	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	**FOOD WEB (PRG) MODEL REQUIRED INPUTS**																	
2	**PARAMETER DESCRIPTION**	**Symbol**	**Units**	**General**	**PHY (2)**	**ZOO (3)**	**BIF (4)**	**BIC (5)**	**EIC (6)**	**SCL (7)**	**LSS (8)**	**CAR (9)**	**SMB (10)**	**NPM (11)**				
3	**Physical / Chemical Parameters**																	
4	Octanol-water partition coefficient	KOW	kg/L	6.60	Kow - chemical specific													
5	Organic carbon content of sediment	OCSS	unitless	0.017137207	Windward 2005													
6	Henry's Law constant	H	Pa.m3/mol	1	Value cancels out						Chemical-specific parameter							
7	Mean water temperature	TW	C	13.69418928	ODEQ data - year round						Calibrated non-chemical-specific parameter							
8	Concentration of suspended soilds	CPW	kg/L	1.40E-05	Windward 2005 Peristaltic pump data near bottom only													
9	Concentration in water (filtered water)	CWT	ng/L	0.00000051	Windward 2005- column data only - chemical specific													
10	Bioavailable concentration in water	CWB	ng/g	2.98E-10	model calculation- based on column water data and DOC				5.43899E-06									
11	Concentration in sediment solids	CST	ng/g	0.0001	SWAC -Windward - chemical specific													
12	Concentration in sediment porewater	CSD	ng/g	4.48E-09	model calculation													
13	Density of sediment OC	DOCS	kg/L	1	Previous model used value of 0.9- Susie says we should eliminate													
14																		
15	**Bioavailable Fraction Parameters**																	
16	Particulate OC concentration in water	XPOC	kg/L	4.0E-07	NOT USED IN MODEL													
17	POC proportionality constant	aPOC	unitless	0.35	NOT USED IN MODEL													
18	Dissolved OC concentration in water	XDOC	kg/L	1.4E-06	Peristaltic pump sample data from 3 integrated transects													
19	DOC proportionality constant	aDOC	unitless	0.028	NOT USED IN MODEL													
20	Bioavailable solute fraction	BSF	unitless	0.58														
21																		
22	**General Biological Parameters**																	
23	Uptake constant A for organism	UA	unitless	6.0E-05	Gobas and Arnot (2005)													
24	Uptake constant B for organism	UB	unitless	5.5	Arnot & Gobas 2004, Gobas and Arnot 2005													
25	Dietary transfer efficiency constant A	EDA	unitless	3E-07	point estimate; Arnot & Gobas 2004													
26	Dietary transfer efficiency constant B	EDB	unitless	2.0	point estimate; Arnot & Gobas 2004													
27	NLOM-octanol proportionality constant	BETA	unitless	0.035	Arnot & Gobas 2004, St dev Arnot 2005													
28	NLOC-octanol proportionality constant	GAMMA	unitless	0.35	point estimate; Arnot & Gobas 2005													
29																		
30	**Organism-Specific Biological Parameters**				**PHY (2)**	**ZOO (3)**	**BIF (4)**	**BIC (5)**	**EIC (6)**	**SCL (7)**	**LSS (8)**	**CAR (9)**	**SMB (10)**	**NPM (11)**				
31	Weight	WB	kg			1.70E-07	0.001257289	4.80E-06	0.043831184	0.01997307	0.803933281	2.504577005	0.352442399	0.598644014				
32	Lipid fraction of organism	VLB	fraction		0.001225109	0.010725222	0.022248037	0.014234069	0.007624181	0.04158907	0.073320748	0.093503651	0.050655622	0.063093672				
33	Water content fraction of organism	VWB	fraction		0.947163613	0.820237252	0.863274083	0.803522652	0.737757493	0.75134248	0.71364571	0.684286952	0.71357333	0.712772706				
34	Dietary absorption efficiency of lipid	eL	unitless			0.72	0.75	0.75	0.75	0.92	0.92	0.92	0.92	0.92				
35	Dietary absorption efficiency of NLOM	eN	unitless			0.72	0.75	0.75	0.75	0.60	0.60	0.60	0.60	0.60				
36	Dietary absorption efficiency of water	eW	unitless			0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25				
37	Fraction of pore water ventilated	FPW	unitless		0	0	0.052688338	0.069502945	0.027600468	0.04474378	0	0	0	0				
38	Filter feeder scavenging efficiency	SCV	unitless				1											
39																		
40	**Organism-Specific Rate Constants**																	
41	Growth rate constant	KG	1/d		0.093635253													
42	Metabolic rate constant	KM	1/d		0.02	0	0.050	0.050	0.050	0.020	0.020	0.020	0.020	0.020				
43																		
44					**PHY (2)**	**ZOO (3)**	**BIF (4)**	**BIC (5)**	**EIC (6)**	**SCL (7)**	**LSS (8)**	**CAR (9)**	**SMB (10)**	**NPM (11)**				
45	**Tissue Concentration Outputs**	CB	ug/kg	0.00000051	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?				
46	**Measured tissue concentration**		ug/kg				234		70.4	687	887	2760	1050	868				
47	**SPAF**						#NAME?		#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	**#NAME?**			
48	**Percent difference**						#NAME?		#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?				

