SUPPORTING INFORMATION

**Temporal variation in the influence of forest succession on caterpillar communities: a long-term study in a tropical dry forest**

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Table S1. Host plant species found along the transects established in a chronosequence of tropical dry forest succession in Chamela, Jalisco, México, including recently abandoned pastures and early (3-5 years), intermediate (8-12 years) secondary forest and mature forest plots.

|  |  |
| --- | --- |
| **Family** | **Species** |
| Acanthaceae | Acanthaceae sp.1 |
|  | Acanthaceae sp.3 |
|  | *Justicia candicans* |
|  | *Ruellia foetida* |
| Achatocarpaceae | *Achatocarpus gracilis* |
| Amaranthaceae | *Lagrezia monosperma* |
| Anacardiaceae | *Spondias purpurea* |
| Apocynaceae | *Rauvolfia tetraphylla* |
|  | *Stemmadenia donnell-smithii* |
|  | *Thevetia ovata* |
| Asteraceae | *Liabum caducifolium* |
|  | *Otopappus tequilanus* |
| Bignoniaceae | *Adenocalymma inundatum* |
|  | *Clytostoma binatum* |
|  | *Tabebuia chrysantha* |
|  | *Tabebuia impetiginosa* |
| Bombacaceae | *Ceiba grandiflora* |
| Boraginaceae | *Bourreria purpusii* |
|  | *Cordia aff. Gerascanthus* |
|  | *Cordia alliodora* |
|  | *Cordia elaeagnoides* |
|  | *Cordia* sp. 1 |
|  | *Tournefortia* sp. |
| Burseraceae | *Bursera instabilis* |
|  | *Bursera* sp. 1 |
|  | *Bursera* sp. 2 |
| Capparaceae | *Capparis flexuosa* |
|  | *Capparis indica* |
|  | *Capparis verrucosa* |
|  | *Crateva tapia* |
|  | *Forchhammeria pallida* |
|  | *Forchhammeria sessiliflora* |
| Caricaceae | *Jacaratia mexicana* |
| Celastraceae | *Hpp. Hemiangium excelsum* |
|  | *Pristimera celastroides* |
| Cochlospermaceae | *Cochlospermun vitifolium* |
| Convonvulaceae | *Ipomoea wolcottiana* |
| Ebenaceae | *Diospyros aequoris* |
| Erythroxylaceae | *Erythroxylum havanense* |
|  | *Erythroxylum rotundifolium* |
| Euphorbiaceae | Acalypha sp. 1 |
|  | Acalypha sp. 2 |
|  | *Cnidoscolus spinosus* |
|  | *Croton alamosanus* |
|  | *Croton niveus* |
|  | *Croton pseudoniveus* |
|  | *Croton roxanae* |
|  | *Croton septemnervius* |
|  | *Croton suberosus* |
|  | *Jatropha platyphylla* |
|  | *Phyllanthus botryanthus* |
|  | *Phyllanthus mocinianus* |
| Flacourtiaceae | *Casearia aculeata* |
|  | *Casearia nitida* |
|  | *Casearia sylvestris* |
|  | *Casearia tremula* |
|  | *Prockia crucis* |
|  | *Samyda mexicana* |
| Hernandiaceae | *Gyrocarpus jatrophifolius* |
| Leguminosae | *Acacia angustissima* |
|  | *Acacia farnesiana* |
|  | *Acacia macracantha* |
|  | *Aeschynomene amorphoides* |
|  | *aff. Calliandra emarginata* |
|  | *aff. Lonchocarpus sp.* |
|  | *Albizia occidentalis* |
|  | *Albizia tomentosa* |
|  | *Apoplanesia paniculata* |
|  | *Bauhinia pauletia* |
|  | *Caesalpinia caladenia* |
|  | *Caesalpinia coriaria* |
|  | *Caesalpinia eriostachys* |
|  | *Caesalpinia platyloba* |
|  | *Calliandra emarginata* |
|  | *Chloroleucon mangense* |
|  | *Coursetia caribaea* |
|  | *Dalbergia congestiflora* |
|  | *Diphysa occidentalis* |
|  | *Leguminosae sp. 8* |
|  | *Leguminosae sp. 9* |
|  | *Leucaena lanceolata* |
|  | *Lonchocarpus eriocarinalis* |
|  | *Lonchocarpus guatemalensis* |
|  | *Lonchocarpus sp. 2* |
|  | *Lonchocarpus sp. 4* |
|  | *Lonchocarpus sp. A* |
|  | *Lonchocarpus sp. F* |
|  | *Lonchocarpus sp. K* |
|  | *Lonchocarpus sp. L* |
|  | *Lonchocarpus sp. Q* |
|  | *Lonchocarpus sp. R* |
|  | *Lysiloma microphyllum* |
|  | *Mimosa arenosa Poir. var. leiocarpa* |
|  | *Mimosa sp. 2* |
|  | *Myrospermun frutescens* |
|  | *Piptadenia constricta* |
|  | *Piscidia carthagenensis* |
|  | *Platymiscium lasiocarpum* |
|  | *Pterocarpus orbiculatus* |
|  | *Senna mollissima* |
|  | *Senna pallida* |
|  | *Zapoteca formosa* |
| Malpigiaceae | *Bunchosia palmeri* |
|  | *Hiraea reclinata* |
|  | *Malphigia emilae* |
| Malvaceae | *Malvaceae sp.1* |
| Meliaceae | *Trichilia trifolia L.* |
| Myrtaceae | *Psidium sartorianum* |
| Nyctaginaceae | *Guapira macrocarpa* |
|  | *Nyctaginaceae sp.1* |
| Polygonaceae | *Coccoloba liebmannii* |
|  | *Coccoloba venosa L.* |
|  | *Podopterus mexicanus* |
|  | *Ruprechtia fusca* |
| Rhamnaceae | *Colubrina triflora* |
|  | *Karwinskia latifolia* |
| Rubiaceae | *Guettarda elliptica* |
|  | *Hintonia latiflora* |
|  | *Machaonia acuminata* |
|  | *Randia aculeata* |
|  | *Randia sp. 1* |
|  | *Randia thurberi* |
|  | *Rubiaceae sp. 3* |
| Rutaceae | *Esenbeckia berlandieri* |
|  | *Esenbeckia nesiotica* |
|  | *Zanthoxyllum caribaeum* |
|  | *Zanthoxylum fagara* |
|  | *Zanthoxylum sp. 1* |
|  | *Zanthoxylum sp. 2* |
|  | *Zanthoxylum sp. 3* |
| Sapindaceae | *Serjania brachycarpa* |
|  | *Thouinia paucidentata* |
|  | *Thouinidium decandrum* |
| Sterculiaceae | *Ayenia micrantha* |
|  | *Guazuma ulmifolia* |
| Theophrastaceae | *Jacquinia pungens* |
| Tiliaceae | *Heliocarpus pallidus* |
| Ulmaceae | *Celtis iguanaea* |
| Verbenaceae | *Lippia mcvaughii* |

