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Supplement of

Evaluating environmental drivers of spatial variability in free-living nematode assemblages along the Portuguese margin

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Supplementary material for [L Lins], [2016], [Evaluating environmental drivers of spatial variability in free-living nematode assemblages along the Portuguese margin]



Supplementary Figure 1: Partial-18S rDNA phylogeny of Nematoda: Chromadorea. The inferred relationships support a broad taxonomic representation of nematodes in samples from lower shelf and upper slope at the West-Iberian Margin and furthermore indicate neither geographic nor depth clustering between 'deep' and 'shallow' taxa at any level of the tree topology. Reconstruction of nematode 18S relationships was conducted using Maximum Likelihood. Bootstrap support values were generated using 1000 replicates and are presented as node support. The analyses were performed by means of Randomized Axelerated Maximum Likelihood (RAxML). Branch (line) width represents statistical support. Sequences retrieved from Genbank are represented by their Genbank Accession numbers. Orders and Families are annotated as branch labels.

Supplementary Table 1: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for sediment composition. Values in bold represent significant values.

PERMANOVA table of results

(2-factor design)

Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms
Depth	1	105.29	105.29	18.037	0.0001	3014
Site(Depth)	8	45.042	56.302	28.113	0.0001	9929
Res	22	4.406	0.20027			
Total	31	155				

PAIR-WISE TESTS

Term 'Site(Depth)'

Within level 'DEEP' of factor 'Depth'

Groups	t	Unique perms	P(MC)
D1, D2	14.453	35	0.1792
D1, D3	0.21922	35	0.9647
D1, D4	11.404	35	0.2958
D2, D3	28.189	35	0.0069
D2, D4	0.74526	35	0.5381
D3, D4	17.462	35	0.0761

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
S1, S4	52.363	10	0.003
S1, S7	14.786	10	0.0009
S1, S2	59.548	10	0.0019
S1, S614	54.457	10	0.0091
S1, S613	10.274	10	0.0004
S4, S7	15.104	10	0.0006
S4, S2	72.374	10	0.0012
S4, S614	7.09	10	0.0039

Supplementary material for [L Lins], [2016], [Evaluating environmental drivers of spatial variability in free-living nematode assemblages along the Portuguese margin]

S4, S613	12.505	10	0.0002
S7, S2	27.661	10	0.0538
S7, S614	41.579	3	0.0384
S7, S613	61.604	10	0.0052
S2, S614	10.659	10	0.3633
S2, S613	0.80935	10	0.4824
S614, S613	0.81016	10	0.4827

Supplementary Table 2: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for Total Organic Matter (%). Values in bold represent significant values.

PERMANOVA table of results
(2-factor design)

Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms
Depth	1	28.266	28.266	290.31	0.0001	3009
Site(Depth)	8	0.75128	9.39E - 01	13.912	0.2521	9951
Res	22	14.851	6.75E - 02			
Total	31	31				

PAIR-WISE TESTS

Within level 'DEEP' of factor 'Depth'

Groups	t	Unique perms	P(MC)
D1, D2	0.87706	35	0.4217
D1, D3	21.165	35	0.0754
D1, D4	15.794	35	0.1691
D2, D3	12.268	35	0.2658
D2, D4	0.4402	35	0.6675
D3, D4	0.94545	35	0.3833

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
S1, S4	11.198	10	0.0007
S1, S7	38.705	10	0.0266
S1, S2	11.958	10	0.2997
S1, S614	0.69613	10	0.5438
S1, S613	10.709	10	0.3382
S4, S7	12.439	10	0.0012
S4, S2	59.381	10	0.0036
S4, S614	36.069	10	0.0344
S4, S613	81.676	10	0.0014
S7, S2	12.966	10	0.2882

Supplementary material for [L Lins], [2016], [Evaluating environmental drivers of spatial variability in free-living nematode assemblages along the Portuguese margin]

S7, S614	0.7778	3	0.5241
S7, S613	21.078	10	0.1253
S2, S614	4.62E+02	10	0.966
S2, S613	0.2926	10	0.7816
S614, S613	0.13656	10	0.8993

Supplementary Table 3: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for Total Organic Carbon (%). Values in bold represent significant values.

