

THIS IS S TEXT FILE CONTAINING THE DATA ON LEP DRY WEIGHT AND MEASURES BY
E GARCIA-BARROS. IT IS NEXUS FORMATTED. TO USE AS *.NEX JUST DELETE THESE
FIRST LINES UNTIL '*****' INCLUDED, THEN SAVE WITH THE FILE EXTENSION
*.nex, OR CHANGE THE EXTENSION FROM *.txt to *.nex AFTER SAVING.
ALTERNATIVELY YOU MAY WANT TO USE THE DATA BLOCK FROM THE MATRIX BELOW,
THEN COPY AND PASTE INTO YOUR SPREADSHEET. COLUMNS ARE SEPARATED BY
BLANKS. THE DATA ARE IN mm, LOG10-TRANSFORMED.

#NEXUS

[written Sat Nov 15 21:34:55 CET 2014 by Mesquite version 2.75 (build
564) at Enriique-PC/127.0.0.1]

BEGIN TAXA;

TITLE LEP_Taxa;

DIMENSIONS NTAX=375;

TAXLABELS

Micropteryx_aureatella Eriocrania_sp Abantiades_hyalinatus
Abantiades_magnifica Korscheltellus_lupulinus Triodia_sylvina
Stigmella_spA Stigmella_spB Stigmella_spD Stigmella_spC Ectoedemia_sp
Trifurcula_sp Pseudopostega_sp Adela_spA Adela_spB Cauchas_spA
Cauchas_spB Coptotryche_sp Oreopsyche_sp Ptilocephala_sp
Apterona_hecocoidella Dissoctena_granigerella Infurcitinea_albicomella
Nemapogon_sp Ateliotum_sp Crassicornella_agenjoi Tineola_bisselliella
Phyllonorycter_spA Phyllonorycter_spB Phyllonorycter_spC Prays_oleae
Distagmos_ledereri Leucoptera_sp Phyllobrostis_sp Yponomeuta_malinellus
Yponomeuta_padella Yponomeuta_gigas Plutella_xylostella Oegoconia_sp
Stibaromacha_ratella Symmocoides_oxibiella Eurodachtha_sp Batia_sp
Minetia_sp Pleurota_spA Pleurota_spB Pleurota_spC Pleurotini_indet
Elachistidae_indet Agonopteryx_sp Exaeretia_lutosella Ethmia_bipunctella
Ethmia_fumidella Eteobalea_spB Eteobalea_spA Pyroderces_sp Vulcaniella_sp
Aproaerema_anthyllidella Aproaerema_sp Crossobela_trinotella
Syncopacma_sp Aristotelia_sp Aristotelia_subericinella Isophrictis_sp
Metzneria_spB Metzneria_spA Ornativulva_sp Apatetris_sp
Epidola_barcinonella Epidola_sp Nothris_sp Gelechiidae_indetD
Mirificarma_lentiginosella Elachista_sp Coleophora_spA Coleophora_spB
Coleophora_spC Coleophora_spD Coleophora_spE Coleophora_spF
Blastobasis_phycidella Scythris_dissimilella Scythris_scopolella
Scythris_spA Scythris_tributella Alucita_sp Gypsochares_sp Merryfeldia_sp
Merryfeldia_tridactylus Ochromolopis_ictella Ochromolopis_spB
Pterophorus_sp Cydia_fagiglandana Cydia_coniferana Eucosmini_indet
Gypsonoma_aceriana Notocelia_sp Pseudococcyx_tessulatana Phaneta_sp
Endothenia_marginana Aethes_sp Agapeta_hamana Cochyylimorpha_meridiana
Phalonidia_contractana Phalonidia_sp Cnephasia_sp Exapate_sp
Archips_rosana Clepsidius_consimilana Clepsidius_unicolorana Sparganothis_sp
Brachodes_funebris Amauta_papilionaris Telchin_licus Gazera_heliconioides
Dyspessa_ulula Cossus_cossus Xyleutes_crassa Zeuzera_pyrina
Sesia_apiformis Sesia_melanocephala Bembecia_sp Pyropteron_chrysidiformis
Synanthedon_sp Trosia_sp Hoyosia_codeti Parasa_sp Heterogynis_paradoxa
Zygaena_sp Zygaena_trifolii Aglaope_infausta Eterusia_aedeas
Histia_flabellicornis Harrisina_americana Adscita_geryon Jordanita_notata
Marmax_hyparchus Thyris_fenestrella Parnassius_mnemosyne Zerynthia_rumina
Iphiclides_podalirius Troides_magellanus Papilio_machaon Papilio_fuscus
Papilio_gallienus Papilio_zalmoxis Pyrrhochalcia_iphis Aguna_sp
Chionodes_sp Carchadorus_alceae Erynnis_tages Pyrgus_malvoides
Perichares_sp Hesperia_comma Thymelicus_lineola Dismorphia_nemesis
Leptidea_sinapis Gonepteryx_rhamni Colotis_evagore Hebomoia_leucippe
Euchloe_crameri Anthocharis_euphenoides Pieris_rapae Hamearis_lucina

Napaea_sp Ancylyris_aulestes Lyropteryx_apollonia Favonius_quercus
Pseudolycaena_dama Satyrium_esculi Lycaena_phlaeas Lycaena_virgaureae
Aricia_cramera Celastrina_argiolus Glaucopsyche_melanops
Scolitantides_panoptes Scolotantides_abencerragus Greta_morgane
Idea_leuconoe Ideopsis_gaura Euphaedra_sp Acraea_bonasia
Bematistes_excisa Boloria_selene Heliconius_charitonia Charaxes_jasius
Prepona_demophon Coenonympha_pamphilus Kanetisa_circe Pierella_hyceta
Caligo_brasiliensis Morpho_sp Ancylolema_tentaculella Agriphila_sp
Catoptria_spA Catoptria_spB Chrysoteuchia_culmella
Metacrambus_pallidellus Pediasia_sp Emprepes_pudicalis Eurrhysis_sp
Loxostege_sticticalis Pyrausta_despicata Pyrausta_sanguinalis Pyrausta_sp
Pyrausta_cespitalis Pyraustini_indetA Sitochroa_palealis Udea_ferrugalis
Udea_numeralis Uresiphita_gilvata Eudonia_murana Eudonia_truncicolella
Cadarena_sp Nomophila_noctuella Parotis_sp Siga_liris Stenorrhages_sp
Terastia_sp Galleria_melonella Ematheudes_punctellus Ephestia_sp
Homoeosoma_sinuella Myelois_cribrella Oncocera_semirrubella
Pempeliella_sororiella Phycitini_indetC Phycitini_indetA Phycitini_indetB
Phycitini_indetD Plodiainterpunctella Ephestia_kuehniella
Oxybia_transversella Pyralis_farinalis Synaphe_bombycalis
Synaphe_chellalalis Synaphe_punctalis Toccolosida_sp Lacosoma_chiridota
Axia_margarita Cilix_glaucata Watsonalla_uncinula Tethea_ocularis
Phyllodesma_sp Malacosoma_americanum Malacosoma_castrensis
Lasiocampa_quercus Lasiocampa_trifolii Gonometes_sp Dendrolimus_pini
Streblote_panda Trabala_viridiana Trichiura_crataegi Dactyloceras_sp
Eupterote_sp Ganisa_sp Endromis_versicolora Gunda_sp Therinia_sp
Aglia_tau Periphoba_arcaeii Attacus_atlas Actias_isabelae Saturnia_pyri
Bunaea_alcinoe Ludia_sp Orthogoniophtilum_sp Acherontia_atropos
Cocytius_antaeus Xanthopan_morgani Enyo_lugubris Deilephila_porcellus
Hyles_livornica Leucostrophus_commasiae Macroglossum_stellatarum
Nephele_aequivalens Microniinae_indet Chrysiridia_rhipheus Urania_leilus
Epicopeia_sp Sematura_empedocles Rhodometra_sacraria
Rhodostrophia_pudorata Rhodostrophia_sp Problepsis_sp
Cinglis_andalusiaria Idaea_spB Idaea_spA Adactylotis_gesticularia
Melanchroia_sp Milionia_sp Peribatodes_umbrarius Colotois_pennaria
Ennomos_fuscantarius Gnophos_ambiguatus Crocallis_albarracina
Petrophora_convergata Comptosia_jourdanaria Thetidia_smaragdaria
Dysphania_sp Victoria_sp Crinodes_bellatrix Clostera_pigra Anaphe_sp
Thaumatopoea_pytiocampa Pterostoma_palpinum Lirimiris_sp Cerura_iberica
Dicranura_ulmi Dioptriinae_indet Nola_thymula Eligma_sp Earias_insulana
Bena_bicolorana Eutelia_adulatrix Cleonymia_yvanii Cucullia_chamomillae
Cucullia_verbascae Cucullia_argentea Autographa_gamma Acontia_lucida
Tyta_luctuosa Amphipyra_piramidea Heliothis_peltigera Bryophila_ravula
Mesoligia_furuncula Mythimna_sicula Noctua_sp Noctua_comes
Epimecia_ustula Eucrotopocnemis_optabilis Scoliopteryx_libatrix Hypena_sp
Leucoma_salicis Limantoria_dispar Euproctis_chrysorrhoea Ocnieria_rubea
Orgyia_trigotephrae Agryllus_sp Eilema_caniola Eilema_uniola
Lithosia_quadra Paidia_rica Syntomini_indetA Syntomini_indetB Chetona_sp
Ctenuchini_indet Cymbalophora_pudica Argina_amanda
Euplagia_quadripunctaria Utetheisa_pulchella Chetone_sp Amastus_aconia
Pelochyta_sp Viviennea_sp Nyctemera_sp Arctia_caja Eucharis_festiva
Gorgone_sp Eudocima_sp Minidotes_discolor Autophila_cataphanes
Autophila_maura Eublemma_candidana Eublemma_polygramma Odice_jucunda
Phytometra_viridaria Thysania_pomponia Thysania_agrippina
Ascalapha_odorata Letis_sp Catocala_dilecta Catocala_elocata
Cyligramma_latona Dysgonia_algira