Table S2. List of morphospecies and identified species collected between 2007- 2014 in four successional stages of the tropical dry forest in the Chamela region in Jalisco, Mexico. Availability of adult and larva pictures are indicated in the last two columns, and are available upon request. The identified caterpillars belong to 36 lepidopteran families (Supplementary material Appendix 1, Table A1). Three of these families, Erebidae (25%), Megalopygidae (10%) and Psychidae (10%), represented 45 % of the total number of sampled caterpillars, followed by Tortricidae, Geometridae and Crambidae with about 8% each. Of the 451 putative species obtained, 161 were singletons and 81 doubletones. Thirty seven species had more than 50 individuals, whereas the following five species were highly abundant, with more than 500 individuals observed over the span of the study: *Orgya* new sp (Erebidae, Lymantrinae) with 13% of the individuals, BIN BOLD:ACZ0298 (Erebidae, Lymantrinae) with 8%, *Platynota flavedana* (Tortricidae, Tortricinae) with 6% ; *Hylesia continua* (Saturniidae, Hemileucinae) with 4% and BIN BOLD:ACY9633 (Psychidae) with 4 %).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Morph** | **BIN BOLD** | **Family** | **Subfamily** | **Species** | **Adult** | **Larva** | |
| O309 |  | Agaristinae |  |  |  | x | |
| O269 |  | Agarsitinae |  |  |  | x | |
| O33 | BOLD:AAY5330 | Apatelodidae | Apatelodinae | *Apatelodes palma* | x |  | |
| O336 | BOLD:AAE9146 | Crambidae | Evergestinae | *Symphysa lepidaria* | x | x | |
| O27 |  | Crambidae | Glaphyriinae | *cf. Cosmopterosis jasonhalli* |  | x | |
| O623 | BOLD: AAC6360 | Crambidae | Spilomelinae | *cf. Lygropia cernalis* | x |  | |
| O378 | BOLD:AAA0364 | Crambidae | Spilomelinae | *cf. Conchylodes salamisalis* | x | x | |
| O366 | BOLD:AAA2298 | Crambidae | Spilomelinae | *cf. Omiodes cuniculalis* |  | x | |
| O66 | BOLD:AAA4651 | Crambidae | Spilomelinae | *Dichocrocis sabatialis* | x | x | |
| O96 | BOLD:AAA9669 | Crambidae | Spilomelinae | *Syllepis hortalis* | x | x | |
| O65 | BOLD:AAB1109 | Crambidae | Spilomelinae | *Syllepte amando* | x |  | |
| O69 | BOLD:AAB4218 | Crambidae | Spilomelinae | *Diaphania prob. jairusalis* | x | x | |
| O362 | BOLD:AAB5228 | Crambidae | Spilomelinae | *Phostria citrinalis* | x | x | |
| O550 | BOLD:AAC7140 | Crambidae | Spilomelinae | *cf. Lygropia tripunctata* |  | x | |
| O26 | BOLD:AAT9541 | Crambidae | Spilomelinae | *Psara prumnides* | x | x | |
| O109 | BOLD:AAU2143 | Crambidae | Spilomelinae | *Pilocrocis calamistis* | x | x | |
| O435 | BOLD:ACE4499 | Crambidae | Spilomelinae | *Lygropia tripunctata* | x |  | |
| O191 |  | Crambidae | Spilomelinae | *Chilochromopsis sceletogramma* | | | x | |
| O134 | BOLD:ADE2931 | Crambidae |  |  |  | x | |
| O622 |  | Crambidae |  |  | x | x | |
| O161 | BOLD:AAE7803 | Dalceridae | Acraginae | *cf. Dalcerides sp.* | x | x | |
| O260 |  | Dalceridae |  | *Dalceridaes sofia* |  | x | |
| O1 |  | Dalceridae |  |  |  | x | |
| O302 |  | Dalceridae |  |  |  | x | |
| O343 |  | Dalceridae |  |  |  | x | |
| O5 |  | Dalceridae |  |  |  | x | |
| O507 |  | Dalceridae |  |  |  | x | |
| O4 |  | Depressariidae | Ethmiidae |  |  | x | |
| O185 | BOLD:AAA0904 | Depressariidae | Ethmiinae | *cf.Ethmia bittenella* |  | x | |
| O73 | BOLD:AAB3807 | Depressariidae | Ethmiinae | *Ethmia near blaineorum* | x |  | |
| O76 | BOLD:ACY9391 | Depressariidae | Ethmiinae | *Ethmia sp* | x | x | |
| O74 | BOLD:ADE2026 | Depressariidae | Ethmiinae | *Ethmia near nigritaenia* | x |  | |
| O218 |  | Depressariidae | Ethmiinae | *Ethmia delliella* |  | x | |
| O287 |  | Depressariidae | Ethmiinae | *Ethmia near similatella* |  | x | |
| O39 |  | Depressariidae | Ethmiinae |  |  | x | |
| O174 | BOLD:ACP4883 | Depressariidae |  |  |  |  | |
| O479 | BOLD:ACZ4026 | Depressariidae |  |  |  |  | |
| O31 | BOLD:ACY9758 | Doidae |  |  |  | x | |
| O300 |  | Epiplemidae |  |  |  | x | |
| O342 | BOLD:AAB0967 | Erebidae | Anobinae | *cf. Deinopa ostia* | x |  | |
| O79 | BOLD:AAB3009 | Erebidae | Anobinae | *Deinopa biligula* | x | x | |
| O125 | BOLD:AAY4837 | Erebidae | Anobinae | *Baniana sp* | x | x | |
| O585 | BOLD:AAA1317 | Erebidae | Arctiinae | *cf. Pareuchaetes insulata* |  | x | |
| O544 | BOLD:AAA1455 | Erebidae | Arctiinae | *cf. Pseudosphex leovazquezae* |  | x | |
| O114 | BOLD:AAA6879 | Erebidae | Arctiinae | *Lophocampa cf. citrina* | x | x | |
| O475 | BOLD:AAD9309 | Erebidae | Arctiinae | *cf. Cisthene polyzona* |  | x | |
| O159 | BOLD:AAE8066 | Erebidae | Arctiinae | *Psilopleura vittata* | x | x | |
| O28 | BOLD:AAJ0969 | Erebidae | Arctiinae | *cf. Euchaetes antica* |  | x | |
| O10 | BOLD:AAL7185 | Erebidae | Arctiinae | *Hypercompe confusa* | x | x | |
| O418 | BOLD:AAY7221 | Erebidae | Arctiinae |  | x | x | |
| O385 | BOLD:ACY9117 | Erebidae | Arctiinae |  |  | x | |
| O32 | BOLD:ACY9821 | Erebidae | Arctiinae |  |  |  | |
| O56 | BOLD:ACZ0298 | Erebidae | Arctiinae |  |  | x | |
| O18 |  | Erebidae | Arctiinae | *Hypercompe* |  | x | |
| O249 |  | Erebidae | Arctiinae |  |  | x | |
| O490 |  | Erebidae | Arctiinae |  |  | x | |
| O583 |  | Erebidae | Arctiinae |  | x | x | |