PERMANOVA table of results
(2-factor design)

Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms
Depth	1	26.291	26.291	117.4	0.0001	2982
Site(Depth)	8	1.728	0.216	2.1723	0.069	9948
Res	22	2.1876	9.94E - 02			
Total	31	31				

PAIR-WISE TESTS

Term 'Site(Depth)'

Within level 'DEEP' of factor 'Depth'

Groups	t	Unique perms	P(MC)
D1, D2	6.24E - 02	35	0.9529
D1, D3	14.616	35	0.1873
D1, D4	16.115	35	0.1564
D2, D3	14.857	35	0.1758
D2, D4	16.355	35	0.1542
D3, D4	0.52802	35	0.6053

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
S1, S4	43.932	10	0.0122
S1, S7	4.85E - 02	10	0.9652
S1, S2	13.419	10	0.2483
S1, S614	2.617	10	0.0817
S1, S613	25.712	10	0.0576
S4, S7	21.765	10	0.1246
S4, S2	42.708	10	0.0146
S4, S614	20.996	10	0.1278
S4, S613	65.162	10	0.0028
S7, S2	0.85525	10	0.4525
S7, S614	0.97067	3	0.4335

Supplementary material for [L Lins], [2016], [Evaluating environmental drivers of spatial variability in free-living nematode assemblages along the Portuguese margin]

S7, S613	13.943	10	0.2571
S2, S614	25.694	10	0.0849
S2, S613	0.49958	10	0.6475
S614, S613	47.643	10	0.0182

Supplementary Table 4: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for Total Nitrogen (%). Values in bold represent significant values.

PERMANOVA table of results
(2-factor design)

Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms
Depth	1	24.328	24.328	68.19	0.0001	2975
Site(Depth)	8	27.534	0.34417	1.7061	0.1601	9942
Res	22	4.4381	0.20173			
Total	31	31				

PAIR-WISE TESTS

Term 'Site(Depth)'

Within level 'DEEP' of factor 'Depth'

Groups	t	Unique perms	P(MC)
D1, D2	0.23752	35	0.8175
D1, D3	25.534	35	0.0437
D1, D4	0.91472	35	0.3957
D2, D3	11.073	35	0.307
D2, D4	0.34137	35	0.7421
D3, D4	11.913	35	0.2883

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
S1, S4	69.773	10	0.0025
S1, S7	0.721	10	0.5261
S1, S2	0.64104	10	0.5611
S1, S614	0.31006	10	0.7793
S1, S613	2.198	10	0.0956
S4, S7	59.241	10	0.0086
S4, S2	29.036	10	0.0439
S4, S614	24.086	10	0.0967
S4, S613	1.21	10	0.3018
S7, S2	0.91122	10	0.432
S7, S614	0.53866	3	0.6416
S7, S613	20.931	10	0.127

Supplementary material for [L Lins], [2016], [Evaluating environmental drivers of spatial variability in free-living nematode assemblages along the Portuguese margin]

S2, S614	0.14015	10	0.8971
S2, S613	12.206	10	0.2886
S614, S613	10.775	10	0.3599

Supplementary Table 5: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for Chlorophyll a ($\mu\text{g/g}$). Values in bold represent significant values.

PERMANOVA table of results
(2-factor design)

Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms
Depth	1	13.669	13.669	1.149	0.3356	3010
Site(Depth)	8	93.176	11.647	12.613	0.2532	9929
Res	22	20.316	0.92343			
Total	31	31				

PAIR-WISE TESTS

Term 'Site(Depth)'

Within level 'DEEP' of factor 'Depth'

Groups	t	Unique perms	P(MC)
D1, D2	10.171	15	0.3488
D1, D3	0.51803	4	0.6242
D1, D4	0.1894	8	0.8539
D2, D3	14.632	8	0.1959
D2, D4	0.74632	15	0.4786
D3, D4	0.63864	4	0.5448

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
S1, S4	11.913	2	0.2975
S1, S7	51.545	4	0.014
S1, S2	1	1	0.3721
S1, S614	12.399	4	0.0009
S1, S613	36.177	4	0.0219
S4, S7	0.82471	10	0.4729
S4, S2	11.092	4	0.3256
S4, S614	0.77009	10	0.4918
S4, S613	0.74004	10	0.5107
S7, S2	0.45648	7	0.6853
S7, S614	1.801	3	0.2137
S7, S613	19.838	10	0.1435
S2, S614	11.506	7	0.3399
S2, S613	2.51	7	0.0636
S614, S613	15.554	10	0.2178

Supplementary Table 6: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for Carotenes ($\mu\text{g/g}$). Values in bold represent significant values.