END;

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BEGIN CHARACTERS;
  TITLE  Lep_weight_and_size;
  DIMENSIONS  NCHAR=10;
  FORMAT DATATYPE = CONTINUOUS GAP = - MISSING = ?;
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  1 DBW,
  2 WL,
  3 Ww,
  4 TL,
  5 TW,
  6 AL,
  7 AW,
  8 FWta,
  9 HWta,
  10 WAtot ;

MATRIX
Micropteryx_aureatella      -0.261219442 0.670245853 0.147676324
0.070037867 -0.271646218 0.261262869 -0.288192771 0.765668555 0.743509765
1.055760465
Eriocrania_sp              -0.223298816 0.739572344 0.24674471
0.07371835 -0.068033885 0.293362555 -0.351639989 0.921686475 0.92505412
1.224403558
Abantiades_hyalinatus      2.986973164 1.727419247 1.299507299
1.307496038 1.027349608 1.489536629 0.836640542 2.906572061 2.781640505
3.149613187
Abantiades_magnifica       3.05196245 1.760271661 1.309097617
1.286905353 1.160018096 1.554670835 0.99100444 2.965639069 2.826547732
3.202668101
Korscheltellus_lupulinus   1.452436405 1.103557609 0.692846919
0.589102873 0.586225943 0.814687263 0.123120057 1.724357804 1.636086515
1.983490972
Triodia_sylvina            1.500596913 1.153586975 0.745855195
0.629024271 0.49691253 0.942960398 0.327763069 1.849971912 1.764475027
2.110353983
Stigmella_spA              -1.247311472 0.305895688 -0.359849959
-0.460004405 -0.456459634 -0.115946079 -0.658581964 -0.023802915 -
0.13076828 0.227029262
Stigmella_spB              -0.935542011 0.390592921 -0.298863934
-0.321880135 -0.349109922 -0.007639815 -0.606402863 0.169233451 -
0.014012494 0.388234455
Stigmella_spD              -1.468521083 0.250420002 -0.431798276
-0.361510743 -0.468521083 -0.15490196 -0.698970004 -0.236572006 -
0.301029996 0.033423755
Stigmella_spC              -0.827118588 0.493196559 -0.091976376
-0.132558294 -0.196895311 0.11388522 -0.576781078 0.35101604 0.12982467
0.555382657
Ectoedemia_sp              -0.943095149 0.505828034 -0.119186408
-0.110698297 -0.207608311 0.095169351 -0.318758763 0.301029996
0.139879086 0.5289167
Trifurcula_sp              -0.991399828 0.404491618 -0.204641449
-0.273069136 -0.295849483 0.004965887 -0.5551748 0.120902818 0.038620162
0.382737266
Pseudopostega_sp           -0.085656843 0.745367607 0.074633618
0.10720997 0.021706009 0.359123718 -0.241277301 0.849879878 0.869964706
1.161068385

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Adela_spA -0.055517328 0.762678564 0.217483944
 0.225309282 0.1430148 0.326335861 -0.244125144 0.939519253 0.968949681
 1.255513713
 Adela_spB 0.059714846 0.787765131 0.212187604
 0.241971697 0.208100949 0.607058044 -0.175620036 0.809627042 0.748962861
 1.081383317
 Cauchas_spA 0.227886705 0.755299161 0.274157849
 0.247225909 0.131939295 0.478145892 -0.138658474 1.010299957 0.701567985
 1.183839037
 Cauchas_spB 0.274157849 0.735139214 0.212187604
 0.209468097 0.136720567 0.498310554 0.011041526 0.825426118 0.695481676
 1.066325925
 Coptotryche_sp -0.76700389 0.517733153 -0.190577497 -
 0.185298032 -0.103790801 0.233004364 -0.34853057 0.249198357 0.120573931
 0.490660653
 Oreopsyche_sp 0.457881897 0.929163383 0.579783597
 0.415807728 0.297760511 0.640481437 -0.078313525 1.41447195 1.23350376
 1.634376494
 Ptilocephala_sp 0.103803721 0.902889079 0.546203238
 0.299065807 0.26198807 0.511388652 -0.055603702 1.15136985 1.103290472
 1.429025157
 Apterona_hecocoidella 0.152288344 0.924537718 0.638988159
 0.381566296 0.388278863 0.712649702 0.010723865 1.083860801 1.097951071
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 Dissoctena_granigerella 0.379251114 0.896526217 0.426511261
 0.28122703 0.145860731 0.485376737 -0.022412393 1.252610341 1.229681842
 1.542327383
 Infurcitinea_albicomella -0.76700389 0.522931075 -0.105162847 -
 0.131007502 -0.169186865 0.221047606 -0.259349192 0.288919606 0.250420002
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 Nemapogon_sp -0.20481541 0.756863887 0.10720997
 0.116391871 0.056904851 0.430155712 -0.32658739 0.837588438 0.73479983
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 Ateliotum_sp -0.131355562 0.821709015 0.176206332
 0.152354095 0.001209994 0.381657384 -0.210867209 1.006466042 1.006037955
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 Crassicornella_agenjoi -0.372634143 0.72376753 0.189669946
 0.122852104 0.079445362 0.386667478 -0.221584634 0.846337112 0.810232518
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 Tineola_bisselliella -0.496890563 0.690860308 0.009663317 -
 0.025718641 -0.007667441 0.425697213 -0.354086725 0.685741739 0.683497318
 0.985650974
 Phyllonorycter_spA -0.669586227 0.615687082 -0.019769309
 -0.199282922 -0.185752404 0.253943463 -0.36552273 0.487421211 0.397766256
 0.745933158
 Phyllonorycter_spB -0.989276135 0.468014835 -0.186919639
 -0.15490196 -0.26181423 0.042575512 -0.547446937 0.236411288 0.167465029
 0.504334912
 Phyllonorycter_spC -0.721246399 0.626853415 -0.050609993
 -0.029188389 -0.116338565 0.201397124 -0.437707136 0.553883027 0.45331834
 0.807535028
 Prays_oleae -0.156074657 0.780153611 0.179419644
 0.161380731 0.072194734 0.352106751 -0.183833299 0.896250562 0.982949289
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 Distagmos_ledereri 0.110615123 1.051050403 0.325020232
 0.268905441 0.157018021 0.695979166 -0.017728767 1.374170241 1.450654095
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Leucoptera_sp -0.962573502 0.352992445 -0.337242168
 -0.283829652 -0.334982175 0.094366298 -0.425158805 0.086618849
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 Phyllobrostis_sp -0.863279433 0.58759873 -0.096910013 -
 0.177374321 -0.195213358 0.081671287 -0.418107205 0.450249108 0.338456494
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 Yponomeuta_malinellus 0.389026069 1.036364965 0.460897843
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 Yponomeuta_padella 1.565726224 1.061263942 0.478566496
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 Yponomeuta_gigas 1.530993258 1.097604329 0.474944335
 0.456366033 0.371990911 0.754348336 0.158362492 1.552303109 1.640083731
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 Plutella_xylostella -0.368556231 0.778341936 0.103803721
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 Oegoconia_sp -0.306273051 0.718859855 0.079445362
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 Stibaromacha_ratella 0.253804814 0.890597048 0.28780173
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 Symmocoides_oxibiella -0.171340103 0.759918908 0.1430148
 0.10720997 0.055720356 0.428543778 -0.179273237 0.862727528 0.95230801
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 Eurodachtha_sp 0.041392685 0.904038969 0.306905462
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 Batia_sp 0.217615529 0.898727587 0.253724746
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 Minetia_sp -0.095014119 0.854577651 0.168644777
 0.173033218 0.091376745 0.388487523 -0.087083026 1.050384733 1.005147063
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 Pleurota_spA -0.360513511 0.812244697 0.158362492
 0.201397124 -0.043351421 0.317018101 -0.301029996 0.833147112 0.979092901
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 Pleurota_spB 0.42111013 0.995799669 0.375206221
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 Pleurota_spC -0.301029996 0.840618327 0.132473155
 0.17768076 0.056186783 0.32517688 -0.201671685 0.9206039 0.899871433
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 Pleurotini_indet -0.110885131 0.911157609 0.290034611
 0.192195626 0.112482113 0.471939246 -0.186163358 1.137248585 1.147057671
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 Elachistidae_indet 0.457881897 0.962842681 0.4448252
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 Agonopteryx_sp 0.654657755 1.001733713 0.472756449
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 Exaeretia_lutosella 0.382017043 0.88889572 0.323198739
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Ethmia_bipunctella	1.09596215	1.016824494	0.523746467
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Ethmia_fumidella	0.696356389	1.165877929	0.567299869
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Eteobalea_spB	-1.070581074	0.43272884	-0.317854924
0.234331445	-0.3400838	-0.156767222	-0.547446937
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Eteobalea_spA	-1.187086643	0.478566496	-0.37675071
0.167491087	-0.22184875	-0.051342568	-0.618704377
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Pyroderces_sp	-0.428291168	0.718109832	-0.13076828
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Vulcaniella_sp	-0.958607315	0.493555634	-0.638272164
-0.178650264	-0.291409155	-0.060031709	-0.466227942
0.075546961	0.418301291		
Aproaerema_anthyllidella	-0.349890307	0.71166389	0.016884174
0.005316829	-0.027511967	0.242412746	-0.292296028
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Aproaerema_sp	-0.299599183	0.717433553	0.232662638
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Crossobela_trinotella	-0.202247871	0.781036939	0.043362278
0.088136089	-0.023764686	0.388416501	-0.321231314
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Syncopacma_sp	-0.838631998	0.723936496	-0.106640549
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Aristotelia_sp	-0.519993057	0.653260284	-0.053636175
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Aristotelia_subericinella	0.449221192	0.743248378	0.101517955
0.098643726	0.012133914	0.459643743	-0.22184875
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Isophrictis_sp	-0.742321425	0.667919685	-0.070581074
-0.033858267	-0.211124884	0.241795431	-0.381951903
0.514547753	0.870988814		
Metzneria_spB	-0.010550182	0.894897318	0.112102055
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Metzneria_spA	-0.064492734	0.813747736	0.089463531
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Ornativallva_sp	-0.055517328	0.811239773	0.161368002
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Apatetris_sp	-0.958607315	0.611723308	-0.065501549
-0.038578906	-0.193820026	0.171726454	-0.431798276
0.152288344	0.646403726		
Epidola_barzinonella	0.581380689	0.802329863	0.164352856
0.157740987	0.073045278	0.390051496	-0.22184875
1.203576775			
Epidola_sp	-0.250650239	0.834862721	0.112748235
0.194410265	0.125413351	0.53458861	-0.154083776
1.071882007			