| O90 | BOLD:AAA3992 | Erebidae | Boletobinae | *Isogona scindens* | x | x | |
| O52 | BOLD:AAA3286 | Erebidae | Calpinae | *Gonodonta pyrgo* | x | x | |
| O247 | BOLD:AAU5837 | Erebidae | Calpinae | *Metaplusia argyra* | x | x | |
| O508 | BOLD:ACY9400 | Erebidae | Calpinae |  |  | x | |
| O38 |  | Erebidae | Catocalinae |  |  | x | |
| O416 |  | Erebidae | Catocalinae |  |  | x | |
| O465 | BOLD:AAA3313 | Erebidae | Erebinae | *cf. Coenipeta bibitrix* |  | x | |
| O71 | BOLD:AAA5911 | Erebidae | Erebinae | *cf. Helia sueroides* |  |  | |
| O68 | BOLD:AAA7258 | Erebidae | Erebinae | *Ptichodis immunis* | x | x | |
| O504 | BOLD:AAB1414 | Erebidae | Erebinae | *Zale sp.* |  | x | |
| O304 | BOLD:AAB2848 | Erebidae | Erebinae | *cf. Mimophisma delunaris* | x | x | |
| O42 | BOLD:AAB3373 | Erebidae | Erebinae | *cf. Melipotis famelica* |  | x | |
| O197 | BOLD:AAB8726 | Erebidae | Erebinae | *cf. Melipotis perpendicularis* | x | x | |
| O509 | BOLD:AAD0033 | Erebidae | Erebinae | *Zale strigimacula* |  | x | |
| O395 | BOLD:AAD5580 | Erebidae | Erebinae | *cf. Euclystis vulgaris* | x |  | |
| O196 | BOLD:ABY4634 | Erebidae | Erebinae | *cf. Zale lafontaine* |  | x | |
| O234 | BOLD:ACF4168 | Erebidae | Erebinae | *cf. Toxonprucha excavata* |  | x | |
| O167 | BOLD:ACZ0068 | Erebidae | Erebinae | *Zale sp.* | x | x | |
| O262 |  | Erebidae | Erebinae | *cf. Zale obsita* |  | x | |
| O138 |  | Erebidae | Erebinae | *Melipotis sp.* | x |  | |
| O202 |  | Erebidae | Erebinae |  |  |  | |
| O238 |  | Erebidae | Erebinae |  |  | x | |
| O298 |  | Erebidae | Erebinae |  |  | x | |
| O543 | BOLD:AAA6923 | Erebidae | Eulepidotinae | *cf. Anticarsia gemmatalis* |  |  | |
| O344 | BOLD:AAB2758 | Erebidae | Herminiinae | *Lascoria alucitalis* | x | x | |
| O47 | BOLD:ACP0456 | Erebidae | Herminiinae | *cf. Erastrofacies* |  |  | |
| O616 | BOLD:AAB6836 | Erebidae | Hypocalinae | *cf. Goniapteryx servia* |  | x | |
| O523 | BOLD:ACE9997 | Erebidae | Hypocalinae | *cf. Hypocala andremona* |  | x | |
| O30 | BOLD:AAU5465 | Erebidae | Lymantrinae | *Orgya sp.* | x | x | |
| O521 |  | Erebidae | Lymantrinae |  |  | x | |
| O12 | BOLD:AAA9135 | Erebidae | Scoliopteryginae | *Anomis editrix* |  | x | |
| O94 | BOLD:AAB4534 | Erebidae | Scoliopteryginae | *Anomis gentilis* |  | x | |
| O93 | BOLD:AAV4505 | Erebidae |  |  |  | x | |
| O157 | BOLD:ACY9949 | Erebidae |  |  |  | x | |
| O214 |  | Erebidae |  |  |  | x | |
| O254 |  | Erebidae |  |  |  | x | |
| O451 |  | Erebidae |  |  |  | x | |
| O347 | BOLD:ACZ0039 | Erebidae | Arctiinae | *Eudesmia menea* | x |  | |
| O211 | BOLD:AAA5205 | Erebidae | Erebinae | *Melipotis punctifinis* |  | x | |
| O88 | BOLD:AAD4775 | Erebidae | Erebinae | *c.f Tyrissa multilinea* |  | x | |
| O510 |  | Erebidae | Eulepidotinae | *Azeta rhodogaster* |  | x | |
| O16 | BOLD:AAY4853 | Eupterotidae | Apatelodinae | *Apatelodes pudefacta* | x | x | |
| O15 | BOLD:AAU0419 | [Euteliidae](http://www.boldsystems.org/index.php/TaxBrowser_Taxonpage?taxid=454550) | Euteliinae | *Eutelia auratrix* | x | x | |
| O469 |  | Gelechiidae |  |  |  |  | |
| O124 |  | Gelichidae |  |  |  | x | |
| O178 |  | Gelichiidae | Anacampsinae | *Compsolechia vittatiella* | x | x | |
| O323 | BOLD:ACP2134 | Gelichiidae |  |  | x | x | |
| O511 | BOLD:ACT5157 | Gelichiidae |  |  |  |  | |
| O557 | BOLD:AAA1489 | Geometridae | Ennominae | *cf. Macaria nervata* |  |  | |
| O256 | BOLD:AAA1497 | Geometridae | Ennominae | *cf. Macaria sp.* |  |  | |
| O306 | BOLD:AAA7549 | Geometridae | Ennominae | *cf. Patalene asychisaria* | x |  | |
| O36 | BOLD:AAB6277 | Geometridae | Ennominae | *Semiothisa adascea* | x | x | |
| O34 | BOLD:AAC7120 | Geometridae | Ennominae | *cf. Iridopsis perfectaria* | x | x | |
| O165 | BOLD:AAC8063 | Geometridae | Ennominae | *cf. Eusarca detractaria* | x | x | |
| O11 | BOLD:AAJ0878 | Geometridae | Ennominae | *cf. Euacidalia certissa* | x |  | |
| O268 | BOLD:AAL2359 | Geometridae | Ennominae | *cf. Thysanopyga sp.* |  | x | |
| O318 | BOLD:AAU0633 | Geometridae | Ennominae | *Synecta duplicata* | x | x | |
| O324 | BOLD:AAV4504 | Geometridae | Ennominae | *Selenia eucare* | x | x | |
| O291 | BOLD:AAV4508 | Geometridae | Ennominae |  | x | x | |
| O325 | BOLD:AAY5409 | Geometridae | Ennominae | *Melanchroia vazquezae* | x | x | |
| O270 | BOLD:AAY7369 | Geometridae | Ennominae | *Pachydia sp* | x |  | |
| O20 | BOLD:ABZ6964 | Geometridae | Ennominae | *Semiothisa sp* | x | x | |
| O154 | BOLD:ACF0168 | Geometridae | Ennominae | *Selenia sp* | x |  | |
| O502 | BOLD:ACF6435 | Geometridae | Ennominae | *Oxydia sp* | x |  | |
| O200 | BOLD:AAE6005 | Geometridae | Larentiinae | *Pterocypha sp.* | x | x | |
| O348 | BOLD:AAF9509 | Geometridae | Sterrhinae | *cf. Acratodes praepeditaria* | x | x | |
| O447 | BOLD:AAV4507 | Geometridae | Sterrhinae | *cf. Semaeopus illimitata* | x |  | |
| O133 | BOLD:ACF3325 | Geometridae | Sterrhinae | *Craspedia sp.* | x | x | |
| O346 | BOLD:ACM1392 | Geometridae | Sterrhinae | *cf. Pleuroprucha protopages* | x | x | |
| O57 | BOLD:AAV4509 | Geometridae |  |  | x |  | |
| O243 | BOLD:AAY7219 | Geometridae |  |  |  | x | |
| O101 | BOLD:ABX6110 | Geometridae |  |  | x | x | |
| O198 | BOLD:ACO6094 | Geometridae |  |  |  | x | |