Cell: E45
Comment: Forecast: CB phy

Cell: F45
Comment: Forecast: CB zoo

Cell: G45
Comment: Forecast: CB BIF

Cell: H45
Comment: Forecast: CB BIC

Cell: I45
Comment: Forecast: CB EIC

Cell: J45
Comment: Forecast: CB scl

Cell: K45
Comment: Forecast: CB lss

Cell: L45
Comment: Forecast: CB car

Cell: M45
Comment: Forecast: CB smb

Cell: N45
Comment: Forecast: CB npm

	A	B	C	D	E	F	G	H	I	J	K	L
1	PREY > PREDATOR	(1) Sediment solids (particles)	(2) Phytoplankton	(3) Zooplankton	(4) Benthic invertebrate (filter feeder)	(5) Benthic invertebrate (consumer)	(6) Epibenthic invertebrate (consumer)	(7) Sculpin (forage)	(8) Largescale sucker (benthivore)	(9) Carp (omnivore)	(10) Smallmouth bass (sml piscv)	(11) Northern pikeminnow (lrg piscv)
2	(1) Sediment solids (particles)											
3	(2) Phytoplankton											
4	(3) Zooplankton		1.00									
5	(4) Benthic invertebrate (filter feeder)	0.779	0.221									
6	(5) Benthic invertebrate (consumer)	0.909	0.091									
7	(6) Epibenthic invertebrate (consumer)	0.0241	0.1137	0.175	0.219	0.467						
8	(7) Sculpin (forage)	0.03324	0	0.02738	0.3249	0.528	0.0866					
9	(8) Largescale sucker (benthivore)	0.1486	0.150	0.1960	0.073	0.268	0.165	0				
10	(9) Carp (omnivore)	0.0417	0.335	0	0.142	0.481	0	0	0			
11	(10) Smallmouth bass (sml piscv)	0	0	0	0	0.2439	0.170	0.586	0	0		
12	(11) Northern pikeminnow (lrg piscv)	0	0.0847	0	0.0558	0.355	0.295	0.209	0	0	0	

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Work Product Prepared in Anticipation of Litigation