Nothris_sp 0.460897843 0.96913297 0.351697768
 0.330814398 0.263242422 0.686095298 0.02602636 1.247973266 1.35679046
 1.606811147
 Gelechiidae_indetD -0.229000795 0.809222922 0.164352856
 0.098643726 0.100370545 0.431363764 -0.170696227 0.950851459 0.979548375
 1.266466895
 Mirificarma_lentiginosella -0.177178355 0.818783141 0.175241807
 0.14855479 0.12972322 0.420240364 -0.09183865 0.880241776 0.964730921
 1.225567713
 Elachista_sp -0.034798299 0.755493728 0.064457989
 0.113107367 0.0 0.387078233 -0.212610379 0.840733235 0.953759692
 1.201943063
 Coleophora_spA -0.779891912 0.556483419 -0.107905397
 -0.195247398 -0.283913146 0.092141433 -0.489522016 0.399673721
 0.243038049 0.629409599
 Coleophora_spB -0.117475462 0.877083257 0.012837225
 0.1775365 0.010723865 0.335457901 -0.236572006 1.002166062 0.990782692
 1.297541668
 Coleophora_spC -0.259637311 0.788740662 -0.075720714
 0.105510185 -0.049172858 0.398894407 -0.327301937 0.705863712 0.811575006
 1.062957834
 Coleophora_spD -1.124938737 0.699988532 -0.138102833
 -0.023523924 -0.124727431 0.291928011 -0.251130046 0.604226053
 0.419955748 0.822821645
 Coleophora_spE -0.649751982 0.733820564 -0.214776972
 0.044659293 -0.15670959 0.331618587 -0.345443256 0.550228353 0.495544338
 0.824776462
 Coleophora_spF -0.356547324 0.810872731 -0.105783659
 0.0703076 -0.041768295 0.393560288 -0.243847132 0.721810615 0.870403905
 1.103461622
 Blastobasis_phycidella 0.152899596 0.823851953 0.071882007
 0.114345723 0.145020725 0.393221482 -0.09772508 0.844477176 0.899820502
 1.174059808
 Scythris_dissimilella -0.002613616 0.61153957 -0.148741651
 0.071882007 0.019903126 0.372912003 -0.161056508 0.5289167 0.744292983
 0.950851459
 Scythris_scopolella -0.254925208 0.811759043 0.083581284
 0.112846059 0.060967397 0.356690299 -0.231425919 0.937768567 1.058198188
 1.30317445
 Scythris_spA -0.200659451 0.838429621 0.123204002
 0.179330926 0.053901573 0.483337274 -0.194225925 0.871718843 0.7111743
 1.09985322
 Scythris_tributella -0.22366209 0.808914934 0.077493207
 0.119949496 0.067577449 0.406408022 -0.249744377 0.936010796 1.043755127
 1.294245716
 Alucita_sp 0.325310372 0.871280973 0.206825876
 0.184691431 0.212187604 0.602059991 -0.099632871 1.380211242 1.110926242
 1.567144045
 Gypsochares_sp 0.38327665 1.07754958 0.11058971
 0.323767583 0.137512353 0.620136055 -0.126388803 1.256236533 1.2955671
 1.577376892
 Merryfeldia_sp 0.080987047 0.951653166 0.195571825
 0.272305844 0.0923697 0.714748761 -0.225118234 0.832401297 1.081314759
 1.275482075
 Merryfeldia_tridactylus 0.056904851 0.887864375 -0.086186148
 0.117418318 -0.027898668 0.629884225 -0.363822937 0.925312091 1.052693942
 1.294686624

Ochromolopis_ictella	-0.141863998	0.807605612	0.073107098
0.140529516	0.099749106	0.385132402	-0.202871012
0.941977398	0.909838777		
1.227235306			
Ochromolopis_spB	-0.135192371	0.818060857	0.06069784
0.127914294	0.05018635	0.398374086	-0.20238627
0.834420704	1.067442843		
1.267406419			
Pterophorus_sp	-0.007004902	0.895146189	0.067814511
0.115127694	0.077240687	0.410481981	-0.249144617
1.073351702	1.195346058		
1.43964843			
Cydia_fagiglandana	0.570472887	0.983706237	0.5774918
0.441299879	0.382308292	0.706466932	0.11777563
1.544811912	1.541454429		
1.84416641			
Cydia_coniferana	0.144885418	0.739255803	0.351216345
0.23299611	0.187520721	0.421192468	-0.240332155
1.035429738	1.013258665		
1.325515663			
Eucosmini_indet	0.025305865	0.802513516	0.179336314
0.115693702	0.065579715	0.360971884	-0.130035294
1.009025742	0.636309328		
1.162511237			
Gypsonoma_aceriana	0.87048432	0.982507309	0.486430479
0.343955796	0.299875917	0.660585999	0.096996964
1.523030722	1.448242413		
1.788274456			
Notocelia_sp	0.330413773	0.935255282	0.489958479
0.372912003	0.198657087	0.553276046	-0.057991947
1.36078269	1.386142109		
1.674677468			
Pseudococcyx_tessulatana	0.261262869	0.838849091	0.352182518
0.206825876	0.123851641	0.487138375	-0.083546051
1.374565061	1.151676231		
1.578295305			
Phaneta_sp	0.571825249	0.880813592	0.431363764
0.357934847	0.257678575	0.436162647	-0.102372909
1.25161389	1.286905353		
1.570647998			
Endothenia_marginana	0.299507299	0.805908116	0.452342375
0.36272745	0.182630034	0.542218359	-0.064133909
1.350133613	1.373497721		
1.663002761			
Aethes_sp	-0.271646218	0.683358227	0.136720567
0.150480122	-0.026271941	0.312431256	-0.365321248
1.22685757	1.124504225		
1.479719235			
Agapeta_hamana	0.724603515	0.972040758	0.582063363
0.364550995	0.312388949	0.675319983	0.130333768
1.476686743	1.468790262		
1.773786445			
Cochylimorpha_meridiana	0.840889878	1.051514284	0.546234106
0.49829332	0.429933871	0.746673112	0.125359256
1.569929591	1.612916243		
1.892984551			
Phalonidia_contractana	0.16790781	0.730014721	0.278753601
0.112143989	0.119338384	0.401472757	-0.120220407
0.957726977	0.900093902		
1.230895759			
Phalonidia_sp	-0.416801226	0.723044992	0.096910013
0.144574208	-0.105130343	0.276461804	-0.449771647
0.798650645	0.553883027		
0.994317153			
Cnephasia_sp	0.349277527	0.835690571	0.354108439
0.212187604	0.1430148	0.47348697	-0.119186408
1.105510185	1.13289977		
1.420450859			
Exapate_sp	0.258876629	1.064268176	0.451328627
0.301298856	0.223657857	0.719241934	0.114678303
1.467015818	1.530455844		
1.800923182			
Archips_rosana	0.585799009	0.885587356	0.52179165
0.356981401	0.231724383	0.408239965	-0.09420412
1.357363031	1.322839273		
1.641474111			

Clepsid_ consimilana	1.046992311	0.847880997	0.450249108
0.329397879	0.204961743	0.556223346	-0.104732792
1.526597709			1.236537261
			1.214313897
Clepsid_ unicolorana	0.173186268	1.188318046	0.772314144
0.536851188	0.488979334	0.768542749	0.239828171
1.59505509			1.314499228
			1.272537777
Sparganothis_ sp	0.547774705	0.908959267	0.496514519
0.292521885	0.218141468	0.54001647	-0.064240896
1.531606632			1.309417226
			1.134177108
Brachodes_ funebris	0.613182829	0.894879062	0.380211242
0.341720333	0.293698368	0.660852202	0.051152522
1.54567815			1.253822439
			1.235275877
Amauta_ papilionaris	2.826210904	1.749427099	1.548573662
1.265171723	0.834420704	1.283979284	0.912753304
3.420686663			3.145504065
			3.092173046
Telchin_ licus	2.377166868	1.655738538	1.410017608
1.137195812	0.800201391	1.260965305	0.705222056
3.216569648			2.92467979
			2.906203009
Gazera_ heliconioides	2.374748346	1.638139684	1.31196566
1.092720645	0.815909651	1.278181785	0.728759475
3.019867863			2.820352549
			2.586114499
Dyspessa_ ulula	1.188225173	0.963217441	0.613403079
0.650035397	0.565357781	0.764646799	0.339729619
1.776083437			1.536495314
			1.403463701
Cossus_ cossus	2.734116445	1.529064451	1.151676231
1.024485668	1.026434403	1.188373078	0.823493818
2.827776233			2.588674993
			2.454494235
Xyleutes_ crassa	3.060014704	1.671333039	1.128722284
1.213145355	1.007061127	1.480478605	0.705294906
2.959527911			2.746618633
			2.547823914
Zeuzera_ pyrina	2.353108026	1.365652686	0.890893064
1.005521549	0.860924656	1.22446443	0.554010385
2.368184577			2.155518221
			1.956096362
Sesia_ apiformis	2.289122942	1.253550011	0.428134794
0.772963138	0.73933496	1.156435566	0.702430536
1.982904118			1.702344358
			1.660391098
Sesia_ melanocephala	1.593341458	1.128459045	0.254958735
0.732667118	0.616486017	0.981906906	0.524181843
2.00048681			1.701337178
			1.697568274
Bembecia_ sp	0.951823035	0.918017224	0.028571253
0.472427314	0.401443623	0.812762998	0.210385412
1.311096626			0.985426474
			1.033383541
Pyropteron_ chrysidiformis	1.034195561	0.914265919	0.041392685
0.528254475	0.358311834	0.763120884	0.309630167
1.332236415			0.996949248
			1.062957834
Synanthedon_ sp	1.295512005	0.967905841	0.401400541
0.599083584	0.506505032	0.868938178	0.269454567
1.444981112			1.109240969
			1.176091259
Trosia_ sp	1.827821428	1.236363408	0.885881157
0.847708355	0.711857824	1.081768434	0.525563058
2.264463634			2.013300787
			1.907088745
Hoyosia_ codeti	0.974281359	1.040924579	0.683818981
0.43562143	0.400149282	0.90814442	0.47186721
1.930490565			1.64733406
			1.610819801
Parasa_ sp	2.48334762	1.387033701	1.037426498
1.00838723	0.854609638	1.121067167	0.671635597
2.566036601			2.333809875
			2.183212883

