

## **Recent Advances in the Physiological Ecology of Pacific Bluefin Tuna Derived from Current Tagging Studies in the Coastal Waters of Japan, Western Pacific Ocean and the Sea of Japan**

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Collaborative research activities in Japan involving Monterey Bay Aquarium and National Research Institute of Far Seas Fisheries during the past five years have focused on Pacific Bluefin Tuna (*Thunnus orientalis*). Migration, diving behavior and associated physiological changes occurring in both the near-shore Pacific Ocean, at Shikoku Island, and in the Sea of Japan, at Sado Island, Niigata Prefecture, Honshu are the focused research areas of interest for this species.

Highlights of research results from both study areas will be presented utilizing both published and in-press data, including physiological changes occurring in developing young of the year Pacific Bluefin Tuna in the near-shore Pacific Ocean, Shikoku Island.

Migration behavior of older, 3-5 year age class, Pacific Bluefin Tuna archivally tagged in the Sea of Japan, show a return to their spawning site area. Aerial and underwater footage plus research data will be shared in this presentation.