Parameter Type	Parameter Description	Symbol	Units	47940	Changed from R27	Uncalibrated Values
Physical / Chemical	Organic carbon content of sediment	OCSS	unitless	0.0171	yes	0.0171
Physical / Chemical	Mean water temperature	TW	C	13.5918182	yes	13.9
Physical / Chemical	Concentration of suspended solids	CPW	kg/L	0.00001460	yes	0.0000113
Bioavailable Fraction	Dissolved OC concentration in water	XDOC	kg/L	0.00000138	yes	0.00000138
PHY-specific biological	Lipid fraction of organism	PHY-VLB	fraction	0.001225109	no	0.00123
PHY-specific biological	Water content fraction of organism	PHY-VWB	fraction	0.947163613	no	0.955
PHY-specific biological	Growth rate constant	PHY-KG	1/d	0.093635253	no	0.08
ZOO-specific biological	Weight	ZOO-WB	kg	0.00000017	no	0.00000014
ZOO-specific biological	Lipid fraction of organism	ZOO-VLB	fraction	0.010725222	no	0.01
ZOO-specific biological	Water content fraction of organism	ZOO-VWB	fraction	0.820327257	no	0.9
BIF-specific biological	Weight	BIF-WB	kg	0.001257289	yes	0.00125
BIF-specific biological	Lipid fraction of organism	BIF-VLB	fraction	0.022248037	yes	0.022
BIF-specific biological	Water content fraction of organism	BIF-VWB	fraction	0.863274083	yes	0.86
BIF-specific biological	Fraction of pore water ventilated	BIF-FPW	unitless	0.052588339	no	0.05
BIC-Specific Biological	Weight	BIC-WB	kg	0.00000489	no	0.00000533
BIC-Specific Biological	Lipid fraction of organism	BIC-VLB	fraction	0.014234069	no	0.015
BIC-Specific Biological	Water content fraction of organism	BIC-VWB	fraction	0.803552652	no	0.8
BIC-Specific Biological	Fraction of pore water ventilated	BIC-FPW	unitless	0.066602645	no	0.05
EIC-Specific Biological	Weight	EIC-WB	kg	0.043631184	yes	0.0435
EIC-Specific Biological	Lipid fraction of organism	EIC-VLB	fraction	0.027524181	yes	0.0278
EIC-Specific Biological	Water content fraction of organism	EIC-VWB	fraction	0.737757491	yes	0.74
EIC-Specific Biological	Fraction of pore water ventilated	EIC-FPW	unitless	0.027600460	no	0.05
SCL-Specific Biological	Weight	SCL-WB	kg	0.019973073	yes	0.0196
SCL-Specific Biological	Lipid fraction of organism	SCL-VLB	fraction	0.043588967	yes	0.041
SCL-Specific Biological	Water content fraction of organism	SCL-VWB	fraction	0.751342484	yes	0.75
SCL-Specific Biological	Fraction of pore water ventilated	SCL-FPW	unitless	0.044743276	no	0.05
LSS-Specific Biological	Weight	LSS-WB	kg	0.803631241	no	0.794
LSS-Specific Biological	Lipid fraction of organism	LSS-VLB	fraction	0.073320748	no	0.076
LSS-Specific Biological	Water content fraction of organism	LSS-VWB	fraction	0.71364571	no	0.71
CAR-Specific Biological	Weight	CAR-WB	kg	2.504577005	yes	2.48
CAR-Specific Biological	Lipid fraction of organism	CAR-VLB	fraction	0.092503851	yes	0.088
CAR-Specific Biological	Water content fraction of organism	CAR-VWB	fraction	0.694286952	yes	0.69
SMB-Specific Biological	Weight	SMB-WB	kg	0.352442339	yes	0.395
