

## Supplementary S1. Bibliography Used for Taxonomic Identification

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**Supplementary S2.** Table of Species Distribution across Localities.

| Family           | Genus                  | Specific Epithet    | Tubará | Usiacurí | Piojó | Repelón |
|------------------|------------------------|---------------------|--------|----------|-------|---------|
| Arthoniaceae     | <i>Arthonia</i>        | <i>abnormis</i>     | 0      | 0        | 0     | 1       |
|                  |                        | <i>complanata</i>   | 0      | 0        | 0     | 1       |
|                  |                        | <i>erupta</i>       | 0      | 1        | 0     | 4       |
|                  |                        | <i>rubella</i>      | 7      | 13       | 10    | 11      |
|                  |                        | <i>sp1</i>          | 2      | 4        | 0     | 0       |
|                  |                        | <i>sp2</i>          | 0      | 0        | 0     | 1       |
|                  | <i>Coniocarpon</i>     | <i>cinnabarinum</i> | 1      | 9        | 5     | 14      |
|                  |                        | <i>sp1</i>          | 1      | 2        | 0     | 0       |
|                  |                        | <i>sp2</i>          | 0      | 0        | 1     | 1       |
|                  |                        | <i>sp3</i>          | 1      | 3        | 0     | 3       |
|                  | <i>Cryptothecia</i>    | <i>effusa</i>       | 0      | 1        | 0     | 0       |
|                  |                        | <i>nana</i>         | 0      | 1        | 0     | 0       |
|                  |                        | <i>sp1</i>          | 0      | 1        | 0     | 1       |
|                  |                        | <i>sp2</i>          | 1      | 0        | 0     | 0       |
|                  |                        | <i>sp3</i>          | 0      | 0        | 1     | 0       |
|                  |                        | <i>sp4</i>          | 0      | 0        | 1     | 0       |
|                  |                        | <i>sp. nov.</i>     | 0      | 6        | 1     | 2       |
|                  |                        | <i>striata</i>      | 0      | 3        | 1     | 1       |
|                  | <i>Helminthocarpon</i> | <i>heinii</i>       | 0      | 0        | 1     | 0       |
|                  |                        | <i>leprevostii</i>  | 0      | 4        | 3     | 1       |
|                  | <i>Stirtonia</i>       | <i>nivea</i>        | 0      | 4        | 0     | 6       |
|                  |                        | <i>sp1</i>          | 0      | 0        | 0     | 1       |
| Caliciaceae      | <i>Dirinaria</i>       | <i>picta</i>        | 0      | 0        | 0     | 2       |
|                  | <i>Pyxine</i>          | <i>petricola</i>    | 0      | 0        | 0     | 1       |
| Celotheliaceae   | <i>Celothelium</i>     | <i>cinchonarum</i>  | 0      | 1        | 0     | 0       |
|                  |                        | <i>dominicanum</i>  | 0      | 0        | 0     | 1       |
| Chrysotrichaceae | <i>Chrysotrix</i>      | <i>xanthina</i>     | 0      | 1        | 0     | 1       |
| Coenogoniaceae   | <i>Coenogonium</i>     | <i>sp. nov.</i>     | 0      | 0        | 0     | 1       |
| Eremithallaceae  | <i>Eremithallus</i>    | <i>sp. nov.</i>     | 0      | 0        | 0     | 1       |
| Graphidaceae     | <i>Allographa</i>      | <i>elongata</i>     | 0      | 1        | 0     | 0       |
|                  |                        | <i>sp1</i>          | 0      | 0        | 0     | 1       |
|                  |                        | <i>seminuda</i>     | 0      | 1        | 0     | 1       |
|                  | <i>Diorygma</i>        | <i>poitaei</i>      | 0      | 0        | 1     | 0       |
|                  | <i>Fissurina</i>       | <i>hyalinella</i>   | 0      | 3        | 1     | 4       |
|                  |                        | <i>mexicana</i>     | 0      | 0        | 0     | 1       |
|                  |                        | <i>sp1</i>          | 0      | 2        | 0     | 2       |
|                  |                        | <i>tectigera</i>    | 0      | 1        | 0     | 3       |
|                  |                        | <i>timida</i>       | 0      | 4        | 0     | 0       |
|                  |                        | <i>Glyphis</i>      | 0      | 0        | 0     | 1       |

