

Effects of marine reserves and urchin disease on southern Californian rocky reef communities

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The original Table 2 (p. 135) is updated here to reflect minor changes. The original data file was slightly corrupted, likely due to an error in sorting the data. We re-checked all the data and, where necessary, we reproduced data from the original National Park Service Database and re-ran all analyses. Although the general conclusions in this section of the paper remained unaltered, the strength of some correlations changed. Certain species were no longer significantly correlated with particular states, such as the predatory seastar *Pycnopodia helianthoides* and the sea urchin *Lytechinus anamesus*. These changes are due to a loss

of power after Bonferroni correction rather than a change in the direction of the correlation. The status of one invertebrate species, the predatory gastropod *Kelletia kelletii*, changed from being correlated with barrens to being correlated with kelp forests. For algal taxa, the patterns of association became clearer, with all non-ephemeral fleshy taxa being correlated with kelp forests. For the fish taxa, a single species, the striped surfperch *Embiotoca lateralis*, was significantly correlated with kelp forests. In the corrected table, species whose status changed as a result of the correction are given in bold.

Table 2. Associations between taxa and rocky reef states. Partial correlation results of species densities and canonical scores controlling for site and year. Species are ranked in descending order based on the strength of the association. Some taxa (*) were included in discriminant analysis and therefore excluded from partial correlation analysis due to lack of independence. However, we include them with the community state that they are associated with based on their sign within the discriminant function

	Correlated with barrens	Not correlated	Correlated with kelp forests
Algae	Crustose coralline algae* Bare substrate*	Miscellaneous plants Miscellaneous green algae	Articulated coralline algae <i>Cystoseira</i> spp. Miscellaneous red algae <i>Laminaria farlowii</i> <i>Gigartina</i> spp. Miscellaneous brown algae <i>Pterogophora californica</i> <i>Eisenia arborea</i> <i>Gelidium</i> spp. <i>Desmarestia</i> spp. <i>Macrocystis pyrifera</i> *
Invertebrates	<i>Strongylocentrotus franciscanus</i> Gorgonians <i>Pisaster giganteus</i> <i>Megathura crenulata</i> <i>Cypraea spadicea</i> <i>Strongylocentrotus purpuratus</i> * <i>Astrangia lajollaensis</i> * <i>Corynactis californica</i> *	<i>Aplysia californica</i> <i>Pachythione rubra</i> <i>Lytechinus anamesus</i> <i>Tethya aurantia</i> <i>Pycnopodia helianthoides</i> <i>Stylaster californica</i> <i>Lithopoma undosum</i> <i>Balanophyllia elegans</i> <i>Parastichopus parvimensis</i> <i>Asterina miniata</i> <i>Serpulorbis squamigerous</i> Miscellaneous invertebrates	Bryozoans Sponges <i>Phragmatopoma californica</i> <i>Urticina lofotensis</i> <i>Panulirus interruptus</i> <i>Haliotis corrugata</i> <i>Crassedoma giganteum</i> <i>Kelletia kelletii</i> <i>Diaperoecia californica</i> *
Fishes	<i>Coryphopterus nicholsi</i> <i>Lythrypnus dalli</i> <i>Chromis punctipinnus</i>	<i>Sebastes mystinus</i> <i>Oxyjulis californica</i> <i>Semicossyphus pulcher</i> <i>Paralabrax clathratus</i> <i>Sebastes atrovirens</i> <i>Damalichthys vacca</i> <i>Girella nigricans</i> <i>Hypsypops rubicundus</i> <i>Alloclinus holderi</i> <i>Sebastes serranoides</i> <i>Embiotoca jacksoni</i>	<i>Embiotoca lateralis</i>