southern parts of the bay indicates that conditions there represent limits of tolerance for both and thus constitute a physiological barrier to the distribution of each. Whether the limiting factors operate on survival of adults or young, reproduction, or indirectly through food supply is a question that might be resolved by experiment.

The food, predators, and other biotic relationships of the Californian species of Synidotea have not been adequately studied. The frequent association of S. pettiboneae and S. berolzheimeri with the hydroid Aglaophenia indicates that they feed on it. S. laticauda doubtless feeds upon the gymnoblastic hydroid, Bimeria franciscana Torrey in San Francisco Bay (Miller 1968). The association of many species with bryozoans also leads one to suspect that these are a common source of food.

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