

**Supplementary table 1.** Sample source or flora around which soil and litter were collected at different elevations and eco-habitats in Mount Hamiguitan, Mindanao, the Philippines.

No.	Flora	Eco-habitat	Elevation (m.a.s.l.)	Coordinates
1	Tanguile ( <i>Shorea polysperma</i> (Blanco) Merr.)	Dipterocarp	485	N06°43.577, E126°09.036
2	Tanguile ( <i>Shorea polysperma</i> (Blanco) Merr.)	Dipterocarp	523	N06°43.545, E126°09.025
3	Hambaloawod	Dipterocarp	529	N06°43.533, E126°09.017
4	Yakal ( <i>Shorea astylosa</i> Foxw.)	Dipterocarp	532	N06°43.377, E126°09.409
5	Small bush/ Montane	Dipterocarp	532	N06°43.377, E126°09.409
6	Small bush/ Montane	Edge Dipterocarp	730	N06°43.457, E126°09.609
9	Cedar	Montane	948	N06°43.858, E126°10°079
11	Ulayan ( <i>Lithocarpus llanosii</i> (A. DC.) Rehder)	Montane	950	N06°43.863, E126°10.088
12	Sagimsim ( <i>Syzygium brevistylum</i> (C.B. Rob). Merr.)	Montane	952	N06°43.870, E126°10.134
14	Tree fern ( <i>Cyathea</i> sp. J.E. Smith)	Montane	972	N06°43.939, E126°10.066
15	Bitanghol ( <i>Calophyllum blancoi</i> Planchon)	Montane	972	N06°43.939, E126°10.066
16	Tanguile ( <i>Shorea polysperma</i> (Blanco) Merr.)	Upper Montane	993	N06°43.978, E126°10.060
17	Lumbay ( <i>Metroxylon sivestre</i> Mart.)	Upper Montane	999	N06°43.978 E126°10.040
18	Mango ( <i>Mangifera indica</i> L.)	Upper Montane	997	N06°43.984 E126°10.074
19	Bayog ( <i>Pterospermum diversifolium</i> Blume)	Upper Montane	979	N06°43.958, E126°10.091
20	Dead tree	Upper Montane	1008	N06°43.972, E126°10.077
21	Pygmy tree	Mossy/Pygmy	1220	N06°44.172, E126°10.377
22	Grass and bush	Pygmy	1600	N06°44.373, E126°10.941
23	Pitcher plant ( <i>Nepenthes peltata</i> Sh. Kurata)	Typical mossy	1423	N06°44.345, E126°10.950
25	Mossy forest	Typical mossy	1435	N06°43.972, E126°11.186
27	Mango ( <i>Mangifera indica</i> L.)	Agro-forestry	253	N06°42.536, E126°07.708
28	Jackfruit ( <i>Artocarpus heterophyllus</i> Lam.)	Agro-ecosystem	106	N06°42.934, E126°07.444

m.a.s.l.= meters above sea level

**Supplementary table 2.** List and number of nematode taxa recovered from soil samples with corresponding trophic group and c-p value<sup>1</sup>. Mount Hamiguitan, Mindanao, the Philippines.

Taxon	No. spp.	Trophic gp.	Ecohabitat	Sample No. <sup>2</sup>
<b>Order:</b>				
<b>Enoplida</b>				
Family: Alaimidae				
<i>Alaimus</i>	12	1	DP,MT,MP	3,5,11,12,14, 1,21
<i>Amphidelus</i>	3	1	MT,AG	12,16,27
<i>Etamphidelus</i>	2	1	MT	11,19
<i>Paramphidelus</i>	7	1	MT,MP	12,25
Family: Rhabdolaimidae				
<i>Rhabdolaimus</i>	3	1	DP,MT	6,19
Family: Ironidae				
<i>Ironus</i>	15	5	MT, MP	14,20,25
<b>Order:</b>				
<b>Triplonchida</b>				
Family: Pristomatolaimidae				
<i>Pristomatolaimus</i>	1	1	MT	16
<b>Order:</b>				
<b>Dorylaimida</b>				
Family: Aulolaimidae				
<i>Aulolaimus</i>	5	1	MT	17
Unidentified Genera	19	1	MT, MP	9,12,17,18,19 5
Family: Belondiridae				
<i>Axonchium</i>	14	4	DP,MT,MP	4,17,18,25
<i>Belondiria</i>	4	4	AG	28
<i>Dorylaimellus</i>	1	4	MT	20
Unidentified Genera	5	4	DP,AG	4,27,28
Family: Qusianematidae				
<i>Crassolabium</i>	2	5	MT	12
<i>Eudorylaimus</i>	8	5	DP,MT,MP,A	5,12,25,27,28
Unidentified Genera	14	5	DP,MT,MP,A	1,2,4,5,6,12,1 25,28
Family: Dorylaimidae				
<i>Dorylaimus</i>	8	4	DP,MT,MP	2,12,16,21
<i>Mesodorylaimus</i>	3	4	DP,MP	4,25
<i>Prodorylaimus</i>	3	4	MT,MP	16,22
Unidentified Genera	62	4	DP,MT,MP,A	4,6,12,16,17, 1,19,20,23,25,2

