|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplemental Data.** Microsatellite multi-locus genotypes of *C. latusorum* and *C. pacificum* collected from Hawaii, Palau, Mexico, Australia, and Panama. Missing loci are designated "0". | | | | | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **sample** | **site** | **symbiont sp.** | **C-1** | **C-1** | **C-37** | **C-37** | **C-105** | **C-105** | **C-33** | **C-33** | **C-25** | **C-25** | **C-22** | **C-22** | **C-21** | **C-21** | **C-40** | **C-40** |
| HA02\_035 | haw | *C. latusorum* | 148 | 164 | 110 | 120 | 267 | 279 | 208 | 214 | 111 | 117 | 141 | 144 | 115 | 133 | 189 | 210 |
| HA02\_114 | haw | *C. latusorum* | 146 | 168 | 110 | 120 | 263 | 279 | 211 | 211 | 111 | 120 | 132 | 132 | 115 | 127 | 198 | 210 |
| HAW08\_11\_ | haw | *C. latusorum* | 146 | 146 | 110 | 122 | 0 | 0 | 208 | 214 | 111 | 117 | 135 | 138 | 115 | 133 | 189 | 210 |
| HAW08\_12 | haw | *C. latusorum* | 148 | 174 | 110 | 120 | 263 | 279 | 208 | 214 | 111 | 117 | 141 | 144 | 115 | 133 | 189 | 210 |
| HAW08\_13 | haw | *C. latusorum* | 146 | 170 | 110 | 120 | 263 | 279 | 208 | 214 | 111 | 117 | 138 | 141 | 115 | 133 | 189 | 210 |
| HAW08\_14 | haw | *C. latusorum* | 146 | 178 | 110 | 120 | 263 | 279 | 208 | 214 | 111 | 114 | 138 | 141 | 115 | 133 | 189 | 210 |
| Haw08\_15 | haw | *C. latusorum* | 146 | 176 | 110 | 122 | 263 | 279 | 208 | 214 | 111 | 117 | 135 | 138 | 115 | 133 | 189 | 210 |
| Haw09\_010 | haw | *C. latusorum* | 148 | 148 | 110 | 120 | 263 | 275 | 208 | 214 | 111 | 114 | 141 | 141 | 121 | 121 | 189 | 210 |
| Haw09\_011 | haw | *C. latusorum* | 148 | 182 | 110 | 120 | 263 | 275 | 208 | 214 | 111 | 114 | 141 | 141 | 121 | 133 | 189 | 210 |
| Haw09\_012 | haw | *C. latusorum* | 146 | 178 | 110 | 120 | 263 | 279 | 208 | 214 | 111 | 117 | 138 | 141 | 115 | 133 | 189 | 210 |
| HAW09\_014 | haw | *C. latusorum* | 148 | 178 | 112 | 120 | 263 | 279 | 208 | 214 | 111 | 117 | 138 | 141 | 0 | 0 | 189 | 210 |
| Haw09\_015 | haw | *C. latusorum* | 146 | 186 | 110 | 120 | 259 | 275 | 208 | 214 | 111 | 117 | 141 | 141 | 115 | 133 | 189 | 210 |
| Haw09\_016 | haw | *C. latusorum* | 146 | 172 | 114 | 120 | 267 | 283 | 208 | 211 | 111 | 117 | 141 | 144 | 109 | 127 | 198 | 201 |
| HAW09\_017 | haw | *C. latusorum* | 146 | 170 | 112 | 120 | 267 | 283 | 211 | 211 | 111 | 117 | 141 | 147 | 127 | 127 | 198 | 210 |
| HAW09\_018 | haw | *C. latusorum* | 146 | 146 | 108 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 141 | 144 | 109 | 127 | 198 | 210 |
| HAW09\_019 | haw | *C. latusorum* | 146 | 170 | 116 | 120 | 267 | 283 | 211 | 211 | 108 | 117 | 0 | 0 | 109 | 127 | 198 | 210 |
| HAW09\_020 | haw | *C. latusorum* | 146 | 172 | 112 | 120 | 267 | 283 | 211 | 211 | 105 | 111 | 141 | 144 | 109 | 127 | 201 | 213 |
| HAW09\_021 | haw | *C. latusorum* | 144 | 172 | 110 | 120 | 263 | 275 | 211 | 211 | 111 | 123 | 138 | 138 | 115 | 127 | 198 | 210 |
