Lichens

of the

Hausler Expedition, 1872.

by

Edward Tuckerman

Triche I. — Parmeliaceae.

1. Roccella

1. *R. tinctoria* Sb. Galapagos — Sterile.
2. *R. leucophaea* Tuck. San Diego Calif. Fert.
3. *R. phycopsis* Ach. Galapagos — Sterile
4. *R. fuciformis* (L.) Ach. " "

2. Ramalina

1. *R. Menziesii* Tuckerm. San Diego.
2. *R. ceruchis* Ach. " "
- " " on stones Chili & Peru.
3. " *laevigata* Fr. Rio, — Chili & Peru
4. " *complanata* (Sw.) Ach. Galapagos Isl^{ts}
5. " *urceoides* (Ach.) Fr. Panama.
6. " *pollinaria* (Ach.) Rub. Garden, Loria, Peru.
7. " *status incompletus* — Chiloe.

3. Lecetaria.

1. *L. nivalis* (L.) Ach. — Str. of Magellan.
2. *saepticola*, v. *chlorophylla* Wabl. — Sb.

4. *Ulnea*

1. *U. sulphurea* (Müll. Arg.) Th. Fr. Str. of Magellan.
2. " *barbata* (L.) Fr. Lb.
3. " *angulata* Ach. Prot Famine

5. *Alectoria*

1. *A. ochroleuca*. v. *sarmentosa* Nyl. - Galapagos
2. " " Possibly new. but infertile & indeter-
minate. " Juck. ms. Sandy Point, Str of Magellan.
The thallus is tufted, rigid, the branches com-
pressed, intertangled, forked at the extremities,
with short, spreading, branchlets, dark - brown,
shining. N. I.

6. *Heloschistes*

1. *H. chrysophthalmus* (L.) Norm. Talcahuano, Chili.
- " " v. *flavicans* J. J. Juck. Rio.
2. *H. parietinus* (L.) Norm. Talcahuano on trees.
also on stones Galapagos.
- " " v. *pygmaeus* Fr. Str. of Magellan.
- " " v. *lychnaeus* Schaer. Talcahuano.

7. *Parmelia*

1. *P. pulcata* (L.) Ach. Galapagos
2. " *perfrata* (Jacq.) Ach. Juan Fernandez
" *v. cetrata* Ach. ~~Lehili~~
3. " *laevigata* (Sm.) Nees
4. " *saxatilis* (L.) Fr. Sandy Point, Str. of Magellan
5. *P. physodes* (L.) Ach. Shell Bay.
6. *P. perlucida* (Schrank.) Schaer. ib. & Str. of Magellan.
7. *P. cinnamomea* Ach. ib. ib.
8. *P. olivacea* (L.) Ach. on bark Sandy Pt. Str. of Mag.
" *v. endocrocin* Tuck. Mus. on Stones " "

The thallus is rufous-colored within.

9. *P. conspersa* (Ehrh.) Ach. Galapagos

8. *Physcia*

1. *P. stellaris* (L.) Galapagos, Lehili
2. " "rather var. *astroidea*" Tuck. Mus. Galap. J. Fernandez

9. *Pyxine*

1. *P. picta* (Sw.) Tuck. Galapagos on bark & stones
2. " *coccos* (Sw.) Nees. ib.

10. *Sucta*.

A. *Petalonia*

1. *S. intricata* Del. v. *Thomassii* (Del.) Agl. Str. of Mag.
2. *" crocata* L.) Ach. " "
- " v. *Malloca* Tuck. Syn. I. p. 101. " " *Thellus*
- hirsute* on both sides; ap. the marginal. *Aligae*. *Sper*
- Heloc.* ^{0.25-30} 0.8-1.1 mm. [Not in the collection.]
3. *" carptotermis* Del. Str. of Magell.
4. *" granulata* Bab. " "
5. *" granulata* Bab. " "
6. *" filix* (Sw.) [*S. filicina* Ach., Agl. Syn. I. p. 349].
- Eden Harbor* Str. of Magell.
- " " var. *Sholl Bay* " "

B. *Sucta*

7. *" damascensis* (Sw.) Ach. " - *Juan Fernandez*.
8. *" nitida* Tuck. Str. of Magell. lb
9. *" bursillii* Del. lb.
- " v. *flavescens* (Tuck.) Agl. lb.
10. *" obsoleta* Ach. lb.
11. *" hirsuta* Murb. lb.
12. *" Heydreichii* Del. lb.