|                  |                      |                          |   |    |   |   |
|------------------|----------------------|--------------------------|---|----|---|---|
|                  | <i>Graphis</i>       | <i>scyphulifera</i>      | 0 | 1  | 0 | 0 |
|                  |                      | <i>cincta</i>            | 0 | 0  | 1 | 1 |
|                  |                      | <i>conferta</i>          | 0 | 0  | 0 | 1 |
|                  |                      | <i>crebra</i>            | 0 | 0  | 0 | 1 |
|                  |                      | <i>dendrogramma</i>      | 2 | 5  | 3 | 1 |
|                  |                      | <i>duplicatoinspersa</i> | 0 | 2  | 0 | 3 |
|                  |                      | <i>furcata</i>           | 0 | 2  | 0 | 1 |
|                  |                      | <i>hyphosa</i>           | 0 | 1  | 0 | 0 |
|                  |                      | <i>immersicans</i>       | 0 | 0  | 1 | 0 |
|                  |                      | <i>imshaugii</i>         | 0 | 0  | 0 | 1 |
|                  |                      | <i>lineola</i>           | 0 | 4  | 1 | 1 |
|                  |                      | <i>modesta</i>           | 0 | 6  | 1 | 0 |
|                  |                      | <i>pinicola</i>          | 0 | 0  | 1 | 2 |
|                  |                      | <i>sp1</i>               | 0 | 0  | 0 | 1 |
|                  |                      | <i>sp2</i>               | 0 | 0  | 0 | 1 |
|                  |                      | <i>sp. nov. 1</i>        | 0 | 2  | 0 | 0 |
|                  |                      | <i>sp. nov. 2</i>        | 0 | 1  | 0 | 1 |
|                  |                      | <i>sp. nov. 3</i>        | 0 | 1  | 0 | 0 |
|                  |                      | <i>subamylacea</i>       | 1 | 0  | 0 | 0 |
|                  |                      | <i>subhiascens</i>       | 0 | 1  | 0 | 0 |
|                  |                      | <i>submarginata</i>      | 0 | 2  | 0 | 4 |
|                  |                      | <i>subserpentina</i>     | 0 | 2  | 0 | 0 |
|                  |                      | <i>sundarbanensis</i>    | 0 | 0  | 0 | 1 |
|                  |                      | <i>supracola</i>         | 2 | 10 | 7 | 4 |
|                  |                      | <i>tenerioriensis</i>    | 0 | 0  | 1 | 0 |
|                  | <i>Leucodecton</i>   | <i>occultum</i>          | 1 | 7  | 2 | 3 |
|                  | <i>Phaeographis</i>  | <i>galeanoae</i>         | 0 | 2  | 3 | 0 |
|                  | <i>Sarcographa</i>   | <i>tricosa</i>           | 0 | 1  | 2 | 0 |
| Gyalectaceae     | <i>Gyalecta</i>      | <i>nana</i>              | 0 | 1  | 0 | 0 |
| Teloschistaceae  | <i>Lacrima</i>       | <i>epiphora</i>          | 0 | 0  | 0 | 1 |
| Lecanographaceae | <i>Lecanographa</i>  | <i>sp. nov.</i>          | 0 | 1  | 1 | 0 |
|                  | <i>Zwackhia</i>      | <i>bonplandii</i>        | 0 | 4  | 2 | 2 |
|                  |                      | <i>sp1</i>               | 0 | 1  | 0 | 0 |
| Lecanoraceae     | <i>Lecanora</i>      | <i>achroa</i>            | 1 | 4  | 0 | 3 |
| Malmideaceae     | <i>Malmidea</i>      | <i>fuscella</i>          | 0 | 4  | 0 | 0 |
|                  |                      | <i>gyalectoides</i>      | 0 | 1  | 1 | 0 |
|                  |                      | <i>leptoloma</i>         | 0 | 5  | 0 | 0 |
|                  |                      | <i>sp1</i>               | 0 | 2  | 0 | 0 |
| Monoblastiaceae  | <i>Anisomeridium</i> | <i>sp1</i>               | 0 | 0  | 0 | 1 |
|                  | <i>Monoblastia</i>   | <i>rappii</i>            | 0 | 1  | 0 | 1 |
| Opegraphaceae    | <i>Opegrapha</i>     | <i>aperiens</i>          | 1 | 0  | 0 | 0 |