Heterogynis_paradoxa 0.632963168 1.135588978 0.677705023
 0.442730553 0.341063386 0.465650485 0.047810102 1.737351696 1.68694892
 2.013911091
 Zygaena_sp 1.573756362 1.329947552 0.923761961
 0.776411925 0.702370878 1.019606446 0.608936161 2.139532772 1.831613855
 2.313339844
 Zygaena_trifolii 1.614626115 1.153415928 0.661812686
 0.725146908 0.538107672 0.948898721 0.466605492 1.772541733 1.703549298
 2.040444098
 Aglaope_infausta 0.807535028 1.039757611 0.669074091
 0.598947787 0.58953744 0.766806805 0.296058509 1.586868492 1.492690561
 1.843357378
 Eterusia_aeaea 1.715710932 1.535552341 1.096050998
 0.805942404 0.539834823 1.081017681 0.683798744 2.524162358 2.461753566
 2.795108025
 Histia_flabellicornis 1.455758203 1.404142399 1.056558039
 0.718011482 0.387069327 0.924279286 0.290824531 2.290368556 2.166074717
 2.533683107
 Harrisina_americana 1.144262774 1.183853257 0.612889769
 0.669177363 0.477772208 0.896663979 0.2219356 1.74506698 1.646237035
 1.99948723
 Adscita_geryon 0.727541257 1.13984415 0.733197265
 0.473123871 0.34730466 0.730056961 0.053523088 1.756940236 1.702516697
 2.031610415
 Jordanita_notata 0.894316063 1.1532049 0.737192643
 0.470557485 0.440121603 0.760799312 0.120573931 1.805296916 1.791199246
 2.099335278
 Marmax_hyparchus 1.478133428 1.235717778 0.674401813
 0.606112535 0.505149978 0.837430599 0.305351369 1.80126647 1.547774705
 1.993788814
 Thyris_fenestrella 0.661244609 0.822168079 0.379305518
 0.471291711 0.39707055 0.641474111 0.139879086 1.102433706 1.07114529
 1.388101202
 Parnassius_mnemosyne 2.13815263 1.458290274 1.159867847
 0.813080361 0.567202873 0.934397441 0.405175546 2.466926906 2.392714536
 2.73243397
 Zerynthia_rumina 1.467276257 1.375215374 1.102776615
 0.672836454 0.500167839 0.960756091 0.356503892 2.350383714 2.216719967
 2.589703915
 Iphiclides_podalirius 1.999141402 1.5872787 1.29666519
 0.926213786 0.702430536 1.058426024 0.403463701 2.713901962 2.68660946
 3.001500065
 Troides_magellanus 2.736049018 1.866021363 1.426185825
 1.15632195 0.866228247 1.436917631 0.838849091 3.250385843 3.009773734
 3.447564217
 Papilio_machaon 1.917426266 1.584834217 1.305566314
 0.961919179 0.635232346 1.06533692 0.402175375 2.717454134 2.644684718
 2.983621777
 Papilio_fuscus 2.371640248 1.857778625 1.561459171
 1.123786329 0.67292869 1.242230752 0.411367136 3.229766287 3.207642445
 3.519875226
 Papilio_gallienus 2.240720591 1.722086597 1.465680212
 0.947801197 0.586418505 1.166859164 0.191031609 3.011312412 2.918119494
 3.268240888
 Papilio_zalmoxis 2.694030146 1.890504851 1.584783379
 1.219715476 0.812579155 1.247113642 0.614633608 3.293553691 3.152136927
 3.529606141

Pyrrhochalcia_iphis	2.257643386	1.392679916	1.227115083
1.008952156	0.820743516	1.187883751	0.618983122
2.902117164		2.630377018	2.56967816
Aguna_sp	1.645777805	1.345814664	1.04453976
0.820135752	0.593452219	0.959065254	0.35564305
2.50551626		2.204228543	2.204743833
Chioides_sp	1.845934801	1.40742065	1.105632792
0.866960417	0.678318029	0.913649637	0.5057535
2.675182381		2.335678502	2.409493537
Carchadorus_alceae	1.194234705	1.100508395	0.81756537
0.665721668	0.453853233	0.790566625	0.333245699
2.077295214		1.768490105	1.783903579
Erynnis_tages	1.008114512	1.132595849	0.822168079
0.68797462	0.360119862	0.727866449	0.234390722
2.148571809		1.85308953	1.841922312
Pyrgus_malvoides	0.777454319	1.044245689	0.756636108
0.489255168	0.325104983	0.560862695	0.146593102
1.95409772		1.673665876	1.631443769
Perichares_sp	1.877400144	1.390139054	1.061065891
0.934710497	0.716086854	0.957829884	0.536747774
2.558798539		2.281431099	2.232742063
Hesperia_comma	1.447845631	1.177016767	0.804139432
0.813647695	0.574147064	0.832764305	0.124341171
2.140067869		1.855821905	1.821579028
Thymelicus_lineola	0.988838448	1.040167036	0.667452953
0.560444673	0.403120521	0.713658516	0.204933522
1.931508722		1.639486489	1.621280168
Dismorphia_nemesis	1.278982117	1.432303718	0.978299235
0.721192109	0.25791845	1.075192812	-0.09560908
2.617409267		2.276461804	2.352934644
Leptidea_sinapis	0.800717078	1.324445028	0.963017688
0.534996469	0.142553704	1.022170523	-0.28141528
2.412326122		2.130526745	2.091174361
Gonepteryx_rhamni	1.783162004	1.477417921	1.224533063
0.867084291	0.560922379	1.040285799	0.432408031
2.873826112		2.566154549	2.579337644
Colotis_evagore	0.971507782	1.210652875	0.948412966
0.621176282	0.322219295	0.881669908	0.071882007
2.340632467		2.034146977	2.044990284
Hebomoia_leucippe	2.252114831	1.678518379	1.424881637
1.073831032	0.671258489	1.285337293	0.359636306
3.265471133		2.958186279	2.970607189
Euchloe_crameri	1.119583348	1.306242693	0.941014244
0.666892211	0.509135289	0.908592239	0.049992857
2.422704717		2.124797568	2.118529258
Anthocharis_euphenoides	1.225309282	1.293713826	1.018184363
0.708242386	0.485494285	0.924103465	-0.001653463
2.473238731		2.15724516	2.186673867
Pieris_rapae	1.412480645	1.417056299	1.150449409
0.747761278	0.520221436	0.961800639	-0.042392713
2.738606172		2.436528382	2.438621448
Hamearis_lucina	0.880835264	1.180756492	0.892651034
0.590618948	0.375846436	0.690904554	0.08278537
2.191367166		1.919078092	1.859558573
Napaea_sp	1.203848464	1.222045006	0.98388327
0.611935625	0.469483281	0.695096244	0.17312797
2.340225921		2.057437868	2.020154032

