

2012

# An analysis of the meroplankton assemblages of Station L4 and the development and application of molecular techniques to aid taxonomic resolution.

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	Eddystone Abundance 21/05/2008 Rep 1	Eddystone Biomass (g) 21/05/2008 Rep 1	Eddystone Abundance 23/07/2008 Rep 1
PROTOZOA			
D290			
D10560			
D10750		3	2
D10750		0.0009	
D11310			
ACTINIARIA			
D13250			
D13410			
TURBELLARIA			
F10			
G1		1	2
G620		0.0005	
NEMERTEA			
HD1		19	18
K20		0.0011	3
L80			1
L80		1	1
N1		0.0011	
SIPUNCULA indet			
N90		1	3
N90		0.7616	
N90		1	0.0001
N109			
N109			
N109			
N109			
N160			
N279			
N279			
ECHIURIDA juv			
O5			
POLYCHAETE BITS			
P200		1	0.0001
P270			
P490			
P600			1
P970			1
P1020		6	0.0059
P1040			58
P1070		2	0.0021
P1100		1	5
P1190		0.0432	
P1200		4	36
		0.001	
P1690			4
			3
P1810			
P1870			
P1890			
P2000		1	0.0003
P2050			1

P2540	Anaitides lineata			
P2530	Anaitides groenlandica			
P2550	Anaitides longipes			
P2560	Anaitides maculata			
P2580	Anaitides rosea			
P2680	Eulalia indet			
P2790	Eulalia mustela	1	0.0008	
P2820	Eumida indet			
P2830	Eumida bahusiensis			
P2850	Eumida sanguinea			
P2960	Nereiphylla rubiginosa	7	0.0091	
P3060	Paranaitis kosteriensis			
P4710	Glycera indet			
P4720	Glycera alba (big)			
	Glycera alba (small)			
P4730	Glycera celtica #1 (>5cm)			1
P4760	Glycera lapidum agg	16	0.0888	7
P4790	Glycera rouxii			
P4810	Glycera tridactyla			
P4870	Glycinde nordmanni			
P4870	Glycinde nordmanni (small)			1
P4910	Goniada			
P4930	Goniada maculata			
P5010	Goniadella gracilis?	3	0.0029	2
P5080	Ephesiella abyssorum	2	0.0011	4
P5320	Hesionidae indet			
P5410	Podarkeopsis capensis	1	0.0001	
	Gyptis	2	0.0018	
P5520	Kefersteinia cirrata	13	0.0038	15
	Kefersteinia cirrata # 1	6	0.0025	6
P5680	Ophiodromus flexuosus			
P5830	Syllidia armata			
P6120	Ancistrosyllis groenlandica	2	0.0042	
P6350	Syllidae larvae			
P6380	Eurysyllis tuberculata	4	0.0009	3
P6610	Trypanosyllis coeliaca	4	0.0026	
P6620	Trypanosyllis zebra			1
P6660	Typosyllis indet	7	0.0049	1
P6700	Typosyllis hyalina			1
P6860	Eusyllis blomstrandii			
P6980	Odontosyllis ctenostoma	7	0.0018	
P7000	Odontosyllis gibba			
P7100	Pionosyllis	5	0.002	
P7280	Syllides benedicti			
P7440	Exogone hebes			
P7450	Exogone naidina			1
P7460	Exogone verugera			
P7510	Sphaerosyllis bulbosa	52	0.0115	31
P7520	Sphaerosyllis erinaceus			
P7555	Sphaerosyllis taylori	5	0.0002	1
P7560	Sphaerosyllis tetralix	3	0.0002	
P7610	Autolytus			3

P7840	Proceraea			1
P8030	Nereididae juv			
P8200	Micronereis variegata	1	0.0001	
P8260	Neanthes irrorata			
P8340	Nereis longissima	2	0.0017	2
P8670	Nephtys Bit			
P8670	Nephtys juv			
	Nephtys indet			
	Nephtys # 1			
P8675	Nephtys assimilis			
P8710	Nephtys hombergii			
P8710	Nephtys hombergii # 1			
P8720	Nephtys kersivalensis			
P8740	Nephtys incisa			
P9050	Pareurythoe borealis	8	0.006	
P9190	Euphrosine foliosa			
P9330	EUNICIDA			
	Eunice indet			
P9680	Eunice # 1	2	0.0522	
P9420	Hyalinoecia tubicola			
P9510	Onuphis sp 1			
P9680	Eunice sp indet			
P9720	Eunice pennata			8
P9910	Nematonereis unicornis			
P9830	Marphysa juv			
P9840	Marphysa bellii			
P9840	Marphysa bellii # 1			
	Abyssoninoe sp?			
	Scoletoma indet			2
P9970	Lumbrineriopsis paradoxa	1	0.0062	1
P10010	Lumbrineris			
P10010	Lumbrineris # 2			
P10020	Lumbrineris agastos			
P10080	Lumbrineris gracilis	8	0.0636	
P10080	Lumbrineris gracilis (big)			3
P10110	Lumbrineris latreilli			
P10120	Lumbrineris magnidentata			
P10280	Arabella # 1			
	Arabella iricolor			
P10660	Ophryotrocha			
	Schistomeringos			
P10970	Parougia caeca			
P11040	Protodorvillea kefersteini			
P11150	Schistomeringos rudolphi			
P11510	Scoloplos			
P11520	Scoloplos armiger			
P11430	Orbinia sertulata			
P11550	Paraonidae indet # 1			
P11580	Aricidea minuta			
P11650	Aricidea catherinae			
P11660	Aricidea cerrutii			
P11790	Levinsenia gracilis			

P11850	Paradoneis lyra			
P12080	Apistobanchus			
P12210	Poecilochaetus serpens			
P12270	Aonides oxycephala	1	0.0076	1
P12280	Aonides paucibranchiata	1	0.0036	
P12480	Laonice indet			
P12500	Laonice bahusiensis	1	0.0046	
P12690	Minuspio cirrifera	18	0.002	6
P12700	Minuspio cf. multibranchiata			1
	Polydora			
P12760	Polydora caeca # agg			
P13020	Prionospio fallax			
P13110	Pseudopolydora cf. paucibranchiata			
P13120	Pseudopolydora pulchra			
P13350	Spio decorata			
P13360	Spio filicornis			
P13430	Spiophanes bombyx			
P13440	Spiophanes kroyeri			
P13710	Chaetopteridae juv			
P13620	Magelona alleni			
P13630	Magelona filiformis			
P13640	Magelona minuta			
	Magelona jonstonii			
P13750	Chaetopterus variopedatus			
P13980	Caulleriella zetlandica			
	Caulleriella alata			
	Caulleriella indet			
P14030	Chaetozone setosa			
	Chaetozone christei			
P14040	Chaetozone gibber			7
P14230	Tharyx #1			
	Tharyx indet			
P13970	Tharyx killariensis			2
P14280	Aphelochaeta # A			
P14301	Monticellina dorsobranchialis			
P14630	Cossuridae			
P14790	Diplocirrus glaucus			
P15300	Capitella			
P15530	Heteromastus filiformis			
P15620	Notomastus (big)			
P15620	Notomastus (small)	1	0.0001	3
P15621	Notomastus (size not measured)			
P15580	Mediomastus fragilis			
P15690	Peresiella clymenoides			
P15910	Maldanidae indet			
P16060	Asychis biceps			
P16230	Clymenura			1
P16300	Euclymene droebachiensis			
P16330	Euclymene oerstedii			1
P16380	Heteroclymene robusta (Big)			
P16380	Heteroclymene robusta (Small)			
P16380	Heteroclymene robusta # 2			

P16430	<i>Johnstonia clymenoides</i>			
P16480	<i>Praxillella affinis</i>			
P16700	<i>Notoproctus</i> spp?			
P17330	<i>Asclerocheilus intermedius</i>			1
P17425	<i>Scalibregma celticum</i>			
P17430	<i>Scalibregma inflatum</i>			
P18010	<i>Polygordius lacteus</i>	5	0.04	27
P18280	<i>Galathowenia oculata</i>			
	<i>Galathowenia</i> indet			
P18360	<i>Owenia fusiformis</i>			
P18430	<i>Amphictene auricoma</i>	1	0.0178	
P18540	<i>Lagis koreni</i>	1	0.0001	
P18860	<i>Melinna palmata</i>			
P19040	<i>Ampharete</i> juv			
P19100	<i>Ampharete lindstroemi</i>			
P19160	<i>Amphicteis gunneri</i>			
P19740	<i>Sosane sulcata</i>			
	Terebellidae indet			
P19830	Trichobranchidae indet (v.small)			
P19900	<i>Terebellides stroemi</i>			
P19950	<i>Trichobranchus glacialis</i>			
P19960	<i>Trichobranchus roseus</i>			
P21080	<i>Hauchiella tribullata</i>			
P21170	<i>Polycirrus</i>			2
P21390	<i>Streblosoma intestinalis</i>			
P20310	<i>Lanice conchilega</i>			
P20510	<i>Neoamphitrite affinis</i>			
P20760	<i>Pista cristata</i>	1	0.0039	
P20860	<i>Pista lornensis</i>			
P20900	<i>Terebella</i> #1			
P21440	<i>Thelepus cincinnatus</i>			
P21500	Sabellidae juv indet			
P21850	<i>Euchone</i> juv			
P22040	<i>Jasmineira caudata</i>	3	0.0019	21
P22440	<i>Potamethus murrayi</i>			
P22550	<i>Pseudopotamilla reniformis</i>			
P22720	Serpulidae			
P22880	<i>Hydroides norvegica</i>			
P23090	<i>Serpula vermicularis</i>			
P24860	<i>Tubificoides amplivasatus</i>			
P24882	<i>Tubificoides insularis</i>			
P24890	<i>Tubificoides pseudogaster</i> agg			
P26110	<i>Grania</i>	1	0.0012	6
Q10	PYCNOGONIDA juv			
Q170	<i>Achelia echinata</i> agg			
Q450	<i>Callipallene brevis</i> stris			2
Q600	<i>Anoplodactylus</i> juv			
Q600	<i>Anoplodactylus</i> indet			
Q620	<i>Anoplodactylus petiolatus</i>			
Q640	<i>Anoplodactylus virescens</i>			
R1940	COPEPODA	19	0.003	2
R35190	MYODOCOPA(soft)			18

R35680	PODOCOPIDA(hard)	10	0.0027	10
R30210	Lepeophtheirus pectoralis			
S60	Nebalia bipes			
S460	Mysidae juv			3
S1660	AMPHIPODA indet			
S1700	Apherusa juv			
S1700	Apherusa			4
S1710	Apherusa bispinosa			
S1750	Apherusa jurinei			
S1760	Apherusa ovalipes			
S1930	Eusirus longipes	1	0.0051	
S2330	Pontocrates altamarinus			
S2280	Perioculodes longimanus			
S2400	Synchelidium maculatum			
S2450	Westwoodilla caecula			
S2510	Pleustidae indet?			
S2720	Amphilochoides boeckii			
S2730	Amphilochoides serratipes			
S2790	Amphilochous manudens			2
S2800	Amphilochous neapolitanus			
S2880	Gitana sarsi	2	0.0001	
S3060	Peltocoxa brevisrostris			
	Leucothoe richiardi			
S3130	Leucothoe incisa			
S3330	Metopa juv	18	0.0005	
S3700	Stenothoe marina			
S4280	Urothoe brevicornis			1
S4290	Urothoe elegans			
S4380	Harpinia antennaria			
S4410	Harpinia pectinata			
S4470	Parametaphoxus fultoni	20	0.0017	25
S4480	Metaphoxus pectinatus			
S4640	Lysianassidae juv	1	0.0001	
S5040	Lepidepecreum longicorne			
S5270	Normanion quadrimanus	2	0.0002	2
S5390	Orchomene nanus			2
S5860	Austrosyrrhoe fimbriatus	21	0.0023	
S6070	Argissa hamatipes			
S6140	Stegocephaloides christianiensis			
S6260	Iphimedia minuta			
S6280	Iphimedia obesa			1
S6350	Odius carinatus			
S6590	Liljeborgia kinahani	1	0.0001	
S6600	Liljeborgia pallida	1	0.0048	
S6660	Listriella mollis			
S6810	Atylus falcatus			
S6820	Atylus guttatus			
S6830	Atylus swammerdamei			
S6840	Atylus vedlomensis			1
S6890	Dexamine indet			
S6900	Dexamine spinosa			
S6960	Guernea coalita	17	0.0022	7

S7070	Ampelisca			
S7070	Ampelisca juv			
S7090	Ampelisca armoricana			1
S7100	Ampelisca brevicornis			
S7200	Ampelisca tenuicornis			
S7180	Ampelisca spinipes	6	0.0213	
S7220	Ampelisca typica			
S7410	Bathyporeia elegans			
S7460	Bathyporeia pilosa			
S7470	Bathyporeia sarsi			
S7480	Bathyporeia tenuipes			
S7900	Megaluropus agilis			
S8050	Melitidae ♀ indet			
S8180	Ceradocus semiserratus	52	0.0799	
S8220	Cheirocratus ♀			
S8250	Cheirocratus sundevallii			
S8350	Eriopisa elongata?			4
S8490	Maera juv			35
S8520	Maera loveni	15	0.0012	
S8530	Maera othonis♀	4	0.0223	29
S8530	Maera othonis (male)			1
S8790	Amphithoe ramondi			
S8980	Gammaropsis maculata			
S9010	Gammaropsis sophiae			
S8950	Isaeidae ♀			
S9230	Photis longicaudata			
S9410	Erichthonius ♀			
S9440	Erichthonius punctatus			
S9720	Aoridae	78	0.0122	
S9860	Leptocheirus			28
S9880	Leptocheirus hirsutimanus			
S9910	Leptocheirus tricristatus	1	0.0015	6
S9950	Microdeutopus juv			
S10170	Corophium juv			
S10260	Corophium sextonae			
S10330	Siphonoecetes striatus			
S13180	Gnathiidae praniza			1
S13220	Gnathia oxyuraea	1	0.0002	
S14070	Cirolana cranchii			
S10720	Caprella acanthifera			
S10760	Caprella linearis			2
S10840	Pariambus typicus			
S10840	Pariambus typicus			
S10890	Parvipalpus capillaceus			
S10960	Phtisica marina	1	0.0002	1
S11010	Pseudoprotella phasma			1
S14840	Janira maculosa			
S15590	Idotea juv	2	0.0001	
S16740	Bopyridae indet			1
S19210	Pseudoparatanaeis batei			1
S19080	Leptognathia gracilis			2
S19310	Tanaopsis graciloides	36	0.0011	