|              |                     |                         |   |   |   |   |
|--------------|---------------------|-------------------------|---|---|---|---|
|              |                     | <i>atrátula</i>         | 0 | 1 | 2 | 0 |
|              |                     | <i>atrórufescens</i>    | 0 | 1 | 1 | 0 |
|              |                     | <i>chlorographoides</i> | 0 | 0 | 0 | 1 |
|              |                     | <i>concatenata</i>      | 0 | 2 | 0 | 1 |
|              |                     | <i>dekeselii</i>        | 2 | 4 | 1 | 1 |
|              |                     | <i>difficilior</i>      | 0 | 7 | 1 | 2 |
|              |                     | <i>fuscula</i>          | 0 | 3 | 0 | 0 |
|              |                     | <i>linguata</i>         | 0 | 1 | 0 | 4 |
|              |                     | <i>octomera</i>         | 0 | 1 | 0 | 0 |
|              |                     | <i>quinqueseptata</i>   | 0 | 0 | 0 | 1 |
|              |                     | <i>quintana</i>         | 0 | 3 | 0 | 0 |
|              |                     | <i>rionegrensis</i>     | 0 | 3 | 0 | 0 |
|              |                     | <i>sp1</i>              | 1 | 1 | 0 | 1 |
|              |                     | <i>sp. nov. 1</i>       | 0 | 1 | 0 | 0 |
|              |                     | <i>sp. nov. 2</i>       | 1 | 0 | 0 | 0 |
|              |                     | <i>sp. nov. 3</i>       | 0 | 0 | 1 | 1 |
|              |                     | <i>sp. nov. 4</i>       | 0 | 1 | 0 | 0 |
|              |                     | <i>sp. nov. 5</i>       | 0 | 0 | 0 | 1 |
|              |                     | <i>tartarea</i>         | 0 | 1 | 0 | 0 |
|              |                     | <i>trilocularis</i>     | 0 | 0 | 0 | 1 |
|              |                     | <i>vulgata</i>          | 0 | 6 | 2 | 2 |
| Pannariaceae | <i>Parmeliella</i>  | <i>sp1</i>              | 0 | 2 | 1 | 0 |
| Physciaceae  | <i>Hyperphyscia</i> | <i>adglutinata</i>      | 0 | 0 | 0 | 3 |
|              |                     | <i>mobergii</i>         | 0 | 1 | 1 | 5 |
|              |                     | <i>sp. nov.</i>         | 0 | 0 | 0 | 1 |
|              | <i>Physcia</i>      | <i>crispa</i>           | 0 | 1 | 0 | 0 |
| Porinaceae   | <i>Porina</i>       | <i>aenea</i>            | 0 | 4 | 0 | 1 |
|              |                     | <i>borreri</i>          | 1 | 0 | 0 | 3 |
|              |                     | <i>cestrensis</i>       | 0 | 1 | 0 | 2 |
|              |                     | <i>conspersa</i>        | 0 | 8 | 0 | 1 |
|              |                     | <i>curtula</i>          | 0 | 8 | 0 | 2 |
|              |                     | <i>leptalea</i>         | 0 | 0 | 0 | 3 |
|              |                     | <i>sp1</i>              | 0 | 0 | 1 | 0 |
|              |                     | <i>sp. nov.</i>         | 0 | 3 | 0 | 0 |
|              |                     | <i>subnucula</i>        | 0 | 2 | 0 | 0 |
| Pyrenulaceae | <i>Astrothelium</i> | <i>feeii</i>            | 0 | 0 | 0 | 1 |
|              |                     | <i>nitidiusculum</i>    | 0 | 1 | 0 | 0 |
|              |                     | <i>sp1</i>              | 0 | 2 | 0 | 0 |
|              |                     | <i>sp. nov.</i>         | 0 | 1 | 2 | 1 |
|              | <i>Lithothelium</i> | <i>decumbens</i>        | 0 | 1 | 0 | 0 |
|              |                     | <i>obtectum</i>         | 0 | 8 | 0 | 0 |

