)	Sm
10_2															M
11_1	0%	0%	0%	0%	0%	0%	100%	S	s	2	A	*(m)	[w]	Ss 2A *(m)[w]	Ss
12_1	0%	0%	0%	0%	0%	0%	100%	S	s	2	A	*(m)	[w,o]	Ss 2A *(m)[w,o]	Ss
13_1	32%	1%	2%	2%	3%	6%	17%	S	h	2	D	*(bcgm)		Sh 2D *(bcgm)	Sh
13_2	32%	17%	14%	6%	3%	4%	24%	S	m	2	C	*(gmps)	[o]	Sm 2C *(gmps)	Sm
13_3	25%	19%	4%	5%	4%	7%	20%	S	m	1	C	*(mcgs)		Sm 1C *(mcgs)	Sm
14_1	4%	8%	16%	13%	12%	13%	33%	S	m	1	B	*(msg)	[w]	Sm 1B *(msg) [w]	Sm
14_2	3%	28%	10%	6%	5%	13%	36%	S	m	1	B	*(gmsp)		Sm 1B *(gmsp)	Sm
14_3	40%	17%	8%	4%	3%	7%	22%	S	m	1	B	*(gmsp)		Sm 1B *(gmsp)	Sm
15_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)	[w]	Ss 1A *(m)[w]	Ss
16_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)	[w]	Ss 1A *(m)[w]	Ss
17_1	0%	0%	6%	7%	11%	5%	72%	S	s	1	A	*(mspg)	[w]	Ss 1A *(mspg)	Ss
18_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)	[o]	Ss 1A *(m)[o]	Ss
19_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)	[o]	Ss 1A *(m)[o]	Ss
2_1	0%	0%	0%	0%	0%	0%	100%	F	s	3	A	*(m)		Fs 3A *(m)	Fs
2_2	0%	0%	0%	0%	0%	0%	100%	F	s	3	A	*(m)	[o]	Fs 3A *(m)[o]	Fs
2_3	0%	0%	0%	0%	0%	0%	100%	F	s	3	A	*(m)	[o]	Fs 3A *(m)[o]	Fs
20_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)	[w]	Ss 1A *(m)[w]	Ss
21_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)	[o]	Ss 1A *(m)[o]	Ss
22_1	5%	0%	0%	0%	0%	0%	95%	F	s	3	A	*(mg)	[w,o]	Fs 3A *(mg)[w,o]	Fs
22_2	0%	0%	0%	0%	0%	0%	100%	F	s	3	A	*(m)		Fs 3A *(m)	Fs
22_3	17%	1%	0%	1%	0%	0%	82%	F	m	3	B	*(mg)		Fm 3B *(mg)	Fm
23_1	0%	10%	17%	19%	27%	12%	15%	S	m	1	B	*(spmg)	[o]	Sm 1B *(spmg)[o]	Sm
23_2	0%	28%	15%	21%	16%	7%	13%	S	m	1	C	*(pgms)	[w]	Sm 1C *(pgms)[w]	Sm
23_3	0%	9%	19%	22%	23%	9%	19%	S	m	1	B	*(gpsm)	[o]	Sm 1B *(gpsm)[o]	Sm
24_1	0%	5%	16%	25%	24%	10%	19%	S	m	1	C	*(gpsm)	[n]	Sm 1C *(gpsm)[n]	Sm
24_2	13%	7%	22%	19%	15%	7%	18%	S	m	1	B	*(gpsm)	[w]	Sm 1B *(gpsm)[w]	Sm
24_3	16%	2%	19%	15%	24%	8%	16%	S	m	1	B	*(gpsm)		Sm 1B *(gpsm)	Sm
25_1	20%	8%	11%	21%	19%	3%	18%	S	m	3	B	*(gpm)		Sm 2B *(gpm)	Sm
25_2	6%	34%	17%	17%	8%	3%	14%	S	m	3	B	*(gpms)	[w,o]	Sm 2B *(gpms)[w,o]	Sm
25_3	9%	4%	11%	21%	24%	4%	28%	S	m	3	B	*(spmg)	[w,o]	Sm 2B *(spmg)[w,o]	Sm
26_1	0%	0%	0%	0%	0%	0%	100%	F	s	2	A	*(m)	[w,o]	Fs 2A *(m)[w,o]	Fs