PERMANOVA table of results

Supplementary material for [L Lins], [2016], [Evaluating environmental drivers of spatial variability in free-living nematode assemblages along the Portuguese margin]

(2-factor design)

Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms	P(MC)
Depth	1	80.288	80.288	33.462	0.0001	72	0.1063
Site(Depth)	8	17.986	22.482	99.215	0.0025	9931	
Res	22	49.853	0.2266				
Total	31	31					

PAIR-WISE TESTS

Within level 'DEEP' of factor 'Depth'

Groups	t
D1, D2	Denominator is 0
D1, D3	Denominator is 0
D1, D4	Denominator is 0
D2, D3	Denominator is 0
D2, D4	Denominator is 0
D3, D4	Denominator is 0

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
S1, S4	3.064	10	0.0366
S1, S7	82.415	7	0.0034
S1, S2	0.56826	10	0.6052
S1, S614	82.415	7	0.0031
S1, S613	15.569	10	0.1943
S4, S7	2.905	7	0.0644
S4, S2	27.014	10	0.0501
S4, S614	2.905	7	0.0624
S4, S613	24.855	10	0.0662
S7, S2	1.935	7	0.1469
S7, S614	Denominator is 0		
S7, S613	29.953	7	0.0568
S2, S614	1.935	7	0.1478
S2, S613	0.58587	10	0.5934
S614, S613	29.953	7	0.0579

Supplementary Table 7: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for Chloroplasic Pigment Equivalents (Chla + phaeopigments) in µg/g. Values in bold represent significant values.

PERMANOVA table of results

(2-factor design)

Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms
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Supplementary material for [L Lins], [2016], [Evaluating environmental drivers of spatial variability in free-living nematode assemblages along the Portuguese margin]

Depth	1	72.472	72.472	3,644	0.0011	2997
Site(Depth)	8	14.936	1.867	46,588	0.0044	9952
Res	22	88.166	0.40075			
Total	31	31				

PAIR-WISE TESTS

Term 'Site(Depth)'

Within level 'DEEP' of factor 'Depth'

Groups	t	Unique perms	P(MC)
D1, D2	10.171	15	0.3463
D1, D3	0.51803	4	0.6203
D1, D4	0.1894	8	0.8579
D2, D3	14.632	8	0.2005
D2, D4	0.74632	15	0.4802
D3, D4	0.63864	4	0.5548

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
S1, S4	2.271	10	0.0893
S1, S7	19.895	10	0.1383
S1, S2	0.72924	10	0.5012
S1, S614	18.669	10	0.1548
S1, S613	30.912	10	0.0344
S4, S7	19.487	10	0.149
S4, S2	17.777	10	0.1472
S4, S614	19.374	10	0.1456
S4, S613	0.79021	10	0.4686
S7, S2	0.98405	10	0.4022
S7, S614	1.801	3	0.2116
S7, S613	28.504	10	0.0623
S2, S614	0.95874	10	0.4094
S2, S613	17.076	10	0.1721
S614, S613	28.251	10	0.0688

Supplementary Table 8: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for Pielou's Evenness (J'). Values in bold represent significant values.

PERMANOVA table of results
(2-factor design)

Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms
Depth	1	1.7584	1.7584	0.88153	0.1758	1247
Site(Depth)	8	15.683	1.9604	2,188	0.0594	9944

Supplementary material for [L Lins], [2016], [Evaluating environmental drivers of spatial variability in free-living nematode assemblages along the Portuguese margin]

Res	25	22.399	0.89596		
Total	34	39.745			

PAIR-WISE TESTS

Term 'Site(Depth)'

Within level 'DEEP' of factor 'Depth'