| HAW09\_023 | haw | *C. latusorum* | 144 | 144 | 114 | 122 | 263 | 279 | 211 | 211 | 111 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| HAW09\_024 | haw | *C. latusorum* | 148 | 174 | 112 | 120 | 263 | 279 | 208 | 214 | 111 | 117 | 138 | 141 | 0 | 0 | 189 | 210 |
| Haw09\_087 | haw | *C. latusorum* | 146 | 182 | 110 | 120 | 259 | 259 | 208 | 214 | 111 | 117 | 141 | 141 | 115 | 133 | 189 | 210 |
| HAW09\_091 | haw | *C. latusorum* | 0 | 0 | 110 | 120 | 263 | 279 | 208 | 214 | 111 | 117 | 141 | 144 | 121 | 133 | 189 | 210 |
| Haw09\_106 | haw | *C. latusorum* | 146 | 176 | 110 | 120 | 263 | 279 | 208 | 214 | 111 | 120 | 138 | 141 | 115 | 133 | 189 | 210 |
| Haw09\_107 | haw | *C. latusorum* | 148 | 148 | 110 | 120 | 263 | 279 | 208 | 214 | 111 | 117 | 138 | 141 | 115 | 133 | 189 | 210 |
| Haw09\_108 | haw | *C. latusorum* | 150 | 182 | 112 | 122 | 263 | 279 | 208 | 214 | 111 | 117 | 138 | 141 | 118 | 124 | 189 | 210 |
| Haw09\_109 | haw | *C. latusorum* | 146 | 146 | 110 | 122 | 263 | 279 | 208 | 214 | 111 | 117 | 138 | 141 | 115 | 133 | 210 | 210 |
| LAP08\_150 | lap | *C. latusorum* | 148 | 170 | 114 | 120 | 0 | 0 | 211 | 211 | 114 | 117 | 141 | 141 | 112 | 127 | 198 | 210 |
| Lap08\_151 | lap | *C. latusorum* | 146 | 174 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 117 | 138 | 144 | 112 | 133 | 198 | 210 |
| LAP08\_152 | lap | *C. latusorum* | 148 | 172 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| Lap08\_153 | lap | *C. latusorum* | 148 | 174 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 204 | 204 |
| LAP08\_160 | lap | *C. latusorum* | 146 | 176 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| LAP08\_161 | lap | *C. latusorum* | 148 | 170 | 114 | 120 | 267 | 279 | 211 | 211 | 114 | 117 | 141 | 141 | 112 | 127 | 198 | 210 |
| Lap08\_168 | lap | *C. latusorum* | 148 | 170 | 114 | 120 | 267 | 279 | 211 | 211 | 114 | 117 | 141 | 141 | 112 | 127 | 204 | 204 |
| LAP08\_173 | lap | *C. latusorum* | 146 | 172 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| LAP08\_174 | lap | *C. latusorum* | 146 | 174 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| LAP08\_175 | lap | *C. latusorum* | 146 | 172 | 114 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 141 | 144 | 112 | 133 | 198 | 210 |
| LAP08\_179 | lap | *C. latusorum* | 146 | 176 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 195 | 210 |
| Lap08\_193 | lap | *C. latusorum* | 144 | 178 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| LAP08\_194 | lap | *C. latusorum* | 146 | 178 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| LAP08\_195 | lap | *C. latusorum* | 146 | 170 | 112 | 120 | 267 | 283 | 0 | 0 | 108 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| LAP08\_199 | lap | *C. latusorum* | 0 | 0 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| LAP08\_203 | lap | *C. latusorum* | 146 | 170 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 117 | 138 | 144 | 112 | 133 | 195 | 198 |