S20220	Eudorella truncatula			
S20550	Nannastacus unguiculatus	7	0.0007	3
S20030	Bodotria scorpioides			
S20120	Iphinoe sp 1			1
S20150	Iphinoe trispinosa			
S20480	Cumella pygmaea	20	0.00018	16
S20550	Nannastacus unguiculatus			
S20720	Pseudocuma longicornis			
S20890	Diastylidae juv			
S20980	Diastylis laevis			
S20960	Diastylis bradyi			
S21010	Diastylis rugosa			
	DECAPODA larvae indet			
	DECAPODA zooae			1
	DECAPODA (Euphausiidae larvae ?)			
	DECAPODA megalopa			
	DECAPODA (paguriidae larvae?)			
	DECAPODA (Caridean larvae?)			
S22080	Palaemon elegans	1	0.0036	
S22390	Athanus nitescens			1
	Processa indet			
S22990	Processa canaliculata			
S23019	Processa modica			
S23280	Crangonidae			
S23310	Crangon crangon			
S23410	Philoceras bispinosus			
S23900	Callianassa subterranea			
S23840	Jaxea nocturna			
S23970	Upogebia deltaura (big)			
S23970	Upogebia deltaura (small <1cm)			
S23990	Upogebia stellata			
S23990	Upogebia stellata (small <1cm)			
S24450	Anapagurus indet			
S24650	Pagurus bernhardus			
S24860	Galathea intermedia	1	0.0208	1
S24890	Galathea dispersa			
S25020	Pisidia longicornis	2	0.0268	46
S25410	Ebalia granulosa			1
S25430	Ebalia tuberosa			
S25750	Inachus juv			
S25760	Inachus dorsettensis			
S25850	Macropodia rostrata			
S26260	Atelecyclus rotundatus			1
S26660	Liocarcinus juv			2
S26690	Liocarcinus depurator			
S26730	Liocarcinus pusillus			1
S27790	Pinnotheres pisum			
	Iona thoracia			
	GASTROPODA indet 1			
	GASTROPODA indet 2			
W550	Leptochiton asellus	1	0.0004	
W740	Lepidochitona cinerea			2

W2670	Hydrobiidae? Rissoa indet			
W2840	Rissoa interrupta			
W3040	Alvania			
W3060	Alvania abyssicola			
W3090	Alvania cancellata?			1
W3100	Alvania cimicoides?			1
W3600	Hyala vitrea			
W3640	Ceratia proxima			
W4350	Caecum glabrum	9	0.0035	8
W4420	Turritella communis			
W4420	Turritella communis juv			
	Turbonilla acuta			
W5240	Ondina?			
W5270	Ondina divisa			
W5450	Odostomia turrita	1	0.001	
W5770	Megastomia conoidea			
W6210	Epitonium turtonis			
W6510	Eulimidae			
W6510	Eulimidae juv	1	0.0001	1
W6530	Eulima bilineata	1	0.0001	
W6890	Vitreolina philippi juv	2	0.0001	
W7000	Aporrhais pespelecani			
W7000	Aporrhais pespelecani juv			
W7260	Crepidula fornicata juv			
W7700	Naticidae juv			
W7750	Polinices montagui			
W7770	Polinices pulchellus			
W7730	Euspira catena			
W8440	Buccinum undatum juv			
W8890	Hinia reticulata			
W9580	Acteon tornatilis			
	Opisthobranchidae indet			
W9640	Scaphander lignarius			
W9690	Cylichna cylindracea			
W9730	Roxania utriculus			
W9790	Philine aperta			
W9790	Philine juv			
W9790	Philine indet # 1			
W10130	Retusa indet			
W10170	Retusa truncatula	1	0.002	
W10940	Akera bullata?			
W10420	Hedylopsis spiculifera	1	0.0001	
W12720	Doto			2
W13190	Acanthodoris pilosa			
W14650	Cuthona			1
W16120	PELECYPODA juv			
	Nucula indet			
W16180	Nucula nitidosa			
W16170	Nucula hanleyi			
W16190	Nucula nucleus			
W16490	Mytilus juv			

W16500	Mytilus edulis juv			
W16640	Musculus discors			
W16830	Modiolula phaseolina juv			
W17020	Striarca lactea			1
W17170	Glycymeris glycymeris juv			
W17740	Pectinidae juv			
W17510	Limatula subauriculata			
W17780	Palliolum tigrinum			
W18050	Aequipecten opercularis			
W18130	Anomiidae juv			
W18380	Myrtea spinifera			
W18420	Lucinoma borealis			
W18420	Lucinoma borealis juv			
W18500	Thyasira			
W18520	Thyasira flexuosa			1
W18800	Semierycina nitida			2
W18970	Montacuta substriata?			
W19010	Devonia perrieri			
W19050	Mysella bidentata			
W19110	Tellimya ferruginosa			
W19530	Goodallia triangularis			
W19650	Cardiidae juv			
W19680	Acanthocardia aculeata			
W19690	Acanthocardia echinata			
W19690	Acanthocardia echinata juv			
W19750	Parvicardium exiguum			2
W19780	Parvicardium scabrum			
W19870	Laevicardium crassum			
W19870	Laevicardium crassum juv	1	0.0005	
W19970	Mactra			
W19980	Mactra stultorum			
W20020	Spisula juv			
W20060	Spisula subtruncata			
W20320	Phaxas pellucidus (big)			
W20320	Phaxas pellucidus juv			
	Angulus indet			
W20450	Angulus squalidus			
W20510	Arcopagia crassa			1
W20570	Fabulina fabula			
W20630	Moerella pygmaea	1	0.0001	
W20850	Gari juv	10	0.0022	
W20870	Gari fervensis			
W20890	Gari costulata	2	0.3775	2
W20900	Gari tellinella			
W22010	Timoclea ovata			
W21020	Abra alba			
W21040	Abra nitida			
W21050	Abra prismatica			
	Lutraria lutraria juv			
W20110	Lutraria lutraria			
	Ensis ensis juv			
W20250	Ensis ensis			

W21110	<i>Solecurtus scopula</i>			
W21150	<i>Azorinus chamasolen</i>			
W21550	<i>Gouldia minima</i>	1	0.0526	2
	<i>Dosinia juv</i>			
W21640	<i>Dosinia lupinus juv</i>			
W21660	<i>Dosinia exoleta</i>			1
W21850	<i>Venerupis senegalensis</i>	1	11.0508	1
W21850	<i>Venerupis senegalensis juv</i>			
W21890	<i>Chamelea gallina juv</i>			
W21890	<i>Chamelea gallina</i>			
W21930	<i>Clausinella fasciata</i>	2	0.5287	
W22130	<i>Mysia undata</i>			
W22390	<i>Corbula gibba</i>			
W22510	<i>Hiatella arctica juv</i>			
W23480	<i>Thracia juv</i>			
W23500	<i>Thracia convexa</i>			
W23510	<i>Thracia phaseolina</i>			
W23610	<i>Cochlodesma praetenuae</i>			
ZA30	<i>Phoronis</i>			
ZB310	ASTEROIDEA			
ZB410	<i>Astropecten irregularis</i>			
ZB2040	OPHIUROIDEA juv			
ZB2350	<i>Ophiothrix fragilis</i>			
ZB2420	<i>Ophiocomina nigra</i>	1	0.0183	3
ZB2830	<i>Amphiura juv</i>	8	0.0053	10
ZB2860	<i>Amphiura chiajei</i>			
ZB2880	<i>Amphiura filiformis</i>			
ZB3000	<i>Amphipholis squamata</i>	9	0.018	6
ZB3110	<i>Ophiura juv</i>	3	0.0014	
ZB3130	<i>Ophiura albida</i>			
ZB3150	<i>Ophiura ophiura</i>			
ZB3520	ECHINOIDA juv	1	0.0001	17
ZB3550	<i>Psammechinus miliaris</i>			
ZB3880	<i>Echinocyamus pusillus</i>	16	0.054	24
ZB4010	<i>Spatangus purpureus juv</i>	2	0.0479	4
ZB4010	<i>Spatangus purpureus</i>	1	0.0233	
ZB4070	<i>Echinocardium cordatum juv</i>			8
ZB4070	<i>Echinocardium cordatum</i>			
ZB4640	<i>Leptopentacta elongata</i>			
ZB5260	<i>Leptosynapta inhaerens</i>			
ZB5330	<i>Labidoplax digitata # agg</i>			
	<i>Branchiostoma lanceolatum</i>	2	0.1868	1
ZD1410	<i>Ascidiella aspersa</i>			
	Total numbers	650	13.57168	678

Eddystone Biomass (g) 23/07/2008	Eddystone Abundance 23/07/2008	Eddystone Biomass (g) 23/07/2008	Eddystone Abundance 23/07/2008	Eddystone Biomass (g) 23/07/2008	Eddystone Abundance 23/07/2008
Rep 1	Rep 2	Rep 2	Rep 3	Rep 3	Rep 4
0.0039	1	0.0045			4
	3	0.0015			1
0.0229	2	0.0022	5	0.0331	
0.0056	31	0.0064	38	0.0054	36
0.001					
0.001	9	0.0018	2	0.0001	2
0.186					1
			1	0.3239	1
	5	0.0023	8	0.0041	
0.0053					
0.0119	3	0.0033			
			12	0.0118	18
0.0321					19
0.2986	5	0.0091			4
0.0089	1	0.039	6	0.0312	
0.0016					
0.005					2
0.0028					

			1	0.0027	1
	3	0.0019			1
					1
0.1053 0.0519	17	0.1251	8	0.2036	7
	1	0.2476			
0.0027					
0.0037 0.004	4	0.0066	3	0.0109	4
	1	0.0017			2
					11
0.0055 0.0014	1	0.0001	1	0.0001	
			4	0.0009	1
0.0014	1	0.0001	1	0.0001	8
					6
0.0006 0.0008 0.0024	2	0.0035	4	0.0111	7
					4
	2	0.0001	4	0.0808	1
0.0001					
0.0068	9	0.0018	21	0.0048	71
0.0001					
0.0006					1

0.0001	1	0.0001	1	0.0002	
			1	0.0001	1
0.0212	1	0.002	3	0.0609	1
	1	0.0852			
			3	0.0038	
					1
0.1345			3	0.0265	8
	1	0.0021			
0.0006	1	0.0033			
0.0116					2
	1	0.0058	2	0.0139	5
0.0304					
	1	0.3615			
	1	0.0025			
	2	0.0026			

					1
0.0086	5	0.0114	6	0.0135	5
			1	0.0042	
0.0007			1	0.0001	5
0.0014					
					1
	1	0.0001			
					1
0.0054	5	0.0045	1	0.0001	
			3	0.0015	1
0.0012					
0.009			1	0.0013	1
					3
0.0009					
0.0012	1	0.0017			



0.0027	2	0.0002	1	0.0001	3
0.0069	96	0.0343	52	0.023	40
					2
0.0071					1
			1	0.0017	
0.0631	76	0.1992	1 91	0.0001 0.4563	28
0.0006			1 1	0.0001 0.0001	3
0.0011					
0.0001	12	0.0028	9	0.0018	5
0.0043	1	0.0001			2

0.0012	1	0.0001	3	0.0005	2
0.0002					
0.0008	4	0.0017	5	0.0017	
					5
					1
0.0003			1	0.0001	
	1	0.0001	5	0.0002	2
	1	0.0022	1	0.0054	
0.0025					
0.0027	2	0.0001	9	0.0015	20
					1
0.0002					
0.0001					6
0.0015					1
0.0038					
	4	0.0021	15	0.0019	
0.0007	35	0.0041	36	0.0037	6

0.0212

7 0.1019 10 0.0343 12

10 0.0041 13 0.0039 35

0.0002  
0.0054

2 0.0002 5 0.0006 2

0.1053  
0.0135

2

6 0.0009 7 0.0033 14

0.004

0.0055 1

0.0001 3 0.0023 2  
1 0.0004 1

0.0001 1 0.0001

1

0.0009  
0.0001

1 0.0001 1 0.0005  
3 0.0001

0.0001  
0.0001  
0.0001

1 0.0001 9 0.0004 5

0.0005	5	0.0003	5	0.0004	5
0.0006	1	0.0002			
0.0014			4	0.0003	7
	1	0.0008			
0.0001	1	0.0002			
			2	0.0013	2
0.0105					
0.0055					
0.6644					3
0.0102					
2.7975					
0.0557	1	0.0098	1	0.0022	1
1.2484					
	1	0.0001	1	0.0001	
	1	0.0015			
0.002					

0.0012  
0.0009 1

0.0021 2 0.0002 26 0.0065 5

0.0001 1 0.0001

0.0014  
0.0002 1 0.0001 1 0.0001 1

4 0.0061 2

0.003			1	0.0086	2
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	6	0.021	9	0.0396	4
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0.0028					
0.0009			2	0.0001	1

0.0016					1
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25.2559					
	1	0.0013	1	0.0003	
	8	0.0034	8	0.0028	1

0.0032			1	0.1978	
	2	1.0336			
	1	0.0018	2	0.0016	

	1	11.3012			
0.7108					
23.503					
1.0306	1	1.0183	1	0.0049	
	2	1.255	2	2.2469	4
			1	0.0035	
	1	0.0002			2
0.0074			1	0.0025	
0.0084	20	0.0047	22	0.0071	9
0.0052	3	0.0049	5	0.0055	
0.0271	1	0.0001			3
0.0651	51	0.1456	23	0.0959	18
0.0127	1	0.0001	3	0.0004	
			1	0.3259	
0.011			4	0.0068	3
			1	0.0003	
0.0253	7	1.308	5	1.1267	1
					1
56.7047	497	16.0956	563	4.3624	525





					1
0.0001			1	0.0001	
0.0001	1	0.0004			
0.0006					3
0.2337	14	0.0116			2
0.0031	6	0.1136			1
0.002	1	0.001			
0.0029	1	0.0001			1
0.0001					
0.0017	1	0.0001			
0.002					
0.0047	5	0.0024			
0.0018	2	0.0006			
0.0001	2	0.0007			
			4	0.0001	31
					6
0.0189	13	0.0027			
0.0001					

0.0001

0.0006

5

0.0541

1

0.0219

2

2

0.0009

0.0379

0.1328

5

0.0699

3

0.0014

0.0217

2

0.0109

3

10

0.0172

5

1

0.0012

0.0015					1
					1
0.0097	6	0.0034			
0.0005					2
0.0001					
					27
0.0001					
			1	0.0118	4
			94	0.0641	54
			116	0.07	78
			46	0.1059	2
0.0001					
					1
0.0001			230	0.6744	658
					2
					118
			1	0.0001	12
					9
			3	0.0002	
0.0035	2	0.0078			6
					9
0.0039					1
					6
			2	0.0018	36