Groups	t	Unique perms	P(MC)
D1, D2	19.931	35	0.0958
D1, D3	11.297	35	0.3015
D1, D4	11.256	35	0.3011
D2, D3	0.32117	35	0.7567
D2, D4	29.688	35	0.0243
D3, D4	1.803	35	0.1204

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
S1, S4	21.911	10	0.0943
S1, S7	20.528	35	0.0978
S1, S2	15.427	10	0.2033
S1, S614	21.028	10	0.1003
S1, S613	25.457	10	0.0622
S4, S7	0.55518	35	0.6002
S4, S2	0.59708	10	0.594
S4, S614	0.87619	10	0.4363
S4, S613	0.39437	10	0.7203
S7, S2	0.16946	35	0.8749
S7, S614	0.25975	35	0.8047
S7, S613	0.30146	35	0.7719
S2, S614	2.61E+02	10	0.9849
S2, S613	0.43361	10	0.6828
S614, S613	16.224	10	0.1798

Supplementary Table 9: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for Shanon-Wiener diversity (H'). Values in bold represent significant values.

PERMANOVA table of results
(2-factor design)

Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms
Depth	1	51.09	51.09	7.9858	0.0002	1256
Site(Depth)	8	49.471	6.1838	2.5175	0.0373	9950
Res	25	61.407	2.4563			
Total	34	166.19				

PAIR-WISE TESTS

Term 'Site(Depth)'

Within level 'DEEP' of factor 'Depth'

Groups	t	Unique perms	P(MC)
D1, D2	17.005	35	0.1381
D1, D3	13.561	35	0.2245
D1, D4	0.30917	35	0.7694
D2, D3	0.17259	35	0.866
D2, D4	13.559	35	0.2259
D3, D4	10.458	35	0.3463

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
S1, S4	15.485	10	0.196
S1, S7	29.366	35	0.0328
S1, S2	0.60365	10	0.581
S1, S614	34.028	10	0.0261
S1, S613	20.977	10	0.1072
S4, S7	0.83038	35	0.4459
S4, S2	12.653	10	0.2845
S4, S614	0.24289	10	0.8228
S4, S613	0.48703	10	0.657
S7, S2	26.766	35	0.0477
S7, S614	0.89408	35	0.4069
S7, S613	0.22099	35	0.8393
S2, S614	37.889	10	0.0211
S2, S613	18.584	10	0.141
S614, S613	0.4437	10	0.6826

Supplementary Table 10: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for Expected genera (EG(80)). Values in bold represent significant values.

PERMANOVA table of results
2-Factor design

Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms
Depth	1	94.88	94.88	91.429	0.0002	1256
Site(Depth)	8	80.234	10.029	24.215	0.0431	9941
Res	25	103.55	41.419			
Total	34	287.97				

PAIR-WISE TESTS

Term 'Site(Depth)'

Within level 'DEEP' of factor 'Depth'

Groups	t	Unique perms	P(MC)
D1, D2	14.246	35	0.2109
D1, D3	11.205	35	0.3101
D1, D4	0.48756	35	0.6461
D2, D3	0.24395	35	0.8191

Supplementary material for [L Lins], [2016], [Evaluating environmental drivers of spatial variability in free-living nematode assemblages along the Portuguese margin]

D2, D4	0.80301	35	0.4529
D3, D4	0.55524	35	0.6

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
St1, St4	10.783	10	0.3402
St1, St7	33.664	35	0.0202
St1, St2	0.1162	10	0.9148
St1, St614	40.957	10	0.0132
St1, St613	17.301	10	0.1543
St4, St7	12.852	35	0.2603
St4, St2	11.654	10	0.3065
St4, St614	0.31719	10	0.7634
St4, St613	0.50139	10	0.6393
St7, St2	36.149	35	0.0141
St7, St614	15.434	35	0.1759
St7, St613	0.62355	35	0.5594
St2, St614	71.147	10	0.0018
St2, St613	18.401	10	0.139
St614, St613	0.38887	10	0.7209

Supplementary Table 11: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for nematode community composition. Values in bold represent significant values.