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Family: Leptochidae				
<i>Leptonchus</i>	1	2	MP	22
Unidentified Genera	4	2	DP,MT,MP	5,18,19,25
Family: Mylonchulidae				
<i>Mylonchulus</i>	7	5	DP,MP,AG	1,6,22,28
Family: Nordiidae				
<i>Oriverutus</i>	3	3	DP, MT	6,16
<i>Pungentus</i>	2	3	MT,AG	12,28
Unidentified Genera	3	3	MT,MP	16,20,25
Family: Mydonomidae				
<i>Timmus</i>	1	4	DP	4
Unidentified Genera	3	4	DP,MT	4,17
Family: Tylencholaimellid				
<i>Tylencholaimellus</i>	3	2	MP	23
Unidentified Genera	1	2	MP	23
Family: Tylencholaimidae				
<i>Tylencholaimus</i>	24	2	DP,MT,MP,A	2,4,11,16,19, 1,25,27,28
Unidentified Genera	38	2	DP,MT,MP,A	2,3,4,5,6,9,11 2,14,17,19,21, 1,28
Family: Actinolaimidae				
Unidentified Genera	1	5	MT	18
Family: Aporcelaimidae				
Unidentified Genera	6	5	DP,MT,AG	6,12,17,28
Family: Longidoridae				
Unidentified Genera	4	3	DP,MP,AG	5,21,28
<b>Order:</b>				
<b>Mononchida</b>				
Family: Mononchidae				
<i>Clarkus</i>	4	5	DP,MT	2,6,16
Family: Cobbonchidae				
<i>Cobbonchus</i>	1	5	MT	14
Family: Mononchulidae				
<i>Mononchulus</i>	1	5	AG	28
Family: Iotonchidae				
<i>Iotonchus</i>	5	5	MT,AG	12,16,27
<b>Order:</b>				
<b>Desmodorida</b>				
Family: Desmodoridae				
<i>Prodesmodora</i>	3	1	MP	23
<b>Order:</b>				
<b>Mohysterida</b>				

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Family: Monhysteridae				
<i>Geomonhystera</i>	1	1	DP	2
<b>Order:</b>				
<b>Areolaimida</b>				
Family: Diplopeltidae				
<i>Cylindrolaimus</i>	2	1	DP,MT	4,16
<b>Order:</b>				
<b>Plectida</b>				
Family: Plectidae				
<i>Haliplectus</i>	2	1	MT	14
<i>Plectus</i>	10	1	DP,MT,AG	3,6,17,27,28
Family: Leptolaimidae				
<i>Aphanolaimus</i>	8	1	MT,MP,AG	11,12,20,25,2
<i>Chronogaster</i>	12	1	DP,MT,MP	4,14,25
<b>Order:</b>				
<b>Rhabditida</b>				
Family:				
Aphelenchoididae				
<i>Aphelenchoides</i>	17	2	DP,AG	2,3,27,28
Family: Aphelenchidae				
<i>Aphelenchus</i>	3	2	DP,AG	6,28
<i>Seinura</i>	2	5	MT	11,14
Family: Tylenchidae				
<i>Basiria</i>	1	3	AG	28
<i>Filenchus</i>	1	3	MT	14
<i>Malenchus</i>	3	3	DP	2
<i>Tylenchulus</i>	1	3	MT	14
<i>Tylenchus</i>	1	3	MP	23
Family: Rhabditidae				
<i>Buetschlinema</i>	1	1	MT	12
<i>Crustorhabditis</i>	1	1	MT	12
<i>Mesorhabditis</i>	7	1	DP,MT	2,17
<i>Protorhabditis</i>	3	1	MT	16,20
<i>Rhabditis</i>	1	1	MP	21
<i>Oscheius</i>	1	1	MT	11
Family: Cephalobidae				
<i>Cephalobus</i>	9	1	MP,AG	25,27,28
<i>Acrobeloides</i>	29	1	DP,MT,AG	2,6,9,11,16,1 18,19,27
<i>Eucephalobus</i>	1	1	AG	27
<i>Pseudoacrobeles</i>	13	2	DP,MT,MP,A	1,2,16,19,23, ,
<i>Teratolobus</i>	2	1	DP,AG	2,28

<i>Zeldia</i>	1	1	AG	28
Family: Bicirronematidae				
<i>Tricirronema</i>	7,	1	MT,MP	12,14,22
Family: Diplogasteridae				
<i>Diplogaster</i>	2	1	DP	2,3
<i>Diplogasteritus</i>	2	1	DP	4
Family: Panagrolaimidae				
<i>Halicephalobus</i>	2	1	AG	28
<i>Panagrellus</i>	1	1	MT	20
<i>Panagrolaimus</i>	3	1	DP,AG	3,28
Family: Pratylenchidae				
<i>Pratylenchus</i>	3	3	DP,MP	3,25
Family: Hoplolaimidae				
<i>Rotylenchus</i>	2	3	DP,MP	21,25

<sup>1</sup>Trophic groups are assigned as: 1 = bacterivorous, 2 = fungivorous, 3 = plant parasitic, 4 = omnivorous, 5 = predatory, Ecohabitat assigned as: DP = Dipterocarp, MT = Montane, MP = Mossy/Pygmy, AG = Agro-ecosystem.