26_2	0%	0%	0%	0%	0%	0%	100%	F	s	2	A	*(m)	[w,o]	Fs 2A *(m)[w,o]	Fs
26_3	0%	0%	0%	0%	0%	0%	100%	F	s	2	A	*(m)	[w,o]	Fs 2A *(m)[w,o]	Fs
27_1Ou	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
28_1	0%	0%	0%	0%	0%	0%	100%	S	s	2	A	*(m)	[w]	Ss 2A *(m)[w]	Ss
3_1	0%	0%	0%	0%	0%	0%	100%	F	s	3	A	*(m)	[o]	Fs 3A *(m)[o]	Fs
3_2	0%	0%	0%	0%	0%	0%	100%	F	s	3	A	*(m)	[o]	Fs 3A *(m)[o]	Fs
3_3	0%	0%	0%	0%	0%	0%	100%	F	s	3	A	*(m)	[o]	Fs 3A *(m)[o]	Fs
30_1	25%	19%	5%	4%	8%	7%	31%	S	m	2	B	*(gms)	[w]	Sm 2B *(gms)[w]	Sm
30_2	26%	18%	15%	10%	9%	4%	19%	S	m	2	B	*(gms)	[w,o]	Sm 2B *(gms)[w,o]	Sm
30_3	13%	5%	4%	3%	5%	11%	16%	S	m	2	B	*(gmsp)	[w]	Sm 2B *(gmsp)[w]	Sm

DropNo	Date_	Time_	Lat_dd	Lon_dd	Wet Observed Sediment	Color	Notes
31_1	9/22/2010	1314	48.216883	-124.911983	M	Blk	No comment No other samples for site 31
32_1	9/22/2010	1301	48.219666	-124.938283	M	Blk	No comment No other samples for site 32
33_1	9/22/2010	1246	48.2234	-124.963183	M	Blk/Gr	Sticky mud, black stripes in green mud, urchins
34_1	9/22/2010	1228	48.2302	-124.9765	M	Blk/Gr	Sticky black and green mud, urchins
37_1	9/20/2001	1520	48.1515	-124.9684	M	Blk	Sticky mud, sand, urchins
37_2	9/20/2010	1532	48.151166	-124.969816	SM	Gr/Blk	Sticky mud, sand, few worms
37_3	9/20/2010	1542	48.152	-124.970166	SM	Gr/Blk	Fine sand, green mud, silt, strips of black mud,
38_1	9/20/2010	1405	48.14395	-124.96425	SM	Gr	Very few living orgs in sample
38_2	9/20/2010	1417	48.143483	-124.964266	SM	Gr	Very few living orgs in sample
38_3	9/20/2010	1427	48.143116	-124.963816	SM	Gr	Very few living orgs in sample
39_1	9/20/2010	1311	48.1106	-124.9815	M	Gr	Very few organisms in sample
39_2	9/20/2010	1323	48.10865	-124.98205	Silt	Gr	Very few organisms in sample
39_3	9/20/2010	1335	48.10825	-124.982566	S	Gr	Very few living organisms in sample
4_1	9/9/2010	1545	48.45655	-124.915266	CB	B	Many organisms attached to rocks. No sample
4_2	9/9/2010	1557	48.45675	-124.915566	B	B	Rocks with organisms attached. No sample kept
4_3	9/9/2010	1610	48.456116	-124.914716	B	B	Simply rocks with living orgs attached. No
40_1	9/20/2010	1200	48.061666	-124.995	SM	Blk	Sand mud very few signs of living orgs.