PERMANOVA table of results
(2-factor design)

Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms
Depth	1	13517	13517	6.7478	0.0001	1259
Site(Depth)	8	15514	1939.2	1.5908	0.0002	9745
Res	25	30475	1219			
Total	34	59461				

PAIR-WISE TESTS

Term 'Site(Depth)'

Within level 'DEEP' of factor 'Depth'

Groups	t	Unique perms	P(MC)
D1, D2	0.76301	35	0.6748
D1, D3	0.9061	35	0.5955
D1, D4	0.84413	35	0.5596
D2, D3	10.155	35	0.5461
D2, D4	0.86606	35	0.6436
D3, D4	0.88881	35	0.5671

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
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S1, S4	1.248	10	0.1862
S1, S7	19.035	35	0.0271
S1, S2	12.887	10	0.163
S1, S614	15.582	10	0.0634
S1, S613	11.945	10	0.2147
S4, S7	16.065	35	0.0475
S4, S2	12.669	10	0.1312
S4, S614	15.113	10	0.0645
S4, S613	12.013	10	0.1635
S7, S2	1.67	35	0.0263
S7, S614	12.541	35	0.1685
S7, S613	16.441	35	0.0321
S2, S614	14.735	10	0.0795
S2, S613	0.77248	10	0.5591
S614, S613	12.894	10	0.1084

Supplementary Table 12: Table of results from the multivariate PERMANOVA two-way nested design test and pairwise t-tests for nematode trophic composition. Values in bold represent significant values.

PERMANOVA table of results (2-factor design)						
Source	df	SS	MS	Pseudo-F	P(perm)	Unique perms
Depth	1	1974.6	1974.6	14,297	0.0001	1257
Site(Depth)	8	1068.2	133.53	1.2756	0.252	9929
Res	25	2617	104.68			
Total	34	5606				

PAIR-WISE TESTS

Term 'Site(Depth)'

Within level 'DEEP' of factor 'Depth'

Groups	t	Unique perms	P(MC)
D1, D2	0.51763	35	0.7986
D1, D3	0.37384	35	0.8148
D1, D4	0.71546	35	0.6113
D2, D3	0.38009	35	0.8575
D2, D4	0.51489	35	0.7931
D3, D4	0.38968	35	0.8603

Within level 'SHALLOW' of factor 'Depth'

Groups	t	Unique perms	P(MC)
S1, S4	0.58178	10	0.6978
S1, S7	10.792	35	0.3488
S1, S2	10.727	10	0.3562
S1, S614	0.88803	10	0.4812
S1, S613	0.88786	10	0.4752
S4, S7	0.97944	35	0.4185
S4, S2	22.706	10	0.0502
S4, S614	0.5012	10	0.7587

Supplementary material for [L Lins], [2016], [Evaluating environmental drivers of spatial variability in free-living nematode assemblages along the Portuguese margin]

S4, S613	19.218	10	0.1004
S7, S2	20.569	35	0.0378
S7, S614	0.44003	35	0.8302
S7, S613	15.491	35	0.1273
S2, S614	23.118	10	0.0606
S2, S613	0.83393	10	0.5432
S614, S613	20.307	10	0.1041

Supplementary Table 13: Spearman correlations between the nematode univariate variables Shannon-Wiener diversity (H'), Pielou's Evenness (J'), Expected genera (EG (80)) and Trophic Diversity (TD) with sediment environmental variables. %TN= Total Nitrogen (%), %TOC=Total Organic Carbon (%), Chla= Chlorophyll a, Carotenes, CPE= Chloroplastic Pigment Equivalents, Silt-Clay, Very Fine Sand, Fine Sand, Medium Sand, Coarse Sand and SED=Sediment Diversity.

	%TN	%TOC	Chla	Carotenes	CPE	Silt-Clay	Very Fine Sand	Fine Sand	Medium Sand	Coarse Sand	SED
H'	-0.38	-0.44	0.26	0.32	0.32	-0.46	0.43	0.41	0.42	0.3	0.51
J	0.26	0.12	-0.11	-0.09	-0.28	0.19	-0.22	-0.26	-0.2	0.04	-0.17
EG (80)	-0.43	-0.46	0.25	0.31	0.36	-0.47	0.45	0.45	0.44	0.28	0.52
TD	-0.4	-0.28	0.37	0.3	0.39	-0.37	0.48	0.41	0.34	0.05	0.4

Supplementary Table 14: Sequenced nematode genera by ID (Identification number), taxonomic position, location and GenBank Accession numbers.