0.0002	9 1	0.0006 0.0002			3
0.0228	188	0.0576	1	0.0006	31
			1	0.0074	1
					3
			8	0.1576	2
					120
			1	0.0054	5
0.0001					
					1
0.0023					1
	1	0.0145			
0.0761	42	0.0874			
0.0003	3	0.0029			
0.0026 0.0007			4	0.0021	

0.0003	2	0.0001			1
	1	0.0001			
0.0043	4	0.0009			
			1	0.0001	
			3	0.0015	4
0.0011					
0.0012	1	0.0001			
	1	0.0194			
			1	0.0001	2
					11
0.0037	2	0.0006			
0.0001					
0.0002	14	0.0022			1
0.0001					
	4	0.0005			
	2	0.0005			
	3	0.0219			
0.0006	38	0.0038			

			1	0.0002	9
			2	0.0069	5
0.231	4	0.0428			
			2	0.0012	
0.0204	6	0.0004			
	1	0.0001			
0.0132	2	0.0028			
0.0009					
0.0032	4	0.0008			4
	1	0.0023			
0.0019					
0.0031	1	0.0002			
0.001					
0.0001					6
0.0001			2	0.0019	8



0.0001

0.0012

9

0.0019

1

1

0.0039

1

1

0.1361

1

2.6219

5

1

0.0012

2

0.3594

13

0.0797



					2
0.0034	8	0.0039			
	1	0.0004			
0.398	2	0.0044			
			1	0.0294	
0.0001	1	0.002	1	0.0099	33
			2	0.0373	7 11
	1	0.0013			8
0.0282					
			1	0.036	3
			11	0.206	1
			2	0.0029	2
			1	4.4317	
			1	0.0081	
0.0001	1	0.0004			
	2	0.0015			
	3	0.1845			
	1	0.239			
			5	0.014	37
			12	0.0138	

			1	0.3098	1
			2	0.0148	
			4	6.1614	1
2.2349	1	0.492			
	1	0.0015			2
					1
0.0005					3
0.0054	19	0.0036			
					1
					1
0.0013	1	0.0001			
0.1312	44	0.185			
	1	0.0001			
0.003					
					1
					1
			7	2.4431	
0.1933	3	0.7272			
0.0075					
5.1481	617	1.9719			1492

Cawsand Biomass (g) 03/09/2008	Cawsand Abundance 03/09/2008	Cawsand Biomass (g) 03/09/2008	Cawsand Abundance 03/09/2008	Cawsand Biomass (g) 03/09/2008	Cawsand Abundance 03/09/2008
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Rep 1	Rep 2	Rep 2	Rep 3	Rep 3	Rep 4
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0.0015	3	0.0006	1	0.0015	1
0.0268	33	0.0169	26	0.0127	1
0.0001	7	0.0002	13	0.0006	55

0.2116	1	0.2556	1	0.0591	24
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0.0006	1	0.0008			1
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0.005

1

0.2028

4 0.0002

2

0.0004

4 0.0036

5

0.0031

5 0.0034

4 0.0038

2

0.0749

0.002

0.006  
0.0001

25 0.0051

48  
6 0.0094  
0.0001

43  
7

1

					1
	4	0.0038	2	0.0042	2
0.3027	3	0.3991	1	0.0234	2
			1	0.4771	
0.0001	2	0.0001			
	2	0.0006	2	0.002	
			1	0.0008	
0.0209	2	0.0259	5	0.048	3
			1	0.0017	1
					1
0.0048	7	0.0185	4	0.0042	11
0.0007	1	0.0002	1	0.0001	2
					1

0.0001			2	0.0013	1
0.0021			1	0.0014	2
0.0014			3	0.0012	
	1	0.0009			
0.0058	25	0.0034	27	0.005	7
	1	0.0057			1
					1
0.0052	3	0.0035	7	0.0166	6
0.0306	93	0.0457	105	0.037	61
0.0148	71	0.0168	50	0.0097	79
0.0012	2	0.0004	7	0.0027	1
	79	0.0522	21	0.0142	43
0.0018					
0.4319	541	0.307	219	0.1826	309
0.0011					
0.0729					
0.0042	37	0.0186	43	0.0136	83
0.0635	4	0.0222	4	0.0315	5
	1	0.0001	1	0.0002	3
0.2266	4	0.0388			3
0.0038	4	0.0026	11	0.0198	8
0.0001					
0.016	1	0.0009	7	0.0038	27
0.0917	33	0.0538	47	0.0269	54

0.0056	34	0.0432	10	0.0068	14
					2
0.0054	17	0.0053	20	0.0039	5
0.0111	2	0.0093			2
0.0709			4	0.0092	1
0.0006					2
0.9504	82	0.5097	108	0.5788	74
0.0159			6	0.0191	1
	1	0.0003			
0.0265	1	0.0258	3	0.0314	
0.0021					
	1	0.0025	1	0.0081	
	1	0.0001			1
	2	0.0013	2 6	0.0026 0.0032	3

0.0001

4

0.0045

0.0022

1  
17

0.0004  
0.0031

1  
2

0.0005  
0.0001

11

0.0035

1

0.0001

3

0.0045

16

0.0066

26

0.0098

13

0.0001

1



0.0058	6	0.0125	3	0.0072	1
0.0048	16	0.0133	11	0.0121	9
	1	0.0014			1
			1	0.0006	
0.0011	1	0.0003			4
			1	0.0001	
			1	0.0001	
0.0012	10	0.0022	1	0.0001	14
0.0001	5	0.0004	10	0.0013	3

0.001  
0.0001

2

0.0012

0.0006

5

0.0005

1

0.0006

6

1

0.0008

1

0.0028

1

0.0055

1

0.0033

0.0001

1

0.0001

1

0.0001

0.0012

1

2.4251

2

0.0001

1

1.5369

5

15.068

0.0237

4

0.0082

5

0.0106

2

0.0018

1

0.0013

1

0.0001

0.1052

7

0.0074

6

0.0226

21

0.0002			2	0.0002	1
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0.0592	30	0.1425	41	0.0684	35
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0.0128	19	0.0357	36	0.077	21
0.0053	1	0.0001	2	0.0004	

0.0034	5	0.0012			
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1

0.0009	2	0.0256	3	0.0001	
0.4235			2	0.1282	

0.0001	3	0.0007	1	0.0002	
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	1	4.0117	1	0.0676	
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0.0422	27	0.0153	31	0.019	1 16
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0.7574	1	0.3768			1
1.5282	1	0.8783	1	0.3847	1
			1	1.2672	3
	1	0.0055			1
0.0009	2	0.0009	4	0.0018	4
0.0176			1	0.5984	
0.0014	4	0.0009	1	0.0006	4
0.0297					
0.0069	5	0.3663	5	0.4201	2
2.3294			1	0.8667	
0.0378					1
8.3456	1341	11.7865	1049	20.7273	1152

Cawsand Biomass (g) 03/09/2008	Cawsand Abundance 03/09/2008	Cawsand Biomass (g) 03/09/2008	Cawsand Abundance 14/01/2009	Cawsand Biomass (g) 14/01/2009	Cawsand Abundance 14/01/2009
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Rep 4	Rep 5	Rep 5	Rep 1	Rep 1	Rep 2
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0.0012	2	0.0021	3	0.0057	
0.0815					
0.0541	10	0.1785	33	0.3036	33
0.0002			4	0.0001	11

	1	0.0294			
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	1	0.0019			
--	---	--------	--	--	--

0.0074

0.0013			1	0.0034	
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	1	0.0005			
	2	0.0521			
			1	0.0009	
0.0003					
0.0047	12	0.0064	8	0.0042	2
0.0016	4	0.0037			
			1	0.0009	1
			8	0.0471	2
0.0076	18	0.0033	22	0.0044	32
0.0002	3	0.0002	2	0.0001	7
0.0002					

0.0045

0.003

1

0.1436

2

0.346

2

0.2511

4

1

0.0701

1

0.0005

0.0002

2

0.0113

7

0.037

1

0.0004

1

0.0002

0.0001

8

0.0052

25

0.0261

20

0.0146

0.0005

0.0015

1

0.0001



0.0003			3	0.0001	2
0.0018					
	1	0.0013	1	0.0001	
			1	0.0008	
	1	0.0013			
0.0092	13	0.0021	3	0.0004	5
0.0007			1	0.0005	
0.0002					
0.0037	8	0.0233	9	0.0105	6
0.0214	72	0.0334	107	0.0355	120
0.0128	63	0.0102	64	0.0132	65
0.0003					2
0.0199	12	0.0069	87	0.0505	54
0.1341	215	0.1205	445	0.2865	293
0.0283	8	0.0023	19	0.0035	16
0.0103			1	0.0045	1
0.0019	1	0.0009			1
0.3399					5
0.0238	9	0.0737	9	0.2398	4
					1
0.0137	11	0.0085	2	0.0015	7
	38	0.0532			
0.153			30	0.073	68

0.0172	4	0.0053			10
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0.0317

0.0006	2	0.0004	28	0.0055	35
--------	---	--------	----	--------	----

0.0203

7

0.1479

2

0.0209

0.0012

1

0.0011

3

0.0566

0.0001

0.6325

121

1.1762

187

1.5732

142

0.0006

1

0.0016

6

0.0016

6

2

0.0212

2

0.034

3

1

0.0015

1

0.0003

0.0026

1

0.0002

1

0.0004

1

0.0001

2

0.0043

1

0.0023	1	0.0003			
	6	0.0011	5	0.001	5

0.002	2	0.0018	5	0.0016	5
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0.0083	10	0.0074	26	0.0116	34
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0.0001

0.001			2	0.0065	
0.005	8	0.0159	18	0.0079	23
0.0008					1
			1	0.0009	
0.002	1	0.0005			
			1	0.0001	
0.0012	5	0.0004	8	0.001	9
0.0002	8	0.002	7	0.0005	8

	1	0.0002	6	0.0022	4
0.0003	3	0.0003	4	0.0007	2
0.0001	1	0.0001			

	1	0.0096	1	0.0047	
--	---	--------	---	--------	--

0.008

	1	0.0001			1
--	---	--------	--	--	---

4.6133

1 0.0321

1 0.412

1 0.0004

2

0.0016

2

0.0092

2

0.012

1

1

0.0001

0.2788

6

0.135

5

0.1066

2

1

0.0001

2

1 0.0323

1 0.0001

0.1369

23

0.112

30

0.1247

50

0.0637

4

0.0182

19

0.0494

14

1 1.8132

1

0.2147

1 0.0041

2 0.0001

4

0.002

0.0116

0.1536

28

0.0179

15

0.0137

19

0.7416			1	1.3937	
0.0001	1	0.0001	3	0.0178	
1.0993			3	1.9733	
0.201					1
0.0005			4	0.1953	
0.0032	3	0.0012	1	0.0006	2
			1	0.0717	
	1	0.333			1
0.0009	1	0.0006	20	0.0108	6
0.0548	1	0.0168	3	0.1678	5
			4	0.0038	8
					1
0.1508	1	0.0762	1	0.042	
9.5701	783	3.1988	1339	9.5843	



Cawsand Biomass (g) 14/01/2009	Cawsand Abundance 14/01/2009	Cawsand Biomass (g) 14/01/2009	Cawsand Abundance 14/01/2009	Cawsand Biomass (g) 14/01/2009	Cawsand Abundance 14/01/2009
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Rep 2	Rep 3	Rep 3	Rep 4	Rep 4	Rep 5
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0.0152			24	0.0361	32
0.0001			2	0.0001	1

			2	0.248	
--	--	--	---	-------	--

2

			1	0.0173	
--	--	--	---	--------	--

		1	0.0017	
0.0022		3	0.0015	3
		1	0.023	
0.0017				
0.0091				
		2	0.0419	1
				2
0.0047		30	0.0052	16
0.0001		7	0.0001	2

0.0022

5

0.524

5

0.9167

6

0.0001

1

1

0.0001

0.0128

11

0.0165

12

1

0.0005

2

2

0.001

2

0.0001

1

0.0156

9

0.0135

3

0.0645

66

0.0249

110

0.0128

50

0.0089

55

0.0005

2

0.0014

0.0199

12

0.0081

33

0.1868

269

0.1828

312

0.0054

7

0.0009

15

0.0004

2

0.0251

1

0.0015

1

0.1901

0.003

1

0.0033

7

0.0001

0.004

11

0.006

9

0.1638

74

0.1869

63

0.0148	8	0.0075	25
0.007	10	0.002	
	1	0.0181	9 1
0.0116	82	0.9015	146
0.0034	8	0.0239	3
0.0273			3
	1	0.0099	
0.0001			
	1	0.0001	
0.0012	1	0.0001	

0.0009

10

0.0014

2

2

0.0009

0.0016

4

0.0022

3

0.0199

36

0.0113

30

1

1

0.0101	2 14	0.002 0.0043	1 10
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0.0006

1	0.0005
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1

0.001	12	0.0009	4
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0.0005	4	0.0009	5
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0.0008

11

0.0028

3

0.0004

2

0.0002

1

1

1

0.0036

1

0.0016



5 0.0018

2

0.2734

1 0.0001

1 0.0357

2

0.0004

5 0.0036

4

0.0012

4

0.0001

3 0.0028

0.0001

2

0.0014

0.2193

23

0.0996

39

0.0249

31

0.031

14

1

0.0007

63.5276

1

0.0035

3

1

0.016

17

0.0097

28

		1	0.116	
				1
		2	0.1475	2
0.3922				2
0.002		1	0.0008	1
0.1183				
0.0047		2	0.001	9
		1	0.0018	
		8	0.0012	6
0.1312		8	0.4106	11
0.0029				
0.1831				
		1	1.2508	3

Cawsand Biomass (g) 14/01/2009	Cawsand Abundance 18/07/2008	Cawsand Biomass (g) 18/07/2008	Cawsand Abundance 18/07/2008	Cawsand Biomass (g) 18/07/2008	Cawsand Abundance 18/07/2008
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Rep 5	Rep 1	Rep 1	Rep 2	Rep 2	Rep 3
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		1	0.0013	2	0.0273	2
0.101		20	0.2693	16	0.1017	15
4.8005		32	0.0018	15	0.0015	18

				1	0.0001	
--	--	--	--	---	--------	--

		1	0.15			
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0.0124

		1	0.0398			
--	--	---	--------	--	--	--

		1	0.0001			
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	1	0.0001			1
0.0024	2	0.0001			5
	1	0.0028			1
			1	0.0133	
0.0103	1	0.0001	2	0.0891	1
0.0206					2
0.0027			23	0.0033	26
0.0001	53	0.0052	27	0.001	16

					1
0.0122	1	0.0007			
0.9013	4	0.9096	3	0.5262	2
					1
			1	0.0001	1
0.0143					1
			1	0.0001	
0.0062	5	0.0034	7	0.0135	6
	1	0.0007			
			1	0.0001	
0.0001					