<sup>2</sup> Six of the samples were lost in transit; total samples=22

**Supplementary table 3.** List and number of nematode taxa recovered from litter samples with corresponding trophic group and c-p value<sup>1</sup>. Mount Hamiguitan, Mindanao, the Philippines.

Taxon	No. spp	Trophic gp.	Ecohabitat	Sample No.
<b>Order:</b>				
<b>Enoplida</b>				
Family: Alaimidae				
<i>Alaimus</i>	11	1	DP,MT	4,11,15,17
<i>Cosalaimus</i>	1	1	MT	17
<i>Etamphidelus</i>	2	1	MT	9,17
<b>Order:</b>				
<b>Triplonchida</b>				
Family:Prismatolaimidae				
<i>Prismatolaimus</i>	1	1	MT	15
<b>Order:</b>				
<b>Dorylaimida</b>				
Family: Nordiidae				
<i>Pungentus</i>	1	3	MT	9
Genus Unidentified	2	3	DP,MT	6,17
Family:Dorylaimidae				
<i>Dorylaimus</i>	2	4	DP,MT	4,9
Genus Unidentified	5	4	MT	9,11
Family:Aporcelaimidae				
<i>Makatinus</i>	1	5	MT	17
Genus Unidentified	4	5	DP,MT	6,9,11
Family:Actinolaimidae				
Genus Unidentified	2	5	DP	6
Family:Belonidiridae				
Genus Unidentified	1	4	MT	17
Family:Qusianematidae				
Genus Unidentified	1	5	MT	17
Family: Tylencholaimidae				
Genus Unidentified	32	2	DP,MT,AG	4,6,9,11,15,17,27
<b>Order:</b>				
<b>Mononchida</b>				
Family: Iotonchidae				
<i>Iotonchus</i>	3	5	DP,MT	6,11
<b>Order:</b>				
<b>Plectida</b>				
Family: Plectidae				
<i>Anaplectus</i>	1	1	MT	17
<i>Plectus</i>	6	1	DP,MT	4,6,9,15,17
Family:Leptolaimidae				

<i>Aphanolaimus</i>	1	1	MT	11
<i>Chronogaster</i>	1	1	MT	9
<b>Order:</b>				
<b>Rhabditida</b>				
Family:Cephalobidae				
<i>Acrobeloides</i>	6	1	DP,MT,AG	6,9,27
<i>Cephalobus</i>	3	1	DP,MT	4,9,15
<i>Pseudoacrobeles</i>	2	2	DP,MT	6,9
<i>Heterocephalobellus</i>	2	1	MT	9
<i>Teratolobus</i>	4	1	MT	9,11,15
Family:Aphelenchoididae				
<i>Aphelenchoides</i>	25	2	DP,MT,AG	6,9,15,17,27
Family:Aphelenchidae				
<i>Aphelenchus</i>	4	2	DP,MT	4,9,15
Family:Bicirronematidae				
<i>Bicirronema</i>	3	1	MT	9,11,17
<i>Tricirronema</i>	7	1	DP,MT	4,15,17
Family: Osstellidae				
<i>Deficephalobus</i>	1	1	MT	9
Family:Rhabditidae				
<i>Diploscapter</i>	1	1	MT	9
<i>Poikilolaimus</i>	1	1	MT	17
<i>Psilenchus</i>	2	3	DP	6
<i>Rhabditis</i>	3	1	MT	11,15
Family:Myolaimidae				
<i>Myolaimus</i>	1	1	MT	17
Family:				
Panagrolaimidae				
<i>Panagrellus</i>	1	1	MT	9
<i>Panagrolaimus</i>	7	1	DP,MT	6,11,15,17
Family:Hoplolaimidae				
<i>Rotylenchus</i>	1	3	MT	9
Family: Tylenchidae				
<i>Tylenchus</i>	1	3	MT	9

<sup>1</sup>Trophic groups are assigned as: 1 = bacterivorous, 2 = fungivorous, 3 = plant parasitic, 4 = omnivorous, 5 = predatory, Ecohabitat assigned as: DP = Dipterocarp, MT = Montane, MP = Mossy/Pygmy, AG = Agro-ecosystem.