| O308 | BOLD:ACY9204 | Geometridae |  |  | x | x | |
| O77 | BOLD:ACZ0296 | Geometridae |  |  |  | x | |
| O104 |  | Geometridae |  |  |  | x | |
| O105 |  | Geometridae |  |  |  | x | |
| O139 |  | Geometridae |  |  |  | x | |
| O176 |  | Geometridae |  |  |  | x | |
| O181 |  | Geometridae |  |  |  | x | |
| O183 |  | Geometridae |  |  |  | x | |
| O189 |  | Geometridae |  |  |  | x | |
| O19 |  | Geometridae |  |  |  | x | |
| O203 |  | Geometridae |  |  |  | x | |
| O209 |  | Geometridae |  |  |  | x | |
| O212 |  | Geometridae |  |  |  | x | |
| O220 |  | Geometridae |  |  |  | x | |
| O225 |  | Geometridae |  |  | x | x | |
| O239 |  | Geometridae |  |  |  | x | |
| O259 |  | Geometridae |  |  |  | x | |
| O265 |  | Geometridae |  |  |  | x | |
| O267 |  | Geometridae |  |  |  | x | |
| O275 |  | Geometridae |  |  |  | x | |
| O280 |  | Geometridae |  |  |  | x | |
| O289 |  | Geometridae |  |  |  | x | |
| O293 |  | Geometridae |  |  |  | x | |
| O297 |  | Geometridae |  |  |  | x | |
| O303 |  | Geometridae |  |  |  | x | |
| O313 |  | Geometridae |  |  |  | x | |
| O317 |  | Geometridae |  |  |  | x | |
| O330 |  | Geometridae |  |  |  | x | |
| O374 |  | Geometridae |  |  |  | x | |
| O377 |  | Geometridae |  |  |  | x | |
| O381 |  | Geometridae |  |  |  | x | |
| O41 |  | Geometridae |  |  |  | x | |
| O414 |  | Geometridae |  |  |  | x | |
| O450 |  | Geometridae |  |  |  | x | |
| O468 |  | Geometridae |  |  |  | x | |
| O49 |  | Geometridae |  |  |  | x | |
| O493 |  | Geometridae |  |  |  | x | |
| O50 |  | Geometridae |  |  |  | x | |
| O588 |  | Geometridae |  |  | x | x | |
| O59 |  | Geometridae |  |  | x | x | |
| O591 |  | Geometridae |  |  |  | x | |
| O81 |  | Geometridae |  |  |  | x | |
| O86 |  | Geometridae |  |  | x | x | |
| O97 |  | Geometridae |  |  |  | x | |
| O245 |  | Geometridae |  |  |  | x | |
| O121 |  | Geometridae |  |  |  | x | |
| O184 |  | Geometridae |  |  |  | x | |
| O310 |  | Geometridae |  |  |  | x | |
| O349 |  | Geometridae |  |  |  | x | |
| O587 |  | Geometridae |  |  |  | x | |
| O380 | BOLD:AAA6235 | Hesperiidae | Eudaminae | *Astraptes alector hofferi* | x | x | |
| O261 | BOLD:ACA2359 | Hesperiidae | Eudaminae | *Achalarus toxeus* | x | x | |
| O314 |  | Hesperiidae | Eudaminae | *Proteides mercurius mercurius* | x |  | |
| O216 | BOLD:AAB6667 | Hesperiidae | Pyrginae | *Polygonus leo arizonensis* | x | x | |
| O44 | BOLD:AAE7061 | Hesperiidae | Pyrginae | *Misoria amra* | x | x | |
| O48 | BOLD:AAI6660 | Hesperiidae | Pyrginae | *cf. Carrhenes fucescens* | x |  | |
| O241 | BOLD:AAT9515 | Hesperiidae | Pyrginae | *Celaenorrhinus moratus* | x | x | |
| O402 | BOLD:AAU7771 | Hesperiidae | Pyrginae | *Eantis tamenud* | x | x | |
| O58 | BOLD:AAY7217 | Hesperiidae | Pyrginae | *Polygonus manueli manueli* | x | x | |
| O223 | BOLD:ABY7407 | Hesperiidae | Pyrginae | *Codatractus melon* | x | x | |
| O116 |  | Hesperiidae |  |  |  | x | |
| O160 |  | Hesperiidae |  |  |  | x | |
| O248 |  | Hesperiidae |  |  |  | x | |
| O320 |  | Hesperiidae |  |  |  | x | |
| O370 |  | Hesperiidae |  |  |  | x | |
| O549 |  | Hesperiidae |  |  | x | x | |
| O290 | BOLD:AAA4944 | Immidae |  |  | x | x | |
| O328 |  | Immidae |  |  | x | x | |
| O462 | BOLD:ACY9290 | Lasiocampidae |  |  |  | x | |
| O282 | BOLD:ACU7167 | Limacodidae | Limacodinae | *cf. Euprosterna sp.* |  | x | |
| O29 | BOLD:ACZ0336 | Limacodidae | Limacodinae | *Euclea sp1* |  | x | |
| O6 | BOLD:ACZ0337 | Limacodidae | Limacodinae | *Euclea sp2* | x | x | |
| O466 |  | Limacodidae | Limacodinae | *Acharia sp* |  | x | |
| O177 |  | Limacodidae | Limacodinae | *Euclea sp3* |  | x | |
| O173 | BOLD:ACY9870 | Limacodidae |  |  |  | x | |
| O78 | BOLD:ACZ0011 | Limacodidae |  |  |  | x | |
| O100 |  | Limacodidae |  |  |  | x | |
| O142 |  | Limacodidae |  |  |  | x | |
| O215 |  | Limacodidae |  |  |  | x | |
| O271 |  | Limacodidae |  |  |  | x | |
| O423 |  | Limacodidae |  |  |  | x | |
| O54 | BOLD:ACD3925 | Megalopygidae | Megalopyginae | *Megalopyge ravida* | x | x | |
| O9 | BOLD:AAH4912 | Megalopygidae | Trosiinae | *Norape tenera* | x | x | |
| O2 |  | Megalopygidae | |  |  | x | |
| O442 |  | Megalopygidae | |  |  | x | |
| O488 |  | Megalopygidae | |  |  | x | |
| O505 |  | Megalopygidae | |  |  | x | |
| O63 |  | Megalopygidae | |  |  | x | |
| O84 |  | Megalopygidae | |  |  | x | |
| O360 | BOLD:AAB3399 | Noctuidae | Acontiinae | *cf. Spragueia dama* |  | x | |
| O252 | BOLD:AAK3774 | Noctuidae | Acontiinae | *cf. Spragueia sp.* |  | x | |
| O188 |  | Noctuidae | Agaristinae | *cf. Episthisanotia sanctijohannis* | | | x | |
| O13 | BOLD:ACZ0048 | [Noctuidae](http://www.boldsystems.org/index.php/TaxBrowser_Taxonpage?taxid=454550) | Agarsitidae | *cf. Gerra sp* | x | x | |
| O207 | BOLD:AAA0716 | Noctuidae | Amphipyrinae | *cf. Metaponpneumata rogenhoferi* | x | x | |
| O273 | BOLD:AAC4503 | Noctuidae | Amphipyrinae | *cf. Cropia europs* |  | x | |
| O319 | BOLD:ACC8901 | Noctuidae | Amphipyrinae | *cf. Chasimina mexicana* |  | x | |
| O221 | BOLD:AAB3503 | Noctuidae | Bagisarinae | *Bagisara albicosta* |  | x | |
| O126 | BOLD:AAD7394 | Noctuidae | Calpinae | *Pseudbarydia selene* |  | x | |