- 13 S. ——— Thallus in the single specimen, moss-
 polygones, orbicular, entire, above smooth, pale-glaucous
 cent, beneath of nearly the same color, naked, with small
 yellow cyphellae. Apothecia scattered, sessile, the in-
 flexed margin entire, the disk brownish-black. Spores
 fusiform, without color. 4-locular ^{0.23-33} 0.25-4 mm. *Gracilis*
vicidia. Tuck. ms. Sandy Point, Str. of Magellan,

This plant is not described in *Nyl. Syn.* There is but
 1 sp.

3. *Riccardia*

14. S. ^{ana} *Hillii* Tuck ms. Thallus in the single fragment,
 lacinate, the laciniae oblong, crenate lobate, above reticu-
 late-lucumose, glaucouscent, beneath, black, naked,
 without cyphellae. Apothecia, scattered, sessile, the
 margin entire, the disk brownish-black. Spores
 fusiform 2-locular, brown, ^{0.24-30} 0.7-9 mm. Juan Fernandez.

11. *Nephroma*

1. *N. antarcticum* (Jacq.) Nyl.

12. *Peltigera*.

- v. *Fuegensis* J. Syn II. p. 143.
 1. *P. polydactyla* (Neck.) Hoffm. Str. of Magellan
 2. *P. malacea* (Ach.) Fr. lb.
 3. *P. inferens* (Neck.) Hoffm. lb.
 4. *P. canina* f. *pusilla* [v. *pusilla* Ach. T. Syn. p. 109.] lb.

13. *Ericodesmia*

1. *E. velligerum* Tuck. Obs. 1877, p. 168. Str. of Magellan
 Not in the collection.

14. *Pannaria*

1. *P. hypnorum* (Hoffm.) Klr. Str. of Magellan.
 2. " *nigrocincta* Mont. Juan Fernandez.
 3. " *sphinctrina* Mont. Str. of Magell. Chile. Juan Fernandez.
 4. " *sympetichia* Tuck. Obs. 1877, p. 168. Juan Fernandez.

Not in the collection.

14 b. ? *Endocarpium*.

A sterile plant from San Bartholomew. IV, 2.

15. *Leptogium*.

1. *L. tremelloides* (L. fil.) Fr. Juan Fernandez.
 2. " *chloromelum* (Sw.) Nyl. Galapagos.

16. *Placodium*

1. *P. elegans* (Leite.) Ste. Galapagos.
2. " *ferugineum* Tuck. obs. 1877, p. 171. Rocks, Chile
Not in the collection.
3. " *flavidum* Tuck. Syn. I. p. 179. Galapagos.
4. " *aurantiacum* (Leight.) Noy. Talcahuano

17. *Dicranella*

1. *D. repanda* (Fr.) Noy

18. *Lecanora*

1. " *L. squamulosa*? To be examined. "Tuck, ms, Rocks, Chile
+ Peru. The specimen in the collection is sterile.
2. *L. gelida* (L.) Ach. Galapagos
3. " *rubrescens* (L.) Ach. Bark & Stone Galapagos.
4. " " *chilensis* [v. *distans*, Ach. Tuck, Syn. I. p. 188,] Galapagos.
4. " *glaucovirens* Tuck, obs. 1877, p. 172. Galapagos.
5. " *denticulata* Tuck. lb. p. 173. Chile. Str. of Magellan.
Not in the collection.
6. " *atra* (Huds.) Ach. Galapagos.
7. " *pumicea* Ach. lb.
8. " *hallescens* (L.) Schaer. Bark & Stone Galapagos.
9. " *cinnerea* (L.) Sommf. Galapagos.