SMB-Specific Biological	Lipid fraction of organism	SMB-VLB	fraction	0.050655622	yes	0.054
SMB-Specific Biological	Water content fraction of organism	SMB-VWB	fraction	0.71357333	yes	0.71
NPM-Specific Biological	Weight	NPM-WB	kg	0.598644014	no	0.558
NPM-Specific Biological	Lipid fraction of organism	NPM-VLB	fraction	0.063093572	no	0.053
NPM-Specific Biological	Water content fraction of organism	NPM-VWB	fraction	0.712772706	no	0.719
BIF prey (lower grid)	BIF consumption of SED	BIF-SED	fraction	0.779283649	no	0.7
BIC prey (lower grid)	BIC consumption of SED	BIC-SED	fraction	0.065498256	no	0.05
EIC prey (lower grid)	EIC consumption of SED	EIC-SED	fraction	0.026865433	no	0.02
EIC prey (lower grid)	EIC consumption of PHY	EIC-PHY	fraction	0.128584093	no	0.1
EIC prey (lower grid)	EIC consumption of ZOO	EIC-ZOO	fraction	0.195417815	no	0.1
EIC prey (lower grid)	EIC consumption of BIF	EIC-BIF	fraction	0.244261263	no	0.18
EIC prey (lower grid)	EIC consumption of BIC	EIC-BIC	fraction	0.52059241	no	0.6
SCL prey (lower grid)	SCL consumption of SED	SCL-SED	fraction	0.031245268	no	0
SCL prey (lower grid)	SCL consumption of ZOO	SCL-ZOO	fraction	0.025735855	no	0
SCL prey (lower grid)	SCL consumption of BIF	SCL-BIF	fraction	0.305400163	yes	0.15
SCL prey (lower grid)	SCL consumption of BIC	SCL-BIC	fraction	0.495055523	yes	0.8
SCL prey (lower grid)	SCL consumption of EIC	SCL-EIC	fraction	0.081368886	no	0.05
LSS prey (lower grid)	LSS consumption of SED	LSS-SED	fraction	0.14138177	no	0.05
LSS prey (lower grid)	LSS consumption of PHY	LSS-PHY	fraction	0.143035269	no	0.25
LSS prey (lower grid)	LSS consumption of ZOO	LSS-ZOO	fraction	0.187168884	no	0.15
LSS prey (lower grid)	LSS consumption of BIF	LSS-BIF	fraction	0.069936886	no	0.1
LSS prey (lower grid)	LSS consumption of BIC	LSS-BIC	fraction	0.25557726	no	0.25
LSS prey (lower grid)	LSS consumption of EIC	LSS-EIC	fraction	0.157198062	no	0.2
CAR prey (lower grid)	CAR consumption of SED	CAR-SED	fraction	0.041292288	no	0.05
CAR prey (lower grid)	CAR consumption of PHY	CAR-PHY	fraction	0.331306261	no	0.45
CAR prey (lower grid)	CAR consumption of BIF	CAR-BIF	fraction	0.140832977	no	0.1
CAR prey (lower grid)	CAR consumption of BIC	CAR-BIC	fraction	0.475563289	no	0.4
SMB prey (lower grid)	SMB consumption of BIC	SMB-BIC	fraction	0.04252336	no	0.05
SMB prey (lower grid)	SMB consumption of EIC	SMB-EIC	fraction	0.196618884	no	0.05
SMB prey (lower grid)	SMB consumption of SCL	SMB-SCL	fraction	0.657262512	no	0.9
NPM prey (lower grid)	NPM consumption of PHY	NPM-PHY	fraction	0.094252314	yes	0.04
NPM prey (lower grid)	NPM consumption of BIF	NPM-BIF	fraction	0.062163687	yes	0.05
NPM prey (lower grid)	NPM consumption of BIC	NPM-BIC	fraction	0.394736186	yes	0.26
NPM prey (lower grid)	NPM consumption of EIC	NPM-EIC	fraction	0.328819639	yes	0.4
NPM prey (lower grid)	NPM consumption of SCL	NPM-SCL	fraction	0.22326808	yes	0.25