| O103 | BOLD:AAB8830 | Noctuidae | Condicinae | *cf. Diastema gnossia* |  | x | |
| O281 | BOLD:AAY7370 | Noctuidae | Condicinae | *Platysenta sp* |  | x | |
| O420 | BOLD:AAD1573 | Noctuidae | Hypeninae | *Hypena vetustalis* | x | x | |
| O542 | BOLD:AAA6521 | Noctuidae | Noctuinae | *cf. Spodoptera eridiana* |  |  | |
| O117 | BOLD:AAB2202 | Noctuidae | Noctuinae | *Elaphria devara* |  | x | |
| O110 |  | Noctuidae | Noctuinae | *cf. Elaphira barbarossa* |  | x | |
| O454 | BOLD:AAA5443 | Noctuidae | Noctuninae | *cf. Spodoptera latifascia* | x |  | |
| O449 | BOLD:AAY7216 | Noctuidae |  |  | x | x | |
| O284 | BOLD:AAY7371 | Noctuidae |  |  | x | x | |
| O119 |  | Noctuidae |  |  |  | x | |
| O127 |  | Noctuidae |  |  |  | x | |
| O135 |  | Noctuidae |  |  | x | x | |
| O170 |  | Noctuidae |  |  |  | x | |
| O186 |  | Noctuidae |  |  |  | x | |
| O193 |  | Noctuidae |  |  |  | x | |
| O199 |  | Noctuidae |  |  |  | x | |
| O208 |  | Noctuidae |  |  | x | x | |
| O21 |  | Noctuidae |  |  |  | x | |
| O210 |  | Noctuidae |  |  |  | x | |
| O257 |  | Noctuidae |  |  |  | x | |
| O263 |  | Noctuidae |  |  |  | x | |
| O283 |  | Noctuidae |  |  | x | x | |
| O311 |  | Noctuidae |  |  |  | x | |
| O356 |  | Noctuidae |  |  |  | x | |
| O409 |  | Noctuidae |  |  | x | x | |
| O413 |  | Noctuidae |  |  |  |  | |
| O43 |  | Noctuidae |  |  |  | x | |
| O45 |  | Noctuidae |  |  |  | x | |
| O540 |  | Noctuidae |  |  |  | x | |
| O60 |  | Noctuidae |  |  |  | x | |
| O83 |  | Noctuidae |  |  |  | x | |
| O419 |  | Noctuidae |  |  |  | x | |
| O464 |  | Noctuiidae |  |  |  | x | |
| O526 |  | Noctuiidae |  |  |  | x | |
| O575 | BOLD:AAL2563 | Notodontidae | Agaristinae | *cf. Gerrodes minatea* | x |  | |
| O448 |  | Notodontidae | Amphipyrinae | *cf. Cropia connecta* | x |  | |
| O153 | BOLD:AAA5859 | Notodontidae | Disphragiinae | *cf. Boriza crossaea* |  | x | |
| O190 | BOLD:AAA7794 | Notodontidae | Dudusinae | *cf. Cargida pyrrha* | x | x | |
| O515 | BOLD:ACO7666 | Notodontidae | Dudusinae | *cf. Crinodes* | x |  | |
| O99 | BOLD:AAA7859 | Notodontidae | Heterocampinae | *Hapigiodes xolotl Schaus* | x | x | |
| O141 | BOLD:AAC0479 | Notodontidae | Heterocampinae | *cf. Hapigiodes vazquezae* | x |  | |
| O292 | BOLD:AAN8787 | Notodontidae | Heterocampinae | *Dicentria marimba Schaus* | x | x | |
| O140 | BOLD:AAY5372 | Notodontidae | Heterocampinae | *Afilia venadia* | x | x | |
| O345 | BOLD:AAY5421 | Notodontidae | Heterocampinae | *Pseudhapigia brunnea Schaus* | x | x | |
| O321 | BOLD:ACF2397 | Notodontidae | Heterocampinae | *Schizura sp* | x | x | |
| O432 | BOLD:AAA6562 | Notodontidae | Nystaleinae | *cf. Elasmia mandela* |  |  | |
| O359 | BOLD:AAC9534 | Notodontidae | Nystaleinae | *Elymiotis notodontoides* |  | x | |
| O55 | BOLD:AAY7342 | Notodontidae | Nystaleinae | *Dasylophia eminens* | x | x | |
| O147 |  | Notodontidae | Nystaleinae |  | x |  | |
| O102 | BOLD:ABZ6935 | Notodontidae |  |  | x | x | |
| O120 |  | Notodontidae |  |  |  | x | |
| O144 |  | Notodontidae |  |  | x | x | |
| O22 |  | Notodontidae |  |  |  | x | |
| O228 |  | Notodontidae |  |  |  | x | |
| O240 |  | Notodontidae |  |  |  | x | |
| O272 |  | Notodontidae |  |  |  | x | |
| O276 |  | Notodontidae |  |  |  |  | |
| O277 |  | Notodontidae |  |  |  | x | |
| O278 |  | Notodontidae |  |  |  | x | |
| O301 |  | Notodontidae |  |  |  | x | |
| O339 |  | Notodontidae |  |  |  | x | |
| O363 |  | Notodontidae |  |  |  | x | |
| O382 |  | Notodontidae |  |  |  | x | |
| O386 |  | Notodontidae |  |  |  | x | |
| O407 |  | Notodontidae |  |  |  | x | |
| O527 |  | Notodontidae |  |  |  | x | |
| O584 |  | Notodontidae |  |  |  | x | |
| O364 |  | Notodontidae |  |  |  | x | |
| O438 |  | Notodontidae |  |  |  | x | |
| O149 | BOLD:AAA3763 | Nymphalidae | Charaxinae | *Memphis forreri* | x | x | |
| O296 | BOLD:AAB2585 | Nymphalidae | Charaxinae | *Anaea troglodyta aidea* | x |  | |
| O375 | BOLD:AAQ1499 | Nymphalidae | Charaxinae | *Memphis pithyusa* | x | x | |
| O548 | BOLD:AAQ1913 | Nymphalidae | Charaxinae | *Hypna clytemnestra mexicana* | x | x | |
| O35 | BOLD:AAC3838 | Nymphalidae | Heliconiinae | *Agraulis vanillae incarnata* | x | x | |
| O357 | BOLD:AAA9100 | Nymphalidae | Limentidinae | *Adelpha iphicleola* | x | x | |
| O279 | BOLD:AAD0543 | Nymphalidae | Nymphalinae | *Chlosyne gloriosa* | x | x | |
| O410 | BOLD:ABU6439 | Nymphalidae | Nymphalinae | *Chlosyne riobalsensis* | x | x | |
| O513 |  | Nymphalidae | Nymphalinae | *Microtia elva elva* | x | x | |
| O46 | BOLD:AAQ1392 | Nymphalidae | Satyrinae | *Morpho polyphemus* |  | x | |
| O244 |  | Nymphalidae |  |  |  | x | |
| O384 |  | Nymphalidae |  |  |  | x | |
| O400 |  | Nymphalidae |  |  |  | x | |
| O530 |  | Nymphalidae |  |  |  | x | |
| O82 |  | Nymphalidae |  |  |  | x | |
| O40 |  | Oecophoridae |  |  |  | x | |
| O333 | BOLD:AAB3110 | Papilionidae | Papilioninae | *Heraclides autocles* | x | x | |
| O436 | BOLD:AAB0995 | Pieridae | Coliadinae | *Phoebis philea* | x |  | |
| O194 | BOLD:AAA7410 | Pieridae | Coliadinae | *Phoebis sennae marcellina* | x | x | |
|  |  |  |  |  |  |  | |
| O107 | BOLD:AAB6060 | Pieridae | Pierinae | *Ganyra josephina josepha* | x | x | |
| O205 | BOLD:AAB6892 | Pieridae | Pierinae | *Ascia monuste monuste* | x | x | |