Ancyluris_aulestes	1.411788005	1.317271278	1.017613403
0.826470025	0.36363078	0.735095657	0.24743313
2.503600042	2.203060098	2.202079441	
Lyropteryx_apollonia	1.932270776	1.395151592	1.197831693
0.992553518	0.597146488	0.849726444	0.319106059
2.696592259	2.433449794	2.354050786	
Favonius_quercus	1.313428704	1.222214272	1.018284308
0.710607257	0.402684291	0.792533162	0.102553755
2.421324177	2.114711041	2.125806458	
Pseudolycaena_dama	1.379459624	1.475707499	1.237229465
0.837115538	0.389892255	0.923550974	0.291618565
2.844688369	2.561524734	2.525025361	
Satyrrium_esculi	1.106877265	1.171666496	0.945960704
0.605733741	0.290969009	0.799824208	0.143966705
2.293627692	1.998041264	1.98708503	
Lycaena_phlaeas	1.183924408	1.189491717	0.895422546
0.653372691	0.287687545	0.749366003	-0.034304529
2.305952945	1.998215732	2.011528154	
Lycaena_virgaureae	1.543819805	1.309949384	1.022222105
0.766784515	0.522444234	0.862429556	0.095169351
2.474711485	2.191534847	2.155062619	
Aricia_cramera	1.011714888	1.112140299	0.816903839
0.590426059	0.339177063	0.715233459	-0.01066144
2.141261591	1.861713588	1.817631467	
Celastrina_argiolus	0.775399834	1.199587624	0.888740961
0.57100734	0.27179051	0.768090264	-0.14834424
2.28057837	1.98668218	1.972295429	
Glaucopsyche_melanops	0.866464682	1.155273774	0.859138297
0.591507584	0.216414	0.78126553	0.085254891
2.21735232	1.933487288	1.898450919	
Scolitantides_panoptes	0.670245853	1.085220986	0.765329479
0.510900075	0.26032187	0.569414879	-0.004430613
2.010639117	1.726319612	1.692229836	
Scolotantides_abencerragus	0.255272505	0.92258534	0.611170797
0.332922983	0.029870564	0.449617228	-0.186552456
1.674861141	1.40790054	1.336859821	
Greta_morgane	1.503177609	1.453165393	0.970346876
0.681241237	0.297760511	1.164204099	-0.161150909
2.643462547	2.368584372	2.314604473	
Idea_leuconoe	2.523382388	1.864717346	1.58069694
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3.541548044	3.270685822	3.208097225	
Ideopsis_gaura	1.915134996	1.683297486	1.32159843
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3.11140367	2.837487428	2.781453776	
Euphaedra_sp	2.071992407	1.521876541	1.302062388
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2.932021985	2.649811736	2.611319619	
Acraea_bonasia	0.620691315	1.274893417	0.880241776
0.527556663	0.273001272	0.87848643	-0.103835174
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Bematistes_excisa	1.682516878	1.583607165	1.224791956
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Boloria_selene	1.175076721	1.310268367	1.006572998
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Heliconius_charitonia 1.723265111 1.650507864 1.238874363
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Charaxes_jasius 2.376832349 1.642068627 1.418922452
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Prepona_demophon 2.621145111 1.702688968 1.459995256
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Coenonympha_pamphilus 0.727541257 1.137670537 0.906604372
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Kanetisa_circe 1.877889425 1.523128393 1.237920566
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Pierella_hyceta 1.738697807 1.597393488 1.331832044
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Caligo_brasiliensis 2.613239537 1.857450102 1.650598898
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Morpho_sp 2.141198845 1.861609077 1.593230669
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Ancylolomia_tentaculella 1.300220326 1.168436795 0.626340367
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Agriphila_sp 0.571708832 1.059806434 0.477587147
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Catoptria_spA 0.271841607 0.806836348 0.16885532
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Catoptria_spB 0.418301291 1.042162283 0.587708721
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Chrysoteuchia_culmella 0.539076099 1.01782187 0.590624522
0.400149282 0.238297068 0.817842912 -0.017457418 1.539389782 1.66954931
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Metacrambus_pallidellus 1.25995206 1.209620824 0.699670406
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Pediasia_sp 0.651278014 1.06836678 0.480195288
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Emprepes_pudicalis 0.581148745 0.95341584 0.54961624
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Eurrhysis_sp 0.753965866 0.986255927 0.640993994
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Loxostege_sticticalis 0.725911632 1.037286953 0.542869088
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Pyrausta_despicata 0.356401369 0.877250228 0.447932866
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Pyrausta_sanguinalis 0.333144876 0.845543739 0.416640507
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Pyrausta_cespitalis 0.239299479 0.83875246 0.4061441
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Pyraustini_indetA 1.824551032 1.427646483 0.910090546
0.788620249 0.674714223 1.217712761 0.397369301 2.260596042 2.256405018
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Sitochroa_palealis 1.175922109 1.186089282 0.773433529
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Udea_ferrugalis 0.688419822 0.996511672 0.509202522
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Udea_numeralis 0.867467488 1.108734109 0.658964843
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Uresiphita_gilvata 1.665218481 1.162385592 0.713490543
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Eudonia_murana 0.264817823 0.903120405 0.39168203
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Eudonia_truncicolella 0.41071063 0.95831059 0.359835482
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Cadarena_sp 1.019531685 1.253124683 0.7775863
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Nomophila_noctuella 0.511777815 1.157894771 0.542825427
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Parotis_sp 1.830267801 1.447904996 0.954893463
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Siga_liris 2.500785173 1.504061522 1.149914659
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Stemorrages_sp 1.029789471 1.19814828 0.717978227
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Terastia_sp 1.601081728 1.345438429 0.761514386
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Galleria_melonella 1.322942516 1.134575506 0.73739145
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Ematheudes_punctellus 0.974178719 1.110765749 0.614284964
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Ephestia_sp 0.674861141 0.989227274 0.378397901
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Homoeosoma_sinuella	0.481442629	0.821336487	0.356025857
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Myelois_cribrella	1.532546946	1.070387974	0.531478917
0.487700092	0.481387222	0.859147165	0.276832358
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Oncocera_semirrubella	0.9276688	1.012121671	0.465382851
0.468833726	0.43673764	0.790238681	0.129659227
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Pempeliella_sororiella	0.675319983	0.996481682	0.384842459
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Phycitini_indetC	0.139879086	0.872738827	0.283301229
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1.190891717	1.188928484	1.490941205	
Phycitini_indetA	-0.015472687	0.883093359	0.225309282
0.204119983	0.086359831	0.572871602	-0.110698297
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Phycitini_indetB	0.6599162	1.061640934	0.494154594
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Phycitini_indetD	0.956648579	1.082006891	0.588730975
0.531251492	0.486616059	0.742861759	0.256616736
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Plodia_interpunctella	0.071882007	0.799530081	0.274157849
0.283301229	0.161368002	0.436560171	-0.083546051
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Ephestia_kuehniella	0.720159303	1.101684537	0.53809469
0.46927844	0.383892527	0.832854295	0.142760085
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Oxybia_transversella	0.463892989	0.908326285	0.340588856
0.339596513	0.286126806	0.596159282	0.030931488
1.174059808	1.26810973	1.524655712	
Pyralis_farinalis	0.777789187	1.039497609	0.565990655
0.371259921	0.441449819	0.72469616	0.079026453
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Synaphe_bombycalis	1.188084374	1.142595381	0.760272007
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Synaphe_chellalalis	0.567026366	0.932473765	0.434568904
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Synaphe_punctalis	-0.043351421	0.837272703	0.330413773
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Toccolosida_sp	1.683047038	1.364592265	0.959704259
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Lacosoma_chiridota	1.191031609	1.186532565	0.803627795
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Axia_margarita	1.087936315	1.162733041	0.810904281
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1.8670548	1.799891685	2.135800283	
Cilix_glaucata	0.93690142	1.195860924	0.870403905
0.425188473	0.336241531	0.670426771	0.139957756
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Watsonalla_uncinula	0.851619157	1.077375174	0.77524626
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Tethea_ocularis	1.429348473	1.225413965	0.871762606
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Phyllodesma_sp	1.570529992	1.130512597	0.806179974
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Malacosoma_americana	1.514716175	1.089199428	0.824299159
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2.089559275		1.804059206	1.772423357
Malacosoma_castrensis	1.608579253	1.154678784	0.850651595
0.757626781	0.672769571	0.82832954	0.467109898
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Lasiocampa_quercus	2.264657469	1.416715379	1.118925753
0.874481818	0.727663233	1.045616322	0.515807635
2.728548562		2.453333632	2.400071498
Lasiocampa_trifolii	2.162864125	1.327624539	1.035829825
0.7898274	0.803183889	1.100215412	0.607883744
2.558480566		2.274758054	2.239424618
Gonometa_sp	2.855385879	1.641897669	1.207365037
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Dendrolimus_pini	2.459092916	1.489080571	1.152288344
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2.827369273		2.549701987	2.501647969
Streblote_panda	2.053639337	1.242407678	0.874333355
0.929042715	0.823032211	1.037045925	0.471551696
2.242759285		1.994540141	1.881595857
Trabala_viridiana	2.207445854	1.472097928	1.14783085
0.799292292	0.73112925	1.104777227	0.896184379
2.784496044		2.5340642	2.426185825
Trichiura_crataegi	1.56942703	1.090293331	0.779596491
0.718833718	0.702904211	0.818588754	0.440121603
2.085540306		1.817631467	1.748653093
Dactyloceras_sp	2.488056919	1.89337333	1.518974311
1.053846427	0.921946454	1.428782511	0.753199914
3.452229711		3.234833525	3.047524077
Eupterote_sp	2.19420898	1.688108229	1.394276527
1.007355114	0.786687551	1.297745196	0.604906131
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Ganisa_sp	2.347095726	1.554961357	1.258785693
0.897159561	0.737701408	1.218929185	0.621996303
2.904834514		2.642602998	2.561196822
Endromis_versicolora	1.932088005	1.478710756	1.173477643
0.971971276	0.856426772	1.116939647	0.757016235
2.772314371		2.544080453	2.383779472
Gunda_sp	2.271888053	1.360962426	0.975257136
0.96643273	0.744793503	1.142420754	0.63973544
2.419410474		2.149865453	2.084433277
Therinia_sp	1.735119634	1.540141699	1.293914741
0.773420723	0.542825427	0.996073654	0.31386722
2.920587648		2.667452953	2.565717983
Agilia_tau	2.086694322	1.525886652	1.2219356
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2.891738112		2.609743772	2.570799705