40_2	9/20/2010	1215	48.0615	-124.994833	SM	Blk	Sand, very few signs of life
40_3	9/20/2010	1240	48.06215	-124.99485	SM	Blk	Sand, very few signs of life
41_1	9/20/2010	1156	48.085	-125.006133	SM	Blk	Few liv orgs
41_2	9/20/2010	1707	48.083983	-125.006983	SM	Blk	Very few liv orgs
41_3	9/20/2010	1240	48.08395	-125.006366	SM	Blk	No comment
5_1	9/9/2010	1626	48.4553	-124.953233	SP	Gr	Good mix of cobble, mud, living orgs, rubble,
5_2	9/9/2010	1636	48.455133	-124.953616	SP	Gr	Well mixed cobble, mud, rubble, gravel pieces,
5_3	9/9/2010	1645	48.455283	-124.95195	MP	Gr	Rubble, cobble, gravel, sticky mud, worms, living
6_1	9/9/2010	1259	48.454316	-124.982033	SP	S	Pebbles and cobble suspended in mud/sand mix
6_2	9/9/2010	1307	48.45545	-124.9822	SP	B	Small bryzoan, worms suspended in sand/mud.
6_3	9/9/2010	1315	48.454966	-124.98155	SP	B	Small bryzoan,tiny lobsters, worms and other
7_1	9/9/2010	1346	48.45585	-125.030166	S	G	A few worms
7_2	9/9/2010	1355	48.455283	-125.031716	S	G	A few worms
7_3	9/9/2010	1405	48.454666	-125.031733	S	G	Sand and a few worms
8_1	9/21/2010	1510	48.454566	-125.077133	CG	B Gr	Cobble, gravel with pebbles, sand, mud, boulders, rich with living orgs.
8_3	9/21/2010	1524	48.4541	-125.077366	GP	B Gr	Cobble, pebble, gravel, sand, mud, worms (Check whether this is 8_3 or 8_2)
9_1	9/21/2010	1540	48.446466	-125.076266	S	Blk	Black sand, brittle stars
9_2	9/21/2010	1555	48.446166	-125.0764	S	Blk	Black sand, brittle stars (No 9_3 sample)

DropNo	Bottom	Depth_meters	Cob_grm	VCGrv_grm	CrsGrv_grm	MedGrv_grm	Peb_grm	VCSand_grm	CrsSand_grm	MudSlt_grm	Cob_prcnt
31_1	S	90	0	0	0	0	0	0	0	1947.52	0%
32_1	S	138	0	0	0	0	0	0	0	925.78	0%
33_1	S	205	0	0	0	0	0	0	0	1205.42	0%
34_1	S	245	0	0	0	0	0	0	0	952.88	0%
37_1	S	147	0	0	0	0	0	0	0	1078.85	0%
37_2	S	150	0	0	0	0	0	0	0	1175.41	0%
37_3	S	153	0	0	0	0	0	0	0	1066.17	0%
38_1	S	131	0	0	0	0	0	0	0	1175.35	0%
38_2	S	132	0	0	0	0	0	0	0	1282.55	0%
38_3	S	130	0	0	0	0	0	0	0	1126.21	0%
39_1	S	152	0	0	0	0	0	0	0	1172.78	0%
39_2	S	146	0	0	0	0	0	0	0	254.9	0%
39_3	S	147	0	0	0	0	0	0	0	1384.9	0%
4_1	H	195									
4_2	H	193									
4_3	H	198									
40_1	S	117	0	0	0	0	0	0	0	1195.57	0%
40_2	S	117									
40_3	S	117	0	0	0	0	0	0	0	1275.18	0%
41_1	S	162	0	0	0	0	0	0	0	1198.47	0%
41_2	S	157	0	0	0	0	0	0	0	1094.03	0%
41_3	S	157	0	0	0	0	0	0	0	962.62	0%
5_1	M	114	0	0	98.44	7.54	40.96	227.3	166.78	186.44	0%
5_2	M	114	0	0	0	25.63	43.83	257.35	174.44	205.81	0%
5_3	M	118	0	0	46.14	77.59	128.75	260.17	148.37	214.86	0%
6_1	M	105	0	84.35	167.7	87.54	102.23	363.07	299.65	252.94	0%
6_2	M	104	0	148.73	86.97	151.79	98.48	272.34	343.84	165.26	0%