| O224 | BOLD:AAD1223 | Pieridae | Pierinae | *Pieriballia viardi viardi* | x | x | |
| O390 |  | Pieridae | Pierinae | *Ascia monuste* |  | x | |
| O332 |  | Pieridae |  |  |  | x | |
| O3 | BOLD:ACY9633 | Psychidae |  |  | x | x | |
| O14 | BOLD:ACY9819 | Psychidae |  |  |  | x | |
| O179 |  | Psychidae |  |  |  | x | |
| O294 | BOLD:ACV0026 | Pterophoridae | Pterophorinae | *Hellensia chamelai* | x | x | |
| O25 | BOLD:ADE0968 | Pterophoridae | Pterophorinae | *Michaelophorus prob. New. Sp.* | x | x | |
| O112 | BOLD:AAB2546 | Pyralidae | Epipaschiinae | *Pococera sp.* | x | x | |
| O132 |  | Pyralidae | Epipaschiinae | *Epipaschia superatalis* |  | x | |
| O166 |  | Pyralidae | Spilomelinae | *Pilocrocis calamistis* |  |  | |
| O340 |  | Pyralidae |  |  |  | x | |
| O426 |  | Pyralidae |  |  |  | x | |
| O91 |  | Pyralidae |  |  |  | x | |
| O579 | BOLD:AAC0641 | Riodinidae | Riodininae | *cf. Anteros carausius* |  | x | |
| O111 | BOLD:AAD2997 | Riodinidae | Riodininae | *Emesis emesia* | x | x | |
| O555 | BOLD:ACY9444 | Riodinidae | Riodininae | *cf. Emesis* |  |  | |
| O206 | BOLD:ADE1742 | Riodinidae | Riodininae | *Apodemia multiplaga* | x |  | |
| O331 |  | Riodinidae |  |  |  | x | |
| O354 | BOLD:ACE9159 | Saturniidae | Ceratocampinae | *Syssphinx pescadori* | x | x | |
| O489 |  | Saturniidae | Ceratocampinae | *Adeloneivaia sp* | x | x | |
| O226 |  | Saturniidae | Ceratocampinae |  |  | x | |
| O358 | BOLD:AAA3013 | Saturniidae | Hemileucinae | *Hylesia colimatifex* | x | x | |
| O70 | BOLD:AAA6809 | Saturniidae | Hemileucinae | *Automeris io draudtiana* | x | x | |
| O299 | BOLD:AAT9042 | Saturniidae | Hemileucinae | *Hylesia subaurea* | x | x | |
| O7 | BOLD:AAA1500 | Saturniidae | Saturninae | *Rothschildia cincta guerreronis* | x | x | |
| O37 |  | Saturniidae |  |  |  | x | |
| O499 | BOLD:AAA5583 | Sphingidae | Macroglossinae | *cf. Eumorpha satellitia* |  | x | |
| O51 | BOLD:AAB0931 | Sphingidae | Macroglossinae | *Erinnyis ello* | x | x | |
| O341 | BOLD:ACE8070 | Sphingidae | Macroglossinae | *cf. Perigonia ilus* | x | x | |
| O80 |  | Sphingidae | Macroglossinae | *Erinnyis crameri* | x |  | |
| O519 |  | Sphingidae | Macroglossinae | *Erynnyis sp* | x | x | |
| O61 |  | Sphingidae | Macroglossinae |  |  | x | |
| O518 | BOLD:AAA6257 | Sphingidae | Sphinginae | *cf. Agrius cingulata* |  | x | |
| O182 |  | Sphingidae |  |  |  |  | |
| O334 |  | Sphingidae |  |  |  | x | |
| O582 |  | Sphingidae |  |  |  | x | |
| O113 | BOLD:AAC6731 | Thyrididae | Thyridinae | *Gippius cf. sumptuosus* | x | x | |
| O158 | BOLD:AAA0948 | Tortricidae | Tortricinae | *cf. Platynota subargentea* | x | x | |
| O106 | BOLD:AAA2829 | Tortricidae | Tortricinae | *Amorbia concavana* | x |  | |
| O67 |  | Tortricidae | Tortricinae | *Platynota flavedana* |  | x | |
| O421 |  | Tortricidae |  |  |  | x | |
| O155 | BOLD:AAA3203 | Uranidae | Epipleminae | *cf. Eurosia sp* | x |  | |
| O24 | BOLD:AAH9265 | Urodidae |  | *Wockia chewbacca* | x | x | |
| O72 | BOLD:ADE4466 | Urodidae |  | *Wockia sp* | x | x | |
| O145 |  | Urodidae |  |  | x |  | |
| O129 | BOLD:AAY7218 | Zygaenidae | Procridinae | *cf. Triprocris yampai* |  | x | |
| O398 | BOLD:AAY7220 |  |  |  |  | x | |
| O595 | BOLD:ACY9750 |  |  |  |  | x | |
| O592 | BOLD:ACY9810 |  |  |  |  | x | |
| O392 | BOLD:ACY9811 |  |  |  |  | x | |
| O520 | BOLD:ADE2134 |  |  |  |  |  | |
| O17 |  |  |  |  |  |  | |
| O612 |  |  |  | *Catocala* |  | x | |
| O108 |  |  |  |  |  | x | |
| O156 |  |  |  |  |  | x | |
| O163 |  |  |  |  |  | x | |
| O168 |  |  |  |  |  | x | |
| O175 |  |  |  |  |  | x | |
| O201 |  |  |  |  |  | x | |
| O213 |  |  |  |  |  | x | |
| O222 |  |  |  |  |  | x | |
| O227 |  |  |  |  |  | x | |
| O231 |  |  |  |  |  | x | |
| O235 |  |  |  |  |  | x | |
| O258 |  |  |  |  |  | x | |
| O266 |  |  |  |  |  | x | |
| O305 |  |  |  |  |  | x | |
| O322 |  |  |  |  |  | x | |
| O353 |  |  |  |  |  | x | |
| O361 |  |  |  |  |  | x | |
| O365 |  |  |  |  |  | x | |
| O367 |  |  |  |  |  | x | |
| O369 |  |  |  |  |  | x | |
| O371 |  |  |  |  |  | x | |
| O388 |  |  |  |  |  | x | |
| O389 |  |  |  |  |  | x | |
| O391 |  |  |  |  |  | x | |
| O403 |  |  |  |  |  | x | |
| O408 |  |  |  |  |  | x | |
| O417 |  |  |  |  |  | x | |
| O424 |  |  |  |  |  | x | |
| O427 |  |  |  |  |  | x | |
| O428 |  |  |  |  |  | x | |
| O433 |  |  |  |  |  | x | |
| O444 |  |  |  |  |  | x | |
| O446 |  |  |  |  |  | x | |
| O472 |  |  |  |  |  | x | |
| O474 |  |  |  |  |  | x | |
| O480 |  |  |  |  |  | x | |
| O482 |  |  |  |  |  | x | |
| O483 |  |  |  |  |  | x | |
| O486 |  |  |  |  |  | x | |
| O492 |  |  |  |  |  | x | |
| O501 |  |  |  |  |  | x | |
| O514 |  |  |  |  |  | x | |
| O53 |  |  |  |  |  | x | |
| O532 |  |  |  |  |  | x | |
| O534 |  |  |  |  |  | x | |
| O547 |  |  |  |  |  | x | |
| O570 |  |  |  |  |  | x | |
| O573 |  |  |  |  |  | x | |
| O589 |  |  |  |  |  | x | |
| O590 |  |  |  |  |  | x | |
| O593 |  |  |  |  |  | x | |
| O594 |  |  |  |  |  | x | |
| O605 |  |  |  |  |  | x | |
| O122 |  |  |  |  |  | x | |
| O242 |  |  |  |  |  | x | |
| O355 |  |  |  |  |  | x | |
| O255 |  |  |  |  |  | x | |
| O172 |  |  |  |  |  | x | |