Parameter Name	47919	15322	22032	573	44233	42471	45918	45196	27979	37975	38531	32240	39172	18393	35602	48362	14424	695	33043	10866	43955	19883	45918	20748	13639
012 Sediment OC	0.0171	0.0176	0.0167	0.0171	0.0171	0.0173	0.0169	0.0171	0.0172	0.0174	0.0171	0.0166	0.0168	0.0166	0.0174	0.0172	0.0173	0.0172	0.0172	0.0173	0.0174	0.0171	0.0164	0.0171	0.0172
013 Water temp	10.6	12.5	15.9	12.3	13.1	12.7	12.8	13.7	12.3	14.8	15.2	12.5	13.1	12.8	13.1	14.9	14.0	12.7	11.8	12.7	11.8	13.2	11.3	16.2	14.5
014 Conc suspended solids	2.33E-05	1.43E-05	1.47E-05	1.84E-05	1.33E-05	2.04E-05	1.49E-05	1.40E-05	3.60E-06	1.79E-05	1.33E-05	1.58E-05	1.91E-05	1.11E-05	2.26E-05	2.08E-05	1.67E-05	1.77E-05	1.06E-05	1.82E-05	1.51E-05	1.19E-05	1.00E-05	1.68E-05	1.71E-05
016 XDOC	1.44E-06	1.46E-06	1.40E-06	1.32E-06	1.40E-06	1.38E-06	1.34E-06	1.31E-06	1.42E-06	1.42E-06	1.41E-06	1.36E-06	1.45E-06	1.31E-06	1.37E-06	1.36E-06	1.38E-06	1.36E-06	1.32E-06	1.37E-06	1.37E-06	1.31E-06	1.46E-06	1.41E-06	1.50E-06
022 PHY foods	0.00115	0.00115	0.00122	0.00154	0.00152	0.00181	0.00138	0.00123	0.00123	0.00166	0.00183	0.00125	0.00345	0.00131	0.00141	0.00118	0.00119	0.00159	0.00140	0.00118	0.00154	0.00145	0.00173	0.00124	0.00160
023 PHY moisture	0.956	0.946	0.973	0.984	0.959	0.989	0.971	0.947	0.981	0.979	0.951	0.980	0.979	0.974	0.947	0.989	0.984	0.983	0.960	0.978	0.963	0.950	0.955	0.964	0.961
024 PHY growth rate	0.07	0.06	0.12	0.11	0.07	0.07	0.08	0.09	0.08	0.08	0.09	0.05	0.06	0.05	0.05	0.05	0.07	0.07	0.04	0.06	0.07	0.07	0.09	0.08	0.07
032 ZOO weight	1.3E-07	1.3E-07	1.8E-07	7.6E-08	8.9E-08	1.8E-07	1.5E-07	1.7E-07	1.6E-07	1.2E-07	9.7E-08	1.2E-07	1.4E-07	1.1E-07	1.6E-07	7.3E-08	1.8E-07	1.5E-07	9.7E-08	1.1E-07	1.8E-07	1.9E-07	1.7E-07	1.4E-07	1.2E-07
033 ZOO lipids	0.009	0.010	0.010	0.010	0.010	0.011	0.010	0.011	0.010	0.010	0.010	0.010	0.009	0.010	0.010	0.010	0.010	0.011	0.010	0.011	0.009	0.010	0.010	0.010	0.010
034 ZOO moisture	0.91	0.87	0.88	0.91	0.88	0.94	0.87	0.82	0.93	0.96	0.96	0.94	0.89	0.92	0.91	0.93	0.88	0.88	0.89	0.91	0.97	0.94	0.93	0.87	0.92
041 BIF weight	0.00124	0.00127	0.00127	0.00123	0.00125	0.00120	0.00124	0.00126	0.00127	0.00125	0.00128	0.00125	0.00122	0.00128	0.00126	0.00125	0.00125	0.00122	0.00124	0.00125	0.00126	0.00125	0.00125	0.00127	0.00124
042 BIF lipids	0.02078	0.02242	0.02100	0.02185	0.02203	0.02375	0.02379	0.02225	0.02260	0.02304	0.02223	0.02327	0.02319	0.02140	0.02117	0.02211	0.02316	0.02153	0.02247	0.02073	0.02263	0.02110	0.02287	0.02253	0.02259
043 BIF moisture	0.863	0.857	0.866	0.860	0.861	0.857	0.857	0.863	0.857	0.861	0.858	0.854	0.855	0.864	0.859	0.862	0.859	0.861	0.861	0.862	0.855	0.862	0.858	0.860	0.859
044 BIF ow ventilation	0.07	0.10	0.02	0.05	0.09	0.05	0.02	0.05	0.10	0.10	0.06	0.08	0.09	0.07	0.06	0.10	0.06	0.07	0.07	0.03	0.05	0.09	0.05	0.06	0.02
