

<i>Fungia scutaria</i> , Lamk.	<i>Madrepora dana</i> , Verrill.
„ <i>paumotensis</i> , Stutchb.	„ <i>nasuta</i> , Dana.
„ <i>concinna</i> , Verrill.	„ <i>paxilligera</i> , Dana.
„ <i>discus</i> , Dana.	„ <i>speciosa</i> , n. sp.
<i>Sandalolitha dentata</i> , n. sp.	„ <i>cytherea</i> , Dana.
<i>Pavonia formosa</i> , Dana.	„ <i>surculosa</i> , Dana.
„ <i>prætorata</i> , Dana.	„ <i>laxa</i> , Lamk.
<i>Pachyseris speciosa</i> , Dana.	„ <i>parilis</i> , n. sp.
<i>Domoseris porosa</i> , n. sp.	<i>Montipora aspera</i> , Verrill.
„ <i>solida</i> , n. sp.	„ <i>papillosa</i> , Lamk.
„ <i>regularis</i> , n. sp.	<i>Porites arenosa</i> , Esper.
<i>Trochoseris stokesi</i> , Edw. and H.	„ <i>latistellata</i> , n. sp.
<i>Cyloseris incrustans</i> , n. sp.	<i>Synaræa convexa</i> , Verrill.
<i>Madrepora retusa</i> , Dana.	<i>Napopora irregularis</i> , n. sp.
„ <i>plantaginea</i> , Lamk.	<i>Millepora nodosa</i> , Esper.
„ <i>virgata</i> , Dana.	„ <i>gonagra</i> , Edw. and H.

“The most abundant reef-forming species on the reefs about Papiete are the species of *Pavonia*. With them are associated in quantity the species of *Porites*, the *Madrepora*, and the *Montipora*. The *Astræa* (*Leptastræa*) occurs in very small masses, and contributes no appreciable part of the reef mass. The *Fungias* are so abundant, lying scattered everywhere on the surface of the reef in a few inches of water only, that their share here in the reef-formation must be no inconsiderable one. The closely-set vertical plates of the *Pavonia* are better adapted than any other for catching and holding the various débris of which the bulk of every coral-reef is composed. The *Pocilloporas* are abundant, but are not here, as at Hawai, the leading and principal form.”<sup>1</sup>

The following eleven species are new :—

<i>Pocillopora solida</i> .	<i>Domoseris regularis</i> .
<i>Fungia rugosa</i> .	<i>Cyloseris incrustans</i> .
<i>Sandalolitha dentata</i> .	<i>Madrepora speciosa</i> .
<i>Domoseris porosa</i> .	„ <i>parilis</i> .
„ <i>solida</i> .	<i>Porites latistellata</i> .
	<i>Napopora irregularis</i> .

Of these, four species, *Sandalolitha dentata*, *Domoseris porosa*, *Cyloseris incrustans*, and *Napopora irregularis*, are types of new genera.

The following nineteen species are recorded for the first time from Tahiti :—

<sup>1</sup> Moseley, MS. Diary.