6_3	M	103	0	64.75	429.63	109.15	125.58	203.26	105.28	144.73	0%
7_1	S	149	0	0	0	0	0	0	0	1239.81	0%
7_2	S	153	0	0	0	0	0	10.55	118.54	1361.08	0%
7_3	S	153	0	0	0	0	0	0	0	1380.3	0%
8_1	H	177	1508.78	532.55	16.39	45.53	21.7	19.9	24.8	142.78	65%
8_3	H	178									
9_1	S	183	0	0	0	0	0	0	0	2341.04	0%
9_2	S	182	0	0	0	0	0	0	0	1969.78	0%

DropNo	VCGrv_prcnt	CrsGrv_prcnt	MedGrv_prcnt	Peb_prcnt	VCSand_prcnt	CrsSand_prcnt	MudSlt_prcnt	Mega	Bottom	Slope	Complex	Macro	Bio	Class	Simple Classsification
31_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
32_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
33_1	0%	0%	0%	0%	0%	0%	100%	F	s	2	A	*(m)	[o]	Fs 2A *(m)[o]	Fs
34_1	0%	0%	0%	0%	0%	0%	100%	F	s	2	A	*(m)	[o]	Fs 2A *(m)[o]	Fs
37_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)	[o]	Ss 1A *(m)[o]	Ss
37_2	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)	[w]	Ss 1A *(m)[w]	Ss
37_3	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)	[w]	Ss 1A *(m)[w]	Ss
38_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
38_2	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
38_3	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
39_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
39_2	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
39_3	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
4_1															H
4_2															H
4_3															H
40_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
40_2															S
40_3	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
41_1	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
41_2	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)	[w]	Ss 1A *(m)[w]	Ss
41_3	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)		Ss 1A *(m)	Ss
5_1	0%	14%	1%	6%	31%	23%	26%	S	m	1	B	*(smgp)	[o]	Sm 1B *(smgp)[o]	Sm
5_2	0%	0%	4%	6%	36%	25%	29%	S	m	1	A	*(smp)	[o]	Sm 1A *(smp)[o]	Sm
5_3	0%	5%	9%	15%	30%	17%	25%	S	s	1	A	*(smp)	[w,o]	Ss 1A *(smp)[w,o]	Ss
6_1	6%	12%	6%	8%	27%	22%	19%	S	m	1	B	*(smp)		Sm 1B *(smp)	Sm
6_2	12%	7%	12%	8%	21%	27%	13%	S	m	1	C	*(gsmp)	[w,o]	Sm 1C *(gsmp)[w,o]	Sm
6_3	5%	36%	9%	11%	17%	9%	12%	S	m	1	B	*(gpsm)	[o]	Sm 1B *(gpsm)[o]	Sm
7_1	0%	0%	0%	0%	0%	0%	100%	S	s	2	A	*(m)	[w]	Ss 1A *(m)[w]	Ss
7_2	0%	0%	0%	0%	1%	8%	91%	S	s	2	A	*(ms)	[w]	Ss 2A *(ms)[w]	Ss
7_3	0%	0%	0%	0%	0%	0%	100%	S	s	1	A	*(m)	[w]	Ss 1A *(m)[w]	Ss
8_1	23%	1%	2%	1%	1%	1%	6%	S	h	2	C	*(bcgm)	[w,o]	Sh 2C *(bcgm)[w,o)	Sh
8_3															H
9_1	0%	0%	0%	0%	0%	0%	100%	S	s	2	A	*(m)	[o]	Ss 2A *(m)[o]	Ss
9_2	0%	0%	0%	0%	0%	0%	100%	S	s	2	A	*(m)	[o]	Ss 2A *(m)[o]	Ss