Table S2a. Beta diversity (Morisita-horn Index) of plant communities in plots of different successional stages

Initial1 Initial3 Initital2 Early1 Early2 Early3 Inter1 Inter2 Inter3 Mature1 Mature2

Initial3 0.9915942

Initital2 0.9531550 0.1324971

Early1 0.6293897 0.9868403 0.9854875

Early2 0.5519626 0.9849205 0.9872946 0.7903087

Early3 0.4682604 0.9965203 0.9639195 0.7945602 0.7968162

Inter1 0.7991777 1.0000000 0.9960055 0.8393181 0.6469165 0.7020793

Inter2 0.8412358 0.9985145 0.9883571 0.8392321 0.8270568 0.3991133 0.8930940

Inter3 0.5803722 0.9981913 0.9791123 0.5339271 0.5398299 0.5611692 0.5735579 0.8020435

Mature1 0.9224412 0.9945254 0.9814493 0.9259310 0.9667502 0.8105736 0.5176895 0.8893154 0.8825802

Mature2 0.7100609 0.9963701 0.9802247 0.7192273 0.9203633 0.7446466 0.4151734 0.9615803 0.6137876 0.7055743

Mature3 0.7599409 0.9967718 0.9883083 0.8946485 0.9577270 0.8063312 0.6769174 0.9491263 0.8993464 0.4015487 0.7188388

Table S2b. Beta diversity (Morisita-horn Index) of caterpillar communities in plots of different successional stages

Initial1 Initial3 Initial2 Early1 Early2 Early3 Inter1 Inter2 Inter3 Mature1 Mature2

Initial3 0.9615990

Initial2 0.8185204 0.8846300

Early1 0.7238550 0.9244441 0.8788435

Early2 0.9069295 0.9723247 0.9231596 0.1477455

Early3 0.9089341 0.9495423 0.8994272 0.2168913 0.2131509

Inter1 0.8866175 0.9870300 0.9535276 0.8307503 0.8082949 0.8555008

Inter2 0.9600222 0.9744186 0.9519637 0.8386427 0.8300972 0.8708075 0.9660862

Inter3 0.3855495 0.9603052 0.9461105 0.2276767 0.3053927 0.3047335 0.8263246 0.8782639

Mature1 0.7703619 0.9596746 0.8984304 0.7745547 0.8786497 0.7774902 0.8296736 0.9637600 0.7798994

Mature2 0.9492095 0.9595048 0.9153654 0.7958274 0.8075437 0.8372042 0.8383341 0.9578312 0.8573303 0.8974524

Mature3 0.9128870 0.9365979 0.8264849 0.2614532 0.2898132 0.3432836 0.8232090 0.8819207 0.4464811 0.8196194 0.7401980

Table S3. Beta diversity (Morisita-horn Index) of caterpillar communities in plots of different successional stages from 2007-2014.

2007

Initial1 Initial2 Initial3 Early1 Early2 Early3 Inter1 Inter2 Inter3 Mature1 Mature2

Initial2 0.9447197

Initial3 0.9948209 1.0000000

Early1 0.7842629 1.0000000 0.9904937

Early2 0.5796848 0.9742359 0.9973557 0.4349684

Early3 0.9848699 0.9935710 0.8885215 0.8253854 0.9182583

Inter1 0.8236905 0.9852928 0.9975973 0.9097581 0.9760580 0.9504080

Inter2 0.8779616 0.9312758 0.9959283 0.7792939 0.8268671 0.9420808 0.9367980

Inter3 0.9878835 0.9976913 0.9882324 0.9817581 0.9855425 0.9917449 0.9952630 0.9890625

Mature1 0.9624918 0.9645976 0.9851323 0.8814011 0.9649198 0.8692999 0.9416879 0.8042110 0.9973752

Mature2 0.7623488 1.0000000 1.0000000 0.6589163 0.5336180 0.9573901 0.9475874 0.9694399 0.9905420 0.9873220

Mature3 0.8278978 0.9884987 1.0000000 0.7183363 0.4250397 0.9873722 0.8955585 0.7647488 0.9951979 0.7258395 0.7787930

2008

Initial1 Initial2 Initial3 Early1 Early2 Early3 Inter1 Inter2 Inter3 Mature1 Mature2

Initial2 0.7030495

Initial3 0.9865659 0.9795424

Early1 0.9020314 0.9607246 0.9347961

Early2 0.8180056 0.6769069 0.9794094 0.9274354

Early3 0.8857150 0.9934770 0.9884475 0.8843552 0.9600529

Inter1 0.9917540 0.9991314 0.9990771 0.9924644 0.8826209 0.9881175

Inter2 0.9984931 0.9977335 0.9976186 0.9510585 0.9184060 0.9445761 0.9921139

Inter3 1.0000000 0.9976884 0.9921238 0.8019475 0.7519163 0.8650277 0.9703160 0.7462503

Mature1 0.9973479 0.9952185 0.9956952 0.9756267 0.8990491 0.9940345 0.6695899 0.9883384 0.9773875

Mature2 0.9820043 0.9545480 0.9904792 0.9567813 0.8205482 0.9185953 0.9919543 0.8958048 0.6540779 0.9742026

Mature3 0.9819893 0.7452127 0.9813196 0.9508221 0.6429191 0.9814281 0.8438223 0.9835014 0.9681289 0.8094206 0.8650326

2009

Initial1 Initial2 Initial3 Early1 Early2 Early3 Inter1 Inter2 Inter3 Mature1 Mature2