Periphoba_arcae 2.093456707 1.614105911 1.335558188
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Attacus_atlas 3.051628659 2.029654417 1.750816843
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Actias_isabelae 2.51771041 1.712715376 1.430075056
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Saturnia_pyri 2.931648532 1.794398324 1.516270883
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Bunaea_alcinoe 2.943609503 1.92710975 1.635684763
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Ludia_sp 2.050778006 1.436469406 1.099680641
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Orthogoniophtilum_sp 1.960720417 1.493467425 1.208172527
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Acherontia_atropos 3.063352655 1.720593381 1.247482261
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Cocytius_antaes 3.334021252 1.90649666 1.371898695
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Xanthopan_morgani 3.050959343 1.790393665 1.318063335
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Enyo_lugubris 2.586148288 1.469822016 0.979092901
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Deilephila_porcellus 2.056834021 1.345889876 0.838849091
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Hyles_livornica 2.549898383 1.558288012 1.053462605
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Leucostrophus_commasiae 2.089381409 1.276456215 0.875639937
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Macroglossum_stellatarum 1.847905655 1.263193039 0.73239376
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Nephele_aequivalens 2.862788148 1.682464068 1.25163822
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Microniinae_indet 1.718379894 1.543707667 1.298197867
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Chrysiridia_rhipheus 2.42239959 1.708182865 1.435047641
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Urania_leilus 2.156794989 1.65301465 1.301029996
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Epicopeia_sp 2.455119065 1.776010703 1.409341269
 1.009012981 0.773640193 1.033628791 0.593817531 3.066635227 2.950909815
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 Sematura_empedocles 2.135768515 1.503790683 1.228272002
 0.804139432 0.52179165 0.946452265 0.091666958 2.026001817 2.060660074
 2.344706581
 Rhodometra_sacraria 0.575187845 0.97806405 0.595496222
 0.349065672 0.244294443 0.583148878 -0.04486569 1.474944335 1.338655666
 1.713154402
 Rhodostrophia_pudorata 1.093071306 1.208575709 0.875639937
 0.523746467 0.352182518 0.910357557 0.123851641 1.960042456 1.939968291
 2.251151343
 Rhodostrophia_sp 1.03702788 1.219715476 0.893206753
 0.552668216 0.353146546 0.96449534 0.249198357 1.985606083 1.955543442
 2.27186483
 Problepsis_sp 1.197556213 1.248860577 0.940058042
 0.67741531 0.415507536 0.9440284 0.247052175 1.998869364 1.898999271
 2.252828768
 Cinglis_andalusiaria 0.835690571 0.984806252 0.697752274
 0.508704748 0.327849155 0.675411694 0.175888541 1.539201599 1.446070936
 1.796157877
 Idaea_spB 0.148975795 0.866494097 0.478566496
 0.203119955 0.117913974 0.840116763 -0.09772508 1.246005904 1.036229544
 1.454692449
 Idaea_spA 0.347330015 1.010299957 0.636487896
 0.308564414 0.176091259 0.685741739 -0.00656377 1.573683693 1.4407517
 1.813314059
 Adactylotis_gesticularia 1.005180513 1.231600063 0.928395852
 0.513274881 0.334292872 0.890979597 0.21198773 2.020816887 1.940815209
 2.28368559
 Melanchroia_sp 1.08170727 1.245759356 0.896884308
 0.558912473 0.273464273 0.761830149 -0.070172519 2.023087767 1.898560645
 2.26630227
 Milionia_sp 1.789651209 1.471125885 1.14542018
 0.812110841 0.656673046 1.07468116 0.412611726 2.418102332 2.325515663
 2.675301639
 Peribatodes_umbrarius 1.199206479 1.245636029 0.942008053
 0.564092569 0.507366842 0.978573572 0.196109098 2.067405658 1.91892109
 2.300508529
 Colotois_pennaria 1.794691624 1.361893025 1.037824751
 0.764848357 0.705585777 1.033705151 0.472610198 2.249809609 2.146314122
 2.502167558
 Ennomos_fuscantarius 1.629265073 1.188093949 0.864511081
 0.687256885 0.613174546 0.778019494 0.474544047 1.932169246 1.836070809
 2.187802639
 Gnophos_ambiguatus 0.632457292 1.181567495 0.877371346
 0.508109361 0.300856243 0.737560762 0.028144068 1.912912551 1.825296264
 2.172340174
 Crocallis_albarracina 1.531505842 1.202986897 0.915399835
 0.748271776 0.617387257 1.01244534 0.309949384 2.02341709 1.929061124
 2.279826582
 Petrophora_convergata 0.758911892 1.08475139 0.702473619
 0.475903525 0.311886248 0.773036384 0.084173967 1.640481437 1.637939802
 1.940242474
 Comptosia_jourdanaria 1.126131407 1.290118122 0.858290506
 0.597958315 0.504942961 0.931086477 0.2214338 2.071550639 2.033021445
 2.353743171

Thetidia_smaragdaria	0.585371634	1.037163052	0.761175813
0.411240796	0.249286431	0.730846043	0.064963124
1.950413539			
Dysphania_sp	2.115943177	1.583595468	1.236033147
0.946245877	0.659535907	1.249416062	0.478422188
2.975918681			
Victoria_sp	1.631646663	1.350248018	1.004321374
0.683947131	0.447158031	0.974694721	0.44074383
2.471203669			
Crinodes_bellatrix	2.72928631	1.641077313	1.230704314
1.045929003	0.957516301	1.52084104	1.0047039
2.992266249			
Clostera_pigra	1.425557654	1.015902784	0.716420734
0.592619513	0.629575642	0.831026762	0.35973677
1.922699514			
Anaphe_sp	1.351680377	1.322322686	0.973127854
0.716837723	0.549003262	0.99409709	0.36267093
2.421455847			
Thaumetopoea_pytiocampa	1.924854907	1.249247289	0.889301703
0.728313192	0.767786434	0.927139294	0.455530047
2.287488208			
Pterostoma_palpinum	1.801160342	1.286153211	0.891537458
0.809256613	0.680290178	1.09684052	0.506166665
2.378688545			
Lirimiris_sp	2.267828542	1.653309013	1.147985321
1.079000252	1.016615548	1.331224781	0.700270937
2.886874089			
Cerura_iberica	2.282130723	1.513377585	1.133219457
0.989051731	0.975243488	1.152328027	0.922279908
2.766476053			
Dicranura_ulmi	1.693598003	1.23009112	0.712649702
0.755112266	0.767304317	0.946820571	0.471291711
2.092439911			
Dioptriini_indet	1.127752516	1.315287946	0.948564551
0.599566511	0.375755035	0.953073167	0.31703903
2.330778914			
Nola_thymula	0.349277527	0.946113147	0.494672793
0.312901635	0.259987862	0.529520181	0.00383736
1.681738582			
Eligma_sp	2.144511939	1.562768543	1.10002573
0.947188566	0.739967697	1.192706807	0.455606113
2.865873528			
Earias_insulana	1.149988456	1.179379418	0.816251246
0.603404222	0.458154191	0.571382697	0.298863988
2.087461966			
Bena_bicolorana	1.942677591	1.36125552	0.929418926
0.877515319	0.82821184	1.137298713	0.727569721
2.525854303			
Eutelia_adulatrix	1.369957607	1.127716916	0.742367653
0.677556769	0.669962727	0.795567213	0.52544003
1.941312625			
Cleonymia_yvanii	1.321132199	1.052282148	0.588002641
0.641999309	0.601402624	0.818918364	0.313877761
2.108886229			
Cucullia_chamomillae	1.887954704	1.344479288	0.88422877
0.895832941	0.855644231	1.179901028	0.625826713
2.356312741			

Cucullia_verbasci	1.933993164	1.350674348	0.898725182
0.878808932	0.85324178	1.246313893	0.632963168
2.363799945			2.113441954
			2.005395032
Cucuillia_argentea	1.512684396	1.234770295	0.827692289
0.678973376	0.723865964	0.880241776	0.463892989
2.193347256			1.920018916
			1.862727528
Autographa_gamma	1.650164316	1.299502287	0.900073676
0.779041365	0.660331765	0.999489947	0.440430071
2.351137248			2.073273126
			2.025635706
Acontia_lucida	1.365768688	1.151800254	0.822009441
0.652647564	0.625718769	0.838842797	0.409865524
2.111850363			1.804037153
			1.817499262
Tyta_luctuosa	1.280805928	1.048280564	0.714371678
0.569789276	0.456054627	0.650224931	0.273857435
1.971113422			1.659345636
			1.680562122
Amphipyra_piramidea	2.050661458	1.384164456	1.013642663
0.838816045	0.862448931	1.151638634	0.734516206
2.585528258			2.324928721
			2.239913938
Heliothis_peltigera	1.82820352	1.244768572	0.844477176
0.836978649	0.728720827	0.970638534	0.584896344
2.287398589			2.008131562
			1.96345726
Bryophila_ravula	0.893386949	1.039464288	0.666128204
0.450110482	0.429070435	0.7099929	0.208542125
1.916415653			1.623362753
			1.607259292
Mesoligia_furuncula	0.715395052	0.946622707	0.552782249
0.420714687	0.402496268	0.684330229	0.100456706
1.691783342			1.413431784
			1.3668251
Mythimna_sicula	1.528124722	1.150429752	0.721571564
0.733540912	0.647360961	0.864942195	0.335030919
2.114563731			1.820898553
			1.806041865
Noctua_sp	2.213198892	1.375663614	0.935759104
0.882188584	0.828427867	1.087401599	0.832087187
2.489100287			2.196921945
			2.179034466
Noctua_comes	1.746836511	1.293427749	0.88810364
0.840200223	0.80611211	1.037675449	0.632447169
2.418458736			2.110252917
			2.124487922
Epimecia_ustula	0.889021422	1.080441584	0.623861524
0.509347039	0.510021933	0.803569772	0.130888346
1.920563401			1.626551303
			1.612400237
Eucoptocnemis_optabilis	1.858264929	1.265512375	0.875682584
0.730977584	0.758234197	1.012944942	0.592117329
2.338695419			2.054095933
			2.02058878
Scoliopteryx_libatrix	1.620874963	1.273966302	0.928126383
0.73364257	0.604269264	0.904306613	0.449435199
2.380099864			2.113361216
			2.041837002
Hypena_sp	0.965056271	1.114299495	0.665010312
0.533066297	0.524707612	0.904687285	0.30363769
2.049555048			1.713296312
			1.781109309
Leucoma_salicis	1.425869889	1.204716727	0.866287339
0.689708333	0.616816724	0.857302336	0.217549741
2.25851756			2.000802703
			1.909368793
Limantria_dispar	1.567628503	1.292876049	0.980003372
0.709481967	0.596981743	1.018887654	0.375663614
2.470572182			2.182756931
			2.155912689
Euproctis_chrysorrhoea	1.627570664	1.314891432	0.933234129
0.720159303	0.627365857	0.854306042	0.372912003
2.405158461			2.148016208
			2.055301864

