

**STUDIES IN THE BOTANY OF CALIFORNIA AND PARTS
ADJACENT.**

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VI.

1. Notes on the Botany of Santa Cruz Island.

Santa Cruz is one of the principal units in a succession of eight islands which lie along the Coast of California south of Point Conception. All but two or three of the smaller members of the group are near enough to the mainland to be plainly visible on a clear day; and the arrival at any one of them, except the two or three most remote, is only a matter of an afternoon's sail from one or another of the mainland seaport towns of that part of the State. To people who know something of the special interest which attaches to insular natural history in general, it may seem strange that, while the mainland botany of California has been, during the last thirty years, assiduously cultivated by many collectors, amateurs and professional botanists, these large islands, so near at hand, have been left until recently quite unexplored. Removed as they are to hardly more than a song bird's flight from the California Coast Range of mountains, it may have been inferred that their vegetation would be altogether that of the mainland; and that the scientific exploration of no one of them would be likely to repay the possible discomforts of a day's sail across the channel and a week's encampment on ground so rugged, and withal so barren looking as all these island steeps appear when viewed from a distance of twenty or thirty miles.

But the few fragments of positive botanical information which did, years ago, come in from one and another of the group, were sufficient to indicate the probability of many interesting peculiarities in their flora. Some forty-four years ago Mr. William Gambel of Philadelphia, an ornithol-

198. *ERYTHRÆA DOUGLASII*, Gray, Bot. Cal. i. 480.
199. *GILIA ATRACTYLOIDES*, Steud. Nom. i. 683.
200. *GILIA FILIFOLIA*, Nutt. Pl. Gamb. 156.
201. *GILIA MULTICAULIS*, Benth.
202. *NEMOPHILA RACEMOSA*, Nutt.; Gray, Proc. Am. Acad. x. 315.
203. *EUCRYPTA CHRYSANTHEMIFOLIA*, Greene, Bull. Cal. Acad. i. 200.
204. *PHACELIA HISPIDA*, Gray, 2. i. 161.
205. *PHACELIA SUFFRUTESCENS*, Parry, Proc. Davenp. Acad. iv. 38.
206. *PHACELIA PARRYI*, Torr. Bot. Mex. Bound. 144.
207. *EMMENANTHE PENDULIFLORA*, Benth. Trans. Linn. Soc. xvii. 281.
208. *PECTOCARYA PENICILLATA*, A. DC. Prod. x. 120.
209. *KRYNITZKIA LEIOCARPA*, Fisch. & Mey. Sem. Petrop. 1835, 36.
210. *KRYNITZKIA MICROMERES*, Gray, Proc. Am. Acad. xx. 274.
211. *KRYNITZKIA JONESII*, Gray, l. c.
212. *PLAGIOBOTHRYIS CALIFORNICUS* = *Echidiocarya Californica*, Gray, Proc. Am. Acad. xii. 164 (1877); *Plagiobothrys Cooperi*, Gray, l. c. xx. 285 (1884).
213. *HELIOTROPIUM CURASSAVICUM*, Linn. Sp. Pl. 130.
214. *AMSINCKIA LYCOPSOIDES*, Lehm. Sem. Hamb. 1831, 7.
215. *AMSINCKIA INTERMEDIA*, Fisch. & Mey. Sem. Petrop. 1835, 26.