|                 |                       |                      |    |    |   |   |
|-----------------|-----------------------|----------------------|----|----|---|---|
|                 | <i>Pyrenula</i>       | <i>approximans</i>   | 0  | 1  | 0 | 0 |
|                 |                       | <i>aspistea</i>      | 0  | 1  | 0 | 0 |
|                 |                       | <i>brunnea</i>       | 0  | 4  | 0 | 0 |
|                 |                       | <i>cascarillae</i>   | 0  | 2  | 0 | 0 |
|                 |                       | <i>cubana</i>        | 0  | 2  | 0 | 0 |
|                 |                       | <i>dissimulans</i>   | 0  | 0  | 0 | 1 |
|                 |                       | <i>mastophoriza</i>  | 1  | 0  | 0 | 0 |
|                 |                       | <i>minor</i>         | 1  | 0  | 0 | 0 |
|                 |                       | <i>nitidula</i>      | 0  | 6  | 0 | 2 |
|                 |                       | <i>ochraceoflava</i> | 1  | 10 | 6 | 5 |
|                 |                       | <i>quassiicola</i>   | 0  | 1  | 0 | 0 |
|                 |                       | <i>sp1</i>           | 0  | 1  | 1 | 0 |
|                 |                       | <i>sp. nov.</i>      | 0  | 3  | 0 | 0 |
|                 |                       | <i>subgregantula</i> | 0  | 7  | 1 | 1 |
|                 |                       | <i>thelomorpha</i>   | 1  | 4  | 0 | 2 |
| Ramalinaceae    | <i>Bacidia</i>        | <i>sp1</i>           | 0  | 1  | 0 | 0 |
|                 |                       | <i>sp2</i>           | 0  | 0  | 1 | 1 |
|                 |                       | <i>sp3</i>           | 0  | 0  | 0 | 2 |
|                 | <i>Bacidina</i>       | <i>medialis</i>      | 1  | 18 | 0 | 4 |
|                 |                       | <i>sp1</i>           | 0  | 6  | 3 | 5 |
|                 |                       | <i>sp2</i>           | 0  | 2  | 0 | 1 |
| Roccellaceae    | <i>Bactrospora</i>    | <i>myriadea</i>      | 0  | 1  | 1 | 3 |
|                 |                       | <i>sp. nov.</i>      | 0  | 0  | 0 | 1 |
|                 | <i>Enterographa</i>   | <i>pallidella</i>    | 0  | 1  | 0 | 1 |
|                 |                       | <i>quassiicola</i>   | 2  | 0  | 0 | 0 |
|                 |                       | <i>sp. nov.</i>      | 0  | 0  | 1 | 1 |
|                 | <i>Mazosia</i>        | <i>carnea</i>        | 11 | 8  | 1 | 2 |
|                 |                       | <i>sp1</i>           | 0  | 2  | 0 | 0 |
|                 |                       | <i>viridescens</i>   | 1  | 1  | 1 | 1 |
|                 | <i>Syncesia</i>       | <i>effusa</i>        | 0  | 0  | 2 | 0 |
|                 |                       | <i>rhizomorpha</i>   | 0  | 0  | 2 | 0 |
|                 |                       | <i>sp1</i>           | 0  | 0  | 1 | 0 |
|                 | <i>sp</i>             | <i>sp1</i>           | 0  | 1  | 1 | 6 |
|                 | <i>Vigneronia</i>     | <i>caceresiana</i>   | 0  | 2  | 0 | 0 |
| Stereocaulaceae | <i>Lepraria</i>       | <i>sp1</i>           | 0  | 1  | 0 | 0 |
|                 |                       | <i>sp2</i>           | 0  | 1  | 0 | 0 |
|                 |                       | <i>sp3</i>           | 0  | 0  | 2 | 0 |
|                 |                       | <i>sp4</i>           | 0  | 0  | 2 | 0 |
| Strigulaceae    | <i>Dichoporis</i>     | <i>viridiseda</i>    | 0  | 2  | 1 | 3 |
| Trypetheliaceae | <i>Nigrovothelium</i> | <i>tropicum</i>      | 0  | 0  | 0 | 1 |
|                 | <i>Pseudopyrenula</i> | <i>americana</i>     | 0  | 1  | 0 | 0 |

|                   |                      |                     |           |            |            |            |
|-------------------|----------------------|---------------------|-----------|------------|------------|------------|
|                   |                      | <i>cubana</i>       | 0         | 1          | 0          | 1          |
|                   |                      | <i>diluta</i>       | 0         | 10         | 2          | 0          |
|                   |                      | <i>media</i>        | 0         | 1          | 0          | 0          |
|                   |                      | <i>sp1</i>          | 0         | 1          | 0          | 2          |
|                   |                      | <i>subnudata</i>    | 0         | 6          | 7          | 2          |
|                   |                      | <i>thallina</i>     | 2         | 3          | 0          | 2          |
|                   | <i>Trypethelium</i>  | <i>subeluteriae</i> | 0         | 1          | 1          | 0          |
|                   | <i>Viridothelium</i> | <i>sp. nov.</i>     | 0         | 0          | 2          | 0          |
| <b>Riqueza</b>    |                      |                     | <b>25</b> | <b>110</b> | <b>55</b>  | <b>93</b>  |
| <b>Frecuencia</b> |                      |                     | <b>47</b> | <b>332</b> | <b>105</b> | <b>192</b> |

**Supplementary S3.** Most abundant lichens: A. *Arthonia rubella*, B. *Bacidina medialis*, C. *Coniocarpon cinnabarinum*, D. *Graphis supracola*, E. *Mazosia carnea*, F. *Pyrenula ochraceoflava* . Species rare: G. *Coenogonium* sp., H. *Eremithallus* sp., and I. *Lacrima epiphora*.



**Supplementary S4.** Venn diagram representing the unique and shared number of taxa for each site.