10. *L. ceruvia*, v. *discreta* [*L. fuscata*, v. *ufescens* Fr., Tuck. Squ.
I, p. 203. with *L. cinerea*.

19 *Rinodina*

1. *R. sulphurella* Tuck. ms. *Thallus crustaceus rimose-areolate*, from pale-sulphur colored becoming whitish. Apothecia minute, uniate-superficial, the discs black. Spores 2-locular, brown. ⁶¹¹⁻¹⁵ 0.6-8 mm. Rocks, Galapagos.
2. *R. manillana* Tuck. Haw. p. 246. Obs. 1877, p. 14. Galapagos. — Not in the collection.

20. *Pertusaria*

1. *P. thamnoplaca* Tuck. Obs. 1877, p. 175. Str. of Magellan. The oldest name, according to E. J. in litt. is *P. coccophora*, Mont. (Phy. cca Mont. Chel. p. 138 t. 12, Syll. p. 330. *Thamnoplaca* - *hyp. Pyrenocarb.* p. 10.
2. *P. colobina* Tuck. *ut supra*.
3. *" albina* *" ut supra*. Galapagos
4. *" leioplaca* (Ach.) Schaer. *lb.*
5. *pusillata* th *luteola* Tuck. ms. *lb.*
6. *" scutellina* Tuck. ms. *Thallus*, in the solitary specimen about 1 inch in diameter. *lb.*

unlike, white. Apothecia in prominent, tall
 stalks, the disk at length open, black, merohyale-
 mous, Spores 2. about ^{100-115.} 50-60 μ m. resembling those
 of *P. pustulata*. On stone, Chile

A rock plant from Sholl Bay, somewhat similar
 to the foregoing, is labelled "*Pentstemon f. variegatus*"
 The apoth., are transformed into soredia,

21. *Thelotrema*.

1. *T. lepadinum* Ach. Chile

Tribe II. Leideacei

22. Sieroscaulon

1. *S. ramulosum* (Sw.) Ach. v. *macrocarpum*.

Abf. Chile

do. var. Juan Fernandez, Chile, Str. of Magellan.

23. Leiadonia

1. *L. fimbriata* (L.) Fr. Str. of Magellan

" *f. filula* [v. *tubaeformis* Fr.] Tuck. Syn. p. 241. lb.

" *v. adspersa* ? *munis incert.* Tuck. ms. lb.

2. " *gracilis* (L.) Hoff. v. *elongata* Fr. lb.

3. " *cenotea* (Ach.) Schaer. "

4. " *fuscata* (Huds.) Fr. v. *grandis* Tuck. ms. "

" " var. Juan Fernandez.

5. " *aggregata* Echw. Str. of Magellan.

6. " *ringefurum* v. *alpestre* L. do

7. " *cornu-pisoides* (L.) Fr. "

8. " *macilentia* (Echw.) Hoffm. Juan Fernandez.

24. Leocnogeomum

1. *L. Linkii* Echw. ? Sterile

25 Biatora

1. "B. melaleuca miki, saltem pro parte, specis
tamen non visis" E. T. no. Sandy Point. The
species is nowhere described & the sp^m is too
meager to attempt a definition
2. B. (Biatorina) atro-purpurea. Talcahuano.
3. B. (Bacidia). Shovel Bay. Perhaps B. patell-
arum Agl. Lich. Fleg. (1888) p. 13.
(Bacidia)
4. B. Galapagensis Tuck. no. Galapagos
Thallus white, effuse, areolate. Disk of apothecia
black, at length convex, ^{the margin} now slightly suffused with
the thallus, within white. Spores acicular, plur-
ilocular. Tuckerman enumerates Syn. II. p. 45.
that B. atrovirens (Delis.) Lepp. is among the lichens
of these Islands. Exp. There is no specimen by that
name in the collection, & it is uncertain whether
B. Galap. is to be considered as belonging to it.
5. B. (Bacidia) — A scanty sp^m from Park
Farmine.