	1	0.0005	2	0.0008	
	1	0.0001			
0.0015					
			1	0.0001	
0.0047					
0.0001	11	0.0032	7	0.0015	18
	1	0.001	1	0.0017	
0.003	3	0.0077	1	0.0055	2
0.0661	169	0.0742	89	0.033	93
0.0124	63	0.0154	38	0.0066	67
	1	0.0031	1	0.0016	1
0.015	91	0.0317	32	0.0155	35
0.278	373	0.1739	196	0.1369	191
0.0058	3	0.0004	41	0.0099	32
0.0045	1	0.0087	4	0.0116	7
0.0002	1	0.0001	3	0.0003	
			2	0.1873	10
0.0158	4	0.0156	3	0.0375	
0.0026	5	0.0032	13	0.0177	14
0.112	105	0.2079	36	0.0588	63

0.0144	2	0.0017	3	0.0049	5
	2	0.0025	2	0.0173	
	12	0.0012	3	0.0009	10
0.1059	2	0.0371	6	0.1336	3
0.0055	1	0.0003			
	1	0.0004			
1.8126	159	1.514	65	0.4201	143
0.0093	1	0.0019	1	0.0077	1
0.0334	1	0.0092	4	0.0602	3

1	0.0001
1	0.0001



0.0001	1 11	0.001 0.0015	1 4	0.0001 0.0004	6
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0.0033			1	0.0007	1
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0.012			7	0.0023	12
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0.0008	17	0.0056			
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0.0013

0.0014	7	0.009	3	0.0097	6
0.0055	22	0.0112	13	0.0213	5
			1	0.0001	
					2
			3	0.0006	
0.0001			1	0.0001	
	1	0.0001	1	0.0001	
0.0002	5	0.0004	4	0.0001	4
0.0001	25	0.0024	11	0.001	12

0.0008	4	0.0015	1
			1

0.0001	3	0.0001	4
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0.0004

1	0.0002
---	--------

1

0.0111

1	0.0005
---	--------

1	0.0457
---	--------

1	0.0252
---	--------

1	0.0001
---	--------

	1	0.003			
	5	0.0045			
3.3624	3	9.3486			
	1	0.0014			1
0.2799					
	1	0.04	1	0.2449	
			1	2.3054	
0.0062	2	0.0052	2	0.0034	1
	1	0.0064			
0.004	9	0.0946	16	0.3421	11
					2

					2
0.2453	21	0.2107	22	0.0655	27
0.0247	5	0.0145	10	0.0459	45
	1	0.0426			
0.0009	5	0.0669	4	0.0755	2
0.0103					
0.2057	68	0.5534	36	0.726	1
	2	0.0086			17
	2	0.1566	1	0.1833	8
			1	0.0204	
	2	0.0212			

					1
0.002			1	0.0001	1
0.9832	2	1.2731	3	0.9495	3
	1	0.013			
0.0027	1	0.0584			
0.0017	3	0.0157	2	0.0001	
0.0035	3	0.0018	2	0.0011	8
0.0021	2	0.0023			
0.8696	1	0.0933	4	0.3772	9
	2	0.0002			1
					2
			3	0.0004	
0.208	5	0.9783	1	0.0024	1

Cawsand Biomass (g) 18/07/2008	Cawsand Abundance 18/07/2008	Cawsand Biomass (g) 18/07/2008	Cawsand Abundance 18/07/2008	Cawsand Biomass (g) 18/07/2008	Cawsand Abundance 18/11/2008
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Rep 3	Rep 4	Rep 4	Rep 5	Rep 5	Rep 1
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0.0017	5	0.0405	2	0.0016	
0.0325	20	0.1781	36	0.2871	29
0.0001			13	0.0002	2

	1	0.1787			
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1

	1	0.0013			
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0.0002	1	0.002	1	0.0022	1
0.0002			2	0.0002	1
0.0312					5
					1
0.0785	3	0.0818	1	0.0001	1
0.0005					1
0.0035	57	0.0064	48	0.0056	23
0.0006	5	0.0005	8	0.0005	10



0.0001	1	0.0007
	1	0.0423

0.4372	3	0.382	6	0.5573	8
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0.0003

0.0001

0.0038

2

1	0.0001
1	0.0001

0.0056	2	0.0057	13	0.0216	14
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	3	0.0009	1	0.0001
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	1	0.0001			
	1	0.0009	1	0.0007	
			1	0.002	
			2	0.0043	
			2	0.0013	
0.0025	3	0.0009	11	0.0024	5
	1	0.0006			1
0.0029	2	0.0086	4	0.0178	6
0.0516	110	0.0423	160	0.0755	132
0.021	59	0.0139	47	0.0116	56
0.0002			2	0.0012	
0.0101	39	0.0173	41	0.0142	49
0.1612	224	0.1792	229	0.2893	315
0.0082	30	0.0045	40	0.0183	4
0.0113	2	0.0127	4	0.0382	5
			4	0.0012	
0.2352	1	0.0009	2	0.0823	
			7	0.0156	3
			1	0.0002	
0.0122	2	0.002	19	0.0206	15
0.1237	82	0.6588	139	0.5318	93

0.0034	7	0.0091	18	0.0156	14
	1	0.0101	2	0.0166	
0.0005			24	0.0037	16
0.0756	1	0.0125			9
	2	0.0624			5
6.6714	115	1.5214	2	0.0017	
			175	1.4379	140
0.0018	2	0.0023	3	0.0007	7
0.0742	1	0.0483	1	0.015	

1

1      0.0002      4  
2

0.0007	2	0.0004	1	0.0001	$\frac{2}{5}$
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0.0001	2	0.0018			2
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0.0055	8	0.0031	10	0.0013	23
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	1	0.0298			
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0.0133	3	0.0086	2	0.0042	
0.005	20	0.0053	14	0.0073	12

1	0.0002				
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0.001

7	0.0021				1
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1	0.0001				
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0.0002	1	0.0002	7	0.0004	4
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0.0014	7	0.0004	13	0.0012	9
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0.0016

2

0.001

0.0012

0.0007

3

0.0012

2

0.0017

1

0.0001

					1
			1	2.1513	
0.0903					
	1	4.673	1	5.3033	1
					1 2 1
0.0004			3	0.0059	2
0.1688	12	0.2261	13	0.1804	13
0.0005					

	1	0.0507			
0.0212					1 1
0.1222	12	0.0681	20	0.0236	22
0.1187	55	0.1533	11	0.0269	2 4
	1	0.0008			
	1	0.355	1	0.3164	
0.0272	5	0.1102	3	0.0449	1
					1
0.0024 0.0024 0.0539	15	0.5537	41	0.3169	18
			1	0.2493	



0.0103	1	0.4505	1	0.0266	2
0.0001			1	0.029	5
2.0525			2	2.0764	3
	1	0.6526			1
			3	0.0011	2
	3	0.2723			
0.0128	3	0.0038	9	0.0188	5
					1
0.7483	8	0.9763	1	0.0599	3
	1	0.0068			
0.0898					
0.0001			1	0.0001	1
			1	0.0001	1
0.5228					1

Cawsand Biomass (g) 18/11/2008	Cawsand Abundance 18/11/2008	Cawsand Biomass (g) 18/11/2008	Cawsand Abundance 18/11/2008	Cawsand Biomass (g) 18/11/2008	Cawsand Abundance 18/11/2008
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Rep 1	Rep 2	Rep 2	Rep 3	Rep 3	Rep 4
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				1	0.0194	
0.439	22	0.0107	30	0.1246	25	
0.0001	3	0.0001	5	0.0001	1	

0.0029				1	0.001
	1	0.0027			
	1	0.0656			

0.0011					1
					1
0.0001					1
0.0009	10	0.0033	8	0.0082	6

0.0099	7	0.0302	3	0.0118	2
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0.03

0.0066	1	0.0034			
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0.0046	40	0.0006	48	0.0092	23
0.0004	10	0.0008	9	0.0001	15

	1	0.0003			
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	2	0.0101			2
1.5377	3	0.0603	4	0.5616	1
					1
0.0186	6	0.3791	1	0.0013	1
					1
0.015	32	0.0387	24	0.018	23
			2	0.0001	1

	2	0.0006	1	0.0005	
			1	0.0005	1
					1
0.002 0.0014	2	0.001	1	0.0018	2
0.017 0.0641 0.0111	8 110 38 1	0.0145 0.0417 0.0075 0.0001	3 102 90 1	0.0053 0.0474 0.0216 0.0016	1 89 77
0.0251	36	0.0138	41	0.0165	37
0.215	384	0.3266	440	0.288	355
0.0005	2	0.0003	28	0.0069	6
0.062	4	0.0328	1	0.0052	2 2
0.0163	10	0.0981	7	0.0663	7
0.0093	19	0.023	7	0.003	18
0.1801	90	0.2825	66	0.1553	77

0.0108			6	0.0101	19
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0.0037	18	0.004	1	0.0001	
0.1624	3	0.0603	5	0.1749	1
0.0438	1	0.0057			2
			1	0.0014	
1.2322	167	1.126	105	1.38	114
0.0009	3	0.0012	4	0.0158	6

	1	0.0153	4	0.1246	2
			1	0.0001	
					1

0.0001

0.0001	1	0.0001			
0.0019	1	0.0013			1

					1
0.0011	2	0.0003			1
0.0006	8	0.0016	7	0.0009	4
					1

0.0007	2	0.0006	3	0.0019	1
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0.0055	29	0.0148	22	0.0093	21
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			1	0.0001	
					1

	1	0.0001			
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0.0036	6 18	0.0174 0.0077	1 18	0.0007 0.013	3 12
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1

2

1

1	0.0001
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0.0019					2
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1	0.0001
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0.0003	4	0.0001	11	0.0014	5
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0.0009	5	0.0003	2	0.0001	6
--------	---	--------	---	--------	---



4 0.0006 2 0.0009 2

0.0008 4 0.0002 1

1 0.0017

1 0.0033

1

0.0003	2	0.0013			
			1	3.1108	
5.9446					1
	3	0.1748			
0.0977 0.0652 2.9256	1	2.1463			1
0.0001	3	0.0022	3	0.0147	2
0.194	9	0.0761			5
			13	0.1986	

	1	0.0005	1	0.0001	
0.0224 0.0001					1
0.1014	35	0.1424	26	0.2222	22
0.0072 0.0011	3 2	0.0085 0.0001	22 7	0.0831 0.001	1
0.0031			1	0.0009	1
	3	0.0017	1	0.0038	1
0.3161					1
0.0168	6	0.0034	10	0.0092	10

	1	0.0015	1	0.0282	1
0.4744			1	2.135	1
0.0065	2	0.0019			1
1.7376	1	0.9648	1	0.192	5
0.1733	1	0.1989			
	1	0.0005	1	0.0005	2
0.0008					1
	1	0.0017	1	0.0061	
0.0001	6	0.0014	2	0.0003	5
0.0001	3	0.0001	2	0.0001	1
0.068	5	0.2308	10	0.759	6
	1	0.0115	1	0.0059	
0.0001					
			1	0.0419	
1.3277			1	4.6222	
0.025			1	0.3213	1

Cawsand Biomass (g) 18/11/2008	Cawsand Abundance 18/11/2008	Cawsand Biomass (g) 18/11/2008	Cawsand Abundance 14/01/2009	Cawsand Biomass (g) 14/01/2009	Cawsand Abundance 16/09/2009	
Rep 4	Rep 5	Rep 5	Rep 3	Rep 3	Rep 1	
				1	0.0103	3
0.009	11	0.0031	13	0.0156	18	
0.0001	17	0.0557			3	
					1	
					1	
			2	0.004	1	
					2	
					4	

0.0138

1  
1

0.025  
0.0026

0.0005

0.0003

2  
3

0.0001  
0.002

5

0.0142

3

0.0127

3

0.0276

2

0.0041  
0.0003

30  
3

0.0039  
0.0002

23  
5

0.0032  
0.001

17  
6



0.0072	2	0.0018			6 1
0.1604	3	0.4947	1	0.4938	2 1 1
	1	0.0001			1
0.0005	1	0.0001			
	1	0.0001			
0.0011					
0.0001	1	0.0001			2
0.0162	21	0.0186	16	0.0107	4
0.0002			1	0.0001	2 1

	2	0.0006	3	0.0007	6
0.0008					
0.0004	2	0.0026			1
0.0001	6	0.0063	6 1	0.0007 0.0001	10
0.0003	4	0.0039	3	0.0136	16
0.0422	114	0.0385	84	0.0173	18
0.0228	63	0.015	69 1	0.0148 0.0007	117 4
0.0196	47	0.036	24	0.0147	45
0.2301	420	0.24	422	0.1665	228
0.0007	6	0.0022			2
0.0169	4	0.0306	5	0.0921	7
0.0001	1	0.0001			2
0.0423	8	0.046	2 1 1	0.0777 0.0001 0.0034	1
0.0109	17	0.012	5	0.002	20
0.1968	95	0.2099	65	0.1555	84



0.024	4	0.0045	15	0.012	49
					1
	29	0.0021			
0.0304	3	0.0368	5	0.077	82
0.0091	2	0.0026			5
1.271	119	0.8336	115	1.7947	118
0.0037	5	0.0107	2	0.0001	
	2	0.0036			7
	1	0.0001			
0.0502	5	0.1081	1	0.0208	
0.0125					
					1
					1
0.0014					4

0.0009

0.0003  
0.0006  
0.0004

1  
6

0.0001  
0.001

7  
2

0.0011  
0.0001

17

1

0.0001

3

0.0011

1

0.0141

18

0.0117

24

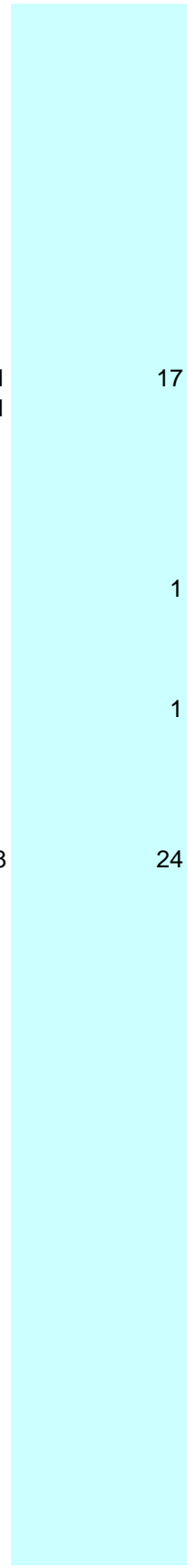
0.0178

24

0.0001

1

0.0001



0.0026	3	0.0051	4	0.0161	6
0.0139	12	0.0038	21	0.0132	31
					1
0.0001					1
0.0021					
0.0027					46
0.0009					2
					1
0.0004					28
					1
0.0013	4	0.0002	4	0.0001	5