Field ID	Order	Family	Genus	Latitude	Longitude	Depth (m)	GenBank Accession numbers
77L10H15	Plectida	Camacolaimidae	<i>Camacolaimus</i>	37°49'661'N	09°28'042'W	1006	LT601429
52L27G15	Plectida	Camacolaimidae	<i>Camacolaimus</i>	37°49'661'N	09°28'042'W	1006	LT601430
97L22D15	Araeolaimida	Diplopeltidae	<i>Campylaimus</i>	37°58.904'N	09°07.525'W	335	LT601431
81L18E15	Monhysterida	Xyalidae	<i>Capsula</i>	37°58.904'N	09°07.525'W	335	LT601432
42L29D15	Plectida	Ceramonematidae	<i>Ceramonema</i>	37°58.904'N	09°07.525'W	335	LT601433
50L26C15	Plectida	Ceramonematidae	<i>Ceramonema</i>	37°51.171'N	09°06.944'W	325	LT601434
15L17C15	Araeolaimida	Comesomatidae	<i>Cervonema</i>	37°51.171'N	09°06.944'W	325	LT601435
25L20C15	Araeolaimida	Comesomatidae	<i>Cervonema</i>	37°51.171'N	09°06.944'W	325	LT601436
28L20C15	Araeolaimida	Comesomatidae	<i>Cervonema</i>	37°51.171'N	09°06.944'W	325	LT601437
20L27D15	Monhysterida	Xyalidae	<i>Daptonema</i>	37°58.904'N	09°07.525'W	335	LT601438
55L26C15	Monhysterida	Xyalidae	<i>Daptonema</i>	37°51.171'N	09°06.944'W	325	LT601439
48L27G15	Desmodorida	Desmodoridae	<i>Desmodora</i>	37°49'661'N	09°28'042'W	1006	LT601440
56L28G15	Desmodorida	Desmodoridae	<i>Desmodora</i>	37°49'661'N	09°28'042'W	1006	LT601441
76L10H15	Desmodorida	Desmodoridae	<i>Desmodora</i>	37°49'661'N	09°28'042'W	1006	LT601442
42L27G15	Desmodorida	Desmodoridae	<i>Desmodora</i>	37°49'661'N	09°28'042'W	1006	LT601443
41L29D15	Desmodorida	Desmodoridae	<i>Desmodorella</i>	37°58.904'N	09°07.525'W	335	LT601444
46L29D15	Desmodorida	Desmodoridae	<i>Desmodorella</i>	37°58.904'N	09°07.525'W	335	LT601445
54L27G15	Desmoscolecida	Desmoscolecidae	<i>Desmoscolex</i>	37°49'661'N	09°28'042'W	1006	LT601446
84L10H15	Desmoscolecida	Desmoscolecidae	<i>Desmoscolex</i>	37°49'661'N	09°28'042'W	1006	LT601447
62L28G15	Desmoscolecida	Desmoscolecidae	<i>Desmoscolex</i>	37°49'661'N	09°28'042'W	1006	LT601448
93L19E15	Chromadorida	Chromadoridae	<i>Dichromadora</i>	37°58.904'N	09°07.525'W	335	LT601449
93L31C15	Plectida	Diplopeltoididae	<i>Diplopeltoides</i>	37°51.171'N	09°06.944'W	325	LT601450
90L11H15	Chromadorida	Selachinematidae	<i>Gammanema</i>	37°49'661'N	09°28'042'W	1006	LT601451
3L22D15	Chromadorida	Selachinematidae	<i>Gammanema</i>	37°58.904'N	09°07.525'W	335	LT601452
51L04E15	Chromadorida	Selachinematidae	<i>Gammanema</i>	37°58.904'N	09°07.525'W	335	LT601453