Ocneria_rubea	1.064247018	1.089799173	0.764176132
0.691435152 0.584952816 0.77015216 0.221414238 1.776846409 1.688241796 2.035829825			
Orgyia_trigotephras	1.56074783	1.119032075	0.806179974
0.517529604 0.348475616 0.711121178 0.086481934 1.843544212 1.8309093 2.138302698			
Agylla_sp	1.499412126	1.307491759	0.727842068
0.746712023 0.688406473 0.884880289 0.414672578 1.951288937 1.95124035 2.25229464			
Eilema_caniola	0.849670156	1.102845164	0.476831629
0.462023445 0.353627759 0.80417352 0.181700704 1.522183318 1.716837723 1.93135615			
Eilema_uniola	0.72151156	1.083197989	0.532754379
0.306667346 0.260531721 0.632954846 0.063593394 1.529943402 1.687172105 1.916664465			
Lithosia_quadra	1.493457025	1.322410575	0.851869601
0.623766 0.683679239 0.982274553 0.494776172 2.062168173 2.161128325 2.415490852			
Paidia_rica	0.759513281	1.154922198	0.83793296
0.505794156 0.390396318 0.732125862 0.102274161 1.873406509 1.823583379 2.150239024			
Syntomini_indetA	1.418465801	1.256292139	1.203032887
0.672559628 0.518458183 0.859617489 0.50768853 1.914871818 1.674217946 2.112034951			
Syntomini_indetB	0.758911892	1.041303425	0.574031268
0.417509343 0.30285327 0.667783033 0.234439625 1.494988974 0.620136055 1.549371152			
Chetona_sp	1.943741766	1.482593488	1.152260818
0.780144424 0.704896587 1.108219886 0.69357747 2.444154137 2.260548373 2.663012669			
Ctenuchini_indet	1.574872429	1.331778731	0.924408521
0.723340872 0.729222208 1.019144553 0.617402547 2.142639708 1.83231727 2.315655525			
Cymbalophora_pudica	1.785865857	1.27749461	0.889861721
0.848065895 0.788910423 1.040701212 0.569724949 2.079181246 1.977540706 2.332357653			
Argina_amanda	1.486855355	1.332539447	0.942008053
0.710963119 0.451786436 1.03702788 0.409087369 2.197004728 2.119255889 2.460897843			
Euplagia_quadripunctaria	1.429994384	1.408027856	1.031307454
0.697447307 0.667686382 1.058710652 0.349277527 2.328726085 2.324704195 2.627749792			
Utetheisa_pulchella	1.174205227	1.260663963	0.76789391
0.585297133 0.572479515 0.966918073 0.362826344 1.945862324 2.04752797 2.300693287			
Chetone_sp	1.569139725	1.594005602	1.206960729
0.871864702 0.671172843 1.219322508 0.446381812 2.691426314 2.490056852 2.903339635			
Amastus_aconia	2.242069112	1.579361097	1.130308032
1.007845888 0.931030486 1.044006364 0.740905219 2.597080597 2.368668004 2.798750749			
Pelochyta_sp	1.64738297	1.391178667	0.934129649
0.865554033 0.764512375 1.030745407 0.606897052 2.206771923 2.033946203 2.429929836			
Viviennea_sp	1.713868391	1.233693976	0.785863476
0.783557899 0.727461954 0.855584265 0.508459014 1.908994078 1.560862695 2.069945454			

Nyctemera_sp 1.277838333 1.37314381 1.026239005
 0.661869452 0.396757118 1.042898259 0.326591855 2.278662161 2.216719967
 2.549824455
 Arctia_caja 2.226304454 1.420682903 1.069298012
 0.974095179 0.885499954 1.043108524 0.701904433 2.387976795 2.330576096
 2.661254083
 Eucharhia_festiva 2.430735878 1.405588918 1.015778756
 0.935571869 0.918297762 1.123503623 0.821441611 2.352953912 2.275633788
 2.6170423
 Gorgone_sp 1.86003839 1.437501644 1.093036253
 0.767630732 0.647402532 1.145982212 0.533606848 2.410321618 2.302309278
 2.660694761
 Eudocima_sp 2.745839601 1.729893404 1.375206221
 1.123198075 0.919339637 1.390846827 0.906873535 2.979498296 2.883332041
 3.235101518
 Miniodes_discolor 2.312646953 1.621747346 1.312388949
 1.030397301 0.835690571 1.304490528 0.613841822 2.83774622 2.757912016
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 Autophila_cataphanes 1.34321159 1.283417704 0.933229064
 0.728597243 0.605838157 0.991764179 0.438091208 2.133882376 2.126602801
 2.431287836
 Autophila_maura 2.298285718 1.484314153 1.212453961
 0.957783383 0.848196492 1.157781219 0.617524535 2.572755465 2.49964585
 2.838767259
 Eublemma_candidana 0.544316142 0.85342441 0.45484486
 0.252367514 0.287577809 0.548941917 -0.054039296 1.259832699 1.198657087
 1.531351165
 Eublemma_polygramma 0.662683264 0.917295664 0.562292864
 0.366310867 0.307821102 0.608956371 0.10720997 1.41480628 1.268811904
 1.648945182
 Odice_jucunda 0.477121255 0.874481818 0.471291711
 0.322188273 0.220631019 0.56937391 -0.008441683 1.247482261 1.182699903
 1.517327882
 Phytometra_viridaria 0.748901719 0.967064021 0.624282096
 0.458536789 0.335903468 0.70586998 0.167730752 1.103119254 1.477555332
 1.630529571
 Thysania_pomponia 2.325808028 1.680465469 1.334654767
 1.000378804 0.998864051 1.357745519 0.618489001 2.866677143 2.753330221
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 Thysania_agrippina 2.988748418 2.037824751 1.639099634
 1.192706807 0.98686127 1.470003793 0.887121967 3.525398289 3.344620726
 3.745378581
 Ascalapha_odorata 2.823704029 1.822429399 1.533390708
 1.174350597 0.982949289 1.283251861 0.618033511 3.19440055 3.068241537
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 Letis_sp 2.211734423 1.688286309 1.378761175
 1.057437868 0.917605276 1.265925748 0.697952564 2.917248112 2.818654696
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 Catocala_dilecta 2.571050343 1.594447801 1.22685757
 0.966821986 0.798719685 1.29408026 0.787531316 2.712498177 2.616086733
 2.967992339
 Catocala_elocata 2.498069212 1.587654851 1.246005904
 1.099468275 0.997364538 1.344730145 0.87537095 2.727943647 2.679273413
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 Cyligramma_latona 2.079154086 1.598809501 1.319106059
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Dysgonia_algira 1.483657944 1.26075426 0.965906915
0.702747459 0.638686817 0.973533765 0.498827264 2.11089952 2.030260846
2.373479093

;

END;

BEGIN TREES;

Title 'Trees from "Lepidopteral.nex"';

LINK Taxa = LEP_Taxa;

TRANSLATE

1 Micropteryx_aureatella,
2 Eriocrania_sp,
3 Abantiades_hyalinatus,
4 Abantiades_magnifica,
5 Korscheltellus_lupulinus,
6 Triodia_sylvina,
7 Stigmella_spA,
8 Stigmella_spB,
9 Stigmella_spD,
10 Stigmella_spC,
11 Ectoedemia_sp,
12 Trifurcula_sp,
13 Pseudopostega_sp,
14 Adela_spA,
15 Adela_spB,
16 Cauchas_spA,
17 Cauchas_spB,
18 Coptotryche_sp,
19 Oreopsyche_sp,
20 Ptilocephala_sp,
21 Apterona_hecocoidella,
22 Dissoctena_granigerella,
23 Infurcitinea_albicomella,
24 Nemapogon_sp,
25 Ateliotum_sp,
26 Crassicornella_agenjoi,
27 Tineola_bisselliella,
28 Phyllonorycter_spA,
29 Phyllonorycter_spB,
30 Phyllonorycter_spC,
31 Prays_oleae,
32 Distagmos_ledereri,
33 Leucoptera_sp,
34 Phyllobrostis_sp,
35 Yponomeuta_malinellus,
36 Yponomeuta_padella,
37 Yponomeuta_gigas,
38 Plutella_xylostella,
39 Oegoconia_sp,
40 Stibaromacha_ratella,
41 Symmocoides_oxibiella,
42 Eurodachtha_sp,
43 Batia_sp,
44 Minetia_sp,
45 Pleurota_spA,
46 Pleurota_spB,
47 Pleurota_spC,

48 Pleurotini_indet,
49 Elachistidae_indet,
50 Agonopteryx_sp,
51 Exaeretia_lutosella,
52 Ethmia_bipunctella,
53 Ethmia_fumidella,
54 Eteobalea_spB,
55 Eteobalea_spA,
56 Pyroderces_sp,
57 Vulcaniella_sp,
58 Aproaerema_anthyllidella,
59 Aproaerema_sp,
60 Crossobela_trinotella,
61 Syncopacma_sp,
62 Aristotelia_sp,
63 Aristotelia_subericinella,
64 Isophrictis_sp,
65 Metzneria_spB,
66 Metzneria_spA,
67 Ornativalva_sp,
68 Apatetris_sp,
69 Epidola_barcinonella,
70 Epidola_sp,
71 Nothris_sp,
72 Gelechiidae_indetD,
73 Mirificarma_lentiginosella,
74 Elachista_sp,
75 Coleophora_spA,
76 Coleophora_spB,
77 Coleophora_spC,
78 Coleophora_spD,
79 Coleophora_spE,
80 Coleophora_spF,
81 Blastobasis_phycidella,
82 Scythris_dissimilella,
83 Scythris_scopolella,
84 Scythris_spA,
85 Scythris_tributella,
86 Alucita_sp,
87 Gypsochares_sp,
88 Merryfeldia_sp,
89 Merryfeldia_tridactylus,
90 Ochromolopis_ictella,
91 Ochromolopis_spB,
92 Pterophorus_sp,
93 Cydia_fagiglandana,
94 Cydia_coniferana,
95 Eucosmini_indet,
96 Gypsonoma_aceriana,
97 Notocelia_sp,
98 Pseudococcyx_tessulatana,
99 Phaneta_sp,
100 Endothenia_marginana,
101 Aethes_sp,
102 Agapeta_hamana,
103 Cochylimorpha_meridiana,
104 Phalonidia_contractana,
105 Phalonidia_sp,