051 BIC weight	2.47E-06	4.88E-06	4.08E-06	4.86E-06	2.27E-06	4.30E-06	3.07E-06	4.80E-06	2.93E-06	4.79E-06	1.98E-06	3.77E-06	4.71E-06	4.51E-06	3.39E-06	3.86E-06	2.80E-06	5.12E-06	2.47E-06	5.85E-06	5.51E-06	4.39E-06	5.33E-06	4.39E-06	3.42E-06
052 BIC Lipids	0.023	0.024	0.020	0.011	0.017	0.025	0.020	0.024	0.041	0.031	0.023	0.039	0.031	0.021	0.017	0.037	0.026	0.011	0.024	0.016	0.016	0.017	0.010	0.020	0.026
053 BIC Moisture	0.79	0.74	0.81	0.80	0.84	0.79	0.87	0.80	0.85	0.81	0.76	0.83	0.88	0.87	0.82	0.73	0.84	0.76	0.78	0.80	0.84	0.81	0.79	0.75	0.80
054 BIC ow ventilation	0.01	0.02	0.02	0.06	0.09	0.08	0.04	0.07	0.02	0.05	0.01	0.03	0.08	0.06	0.07	0.02	0.07	0.07	0.08	0.07	0.03	0.07	0.05	0.05	0.02
061 EIC Weight	0.0442	0.0440	0.0431	0.0436	0.0435	0.0426	0.0438	0.0438	0.0440	0.0427	0.0431	0.0444	0.0431	0.0430	0.0442	0.0445	0.0435	0.0460	0.0441	0.0433	0.0438	0.0440	0.0427	0.0422	0.0438
062 EIC lipids	0.00766	0.00760	0.00753	0.00866	0.00750	0.00779	0.00805	0.00762	0.00782	0.00820	0.00782	0.00721	0.00792	0.00754	0.00784	0.00748	0.00786	0.00787	0.00824	0.00788	0.00800	0.00820	0.00746	0.00830	0.00786
063 EIC moisture	0.743	0.735	0.738	0.736	0.738	0.742	0.738	0.738	0.738	0.742	0.737	0.739	0.743	0.743	0.743	0.745	0.738	0.742	0.742	0.741	0.739	0.744	0.738	0.741	0.740
064 EIC ow ventilation	0.07	0.09	0.09	0.04	0.01	0.04	0.07	0.03	0.10	0.05	0.06	0.08	0.06	0.08	0.03	0.05	0.04	0.06	0.08	0.08	0.04	0.04	0.08	0.07	0.06
071 SCL Weight	0.01970	0.01962	0.02027	0.01915	0.01995	0.01940	0.01961	0.01997	0.01961	0.01984	0.01924	0.02032	0.02010	0.02001	0.01962	0.02002	0.01976	0.01988	0.01945	0.02030	0.01952	0.01966	0.01940	0.01962	0.01973
072 SCL lipids	0.0414	0.0403	0.0443	0.0422	0.0417	0.0386	0.0428	0.0416	0.0398	0.0395	0.0398	0.0424	0.0410	0.0422	0.0425	0.0391	0.0400	0.0422	0.0404	0.0421	0.0417	0.0405	0.0404	0.0391	0.0403
073 SCL moisture	0.752	0.753	0.749	0.748	0.745	0.753	0.745	0.751	0.752	0.751	0.750	0.749	0.751	0.750	0.746	0.754	0.751	0.749	0.750	0.748	0.749	0.754	0.745	0.752	0.752
074 SCL ow ventilation	0.04	0.06	0.06	0.09	0.03	0.03	0.04	0.04	0.04	0.02	0.07	0.07	0.07	0.06	0.09	0.04	0.07	0.02	0.05	0.03	0.09	0.08	0.10	0.06	0.05
081 LSS Weight	0.7659	0.7867	0.7999	0.8048	0.8191	0.7880	0.7906	0.8039	0.8052	0.7950	0.7858	0.7902	0.7881	0.7674	0.7795	0.7867	0.7888	0.7931	0.7911	0.7902	0.8147	0.8074	0.7922	0.8014	0.7922
082 LSS lipids	0.0868	0.0741	0.0833	0.0748	0.0796	0.0757	0.0924	0.0733	0.0847	0.0799	0.0778	0.0743	0.0880	0.0716	0.0772	0.0813	0.0752	0.0763	0.0811	0.0746	0.0736	0.0727	0.0751	0.0700	0.0763
083 LSS moisture	0.700	0.712	0.701	0.716	0.705	0.713	0.695	0.714	0.719	0.707	0.713	0.716	0.707	0.717	0.711	0.706	0.710	0.709	0.704	0.711	0.711	0.712	0.711	0.713	0.710