0.0004

8

0.0034

6

0.0001

1

0.0001

1

5

1

1

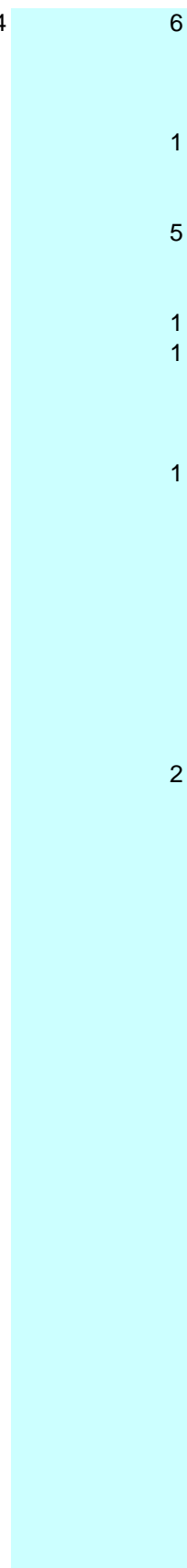
1

2

0.0014

2

0.0153



		1	3.1793	2	2.5392
				1	0.0232
5.401				1	3.8087
3.1639		3	9.3942	1	3.8613
0.003		5	0.0161	10	0.0231
					4
		1	0.0013		
0.1196		22	0.0546	9	0.1292
					39

			1	0.0001	
0.1258					
0.1721	41	0.1827	32	0.1855	18
0.0028	14	0.0352	15	0.0494	14
					1
			1	0.0135	
0.0503					
0.1951	3	0.2159	1	0.001	9
2.5913	1	0.1211			
0.0139	1	0.0002			
	6	0.0062	17	0.0329	23

0.0006	2	0.0018				2
0.032			1	1.5535		
0.0026	6	0.0091	2	0.7889		
3.8357	1	0.1895				1
0.0074	9	0.0087				
0.004	1	0.0015				
						1
0.0023	11	0.0042	2	0.4068		
			3	0.0025		33
						2
0.0001	3	0.0002	12	0.0016		
0.3303	1	0.0888	11	0.5942		
						2
0.9781	1	0.1065				2

Cawsand Biomass (g) 16/09/2009	Rame Abundance 04/06/2008	Rame Biomass (g) 04/06/2008	Rame Abundance 04/06/2008	Rame Biomass (g) 04/06/2008	Rame Abundance 04/06/2008
Rep 1	Rep 1	Rep 1	Rep 2	Rep 2	Rep 3
0.0011	30	5.2258	17	34.087	26
0.0335	22	0.0058	16	0.007	14
<.0001	7	0.0002			1
0.0439					
0.0004					
0.0001					
0.0408	1	0.0943	2	0.0035	
0.0103					



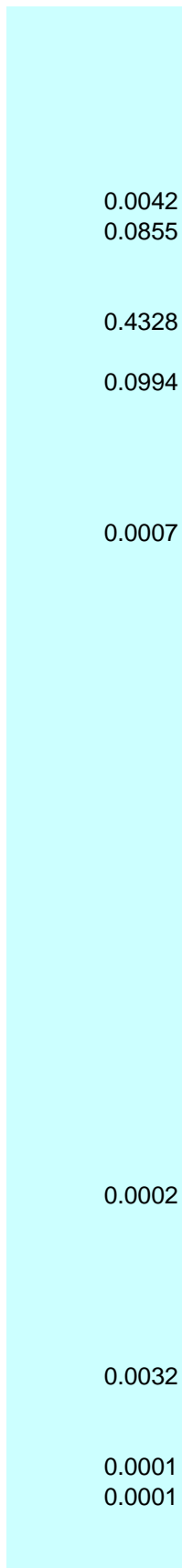


1

0.0008

1

3



2

0.3038

3

0.1952

1

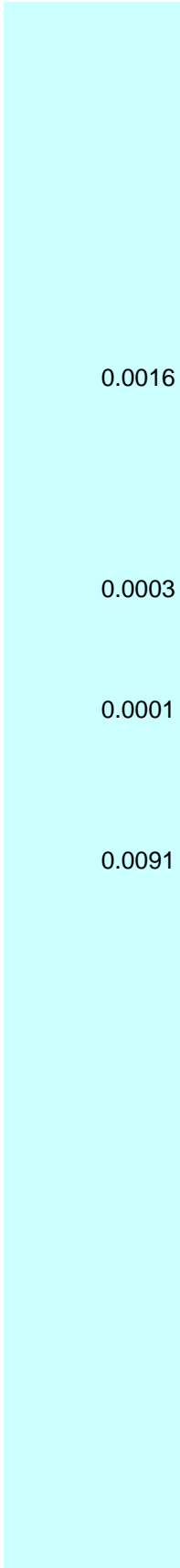
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2

1

0.0006	3	0.0001	2	0.0005	4
	12	0.0026	5	0.002	10
0.0006					1
0.0017					
	2	0.0006	4	0.0047	3
0.0163	3	0.0143	2	0.0034	2
0.008					
0.0333	29	0.0112	10	0.0016	56
0.0011					
0.019					
0.2113	1	0.0002			
0.0004	1	0.0013			1
	3	0.0005			10
0.0301	2	0.0007	1	0.0002	6
0.0002					
			1	0.0009	
			1	0.1939	1
0.0068					
	4	0.0014	1	0.0006	3
0.0258					
0.1917					

0.0587					
0.008	55	0.2556	15	0.0439	50
0.0045					
0.0251			1	0.0001	
1.3173	1	0.0001	3	0.0901	
0.0186			1	0.0028	
	1	0.0126			
	1	0.0001			1
0.0004					
<.0001	58	0.0209			5
0.0021					



0.0016

1

0.0001

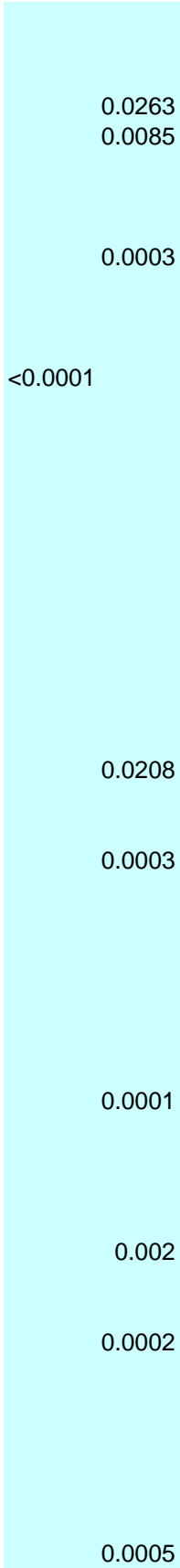
0.0003

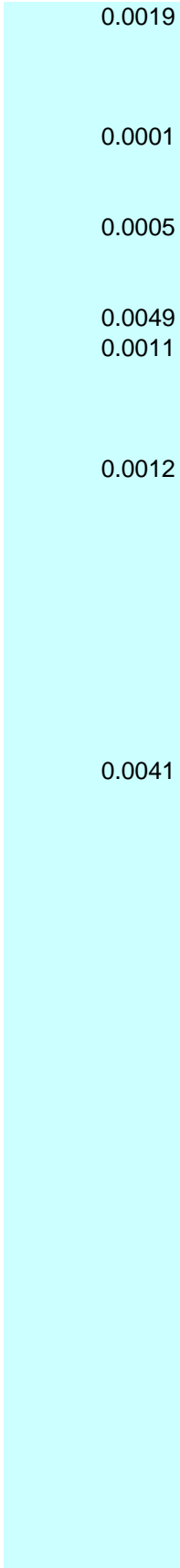
1

0.0001

0.0001

0.0091





0.0019

1

0.0001

0.0005

1

0.0001

1

0.0049

0.0011

1

0.0001

2

0.0014

0.0012

2

0.0059

0.0041

1

0.4638

1

1.1444



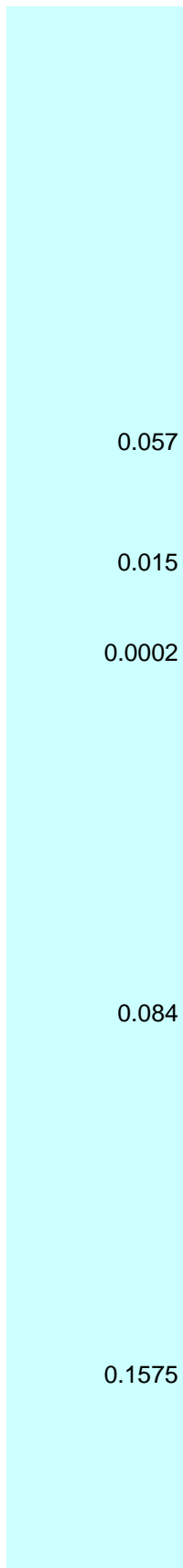
1 0.001

1 0.0255

3

1 0.0014





0.057

0.015

0.0002

0.084

0.1575

2

2

3

0.0008

1

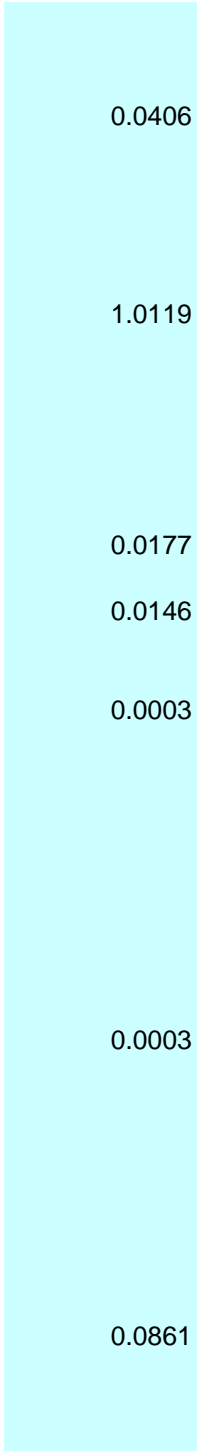
47

0.0421

1  
38

0.123  
0.0388

124



2	0.0017	2	0.0033	4
2	0.0001			
1	0.0005	1	35.356	2
1	0.1592			3
306	6.6553	129	71.3043	348

Rame Biomass (g) 04/06/2008	Rame Abundance 04/06/2008	Rame Biomass (g) 04/06/2008	Rame Abundance 04/06/2008	Rame Biomass (g) 04/06/2008	Rame Abundance 16/07/2008
Rep 3	Rep 4	Rep 4	Rep 5	Rep 5	Rep 1

				1	0.6656	1
3.3739	34	5.1628	43	5.8859	58	
	1	0.0029	1	0.0093		
0.0034	40	0.015	56	0.0451	25	
0.0001			7	0.0001	6	

1      0.0036

1

1

0.0031

1

0.0035

0.0195

1

0.0005

1

1

0.0001

1

0.0001

2

0.3238

1

0.0007

1

0.5155

1

0.0316

0.0534

5

1.2968

4

1.1901

2

0.0011

1

0.0001

2

0.0049

1

0.002	2	0.0005	11	0.0026	6
0.003	5	0.0085	5 23	0.0022 0.0148	3
0.0001					3
0.0043	6	0.009	4	0.0111	2
0.0109	1	0.0031	3	0.0206	4
0.0138	53	0.014	60	0.0212	44
0.0001	2	0.0006			5
0.001	6	0.0004	7	0.0001	
0.0016	6	0.0044	10	0.007	4
0.0108					
0.001	5	0.0014	7	0.0043	2 3

0.1231	17	0.0376	54	0.1432	3
--------	----	--------	----	--------	---

	1	0.0051			1
--	---	--------	--	--	---

0.0001	1	0.0001			7
--------	---	--------	--	--	---

0.0037	39	0.0219	50	0.0177	13
--------	----	--------	----	--------	----

1 0.0004 1

2

1 0.0002



3

0.0171

3

1

0.0011

1

0.0001

0.008

2

0.0017

3

1

0.0006

1

0.0014

1

1

0.0022

1

1.9776

2

1.571

1

0.0071

2

14

3.8865

6

1

0.0056

0.0054

1

1

0.0037

0.001

0.0645

48

0.0184

32

0.0114

5

			1	0.4359	
	1	0.0041	1	0.0014	1
0.002	2	0.0018	7	0.0054	2
	1	0.0001			
			1	0.0001	
8.1609	1	3.9347	1	1.2153	3
0.2148	2	1.8044	2	0.5547	1
12.9397	301	18.2485	408	11.8718	233

Rame Biomass (g) 16/07/2008	Rame Abundance 16/07/2008	Rame Biomass (g) 16/07/2008	Rame Abundance 16/07/2008	Rame Biomass (g) 16/07/2008	Rame Abundance 16/07/2008
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Rep 1	Rep 2	Rep 2	Rep 3	Rep 3	Rep 4
-------	-------	-------	-------	-------	-------

0.6784

6.2603	51	8.0177	21	2.8834	28
--------	----	--------	----	--------	----

0.008	19	0.0074	58	0.04	24
-------	----	--------	----	------	----

0.0001	5	0.0001	8	0.0001	
--------	---	--------	---	--------	--

0.0001

0.0001

1 1.4448

0.0028

3 0.0026 1

0.0001

0.0001	1	0.0001	1	0.0022
--------	---	--------	---	--------

0.1583	9	1.2421	2	0.4593	5
--------	---	--------	---	--------	---

0.0001			1	0.0001	1
--------	--	--	---	--------	---



0.0021	8	0.0016	5	0.002	6
--------	---	--------	---	-------	---

0.0005	4	0.0004	68	0.0555	3
--------	---	--------	----	--------	---

0.0006			1	0.0004	9
--------	--	--	---	--------	---

0.0038	5	0.0061	2	0.0149	4
--------	---	--------	---	--------	---

0.0046	7	0.0333	5	0.033	4
--------	---	--------	---	-------	---

0.0093	42	0.0096	48	0.0138	49
--------	----	--------	----	--------	----

0.0008	3	0.001	5	0.0008	
--------	---	-------	---	--------	--

	2	0.0001	9	0.0014	5
--	---	--------	---	--------	---

0.0107	2	0.0016	2	0.0019	2
--------	---	--------	---	--------	---

0.2607					1
--------	--	--	--	--	---

0.0016	1	0.0001			1
--------	---	--------	--	--	---

0.0007	3	0.0011	5	0.0019	4
--------	---	--------	---	--------	---

0.0308	1	0.0272	11	0.1501	38
	1	0.0001			3
	1	0.0001	2	0.0051	1
0.0077	1	0.0003			

1

0.0009	3	0.0002	2	0.0001	
--------	---	--------	---	--------	--

0.0007	2	0.0001			
--------	---	--------	--	--	--

0.0001

1

0.0009

1

0.0009

1 0.0039

0.0009

1 0.0001

1

0.0001

0.0027	4	0.0034	2	0.0023	2
--------	---	--------	---	--------	---

0.0004

1

0.9085	1	0.5623	1	0.6299	1
--------	---	--------	---	--------	---

1	0.0016
---	--------

0.0039

3

0.0091

4

0.34371

41

11.9977

2

0.64

11

0.001

0.0007	1	0.0005	1	0.0052	5
--------	---	--------	---	--------	---

0.0468	14	0.0557	19	0.0686	6
--------	----	--------	----	--------	---

0.0217

0.0001

2

0.0023

6

0.007

1

0.0377

1

0.0001

10.0955  
0.017

1  
1

0.0064  
1.8784

1  
2

18.88791

241

23.8671

295

6.5097

226



Rame Biomass (g) 16/07/2008 Rep 4	Rame Abundance 16/07/2008 Rep 5	Rame Biomass (g) 16/07/2008 Rep 5	Rame Abundance 18/09/2008 Rep 1 - 5 combined	Rame Biomass (g) 18/09/2008 Rep 1 - 5 combined	Rame Abundance 18/09/2008 Rep 1
--	--	--	--	--	--