| Lap08\_205 | lap | *C. latusorum* | 146 | 174 | 112 | 120 | 0 | 0 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 204 | 204 |
| LAP08\_211 | lap | *C. latusorum* | 146 | 170 | 114 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| LAP08\_214 | lap | *C. latusorum* | 146 | 174 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 147 | 112 | 133 | 198 | 210 |
| LAP08\_215 | lap | *C. latusorum* | 0 | 0 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 147 | 112 | 133 | 189 | 210 |
| LAP08\_216 | lap | *C. latusorum* | 146 | 172 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 117 | 138 | 144 | 112 | 133 | 198 | 210 |
| LAP08\_224 | lap | *C. latusorum* | 146 | 170 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| Lap08\_301 | lap | *C. latusorum* | 136 | 162 | 114 | 120 | 0 | 0 | 211 | 211 | 114 | 117 | 141 | 141 | 112 | 127 | 204 | 204 |
| LAP08\_302 | lap | *C. latusorum* | 148 | 148 | 114 | 120 | 267 | 279 | 211 | 211 | 114 | 117 | 132 | 132 | 112 | 127 | 0 | 0 |
| lap08\_68 | lap | *C. latusorum* | 170 | 170 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 144 | 112 | 133 | 198 | 210 |
| Lap09\_66 | lap | *C. latusorum* | 0 | 0 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 117 | 141 | 144 | 112 | 133 | 198 | 210 |
| Lap09\_67 | lap | *C. latusorum* | 148 | 148 | 112 | 120 | 267 | 283 | 211 | 211 | 108 | 117 | 138 | 144 | 112 | 133 | 198 | 210 |
| PA\_27 | pan | *C. latusorum* | 142 | 142 | 112 | 120 | 263 | 279 | 211 | 211 | 111 | 111 | 135 | 141 | 0 | 0 | 198 | 207 |
| PA\_28 | pan | *C. latusorum* | 142 | 142 | 114 | 120 | 263 | 275 | 211 | 211 | 111 | 111 | 135 | 141 | 115 | 127 | 198 | 210 |
| PA\_48 | pan | *C. latusorum* | 144 | 164 | 114 | 120 | 263 | 275 | 211 | 211 | 111 | 111 | 135 | 141 | 115 | 127 | 198 | 210 |
| PA\_62 | pan | *C. latusorum* | 142 | 142 | 112 | 120 | 263 | 279 | 211 | 211 | 111 | 111 | 135 | 141 | 0 | 0 | 198 | 210 |
| Pal\_ORT3\_13 | pal | *C. latusorum* | 136 | 164 | 114 | 130 | 263 | 275 | 211 | 211 | 111 | 123 | 135 | 150 | 0 | 0 | 198 | 210 |
| PAL09\_313 | pal | *C. latusorum* | 144 | 168 | 114 | 122 | 263 | 275 | 199 | 211 | 111 | 120 | 138 | 141 | 0 | 0 | 198 | 210 |
| Pal09\_620 | pal | *C. latusorum* | 0 | 0 | 114 | 120 | 267 | 283 | 211 | 211 | 108 | 114 | 138 | 141 | 115 | 127 | 198 | 210 |
| Pd\_4P25 | aus | *C. latusorum* | 144 | 144 | 114 | 122 | 267 | 275 | 211 | 211 | 111 | 111 | 135 | 144 | 127 | 127 | 189 | 213 |
| PD\_A03\_107 | aus | *C. latusorum* | 144 | 178 | 112 | 120 | 263 | 279 | 199 | 211 | 0 | 0 | 141 | 144 | 109 | 109 | 186 | 210 |
| PD\_A03\_347 | aus | *C. latusorum* | 132 | 182 | 114 | 122 | 263 | 275 | 211 | 211 | 117 | 120 | 135 | 138 | 0 | 0 | 198 | 210 |