084 LSS ow ventilation	2.68	2.53	2.45	2.45	2.48	2.53	2.36	2.50	2.54	2.36	2.39	2.41	2.42	2.47	2.46	2.45	2.47	2.44	2.46	2.40	2.52	2.48	2.48	2.46	2.49
091 SMB Weight	0.0804	0.0807	0.0828	0.0676	0.0933	0.0923	0.0927	0.0935	0.0885	0.0868	0.0865	0.0912	0.0897	0.0831	0.0846	0.0755	0.0893	0.0916	0.0916	0.0957	0.0924	0.0828	0.0822	0.0978	0.0843
092 SMB lipids	0.0684	0.0545	0.0561	0.0532	0.0543	0.0499	0.0512	0.0507	0.0541	0.0551	0.0519	0.0528	0.0484	0.0529	0.0513	0.0575	0.0538	0.0526	0.0547	0.0560	0.0510	0.0513	0.0516	0.0548	0.0510
093 SMB moisture	0.716	0.710	0.706	0.711	0.710	0.712	0.716	0.714	0.710	0.710	0.709	0.717	0.711	0.713	0.710	0.704	0.708	0.716	0.708	0.707	0.711	0.714	0.714	0.711	0.710
111 NPM Weight	0.584	0.486	0.590	0.680	0.540	0.530	0.589	0.599	0.615	0.531	0.568	0.623	0.597	0.514	0.553	0.481	0.569	0.579	0.499	0.516	0.501	0.535	0.435	0.546	0.560
112 NPM lipids	0.065	0.050	0.051	0.070	0.043	0.052	0.060	0.063	0.051	0.045	0.063	0.047	0.041	0.057	0.065	0.048	0.047	0.064	0.055	0.053	0.055	0.051	0.046	0.060	0.036
113 NPM moisture	0.701	0.718	0.720	0.692	0.729	0.722	0.725	0.713	0.717	0.727	0.716	0.730	0.731	0.719	0.718	0.731	0.728	0.704	0.713	0.721	0.713	0.718	0.723	0.711	0.737
600 BIF-sed	0.63	0.59	0.78	0.74	0.71	0.64	0.63	0.78	0.68	0.70	0.69	0.66	0.66	0.72	0.71	0.65	0.62	0.71	0.69	0.75	0.72	0.54	0.77	0.78	0.59
610 BIC-sed	0.88	0.99	0.90	0.91	0.86	0.99	0.92	0.91	0.92	0.87	0.91	0.95	0.98	0.96	0.88	0.87	0.91	0.94	0.98	0.88	0.90	0.92	0.99	0.91	0.92
620 EIC-sed	0.02	0.02	0.01	0.01	0.02	0.02	0.03	0.03	0.00	0.02	0.03	0.03	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.01	0.02	0.00	0.04	0.00	0.01
621 EIC-PHY	0.14	0.14	0.12	0.10	0.09	0.19	0.17	0.13	0.08	0.10	0.06	0.16	0.13	0.03	0.01	0.15	0.15	0.06	0.15	0.12	0.08	0.14	0.16	0.05	0.09
622 EIC-ZOO	0.02	0.16	0.12	0.07	0.07	0.04	0.11	0.20	0.13	0.16	0.10	0.19	0.03	0.05	0.16	0.13	0.12	0.17	0.10	0.04	0.13	0.04	0.17	0.15	0.00
623 EIC-BIF	0.23	0.17	0.24	0.26	0.14	0.27	0.21	0.24	0.30	0.34	0.17	0.11	0.15	0.10	0.34	0.16	0.23	0.22	0.19	0.14	0.22	0.10	0.16	0.10	0.12
624 EIC-BIC	0.65	0.59	0.45	0.35	0.52	0.52	0.64	0.52	0.63	0.72	0.65	0.73	0.40	0.50	0.79	0.39	0.32	0.45	0.68	0.66	0.64	0.59	0.73	0.60	0.42
630 SCL-sed	0.05	0.04	0.03	0.00	0.03	0.04	0.04	0.03	0.03	0.04	0.02	0.04	0.00	0.02	0.00	0.01	0.01	0.02	0.04	0.03	0.02	0.00	0.04	0.02	0.00
632 SCL-ZOO	0.04	0.04	0.01	0.03	0.02	0.04	0.05	0.03	0.00	0.03	0.04	0.04	0.00	0.03	0.01	0.01	0.00	0.02	0.01	0.03	0.02	0.02	0.03	0.05	0.02
633 SCL-BIF	0.27	0.41	0.33	0.11	0.35	0.33	0.48	0.31	0.48	0.41	0.45	0.44	0.45	0.42	0.08	0.35	0.39	0.27	0.38	0.41	0.16	0.32	0.49	0.43	0.48
634 SCL-BIC	0.61	0.35	0.63	0.55	0.75	0.66	0.36	0.50	0.64	0.47	0.38	0.69	0.69	0.87	0.85	0.66	0.70	0.68	0.72	0.75	0.89	0.28	0.76	0.66	0.80