37.956	8	1.2101			28
0.0071	23	0.016			38
	1	0.0001			6

	1	0.0001			
--	---	--------	--	--	--

0.0018

1

1

1

1

2 0.0031

3

1.3874 4 0.7012

5

0.0019 1 0.0001

2

0.0018	11	0.0027	3
--------	----	--------	---

1

0.0005	15	0.0087	5
--------	----	--------	---

0.0032

0.0053	2	0.0006	
--------	---	--------	--

0.0358			5
--------	--	--	---

0.0138	27	0.0045	43
--------	----	--------	----

0.0001	3	0.0005	8
--------	---	--------	---

0.002	2	0.004	
-------	---	-------	--

0.0013

0.0008			
0.0021	1	0.0005	6

0.7324

0.0203

0.0423

1

0.0155

1

0.0001

1

1

0.0001

1

0.0003

0.0001

2

4

3

1

0.001

2

0.0073

0.8092

1

0.7881

1

1



0.0029

7.6778

32

10.1575

20

18.8776

0.0001

0.0014

2

0.0153

7

0.0209

4

2 0.0033

2

1.5772  
0.7104

1

0.6075

1  
1

51.019

146

13.5451

20

18.8776

196

Rame Biomass (g) 18/09/2008	Rame Abundance 18/09/2008	Rame Biomass (g) 18/09/2008	Rame Abundance 18/09/2008	Rame Biomass (g) 18/09/2008	Rame Abundance 18/09/2008
Rep 1	Rep 2	Rep 2	Rep 3	Rep 3	Rep 4

3.2351	28	3.3143	24	3.0368	21
0.0094	38	0.0128	39	0.3332	24
0.0001	9	0.0001	7	0.0001	

1

1      0.017      1

0.0001

1 0.0008

0.0001

0.0001

0.0001

0.0001

0.0031

2

0.0009

3

1.1879

8

1.6168

3

0.6443

3

0.0005

1

0.0008

5

0.0015

2

0.9937

1

0.1922

0.0004	2	0.0005	3	0.0001	
0.0001					
0.0013	4	0.0025	1 1	0.0001 0.0001	6
					2
	2	0.0001			
	2	0.0046	3	0.0101	4
0.0265	2	0.0095	8	0.0268	4
0.0137	36	0.0118	72	0.0186	16
	2	0.0007			
0.001	8	0.0009	6	0.0007	6
					4
			2	0.0241	
	2	0.0031			
0.0024	1	0.0007	4	0.0032	4

			1	0.0348	
			1	0.0007	
	1	0.0001	6	0.0016	3
0.0001	2	0.0021	6	0.0046	2
0.0051			1	0.0206	1
0.0001	4	0.0005			1
0.0014	10	0.0004	39	0.0046	52



1 0.0001

0.006

2

0.0019

6

1

0.0001

0.0006

0.0004

0.0004

1

0.0012

1

0.0008

4

0.0026

2

0.0001

1

1

0.0001

1

0.0111

1

0.0328

1

0.0225

1.3163

1

0.0015

1

0.0005	2	0.0012	1	0.0015
			1	0.0133

0.0198	2	0.0001	6	0.0108	6
--------	---	--------	---	--------	---

1	0.0002	2	0.002	9
				1

0.0574

5.4506	1	2.5787	2	5.9594	1
0.3217	1	0.2812	2	4.2435	2

11.6964	173	8.0486	262	15.4376	189
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Rame Biomass (g) 18/09/2008	Rame Abundance 18/09/2008	Rame Biomass (g) 18/09/2008	Rame Abundance 06/11/2008	Rame Biomass (g) 06/11/2008	Rame Abundance 06/11/2008
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Rep 4	Rep 5	Rep 5	Rep 1	Rep 1	Rep 2
-------	-------	-------	-------	-------	-------

			1	0.0618	1
--	--	--	---	--------	---

3.0496	44	6.0132	26	3.3271	26
--------	----	--------	----	--------	----

0.0063	53	0.0144	8	0.001	26
--------	----	--------	---	-------	----

	16	0.0002	1	0.0001	
--	----	--------	---	--------	--

0.0036

0.0058	1	0.0027	1	0.0254	
--------	---	--------	---	--------	--

1 0.0038

1 0.0007

1

1 0.0001

1 0.0003



0.0046      2      0.0023      1      0.0043

1.2336      2      0.4889      6      1.6889      8

0.0001      5      0.0006      6      0.0021

	1	0.0001			3
0.0023	14	0.0079	9	0.0019	7
0.0006					
0.023	1	0.0001	1	0.0036	
0.0035	7	0.0447	6	0.0332	3
0.0027	93	0.0222	42	0.008	50
	1	0.0022			
					1
	6	0.0039	1	0.0001	1
0.0006	9	0.0009	5	0.0005	12
0.0059	1	0.0015			
	1	0.4168			
0.002	2	0.0005	1	0.0001	

	1	0.0001			
0.0015	3	0.0313	1	0.0001	1
0.0021			5	0.0049	
0.0403					1
0.0001	1	0.0001	1	0.0001	
0.0059	21	0.0027			

1 0.0006

1 0.0038

1 0.0001

10

0.0044

7

0.0067

1

1

0.0027

1

1 0.0003

0.0001 1 0.0001

2 0.0019

0.0001

3 0.0003

1 0.0001

0.0176

1 0.0037 2

1 1.1612 2 1.2084

2 0.0022

0.0001

23

1

0.0021

1	0.0001	2	0.0106
		1	0.0002
		1	0.0028

0.0049	6	0.002	2	0.0006
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0.0159	3	0.0053	8	0.0081	3
3.6168			1	0.0001	

3.5241	2	6.0903			
1.6958	3	2.754	4	1.116	

13.2739	319	17.084	152	7.5257	181
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Rame Biomass (g) 06/11/2008	Rame Abundance 06/11/2008	Rame Biomass (g) 06/11/2008	Rame Abundance 06/11/2008	Rame Biomass (g) 06/11/2008	Rame Abundance 06/11/2008
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Rep 2	Rep 3	Rep 3	Rep 4	Rep 4	Rep 5
-------	-------	-------	-------	-------	-------

0.0317

4.0513	43	6.048	23	2.5816	27
--------	----	-------	----	--------	----

0.0055	7	0.0023	13	0.0081	5
--------	---	--------	----	--------	---

	5	0.0001	1	0.0001	1
--	---	--------	---	--------	---

1 0.0005

4 0.0014 2

1

0.0063

1 0.0018

1.5686

4

0.58

2

0.7319

4

2

0.0001

4

0.001

3

0.0003	1	0.0001	4	0.0009	2
--------	---	--------	---	--------	---

0.0025	5	0.0016	5	0.0006	31
--------	---	--------	---	--------	----

1

			2	0.0029	1
--	--	--	---	--------	---

0.024	3	0.0248	4	0.0251	6
-------	---	--------	---	--------	---

0.0151	25	0.0056	23	0.0044	19
--------	----	--------	----	--------	----

0.0001

0.0005			2	0.0003	5
--------	--	--	---	--------	---

0.0011			8	0.0003	4
--------	--	--	---	--------	---

1

			1	0.0007	4
--	--	--	---	--------	---

	1	0.0001	3	0.0001	2
--	---	--------	---	--------	---

	2	0.0003	1	0.0022	5
--	---	--------	---	--------	---

0.0901	6	0.0037	7	0.1145	3
	5	0.0036	1	0.0057	7

0.0307

	2	0.0001			2
--	---	--------	--	--	---

1

4 0.0006

1

0.0009

2

0.0001

1

0.0001

0.0027

4

1

0.0001



3

0.0011

1

0.0013

1

0.3307

1

	2	0.0026	8	0.0225	1
30.2221	1	0.4074			

2 0.0063

1

1 0.0036

9 0.0042

0.0148	9	0.0036	4	0.002	17
--------	---	--------	---	-------	----

	1	0.0294			
--	---	--------	--	--	--

			2	4.633	1
	1	0.1998	3	2.6144	

36.0695	146	7.6605	127	10.7556	167
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Rame Biomass (g) 06/11/2008	Rame Abundance 28/01/2008	Rame Biomass (g) 28/01/2008	Rame Abundance 28/01/2008	Rame Biomass (g) 28/01/2008	Rame Abundance 28/01/2008
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Rep 5	Rep 1	Rep 1	Rep 2	Rep 2	Rep 3
-------	-------	-------	-------	-------	-------

5.354	37	5.9889	44	7.097	31
0.002	14	0.2901	21	0.0048	12
0.0001	6	0.0001	2	0.0001	2

2	0.0293	1	0.0175	1
---	--------	---	--------	---

0.0007

0.0013

2

0.0073

2

0.0045

4

0.0193

2

1

0.788

5

1.1333

4

0.6261

4

0.0022

2

0.0021

3

0.0025

3

1

0.0001

1

0.0001	3	0.0014			4
--------	---	--------	--	--	---

0.0137	3	0.0024	3 7	0.0001 0.0029	9
--------	---	--------	--------	------------------	---

0.0007

0.0045	3	0.0087	2	0.0076	
0.0057	1	0.0015	9	0.104	3
0.0029	30	0.0077	40	0.0092	26

1

0.0018			3	0.0015	7
0.0005	4	0.0017	8	0.001	8
0.0001	3	0.0013	6	0.0021	6
0.0137	6	0.0104	5	0.0153	4

0.0002					
0.0014	6	0.0032	4	0.0034	2



3 0.0049

0.0026 3 0.0179 1 0.0024 1  
0.024 2 0.001 2

1 0.0084 1 0.0065

0.0001 1 0.0001 1

0.0006

0.0003

0.0021

1

0.0027

9

0.0028

0.0111

1

1

0.9136

3

0.0252

1

0.0424

1

0.0001

4

0.0118

5  
1

58

36.399

2  
5

2.2359  
0.0029

2  
9

1

0.0075

1

0.0001

0.0014

2

0.0101

1

0.0011

4

0.077

1

1

0.0013

2

0.0001

2

0.0022

3

					1
0.0145	6	0.0045	1	0.0001	4
	1	0.0182	1	0.0446	1
3.0826	3	1.4229	5	3.2065	2
9.361	207	46.3265	204	13.5276	174

Rame Biomass (g) 28/01/2008	Rame Abundance 28/01/2008	Rame Biomass (g) 28/01/2008	Rame Abundance 28/01/2008	Rame Biomass (g) 28/01/2008	Hilmars Box Abundance 17/07/2008
Rep 3	Rep 4	Rep 4	Rep 5	Rep 5	Rep 1
		1	0.0997		2
3.739	30	4.903	24	3.5	3
0.0227	32	0.0114	3	0.0012	1
0.0001	4	0.0001			1
		1	2.2305		4
					10
					3

0.0394



1  
1

1 0.0009

1

0.0007 2 0.0174 2 0.0051 6

1  
1

0.0057

1

3

1

1

0.3308

4

0.62333

4

0.8905

0.0009

3

0.0017

19

1.695

1

2

0.001	3	0.0005			4
					131
0.0014	81	0.0421	11	0.0037	
					1
					1
	1	0.0001	2	0.0004	2
					3
					15
0.0201	8	0.0317	1	0.0063	1
0.0046	31	0.0067	2	0.0006	11
0.0079					2
0.005			2	0.001	
0.0012	5	0.0006	1	0.0001	
0.0018	4	0.0008	2	0.001	1
0.014	7	0.0389	1	0.0012	
	1	0.4285	1	0.0065	
0.0017	6	0.0021	2	0.0011	
			2	0.0006	2
					1

				2
				6
	1	0.0001		
				19
0.0005	1	0.0051		5
0.0004	3	0.0018		
				1
				1
	1	0.0153		2
				1
0.0001				
				1
				4

1

1

2

1

3

0.0041

2

0.001

53  
1

5

1

1

4  
12

4

12

2

0.0001

1

0.0035

2

2

3

8

3.5116

1

1.1961

1

0.0366

1

0.01	9	0.0225	1	0.0009
0.0024				

3.4561	28	26.1677		
0.0136	3	0.0396	14	0.0328

	1	0.0107		
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					1
					2
	1	0.0004	1	0.0013	1
	1	0.0038			2
0.0066					
					1
					4
0.0019	4	0.0015	1	0.0001	3

					1
					1
					1
	1	0.7889			
0.0014					
0.0011	3	0.0007	2	0.0009	1
0.0236	2	0.1665			
					1
					7
					7
1.4171	1	4.3465	1	2.6421	
	1	0.5193			
14.3802	287	40.53053	83	8.2979	431

Hilmars Box Biomass (g) 17/07/2008	Hilmars Box Abundance 17/07/2008	Hilmars Box Biomass (g) 17/07/2008	Hilmars Box Abundance 17/07/2008	Hilmars Box Biomass (g) 17/07/2008	Hilmars Box Abundance 17/07/2008
Rep 1	Rep 2	Rep 2	Rep 3	Rep 3	Rep 4
0.0011					3
0.4297				3	3.5836
0.0834	1	4.3669			1
0.0037	9	0.0071	9	0.0067	16
0.0161	5	0.0077	9	0.0191	3
0.0001			4	0.0001	3
				2	0.0003
			1	0.0726	
2.1332		6.0314		2.29299	
				2	0.0035
	1	0.0357			
0.0074	2	0.012	1	0.0045	4