106 Cnephasia_sp,
107 Exapate_sp,
108 Archips_rosana,
109 Clepsis_consimilana,
110 Clepsis_unicolorana,
111 Sparganothis_sp,
112 Brachodes_funebris,
113 Amauta_papilionaris,
114 Telchin_licus,
115 Gazera_heliconioides,
116 Dyspessa_ulula,
117 Cossus_cossus,
118 Xyleutes_crassa,
119 Zeuzera_pyrina,
120 Sesia_apiformis,
121 Sesia_melanocephala,
122 Bembecia_sp,
123 Pyropteron_chrysidiformis,
124 Synanthedon_sp,
125 Trosia_sp,
126 Hoyosia_codeti,
127 Parasa_sp,
128 Heterogynis_paradoxa,
129 Zygaena_sp,
130 Zygaena_trifolii,
131 Aglaope_infausta,
132 Eterusia_aedea,
133 Histia_flabellicornis,
134 Harrisina_americana,
135 Adscita_geryon,
136 Jordanita_notata,
137 Marmax_hyparchus,
138 Thyris_fenestrella,
139 Parnassius_mnemosyne,
140 Zerynthia_rumina,
141 Iphiclides_podalirius,
142 Troides_magellanus,
143 Papilio_machaon,
144 Papilio_fuscus,
145 Papilio_gallienus,
146 Papilio_zalmoxis,
147 Pyrrhochalcia_iphis,
148 Aguna_sp,
149 Chioides_sp,
150 Carchadorus_alceae,
151 Erynnis_tages,
152 Pyrgus_malvoides,
153 Perichares_sp,
154 Hesperia_comma,
155 Thymelicus_lineola,
156 Dismorphia_nemesis,
157 Leptidea_sinapis,
158 Gonepteryx_rhamni,
159 Colotis_evagore,
160 Hebomoia_leucippe,
161 Euchloe_crameri,
162 Anthocharis_euphenoides,
163 Pieris_rapae,

164 Hamearis_lucina,
165 Napaea_sp,
166 Ancyluris_aulestes,
167 Lyropteryx_apollonia,
168 Favonius_quercus,
169 Pseudolycaena_dama,
170 Satyrium_esculi,
171 Lycaena_phlaeas,
172 Lycaena_virgaureae,
173 Aricia_cramera,
174 Celastrina_argiolus,
175 Glaucopsyche_melanops,
176 Scolitantides_panoptes,
177 Scolotantides_abencerragus,
178 Greta_morgane,
179 Idea_leuconoe,
180 Ideopsis_gaura,
181 Euphaedra_sp,
182 Acraea_bonasia,
183 Bematistes_excisa,
184 Boloria_selene,
185 Heliconius_charitonia,
186 Charaxes_jasius,
187 Prepona_demophon,
188 Coenonympha_pamphilus,
189 Kanetisa_circe,
190 Pierella_hyceta,
191 Caligo_brasiliensis,
192 Morpho_sp,
193 Ancylolema_tentaculella,
194 Agriphila_sp,
195 Catoptria_spA,
196 Catoptria_spB,
197 Chrysoteuchia_culmella,
198 Metacrambus_pallidellus,
199 Pediasia_sp,
200 Emprepes_pudicalis,
201 Eurrhysis_sp,
202 Loxostege_sticticalis,
203 Pyrausta_despicata,
204 Pyrausta_sanguinalis,
205 Pyrausta_sp,
206 Pyrausta_cespitalis,
207 Pyraustini_indetA,
208 Sitochroa_palealis,
209 Udea_ferrugalis,
210 Udea_numeralis,
211 Uresiphita_gilvata,
212 Eudonia_murana,
213 Eudonia_truncicolella,
214 Cadarena_sp,
215 Nomophila_noctuella,
216 Parotis_sp,
217 Siga_liris,
218 Stemorrages_sp,
219 Terastia_sp,
220 Galleria_melonella,
221 Ematheudes_punctellus,

222 *Ephestia*_sp,
223 *Homoeosoma*_sinuella,
224 *Myelois*_cribrella,
225 *Oncocera*_semirrubella,
226 *Pempeliella*_sororiella,
227 *Phycitini*_indetC,
228 *Phycitini*_indetA,
229 *Phycitini*_indetB,
230 *Phycitini*_indetD,
231 *Plodia*_interpunctella,
232 *Ephestia*_kuehniella,
233 *Oxybia*_transversella,
234 *Pyralis*_farinalis,
235 *Synaphe*_bombycalis,
236 *Synaphe*_chellalalis,
237 *Synaphe*_punctalis,
238 *Toccolosida*_sp,
239 *Lacosoma*_chiridota,
240 *Axia*_margarita,
241 *Cilix*_glaucata,
242 *Watsonalla*_uncinula,
243 *Tethea*_ocularis,
244 *Phyllodesma*_sp,
245 *Malacosoma*_americana,
246 *Malacosoma*_castrensis,
247 *Lasiocampa*_quercus,
248 *Lasiocampa*_trifolii,
249 *Gonometa*_sp,
250 *Dendrolimus*_pini,
251 *Streblote*_panda,
252 *Trabala*_viridiana,
253 *Trichiura*_crataegi,
254 *Dactyloceras*_sp,
255 *Eupterote*_sp,
256 *Ganisa*_sp,
257 *Endromis*_versicolora,
258 *Gunda*_sp,
259 *Therinia*_sp,
260 *Aglia*_tau,
261 *Periphoba*_arcaeii,
262 *Attacus*_atlas,
263 *Actias*_isabelae,
264 *Saturnia*_pyri,
265 *Bunaea*_alcinoe,
266 *Ludia*_sp,
267 *Orthogonioptilum*_sp,
268 *Acherontia*_atropos,
269 *Cocytius*_antaeus,
270 *Xanthopan*_morgani,
271 *Enyo*_lugubris,
272 *Deilephila*_porcellus,
273 *Hyles*_livornica,
274 *Leucostrophus*_commasiae,
275 *Macroglossum*_stellatarum,
276 *Nephele*_aequivalens,
277 *Microniinae*_indet,
278 *Chrysidia*_rhipheus,
279 *Urania*_leilus,

280 *Epicopeia*_sp,
281 *Sematura*_empedocles,
282 *Rhometra*_sacraria,
283 *Rhodostrophia*_pudorata,
284 *Rhodostrophia*_sp,
285 *Problepsis*_sp,
286 *Cinglis*_andalusiaria,
287 *Idaea*_spB,
288 *Idaea*_spA,
289 *Adactylotis*_gesticularia,
290 *Melanchroia*_sp,
291 *Milionia*_sp,
292 *Peribatodes*_umbrarius,
293 *Colotois*_pennaria,
294 *Ennomos*_fuscantarius,
295 *Gnophos*_ambiguatus,
296 *Crocallis*_albarracina,
297 *Petrophora*_convergata,
298 *Comptosia*_jourdanaria,
299 *Thetidia*_smaragdaria,
300 *Dysphania*_sp,
301 *Victoria*_sp,
302 *Crinodes*_bellatrix,
303 *Clostera*_pigra,
304 *Anaphe*_sp,
305 *Thaumatococcus*_pytiocampa,
306 *Pterostoma*_palpinum,
307 *Lirimiris*_sp,
308 *Cerura*_iberica,
309 *Dicranura*_ulmi,
310 *Diopatra*_indet,
311 *Nola*_thymula,
312 *Eligma*_sp,
313 *Earias*_insulana,
314 *Bena*_bicolorana,
315 *Eutelia*_adulatrix,
316 *Cleonymia*_yvanii,
317 *Cucullia*_chamomillae,
318 *Cucullia*_verbasci,
319 *Cucullia*_argentea,
320 *Autographa*_gamma,
321 *Acontia*_lucida,
322 *Tyta*_luctuosa,
323 *Amphipyra*_pyramidea,
324 *Heliothis*_peltigera,
325 *Bryophila*_ravula,
326 *Mesoligia*_furuncula,
327 *Mythimna*_sicula,
328 *Noctua*_sp,
329 *Noctua*_comes,
330 *Epimecia*_ustula,
331 *Euclyptocnemis*_optabilis,
332 *Scoliopteryx*_libatrix,
333 *Hypena*_sp,
334 *Leucoma*_salicis,
335 *Limantria*_dispar,
336 *Euproctis*_chrysorrhoea,
337 *Ocnaria*_rubea,

338 *Orgyia_trigotephras*,
 339 *Agylla_sp*,
 340 *Eilema_caniola*,
 341 *Eilema_uniola*,
 342 *Lithosia_quadra*,
 343 *Paidia_rica*,
 344 *Syntomini_indetA*,
 345 *Syntomini_indetB*,
 346 *Chetona_sp*,
 347 *Ctenuchini_indet*,
 348 *Cymbalophora_pudica*,
 349 *Argina_amanda*,
 350 *Euplagia_quadripunctaria*,
 351 *Utetheisa_pulchella*,
 352 *Chetone_sp*,
 353 *Amastus_aconia*,
 354 *Pelochyta_sp*,
 355 *Viviennea_sp*,
 356 *Nyctemera_sp*,
 357 *Arctia_caja*,
 358 *Eucharia_festiva*,
 359 *Gorgone_sp*,
 360 *Eudocima_sp*,
 361 *Miniodes_discolor*,
 362 *Autophila_cataphanes*,
 363 *Autophila_maura*,
 364 *Eublemma_candidana*,
 365 *Eublemma_polygramma*,
 366 *Odice_jucunda*,
 367 *Phytometra_viridaria*,
 368 *Thysania_pomponia*,
 369 *Thysania_agrippina*,
 370 *Ascalapha_odorata*,
 371 *Letis_sp*,
 372 *Catocala_dilecta*,
 373 *Catocala_elocata*,
 374 *Cyligramma_latona*,
 375 *Dysgonia_algira*;

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