26 *Lecidea*

- 1 *L. prophylla* Tuck. Obs. '77 p. 184. Sta of Magellan.
2. *L. entervallae* Fr. On bark Chile.

27 *Buellia*

- 1 *B. straminea* Tuck. ms. Thallus areolate at the centre, at the circumference lacinate, narrow, closely attached to the substrate, straw colored. Apoth. minute, sessile, the entire obtuse margin at first exceeding the flat disk, at length curved to the margin excluded, spores ellipsoid 2 locular, brown, ^{long ~ 12} ^{wide ~ 7} mm. On rocks, Galapagos.
2. *B. lactea* v. *Galapagensis* Tuck. ms. Rocks, Galapagos, [In Syn. II. p. 91. *B. lactea* is referred to *B. spuria* (Schaer.) Arn.
3. *B. parasema* (Ach.) Kbr. On bark Sta. of Magellan, & stones, Chile.
4. *B. petraea* (H.) Tuck. Sta of Magellan with *L. prophylla*. Obs. l. c.
5. *B. geographica* (L.) Th. Fr. As the preceding.

Graphidacei

28. *Grana*

1. *G. repanda* (Fr.) Galapagos. [This genus is usually referred to the Lecanorei. But on account of the genicoid system, some later writers (Dr Müller in Graph. Fossae) have placed it in this tribe.

29 *Lecanactis*

1. *L. chilensis* Tuck. ms., Thallas tortuosus, verrucosus, & plicate-lobate, glaucescent. Apoth. situated on the verrucosae, middling sized. the disk plane, black, grayish pruinose, with an entire, obtuse thalline margin. "Spores sub 4-vec, 4 loc. incol. clavatae $\frac{2.3-2.8}{4-5}$ mic." Chili & Peru on rocks.

2. *L. pruinosa* (Ach.) Skull Bay.

3. *L. ? Lecanactis* spp. mult. L.V. 17 IV.

30 *Graphis*

1. *G. rigida* (Fée) hyp. —

2. *G. dendroica* Ach. Str. of Magellan

3. " *P. scripta* (L) Chili

4. " *P. nitida* Eschew. Str. of Magellan

29 b. ? *Enterographa*

1. A plant from Chili & Galapagos 3 IV

2. A scanty plant from "

5 *G. tricolor* Ach. Galapagos.

6. *G.* — " 6 N

7. " — Str of Magellan S. IV.

Fragment of other species

31. *Opegrapha*

1. *O. Martii* Kph. Chili

Other spp. 8, 9, 16 N

32. *Anthracina*

1 *A. cinnabarina* Wallr. Chili, Galap.

2. *A. P. platyspila* Kph. Galapagos

3 *A. P. pruinosa* Ach. —

4 *A. P. alborufella* Kph Galapagos Spores O.

5 *A. lacinella* Kph. Str of Magellan

6 *A. complanata* Fee " "

Other spp 10, 11, 12, 13, 14, 15 N.

33. *Chiodacton*

1. *Ch. rubrocinctum* (Ehrh.) Chili

34. Mycopora —

1. A scarcely spm from Juan Fernandez
 Sh. 2 locular.

Lealiciacei

35. Sphaerophorus

1. S. australe Lam. Sta of Magellan
 2. S. globiferus (L.) " "

36. Lealicium

1. L. subtile Fr. A few stipes seen in bush

Verrucariacei

37. Verrucaria

1. P.V. — On rocks Sta. of Magellan. Spores O.

38. Pyrenula

1. P. punctiformis — Hept. Rio + Sta.
 2. P. leichona Ach. Talcahuano
 3. P. amarantica Fée Golap.

- 4 *P. glabrata* Ach. Talcuahuano
 - 5 *P. thecaea* " Galap.
 - 6 *P. ochraceo-flava* Nyl. Galap.
 - 7 *P. cinella* Fl. "
 - 8 *P. geminata* Ach. " Talcuahuano
- 1 pp. not determined.