| PD\_A03\_350 | aus | *C. latusorum* | 140 | 176 | 110 | 112 | 267 | 283 | 196 | 202 | 114 | 123 | 135 | 138 | 0 | 0 | 210 | 210 |
| PD\_A03\_41 | aus | *C. latusorum* | 136 | 166 | 112 | 124 | 267 | 283 | 211 | 211 | 111 | 126 | 135 | 135 | 0 | 0 | 198 | 207 |
| PD\_A03\_84 | aus | *C. latusorum* | 132 | 178 | 114 | 124 | 267 | 283 | 211 | 211 | 114 | 117 | 135 | 135 | 0 | 0 | 198 | 210 |
| Pd\_A30 | aus | *C. latusorum* | 144 | 182 | 114 | 124 | 267 | 279 | 211 | 211 | 114 | 114 | 135 | 138 | 127 | 127 | 0 | 0 |
| Pd\_L2 | aus | *C. latusorum* | 144 | 186 | 114 | 122 | 267 | 275 | 211 | 211 | 111 | 114 | 135 | 144 | 127 | 127 | 0 | 0 |
| Pd\_LM26 | aus | *C. latusorum* | 0 | 0 | 112 | 120 | 255 | 287 | 208 | 211 | 108 | 108 | 132 | 135 | 124 | 127 | 198 | 198 |
| Pd\_SR30 | aus | *C. latusorum* | 144 | 182 | 114 | 124 | 267 | 275 | 211 | 211 | 114 | 114 | 135 | 138 | 127 | 130 | 0 | 0 |
| Pd\_U4 | aus | *C. latusorum* | 144 | 144 | 116 | 122 | 267 | 275 | 211 | 211 | 111 | 114 | 135 | 147 | 127 | 127 | 0 | 0 |
| PA\_15 | pan | *C. latusorum* | 142 | 142 | 112 | 122 | 263 | 279 | 211 | 211 | 111 | 111 | 138 | 141 | 115 | 133 | 0 | 0 |
| HA02\_003 | haw | *C. pacificum* | 142 | 168 | 108 | 126 | 275 | 279 | 208 | 208 | 108 | 114 | 135 | 138 | 112 | 124 | 195 | 210 |
| Ha02\_008 | haw | *C. pacificum* | 142 | 166 | 108 | 124 | 275 | 279 | 208 | 208 | 108 | 114 | 135 | 138 | 0 | 0 | 195 | 210 |
| HA02\_015 | haw | *C. pacificum* | 142 | 168 | 108 | 126 | 275 | 279 | 208 | 208 | 108 | 114 | 138 | 141 | 112 | 124 | 195 | 210 |
| HAW09\_092 | haw | *C. pacificum* | 142 | 142 | 108 | 124 | 275 | 279 | 208 | 208 | 108 | 111 | 135 | 138 | 112 | 112 | 195 | 210 |
| HAW09\_093 | haw | *C. pacificum* | 142 | 142 | 108 | 126 | 275 | 279 | 208 | 208 | 108 | 114 | 135 | 138 | 112 | 121 | 195 | 210 |
| HAW09\_094 | haw | *C. pacificum* | 142 | 170 | 108 | 126 | 275 | 279 | 208 | 208 | 108 | 114 | 135 | 138 | 112 | 121 | 195 | 210 |
| Haw09\_096 | haw | *C. pacificum* | 142 | 142 | 108 | 126 | 275 | 279 | 208 | 208 | 108 | 114 | 138 | 144 | 112 | 124 | 195 | 210 |
| Haw09\_118 | haw | *C. pacificum* | 142 | 142 | 108 | 124 | 275 | 279 | 208 | 208 | 108 | 114 | 135 | 138 | 112 | 124 | 195 | 210 |
| Haw09\_120 | haw | *C. pacificum* | 142 | 142 | 108 | 126 | 275 | 279 | 208 | 208 | 108 | 114 | 138 | 141 | 112 | 124 | 195 | 210 |
| HAW09\_122 | haw | *C. pacificum* | 142 | 170 | 108 | 124 | 275 | 279 | 208 | 208 | 108 | 114 | 135 | 138 | 112 | 124 | 195 | 210 |
| HAW09\_123 | haw | *C. pacificum* | 142 | 142 | 108 | 126 | 275 | 279 | 208 | 208 | 108 | 114 | 135 | 138 | 112 | 124 | 195 | 210 |
| Haw09\_124 | haw | *C. pacificum* | 0 | 0 | 108 | 124 | 275 | 279 | 208 | 208 | 108 | 114 | 135 | 138 | 112 | 124 | 195 | 210 |
| Haw09\_126 | haw | *C. pacificum* | 0 | 0 | 108 | 126 | 275 | 279 | 199 | 208 | 108 | 114 | 135 | 138 | 127 | 127 | 195 | 195 |