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5L16C15	Chromadorida	Selachinematidae	<i>Gammanema</i>	37°51.171'N	09°06.944'W	325	LT601454
65L05E15	Chromadorida	Selachinematidae	<i>Gammanema</i>	37°58.904'N	09°07.525'W	335	LT601455
9L17C15	Desmoscolecida	Desmoscolecidae	<i>Greeffella</i>	37°51.171'N	09°06.944'W	325	LT601456
89L30C15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°51.171'N	09°06.944'W	325	LT601457
19L14G15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°49'661'N	09°28'042'W	1006	LT601458
60L28G15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°49'661'N	09°28'042'W	1006	LT601459
51L26C15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°51.171'N	09°06.944'W	325	LT601460
88L18E15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°58.904'N	09°07.525'W	335	LT601461
87L18E15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°58.904'N	09°07.525'W	335	LT601462
66L05E15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°58.904'N	09°07.525'W	335	LT601463
100L11H15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°49'661'N	09°28'042'W	1006	LT601464
64L28G15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°49'661'N	09°28'042'W	1006	LT601465
50L27G15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°49'661'N	09°28'042'W	1006	LT601466
99L19E15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°58.904'N	09°07.525'W	335	LT601467
77L30C15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°51.171'N	09°06.944'W	325	LT601468
65L07H15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°49'661'N	09°28'042'W	1006	LT601469
40L15G15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°49'661'N	09°28'042'W	1006	LT601470
39L15G15	Enoplida	Oxystominidae	<i>Halalaimus</i>	37°49'661'N	09°28'042'W	1006	LT601471
78L30C15	Chromadorida	Selachinematidae	<i>Halichoanolaimus</i>	37°51.171'N	09°06.944'W	325	LT601472
7L13G15	Enoplida	Enchelidiidae	<i>Ledovitia</i>	37°49'661'N	09°28'042'W	1006	LT601473
64L27C15	Plectida	Leptolaimidae	<i>Leptolaimus</i>	37°51.171'N	09°06.944'W	325	LT601474
45L25C15	Plectida	Leptolaimidae	<i>Leptolaimus</i>	37°51.171'N	09°06.944'W	325	LT601475
13L27D15	Plectida	Leptolaimidae	<i>Leptolaimus</i>	37°58.904'N	09°07.525'W	335	LT601476
2L13G15	Plectida	Leptolaimidae	<i>Leptolaimus</i>	37°49'661'N	09°28'042'W	1006	LT601477
53L04E15	Plectida	Leptolaimidae	<i>Leptolaimus</i>	37°58.904'N	09°07.525'W	335	LT601478
2L22D15	Plectida	Leptolaimidae	<i>Leptolaimus</i>	37°58.904'N	09°07.525'W	335	LT601479
63L28G15	Plectida	Leptolaimidae	<i>Leptolaimus</i>	37°49'661'N	09°28'042'W	1006	LT601480
24L18C15	Enoplida	Thoracostomopsidae	<i>Mesacanthion</i>	37°51.171'N	09°06.944'W	325	LT601481
90L31C15	Chromadorida	Cyatholaimidae	<i>Metacyatholaimus</i>	37°51.171'N	09°06.944'W	325	LT601482
14L17C15	Monhysterida	Linhomoeidae	<i>Metalinhomoeus</i>	37°51.171'N	09°06.944'W	325	LT601483
10L17C15	Monhysterida	Linhomoeidae	<i>Metalinhomoeus</i>	37°51.171'N	09°06.944'W	325	LT601484
12L13G15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°49'661'N	09°28'042'W	1006	LT601485
50L29D15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°58.904'N	09°07.525'W	335	LT601486
56L04E15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°58.904'N	09°07.525'W	335	LT601487
83L18E15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°58.904'N	09°07.525'W	335	LT601488
86L18E15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°58.904'N	09°07.525'W	335	LT601489
80L18E15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°58.904'N	09°07.525'W	335	LT601490
63L05E15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°58.904'N	09°07.525'W	335	LT601491
49L29D15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°58.904'N	09°07.525'W	335	LT601492
4L22D15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°58.904'N	09°07.525'W	335	LT601493
79L30C15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°51.171'N	09°06.944'W	325	LT601494
43L25C15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°51.171'N	09°06.944'W	325	LT601495
46L25C15	Desmodorida	Microlaimidae	<i>Microlaimus</i>	37°51.171'N	09°06.944'W	325	LT601496
1L13G115	Desmoscolecida	Meyliidae	<i>Paratricoma</i>	37°49'661'N	09°28'042'W	1006	LT601497
33L28D15	Plectida	Camacolaimidae	<i>Procamolaimus</i>	37°58.904'N	09°07.525'W	335	LT601498
92L31C15	Plectida	Camacolaimidae	<i>Procamolaimus</i>	37°51.171'N	09°06.944'W	325	LT601499