			1	0.0184	
					1
0.0001 0.0044	1	0.0005			1
					1
	1	0.017	2	0.0027	1
0.00141					
0.0025	4	0.0037	4	0.0129	2
	2	0.001			
0.0001 0.0001	7	0.0018	1 5	0.0001 0.0006	2

0.0107			1	0.0002	1
0.5376	1	0.0914			1
0.0253			1	0.2003	
0.0788	2	0.0233	4	0.2178	4 2
	1	0.0039	1	0.0001	
	1	0.2485			
0.1374	23	0.1719	25	0.1009	21
			1	0.0316	
	1	0.0001	1	0.0119	
0.0006			1	0.0007	1
0.2357	2	0.6664	4	0.5852	
	3	0.0014	2	0.0006	2

0.0012	4	0.0011	17	0.0039	1
	1	0.001	1	0.0001	
0.1958	85	0.0656	62	0.0495	137
	3	0.0001	1	0.0003	1
0.0027	5	0.015			1
0.0001			3	0.0002	
0.0102	4	0.0005			2
	1	0.003			
0.0013	1	0.0008			1
0.0153	5	0.0036	13	0.0156	10
0.0051			2	0.013	
0.0021	13	0.0021	4	0.0012	9
			2	0.0018	1
	6	0.0032			
	3	0.0057	1	0.001	1
0.0005			2	0.0001	4
0.0006	1	0.0006	1	0.0006	1
	5	0.3394	5	0.8948	
	4	0.0072	1	0.0001	1
0.0003	4	0.0021	5	0.0037	9
			1	0.0001	
			1	0.0006	
0.024	1	0.6016	1	1.0193	

	2	0.0018			
0.0018	4	0.0047	8	0.0142	1
0.0389	5	0.0151	5	0.0254	1
			1	0.0001	1
0.077	3	0.004	4	0.0082	4
0.0433			1	0.0226	6
0.0085					2
0.0001					
	2	0.0053	2	0.0038	
			1	0.0049	
0.0153	6	0.0576	2	0.0165	
0.039	1	0.0625	1	0.0055	1
			1	0.0001	
			1	0.0001	1
	1	0.0001			
	1	0.0001			
0.0001					
					1
0.0004	2	0.0004	3	0.0001	4
			1	0.0001	

			2	0.0001	
	1	0.0018			
0.0008	2	0.0014			1
0.0001	1	0.0007			
0.0001					
	1	0.0011	1	0.0001	
			1	0.0011	
0.0011			1	0.0017	1
0.0005					
			1	0.0003	
			2	0.0011	
	1	0.0021			1



0.0303 0.0064	25	0.0208	17	0.0284	45
	5	0.0018			2
0.0039					1
			1	0.0001	
	1	0.0003	1	0.0002	2
0.0045			1	0.0123	
0.0029	18	0.0214			
	1	0.001			
0.001 0.0098	9	0.002	3	0.0022	2
	1	0.0018			
	12	0.0042	8	0.0026	3
	1	0.0008			
	3	0.0015			2
	1	0.0007	1	0.0016	
	1	0.0001			
0.0001	2	0.0003			
0.0053	8	0.0014	1	0.0023	4
	2	0.002	3	0.0016	2
0.0004	3	0.0008	1	0.0001	

			1	0.0008	1
0.0005			2	0.002	1
0.0179	1	0.0011	4	0.0122	1
0.008					
0.0022	6	0.0009	13	0.0017	12
	1	0.0004			
	1	0.0022			1
0.4544			1	0.1603	
			1	0.0308	
	1	0.5094	1	0.6902	1
	1	0.0021			
	1	0.1057			1
	1	0.0079			1
			2	0.0628	1
0.0001					1
			1	0.0015	

1 0.001

1 6.5203 1

1 3.8492

1 0.005

1 0.0038

0.0113

3

	1	0.0001			
	1	0.1114			
0.018	1	0.0231	3	0.0636	
			1	0.0001	
2.2146			2	1.0298	
0.0236	1	0.0199			2
0.0013					
	8	0.0117	1	0.0017	
	3	0.0031	1	0.0099	5
	1	0.013			3
	1	0.0001			
0.0677					
0.0235	6	0.0483	3	0.0248	6
0.0014					4
			1	0.1668	1

9.7425			1	4.9073	
			1	0.0179	
0.0058					
0.0058	1	0.0001			
	1	2.5581			
			1	0.0046	1
					1
0.0033					
					1
0.0034	1	0.0006	8	0.0196	
			3	0.0011	8
0.0241	6	0.0184	2	0.0076	2
0.0178					
					1
16.90631					

Hilmars Box Biomass (g) 17/07/2008	Hilmars Box Abundance 17/07/2008	Hilmars Box Biomass (g) 17/07/2008	Hilmars Box Abundance 17/09/2008	Hilmars Box Biomass (g) 17/09/2008	Hilmars Box Abundance 17/09/2008
Rep 4	Rep 5	Rep 5	Rep 1	Rep 1	Rep 2
		1			
		1	0.0001		
0.0017		4	0.0014		
3.2188				2	7.6123
					1
0.0182		6	0.0112		1
0.0062		5	0.0041	12	0.0411
					1
0.0001		8	0.0001	12	0.0002
					6
0.0002					
				3	0.0079
					1
					2
					3
		1	0.0001		
				2	0.0013
				1	0.0692
0.0438		1	0.0001		
			3.6252		
					2
		1	0.0012		
					2
0.0117		2	0.0042		3

					1
0.0001					1
0.0026			1	0.0002	1
0.0193	0.0167		6	0.0021	1 1
0.0001	1	0.0002	4	0.0012	2
	1	0.0015			
0.0014	6	0.003	3	0.0029	3
			2	0.0002	
0.0001	10	0.0024	1 10	0.0001 0.0021	7 2
					1

0.0001	1	0.0001	8	0.0046	4
0.1076			2	0.7095	2
	1	0.0444			
0.1913	3	0.1018	2	0.2208	2
0.0203					
	1	0.0758			1
0.046	20	0.0971	30	0.1139	40
	1	0.1008			
			1	0.0001	
					2
0.0001	3	0.8253	1	0.0843	1
0.0007	1	0.0006	3	0.0002	



0.0001	5	0.0011	5	0.0002	5
	1	0.0002	1	0.0001	1
0.136	106	0.0955	99	0.1657	53
0.0002			2	0.0001	
0.0001	13	0.0065	6	0.0038	17
0.0066	2	0.0009	7	0.0026	2
			2	0.0008	
0.0013	2	0.008	2	0.0006	
0.0103	22	0.0203	14	0.0076	6
			3	0.0201	3
0.0057	12	0.0018	15	0.0022	2
					1
0.0047			1	0.0104	
	4	0.0013			4
0.002	1	0.005	2	0.0023	1
0.0017			2	0.0006	
	1	0.0022			
			1	0.0008	
0.0019	1	0.0062	1	0.0021	1
			9	0.0089	1
0.0145	4	0.0153			6
0.0046	7	0.0029	7	0.0051	4
					1
			1	0.001	
					1
					1
					1

0.0005	2	0.003			5
0.004			1	0.0247	1
0.0001	3	0.0007	2	0.0011	1
0.0371	12	0.0275	4	0.0374	10
0.0075	7	0.018	1	0.0001	1
0.0068					1
	1	0.0024	1	0.0264	
	1	0.0909	1	0.0157	1
	4	0.0365	6	0.0256	1
0.0005			1	3.9332	
0.0008			1	0.0001	
			1	0.0031	
			2	0.0282	1
					1
0.0002	2	0.0002			
0.0001	1	0.0001	8	0.0004	20

			2	0.0001	
0.001	2	0.0017			3
					2
					1
			1	0.0006	
	1	0.0005			
	1	0.0001			
					2
	2	0.0027			
0.0012	1	0.0001	3	0.0005	4
					1
	1	0.0011	1	0.0026	
0.0035	1	0.0067			2
	1	0.0011			

0.1311	1 31	0.0186 0.027	57 1 1	0.0437 0.0397 0.0037	39 1
0.0007					
0.0013					7
0.0006	1	0.0001			2 1
					3
0.0004	68	0.0331	1 8 2 5 1	0.0012 0.001 0.0002 0.0016 0.0003	8 2 15
0.0007	9	0.0031			
0.0013	1 1	0.0007 0.0005	2	0.0001	1 1
	2	0.0003			1
0.0019	3	0.0004			
0.0128	1	0.0012			
	1	0.0001	2	0.0001	

0.0001	1	0.0001	1	0.0002	1 1
0.0001					
0.0009	1	0.0067	1	0.0001	
0.0013	21	0.0024	2	0.0001	4
			1	0.1642	
0.0086			1	0.6797	
0.6209	2	0.9135	4	2.4853	3
	2	0.0015			1
0.0214	1	0.0058			1 1
0.0213					
0.0023	1	0.0043			
0.0008					

2

0.571

1

0.155

2

0.0009

1

1

1

0.0001

0.0264

1

0.0036

1

0.0001

			1	0.0001	
	2	1.2396	1	0.0241	2
0.0055	2	0.0344			1
	7	0.0094	1	0.0004	7
0.0627	3	0.0023	1	0.0002	
	2	0.0001	1	0.0001	
0.0542	2	0.0498			
			2	0.5094	4
0.0254	2	0.0163	4	0.015	
0.0264			3	0.0571	1
0.009	3	0.0668	2	0.0103	2

	1	5.453			
			1	2.0778	
0.011 0.0028	1	0.0067			
	1	0.0001			
			1	0.1667	1
0.0001					
	1	0.0007	1	0.0005	16 1
0.0079			3 1	0.0001 0.012	
0.0026	3	0.005			24
	8	0.0163			3
13.6583					
			438	19.6592	422



Hilmars Box Biomass (g) 17/09/2008	Hilmars Box Abundance 17/09/2008	Hilmars Box Biomass (g) 17/09/2008	Hilmars Box Abundance 17/09/2008	Hilmars Box Biomass (g) 17/09/2008	Hilmars Box Abundance 17/09/2008
Rep 2	Rep 3	Rep 3	Rep 4	Rep 4	Rep 5
		1	0.4072		1
8.3067	1	1.742		1	3
0.0012					1
0.4043	2	0.0127		4	7
0.0002	5	0.0205		3	11
					1
0.4111					
4.2236	1	0.0147		1	
0.0284					
	1	0.0548			
4.8249		3.1483			
0.0004					
					2
				1	0.0001
					1
0.0014				1	0.0001
0.0628	1	0.0333			



0.0024	4	0.0026	1	0.0006	9
0.0988	1	0.0963			1
			1	0.1245	1
0.1182	1	0.1317	2	0.052	
0.0548	1	0.0329	2	0.058	1
0.2064	33	0.0797	27	0.101	31
	5	0.1006			
			1	0.2916	1
0.0004	1	0.0004	1	0.0001	
			1	0.004	
0.3227	2	0.476	2	0.0692	1
	1	0.0001			

0.0018	5	0.0006	1	0.0001	9
0.0001	3	0.0005	6	0.0015	4
0.1034	71	0.1005	48	0.089	74
					1
					1
			1	0.0051	
	1	0.0001			2
0.0261	1	0.0014	6	0.0062	7
	2	0.0013			
0.0015	7	0.0032	2	0.0059	2
	2	0.0024	1	0.0001	3
0.0077	17	0.026	6	0.0086	8
0.0079	2	0.0047	4	0.0084	1
0.0003	8	0.0013	5	0.0005	6
1.5774					1
0.001					4
0.0012	1	0.0018			3
	6	0.0033	1	0.0001	
			1	0.0023	
0.0025			1	0.0055	
0.6333	2	0.7214	2	0.6413	
0.0579	8	0.0282	3	0.0084	7
0.0038	3	0.001	3	0.0026	3
	1	0.0006	1	0.0013	
1.4768					
0.0015					1
0.0225					
0.0001					

			1	0.9802	
0.0602	1	0.0124			3
0.0058			1	0.0051	
0.0001					1
0.0543	11	0.0285	3	0.0412	6
0.0002	1	0.0016			2
			2	0.0192	2
					4
0.0021					1
					1
	1	0.0002			
	2	0.0398			4
0.0045					
			1	0.0089	1
0.0028	1	0.006			4
	1	0.0078	2	0.0536	
	1	0.0006			2
			1	0.0016	
0.0012					
	1	0.0008			2
0.0012	1	0.0022			2
					1
	1	0.0001			
	1	0.0002			
0.0048	18	0.0021	23	0.0035	49
			2	0.0006	

					2
			2	0.0012	1
0.0001					
0.0001	1	0.0005			
0.0001					2
0.0026					
	1	0.0001	1	0.0001	
0.0044	1	0.001	1	0.0006	3
0.0001					
	1	0.0009			1
			1	0.0014	
0.0004					

0.0424	70	0.0961	1	0.0122	
0.0857	2	0.1047	40	0.0438	68

0.0026	4	0.0006			
0.0002	1	0.0013	1	0.0013	4
0.0007					

0.0158	4	0.0245	3	0.0314	
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0.0049					4
0.001					
0.0057	20	0.0193			28

	3	0.0004	4	0.0017	6
	2	0.0006	2	0.0005	6

3

0.001	1	0.0002	2	0.0009	
0.0013			1	0.0001	

0.0001

0.0001  
0.0004

1

			1	0.0069	
			2	0.0002	1
0.0015	5	0.0002	2	0.0001	12

2.8058			1	1.8961	2
			1	0.0007	1
	1	0.0215			

0.1375					1
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0.065 0.0209	1	0.0885	1	0.0722	4
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	1	0.1508			
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1



			1	0.0002	
0.0017					5
	2	1.7881	5	3.4018	1
0.0006					1
	2	0.0005			
0.0046			1	0.0061	
	2	0.0001			1
					1
					1

0.0051					1
0.0001					1
	1	0.0026			
0.0084	1	0.0014	1	0.0012	2
			6	0.0041	2
	1	0.0213	1	0.0073	
0.1635					7
	4	0.1405			2
0.0001					
0.0014					2

					1
	1	0.00604			2
					1
	1	0.0001	2	0.0005	1
0.0001					2
	2	0.0007			
0.0173			8	0.0102	1
0.0001					5
					1
	3	0.0002			2
0.1165	1	0.0049	4	0.0306	1
0.0059					2
26.7349	404	9.86994	287	11.7976	511