| Haw09\_127 | haw | *C. pacificum* | 0 | 0 | 108 | 126 | 275 | 279 | 208 | 211 | 108 | 114 | 135 | 138 | 112 | 124 | 195 | 210 |
| Haw09\_128 | haw | *C. pacificum* | 0 | 0 | 108 | 128 | 267 | 279 | 208 | 208 | 108 | 114 | 135 | 138 | 127 | 127 | 195 | 210 |
| HAW09\_129 | haw | *C. pacificum* | 142 | 142 | 108 | 128 | 275 | 275 | 208 | 208 | 108 | 114 | 135 | 138 | 0 | 0 | 195 | 210 |
| Haw09\_130 | haw | *C. pacificum* | 0 | 0 | 108 | 126 | 275 | 279 | 208 | 208 | 108 | 114 | 135 | 138 | 112 | 124 | 195 | 210 |
| PA\_23 | pan | *C. pacificum* | 130 | 170 | 108 | 128 | 279 | 279 | 196 | 208 | 108 | 111 | 138 | 138 | 112 | 127 | 204 | 210 |
| PA\_24 | pan | *C. pacificum* | 130 | 170 | 108 | 126 | 279 | 279 | 196 | 208 | 108 | 114 | 138 | 141 | 112 | 127 | 204 | 210 |
| PA\_25 | pan | *C. pacificum* | 130 | 130 | 108 | 126 | 0 | 0 | 196 | 208 | 108 | 111 | 138 | 141 | 112 | 127 | 204 | 210 |
| PA\_26 | pan | *C. pacificum* | 130 | 170 | 108 | 126 | 279 | 279 | 196 | 208 | 108 | 111 | 138 | 141 | 112 | 127 | 204 | 210 |
| PA\_46 | pan | *C. pacificum* | 130 | 130 | 108 | 126 | 279 | 279 | 196 | 208 | 108 | 111 | 138 | 141 | 112 | 127 | 0 | 0 |
| PA\_49 | pan | *C. pacificum* | 130 | 130 | 108 | 126 | 279 | 279 | 196 | 208 | 0 | 0 | 138 | 141 | 112 | 127 | 204 | 210 |
| PA\_71 | pan | *C. pacificum* | 130 | 130 | 108 | 126 | 279 | 279 | 196 | 208 | 108 | 111 | 138 | 141 | 0 | 0 | 204 | 210 |
| PA\_82 | pan | *C. pacificum* | 130 | 130 | 108 | 124 | 279 | 279 | 196 | 208 | 105 | 111 | 138 | 138 | 112 | 127 | 204 | 210 |
| PA\_86 | pan | *C. pacificum* | 130 | 130 | 108 | 126 | 279 | 279 | 196 | 208 | 108 | 111 | 138 | 141 | 112 | 127 | 204 | 210 |
| Pal\_ORT2\_21 | pal | *C. pacificum* | 142 | 142 | 108 | 124 | 275 | 283 | 208 | 208 | 108 | 111 | 135 | 141 | 0 | 0 | 204 | 210 |
| Pal\_ORT2\_43 | pal | *C. pacificum* | 0 | 0 | 108 | 124 | 275 | 283 | 196 | 208 | 108 | 111 | 138 | 141 | 112 | 118 | 204 | 210 |
| Pal\_ORT2\_46\_ | pal | *C. pacificum* | 142 | 142 | 108 | 122 | 275 | 283 | 208 | 208 | 108 | 111 | 135 | 141 | 112 | 118 | 204 | 210 |
| PAL09\_471 | pal | *C. pacificum* | 142 | 142 | 108 | 122 | 275 | 283 | 196 | 208 | 105 | 111 | 135 | 141 | 0 | 0 | 201 | 207 |
| PAL09\_507 | pal | *C. pacificum* | 142 | 170 | 108 | 120 | 0 | 0 | 208 | 208 | 108 | 111 | 135 | 141 | 112 | 118 | 204 | 210 |
| Pal09\_526 | pal | *C. pacificum* | 142 | 142 | 108 | 122 | 275 | 283 | 208 | 208 | 105 | 111 | 135 | 141 | 112 | 118 | 204 | 210 |
| Pal09\_608 | pal | *C. pacificum* | 142 | 170 | 108 | 122 | 271 | 283 | 208 | 208 | 105 | 111 | 135 | 141 | 109 | 109 | 195 | 210 |
| Pal18\_PvN8 | pal | *C. pacificum* | 142 | 142 | 108 | 122 | 275 | 279 | 0 | 0 | 105 | 111 | 135 | 141 | 106 | 118 | 204 | 204 |
| Pal18\_PvO3 | pal | *C. pacificum* | 0 | 0 | 108 | 126 | 275 | 283 | 208 | 214 | 108 | 111 | 135 | 141 | 112 | 118 | 204 | 210 |