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21L27D15	Plectida	Camacolaimidae	<i>Procamacolaimus</i>	37°58.904'N	09°07.525'W	335	LT601500
47L29D15	Plectida	Camacolaimidae	<i>Procamacolaimus</i>	37°58.904'N	09°07.525'W	335	LT601501
52L04E15	Plectida	Ceramonematidae	<i>Pselionema</i>	37°58.904'N	09°07.525'W	335	LT601502
44L27G15	Plectida	Ceramonematidae	<i>Pselionema</i>	37°49'661'N	09°28'042'W	1006	LT601503
38L15G15	Plectida	Ceramonematidae	<i>Pselionema</i>	37°49'661'N	09°28'042'W	1006	LT601504
14L13G15	Chromadorida	Selachinematidae	<i>Richtersia</i>	37°49'661'N	09°28'042'W	1006	LT601505
2L16C15	Chromadorida	Selachinematidae	<i>Richtersia</i>	37°51.171'N	09°06.944'W	325	LT601506
23L18C15	Chromadorida	Selachinematidae	<i>Richtersia</i>	37°51.171'N	09°06.944'W	325	LT601507
72L27C15	Chromadorida	Selachinematidae	<i>Richtersia</i>	37°51.171'N	09°06.944'W	325	LT601508
26L14G15	Chromadorida	Selachinematidae	<i>Richtersia</i>	37°49'661'N	09°28'042'W	1006	LT601509
22L14G15	Plectida	Haliplectidae	<i>Setoplectus</i>	37°49'661'N	09°28'042'W	1006	LT601510
86L30C15	Araeolaimida	Comesomatidae	<i>Setosabatieria</i>	37°51.171'N	09°06.944'W	325	LT601511
70L27C15	Araeolaimida	Diplopeltidae	<i>Southerniella</i>	37°51.171'N	09°06.944'W	325	LT601512
9L22D15	Araeolaimida	Diplopeltidae	<i>Southerniella</i>	37°58.904'N	09°07.525'W	335	LT601513
17L13G15	Enoplida	Ironidae	<i>Syringolaimus</i>	37°49'661'N	09°28'042'W	1006	LT601514
60L04E15	Enoplida	Ironidae	<i>Syringolaimus</i>	37°58.904'N	09°07.525'W	335	LT601515
6L16C15	Desmoscolecida	Desmoscolecidae	<i>Tricoma</i>	37°51.171'N	09°06.944'W	325	LT601516
43L29D15	Desmoscolecida	Desmoscolecidae	<i>Tricoma</i>	37°58.904'N	09°07.525'W	335	LT601517
41L27G15	Desmoscolecida	Desmoscolecidae	<i>Tricoma</i>	37°49'661'N	09°28'042'W	1006	LT601518
70L05E15	Desmoscolecida	Desmoscolecidae	<i>Tricoma</i>	37°58.904'N	09°07.525'W	335	LT601519
11L27D15	Enoplida	Oncholaimidae	<i>Viscosia</i>	37°58.904'N	09°07.525'W	335	LT601520
96L31C15	Enoplida	Oncholaimidae	<i>Viscosia</i>	37°51.171'N	09°06.944'W	325	LT601521
72L05E15	Enoplida	Oncholaimidae	<i>Viscosia</i>	37°58.904'N	09°07.525'W	335	LT601522
29L28D15	Enoplida	Oncholaimidae	<i>Viscosia</i>	37°58.904'N	09°07.525'W	335	LT601523
64L05E15	Enoplida	Oncholaimidae	<i>Viscosia</i>	37°58.904'N	09°07.525'W	335	LT601524
32L15G15	Enoplida	Oxystominidae	<i>Wieseria</i>	37°49'661'N	09°28'042'W	1006	LT601525
8L17C15	Monhysterida	Xyalidae	not defined	37°51.171'N	09°06.944'W	325	LT601526