Hilmars Box Biomass (g) 17/09/2008	Hilmars Box Abundance 05/11/2008	Hilmars Box Biomass (g) 05/11/2008	Hilmars Box Abundance 05/11/2008	Hilmars Box Biomass (g) 05/11/2008	Hilmars Box Abundance 05/11/2008
Rep 5	Rep 1	Rep 1	Rep 2	Rep 2	Rep 3
		1			1
0.0001					
2.691				2	1.2174
0.0025					3
0.0032	11	0.0095	15	0.0213	3
0.0002			1	0.0001	5
1.1031					
			2	0.0078	
0.2816		1.293		1.2115	
0.0009					
			1	0.0001	
0.004	1	0.7194			1
			2	0.0001	1
	2	0.0853	1	0.0348	1

	1	0.0206			1
	1	0.0001			2
	5	0.0203	3	0.0054	1
0.002	1	0.0003			
			1	0.0001	1
					1
	1	0.0321			
0.005			2	0.0382	2
	1	0.0012			
0.0075	1	0.0001	1	0.0001	6
			4	0.0012	
0.0001					
			1	0.0001	
0.0016	5	0.0015	2	0.0004	3
	2	0.0001	12	0.0008	2
			1	0.0001	

0.0308	3	0.0141	3	0.0041	4
0.074					2
0.1934	1	0.0689			3
			1	0.1672	2
			1	0.0284	
0.1516					1
0.161	23	0.1332	21	0.1093	10 9
0.3112					
			1	0.0123	
	1	0.0003			
0.4375	1	0.0834	5	0.6897	2
	1	0.0003	2	0.0001	1

0.0023	9	0.0022	14	0.0031	6
0.0012	3	0.001	7	0.0026	3
0.1498	82	0.2222	83	0.1712	134
0.0008					
0.003					
0.0003					1
0.005					
0.0005	11	0.0036	15	0.0029	6
	3	0.0096			5
0.0042	4	0.0061			2
0.0233	4	0.0088	4	0.0088	7
0.0001	1	0.0053	1	0.0082	1
0.0013	10	0.0023	9	0.0021	9
0.0019			1	0.0001	
0.004					1
					2
0.0041	1	0.0006			4
	8	0.0033	4	0.0023	2
					1
					1
			1	0.0001	3
			2	0.1165	
0.0407	3	0.0699	2	0.0036	4
0.0024	4	0.0046	6	0.0047	4
0.0001			1	0.0001	1
			1	0.612	

0.0228

0.0001

0.0566	1	0.0062	2	0.0066	4
0.1215					
0.0053					

0.001					
0.0029					1
0.0246			1	0.0678	

0.019

0.0267			2	0.0236	
0.0157	1	0.0029	3	0.0277	1
					2
	1	0.1169			1
					2

0.0035

3

0.0005					
0.0001					
0.0001					1
			1	0.0001	

0.0086	3	0.0007	7	0.0011	19
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0.0023

0.0002

6	0.0018	14	0.0048	5
3	0.0053	5	0.0095	
		1	0.0002	

0.0015

1	0.001			1
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7

0.0026

3	0.0009			
2	0.0018	3	0.0031	7
				2

0.0001

1	0.0007			
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1	0.0007			
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0.0974	2	0.0173			2
	63	0.1108	52	0.0918	61
	2	0.0426	2	0.0119	
			2	0.0017	
	2	0.0021			1
			1	0.0015	
0.0018					
			2	0.001	
0.0046	2	0.0028	4	0.0026	
	10	0.0061	14	0.0074	
0.0093	18	0.0138	87	0.0487	2
	12	0.0082	60	0.0324	
0.0028					4
0.0009					
0.0007					
			3	0.0019	1
	1	0.0007	1	0.0007	
	1	0.0001	4	0.0004	2
	9	0.0066	2	0.0017	8
0.0004	1	0.0001			3

			2	0.0012	1
0.0001	1	0.0004			
	8	0.0237	3	0.0102	22
0.0001	2	0.0006	10	0.0109	
0.0027	3	0.0016			
	4	2.5819			
	4	0.0059			3
			6	0.0168	
1.355					
0.0108	1	0.0443	1	0.0242	
0.0842					
0.335					
			1	0.0407	
0.0077					

2

0.0092

2

0.5412

1

0.0017

1 0.0001

1

4 0.0289

1

0.0001

0.0112

1 0.0009

0.0114

1

0.0021

					1
0.0219	5	2.5597	2	2.5481	3
	1	0.0047			2
0.0001			1	0.0004	
0.0001					
0.0074					8
			1	0.0002	
0.2426	2	0.00942	2	0.1172	4
0.0046	1	0.0012	2	0.0051	
			1	0.2171	
	1	0.0005	2	0.0189	2
0.0066			3	0.0285	

6.6693

0.213

2

0.1442

1

0.0731

1

0.0007

0.0008

1

0.0001

1

0.001

3

0.0008

3

0.0058

0.004

0.0117

3

0.0067

0.0001

13

0.0023

7

0.0015

9

0.0041

0.0049

15.7802

393

8.41182

475

Hilmars Box Biomass (g) 05/11/2008	Hilmars Box Abundance 05/11/2008	Hilmars Box Biomass (g) 05/11/2008	Hilmars Box Abundance 05/11/2008	Hilmars Box Biomass (g) 05/11/2008	Hilmars Box Abundance 18/03/2009
Rep 3 0.0205	Rep 4	Rep 4	Rep 5	Rep 5	Rep 1
		2	1.49		3 1
0.0041		3	0.0065	3	0.0705
0.0083		3	0.0063	8	0.0172
0.0002		4	0.0001	1	0.0008
					1
		2	0.0172		
3.4716			3.401		0.9406
				1	0.0025
0.0034					
0.0005		2	0.0003	1	0.0001
0.0333		3	0.1147	2	0.1912

0.0823

0.001			1	0.0002	
			1	0.0012	

0.0002	1	0.0008	3	0.0033	
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	4	0.0025			3
--	---	--------	--	--	---

0.0007

0.0002			1	0.0001	
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0.0105	3	0.0052	3	0.0032	1
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	1	0.0016			
--	---	--------	--	--	--

0.0027	4	0.0076	10	0.0087	3
--------	---	--------	----	--------	---

1

0.0006	4	0.0003	7	0.0018	1
0.0001	2	0.0001	1	0.0001	2

1



0.003	5	0.4383 0.0076	7	0.0159	3
0.1985					1
0.5155	1	0.0633	4	0.5429	1
0.0631	1	0.0369	2	0.0808	
0.0293	1	0.0083			1
0.0251	24	0.1244	8	0.0504	12
0.0343	1	0.2453			2
	1	0.0378			1
0.1918			1 1	0.0051 0.8633	
0.0005			4	0.002	

0.0013	4	0.0007	5	0.0014	3
0.0015	2	0.0009	3	0.0009	1
0.2288	99	0.1652	173	0.3721	37

0.0001	1	0.0001			1
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			1	0.0007	
--	--	--	---	--------	--

0.0024	7	0.0017	9	0.0021	1
0.0122	5	0.0109	2	0.0048	
0.0008	2	0.0019	2	0.0048	
0.0072	4	0.0101	6	0.0062	4

0.0001	3	0.0029			1
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0.0019	10	0.0019	6	0.0011	5
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	1	0.0011			
--	---	--------	--	--	--

0.0014					
0.0021	5	0.006			

0.0064	3	0.0032	1	0.0041	
0.0001	1	0.0001	3	0.0031	
0.0003					

0.0067					
	1	0.0005			

0.0179	1	0.0055			
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			2	0.2899	1
0.0157	4	0.0063			2

	1	0.6319			
0.0025	3	0.0011	6	0.0051	6

0.0023	2	0.0017			
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	1	0.0002			
0.0194	7	0.0226	5	0.0074	2
	2	0.0016			
			1	0.0073	
0.0009	2	0.0069	1	0.0011	1
	1	0.0378	1	0.0051	
	2	0.0219			
0.0579	1	0.0048	3	0.0076	2
0.0172					
0.0057					
0.0442					
0.0016			3	0.0011	
0.0001			1	0.0002	
0.0042	56	0.0163	37	0.0149	1

0.0018

3

0.0015

1

0.0011

1

0.0001

0.0009

1

0.0053

3

0.0098

3

0.001

0.0035

6

0.0013

4

0.0013

2

0.0008

1

0.0003

1

1

0.0326	2	0.0124	3	0.0479	
0.1003	85	0.1156	64	0.1105	21
	1	0.1302			
					3
0.0008	1	0.0005	4	0.003	
			2	0.0022	1
	1	0.0001			
					2
	2	0.0001	4	0.0025	
0.0009	35	0.0197			7
0.0005	1	0.0001	3	0.0006	
0.0004	1	0.0003	1	0.0006	1
					1
0.0001	5	0.0003			
0.0035	9	0.0045	4	0.0008	
0.0007					

0.0007	1	0.0001			1
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0.0359	16	0.0392	3	0.0045	2
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0.0085	1	0.0017	2	0.0022	1
			1	0.0751	3

	1	0.0003			
--	---	--------	--	--	--

0.0006

0.0037

0.0093

0.0001  
0.025

5

0.0012

1

0.0071

3

0.0007

1

1

0.0045

0.0014	1	0.0001			
	1	0.0013			
3.2232	4	5.1253	5	4.327	1
0.0217	2	0.0088			
	1	0.0008			2
			1	0.0034	
0.0021					6
	1	0.0031			
0.1738	4	0.2618			3
	8	0.0058			4
0.0009					
	1	0.0019	1	0.0007	



	2	1.42956	1	9.9348	
0.1156	1	0.2313			
0.0009	1	0.0001			
			1	0.0023	
			1	0.0007	
0.0009			1	0.001	1
	1	0.0013			
0.0012					
	9	0.0016	6	0.0007	2
8.9213	526	14.40026	457	18.0728	

Hilmars Box Biomass (g) 18/03/2009	Hilmars Box Abundance 18/03/2009	Hilmars Box Biomass (g) 18/03/2009	Hilmars Box Abundance 18/03/2009	Hilmars Box Biomass (g) 18/03/2009	Hilmars Box Abundance 18/03/2009
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Rep 1

Rep 2

Rep 2

Rep 4

Rep 4

Rep 3

1 0.0558

2.1218

2.6566

1

3.7223

1

0.1869

1

0.0005

5

0.0122

4

0.0001

3

0.0002

1

0.0014

1

0.0019

2

0.0056

2.2803

1.4888

1.3676

1

0.0018

1

0.0009

1

1

1

0.0001

1

1

1

0.0026	2	0.0009			1
			1	0.0038	
0.0021					3
			2	0.0065	
0.0012			2	0.0007	2
0.0016					2
					1
0.0001			1	0.0001	
0.0001			1	0.0001	1
0.0001					1

	1	0.0092	2	0.7197	1
0.003	2	0.005	4	0.0085	4
0.0228					1
0.1666			1	0.0736	1
	2	0.0893	1	0.0243	
			2	0.2614	
					1
					1
					1
0.0127			1	0.1705	
0.0198	5	0.0118	19	0.0556	25
0.0285			3	0.0187	
0.3793					
0.0131					
	1	0.0004			
	1	0.0011			1
	1	0.1568			
	1	0.0001	6	0.0025	3

0.0001	1	0.0001	1	0.0001	3
0.0001			2	0.0005	1
0.0579	30	0.0429	34	0.0409	21
0.0001					1
	4	0.0026			1
0.0006			2	0.0008	1
			1	0.0019	
0.0074	2	0.0031	6	0.0123	5
0.0027					1
0.0006	1	0.0001	3	0.0003	4
	1	0.0004			1
			2	0.0015	1
	1	0.0005	3	0.0026	2
			1	0.0005	
0.4019					
0.0593	2	0.0208	2	0.0348	1
0.0043	1	0.001	5	0.004	4
	1	0.0026	3	0.0034	
	1	0.3662	1	0.6194	
0.6054					1

					1
0.0014			1	0.005	3

0.0001

	2	0.0401	1	0.0333	
			1	0.008	
0.0084	3	0.0035			2

	1	0.0005			2
					1

0.0001	1	0.0002	22	0.0091	2
			2	0.0001	

1

1

0.0023

1

0.001

2

0.0019

2

0.0032

1

1

0.0001

1

0.0001

1

0.0208	13	0.0233	16	0.0277	18
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0.0013

0.0011

0.0168	1	0.0039
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0.0073

1	0.0001	1
---	--------	---

1	0.0021
---	--------

0.0002	1	0.0001
0.0003		



0.0004			1	0.0001	4
	1	0.0003			
0.0064			2	0.0028	1
					1
	1	0.0015	1	0.0012	
0.012	1	0.3389			
	1	0.2255			1
2.8555	3	3.0135	1	1.1327	1
					1
	1	0.3313			1

1

0.0001

2

2

1

0.9559

0.0023

0.0032

1

0.0006

0.2196

1

0.0865

1

0.0893

0.0003

1

1

1

0.0008

0.0006

1

0.0027

2

0.0016

3

Hilmars Box Biomass (g) 18/03/2009	Hilmars Box Abundance 18/03/2009	Hilmars Box Biomass (g) 18/03/2009
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Rep 3

Rep 5

Rep 5

1 1.6801

0.0008 1 0.0001

0.0001

3.291 0.5963

0.0187

0.0012

0.0001

0.0026

0.0622

1 0.0013

0.0001

0.0211 1 0.0018

0.0001 3 0.0065

0.0008

0.0015

0.0001 1 0.0001

0.0001 1 0.0001

0.0003

0.0078            7            0.0119

0.1882

0.0354            2            0.189

0.0001

0.0783

1.7918            1            0.0063

0.0659            4            0.0125

3            0.0105

0.0004

1            0.0056

0.0006

0.0007	2	0.0006
0.0001	4	0.0021
0.0294	36	0.0529

0.0001

0.0005	6	0.0082
--------	---	--------

0.0001

0.0038	5	0.0039
--------	---	--------

0.0021	4	0.0036
--------	---	--------

0.0004	3	0.0002
--------	---	--------

0.0014

0.0003

0.0057	2	0.0005
--------	---	--------

0.0378	3	0.073
--------	---	-------

0.0013	1	0.0009
--------	---	--------

	1	0.0008
--	---	--------

0.0668



0.0001

0.0047

3  
1

0.0093  
0.0004

2

0.0226

0.0042

3

0.0079

0.0001

0.0001

0.0008

14

0.003

0.0003

0.0001

0.0009

1

0.0006

0.0021

1

0.0001

0.0005

0.0021

0.0001

0.0409

15

0.031

5

0.0064

0.0005

1

0.0004

1

0.2836

0.0015

0.0007

0.0008

4 0.0026

1 0.0873

2.7952  
0.0078  
1.4718

0.0108

0.0081 1 0.2489

1 0.0163

1 0.0006

0.001

0.001

0.0202

0.1684

1 0.0009

1 0.0048

1 0.0693

7.7641

0.2397

4 0.0023

0.0001

0.0043 5 0.0066