Initial2 0.71186441

Initial3 0.91192753 0.90115841

Early1 0.97942857 0.91107790 0.98693572

Early2 0.98845546 0.97058515 0.98379029 0.19401330

Early3 0.99759642 0.98926678 0.98885689 0.27778438 0.12016745

Inter1 0.96537551 0.90799927 0.99078140 0.33938196 0.41853060 0.54867370

Inter2 0.97504846 0.88250548 0.99182497 0.15953421 0.07893232 0.14547907 0.36822802

Inter3 0.93919342 0.96107705 0.99571951 0.18252133 0.11188793 0.19529736 0.35208202 0.05080950

Mature1 0.99393013 0.98980184 0.99874761 0.94546117 0.97009492 0.85128913 0.91129977 0.95012533 0.96392065

Mature2 0.99560660 0.98372098 0.99834915 0.53352419 0.85838628 0.84250795 0.79190128 0.86023425 0.87270877 0.91707587

Mature3 0.98225521 0.95538058 0.99583862 0.89738818 0.90835525 0.92449899 0.87828002 0.87303253 0.89333755 0.98436491 0.96928910

2010

Initial1 Initial2 Initial3 Early1 Early2 Early3 Inter1 Inter2 Inter3 Mature1 Mature2

Initial2 0.09063074

Initial3 0.62082912 1.00000000

Early1 0.69681381 0.72468354 0.67777778

Early2 0.89881896 0.94492221 0.69280517 0.38290598

Early3 0.94603762 0.97334349 0.91304348 0.74704050 0.68434325

Inter1 0.96723964 0.91019956 0.91635688 0.60427292 0.76049150 0.81472145

Inter2 0.93827573 0.95972518 0.78330147 0.64649996 0.21974787 0.91526731 0.82570153

Inter3 0.96680304 1.00000000 0.95097768 0.93291038 0.94013729 0.83978466 0.97223759 0.93736347

Mature1 0.77977186 0.93385463 0.85549254 0.72346726 0.73458872 0.79448547 0.89828454 0.78657663 0.71728828

Mature2 0.93043478 0.96946565 0.86497890 0.78426323 0.88818596 0.78524046 0.90931990 0.85984508 0.90630448 0.75654510

Mature3 0.91682257 0.94550380 0.63508531 0.90429181 0.95149992 0.88399477 0.92650646 0.89277695 0.89975297 0.80422707 0.85728338

2011

Initial1 Initial2 Initial3 Early1 Early2 Early3 Inter1 Inter2 Inter3 Mature1 Mature2

Initial2 0.65739731

Initial3 0.64846017 0.85100287

Early1 0.89003555 0.96743997 1.00000000

Early2 0.90939034 0.99014217 1.00000000 0.17033523

Early3 0.95448267 0.91749728 0.99624726 0.75473244 0.76742865

Inter1 0.94511981 0.65787159 0.99287369 0.79616371 0.84214559 0.87719795

Inter2 0.91451545 0.99332266 1.00000000 0.93283900 0.85354537 0.62701414 0.85989202

Inter3 0.91941044 0.98943146 0.99817484 0.20960816 0.01002034 0.78306086 0.87232136 0.93471968

Mature1 0.81701650 0.83582825 0.94755995 0.51703983 0.66973719 0.69313858 0.74770159 0.87709791 0.68750996

Mature2 0.94300818 0.92418316 1.00000000 0.78781274 0.83645786 0.88651457 0.87620797 0.91538432 0.85447475 0.72319346

Mature3 0.89672416 0.96964705 0.99829992 0.12074563 0.04986692 0.59979988 0.83330854 0.86656314 0.06662449 0.55860528 0.80487565

2012

Initial1 Initial2 Initial3 Early1 Early2 Early3 Inter1 Inter2 Inter3 Mature1 Mature2

Initial2 0.78728992

Initial3 0.92688652 0.90964353

Early1 0.85067261 0.94497761 0.98410773

Early2 0.90094558 0.97758648 0.99733593 0.44900732

Early3 0.81981726 0.87911091 0.98822983 0.19397339 0.51430690

Inter1 0.76137403 0.88028509 0.97420372 0.16896405 0.34341560 0.12946494

Inter2 0.95332952 0.93060511 0.98594697 0.85878937 0.85787733 0.87028212 0.85625181

Inter3 0.76908752 0.83131580 0.98194372 0.10014651 0.42147923 0.10639297 0.04138438 0.84288492

Mature1 0.98233505 0.96897132 0.99663200 0.92791830 0.96251218 0.93705187 0.93833802 0.98285857 0.92551990

Mature2 0.99217441 0.97937434 0.99776981 0.98294478 0.99595629 0.98861034 0.95541665 0.99313653 0.98391931 0.99415743

Mature3 0.73148460 0.85435143 0.97833645 0.34827949 0.57739376 0.24386888 0.15438876 0.87251656 0.19344788 0.93888588 0.66684284

2013

Initial1 Initial2 Initial3 Early1 Early2 Early3 Inter1 Inter2 Inter3 Mature1 Mature2

Initial2 0.0000000

Initial3 0.9346216 0.8345289

Early1 0.7664493 0.8946631 0.8750577

Early2 0.6346440 0.9156318 0.9811400 0.5009403

Early3 0.4326579 0.7533679 0.8904323 0.4604878 0.1659935

Inter1 0.7794333 0.9514744 0.9026567 0.7284174 0.5286502 0.5350699

Inter2 0.9946328 0.7400930 0.9959806 0.8973418 0.8974818 0.9925615 0.9964716

Inter3 0.2184911 0.0000000 0.9534728 0.6721680 0.4850086 0.1335740 0.6814062 0.9959906

Mature1 0.7662535 0.7570430 0.9649808 0.8673602 0.8053135 0.7469045 0.8446289 0.9978669 0.7160112

Mature2 0.2313379 0.1342105 0.9244984 0.7328172 0.8537896 0.6845350 0.8804715 0.9958462 0.4487881 0.7078965

Mature3 0.1928721 0.2391304 0.7313536 0.5812040 0.6106623 0.3305450 0.7379257 0.9903890 0.3279684 0.7328839 0.3832715

2014

Initial1 Initial2 Initial3 Early1 Early2 Early3 Inter1 Inter2 Inter3 Mature1 Mature2

Initial2 0.90036891

Initial3 0.94930316 0.48982649

Early1 0.35253559 0.52672946 0.58104657

Early2 0.91296577 0.00000000 0.26469178 0.45283995

Early3 0.96699982 0.41737857 0.53157234 0.29285076 0.29154053

Inter1 0.03488983 0.90135859 0.89746857 0.22603048 0.89058761 0.85316446

Inter2 0.92670562 0.25271739 0.45053389 0.30098478 0.25686719 0.15546218 0.83409834

Inter3 0.05647561 0.99118943 0.98058384 0.45543987 0.98744305 0.99025079 0.09127329 0.98803076

Mature1 0.95892566 0.79848996 0.77897758 0.76958289 0.76354270 0.74477428 0.91631902 0.71300558 0.96893915

Mature2 0.97215632 0.61536671 0.46455114 0.69194286 0.35824464 0.66334088 0.91628401 0.57230802 0.98968250 0.85446541

Mature3 0.97602115 0.14150943 0.74383797 0.47422568 0.40026139 0.19562244 0.90011993 0.32500000 0.99478755 0.80287631 0.78558301