635 SCL-EIC	0.04	0.02	0.01	0.00	0.07	0.03	0.05	0.08	0.05	0.07	0.03	0.01	0.01	0.07	0.02	0.01	0.02	0.03	0.07	0.06	0.04	0.06	0.01	0.08	0.01
640 LSS-sed	0.06	0.02	0.13	0.04	0.12	0.12	0.10	0.14	0.10	0.13	0.08	0.11	0.13	0.07	0.13	0.09	0.01	0.05	0.07	0.10	0.14	0.06	0.13	0.03	0.03
641 LSS-PHY	0.19	0.12	0.12	0.26	0.08	0.29	0.24	0.14	0.05	0.33	0.25	0.14	0.59	0.17	0.36	0.33	0.15	0.22	0.36	0.36	0.34	0.58	0.15	0.53	0.14
642 LSS-ZOO	0.18	0.25	0.24	0.13	0.17	0.07	0.08	0.19	0.13	0.13	0.07	0.06	0.15	0.21	0.13	0.08	0.09	0.15	0.21	0.21	0.11	0.23	0.23	0.14	0.20
643 LSS-BIF	0.06	0.11	0.11	0.13	0.08	0.11	0.12	0.07	0.14	0.06	0.06	0.12	0.08	0.10	0.07	0.07	0.10	0.09	0.13	0.09	0.12	0.12	0.13	0.12	0.07
644 LSS-BIC	0.27	0.33	0.31	0.33	0.17	0.25	0.24	0.26	0.22	0.25	0.26	0.31	0.29	0.18	0.23	0.24	0.19	0.28	0.31	0.16	0.31	0.31	0.29	0.34	0.22
645 LSS-EIC	0.02	0.13	0.13	0.09	0.39	0.17	0.25	0.16	0.39	0.06	0.13	0.34	0.10	0.28	0.34	0.08	0.28	0.16	0.12	0.07	0.00	0.27	0.11	0.26	0.23
650 CAR-sed	0.05	0.07	0.03	0.05	0.09	0.09	0.08	0.04	0.04	0.04	0.05	0.05	0.08	0.07	0.09	0.08	0.02	0.08	0.06	0.00	0.05	0.05	0.01	0.07	0.03
651 CAR-PHY	0.30	0.13	0.35	0.37	0.55	0.52	0.59	0.33	0.31	0.45	0.31	0.38	0.32	0.51	0.39	0.40	0.33	0.37	0.49	0.57	0.48	0.45	0.35	0.32	0.44
652 CAR-BIF	0.12	0.09	0.05	0.10	0.08	0.14	0.08	0.14	0.13	0.09	0.07	0.06	0.15	0.07	0.14	0.14	0.08	0.07	0.14	0.08	0.13	0.09	0.05	0.10	0.15
654 CAR-BIC	0.42	0.40	0.47	0.52	0.39	0.45	0.43	0.48	0.52	0.42	0.31	0.25	0.47	0.32	0.38	0.51	0.34	0.46	0.48	0.40	0.53	0.55	0.41	0.44	0.54
660 SMB-sed	0.22	0.22	0.29	0.25	0.20	0.17	0.24	0.27	0.28	0.18	0.28	0.08	0.34	0.27	0.29	0.17	0.02	0.02	0.15	0.27	0.16	0.21	0.27	0.11	0.13
663 SMB-EIC	0.22	0.02	0.17	0.13	0.27	0.25	0.28	0.19	0.25	0.23	0.36	0.27	0.16	0.29	0.10	0.19	0.25	0.21	0.23	0.13	0.27	0.20	0.08	0.22	0.25
664 SMB-SCL	0.63	0.65	0.64	0.52	0.57	0.51	0.63	0.66	0.68	0.79	0.81	0.67	0.76	0.62	0.71	0.62	0.58	0.51	0.59	0.58	0.78	0.78	0.69	0.74	0.87
671 NPM-PHY	0.02	0.01	0.00	0.10	0.03	0.04	0.02	0.09	0.01	0.01	0.05	0.00	0.07	0.03	0.04	0.06	0.01	0.07	0.10	0.09	0.08	0.00	0.09	0.04	0.04
673 NPM-BIF	0.10	0.06	0.00	0.08	0.03	0.02	0.08	0.06	0.00	0.03	0.05	0.10	0.05	0.06	0.04	0.04	0.03	0.03	0.02	0.01	0.09	0.06	0.03	0.06	0.00
674 NPM-BIC	0.34	0.31	0.29	0.25	0.45	0.41	0.43	0.39	0.15	0.25	0.36	0.21	0.36	0.21	0.28	0.31	0.32	0.40	0.20	0.28	0.23	0.22	0.27	0.34	0.37
675 NPM-EIC	0.60	0.49	0.45	0.52	0.18	0.54	0.42	0.33	0.38	0.65	0.47	0.58	0.37	0.35	0.55	0.45	0.59	0.58	0.41	0.45	0.55	0.64	0.28	0.62	0.57
676 NPM-SCL	0.43	0.19	0.13	0.56	0.28	0.41	0.30	0.23	0.17	0.55	0.13	0.19	0.31	0.35	0.05	0.14	0.45	0.46	0.56	0.12	0.67	0.30	0.43	0.22	0.28

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