







<p>This fish spent &gt;50% of their time near the surface and made more extensive vertical movements during nighttime than daytime, but vertical movements were largely confined to the mixed layer and did not cross the thermocline. The depth distributions of the tagged fish appeared to be limited by a 6 °C (i.e., &gt;90% of movements were within 6 °C of the warmest water) change relative to sea surface temperature. Overall, tagged mahi-mahi primarily inhabited near-surface habitat and vertical movements are limited by the depth of the mixed layer. This study found that mahi-mahi dove deeper and for longer durations at nighttime, rather than daytime. Diel dive pattern may relation feeding opportunities when prey are aggregated and (or) may have evolved to avoid predators.</p>	<p>University from Japan; to initiate cooperative tagging experiments for mahi mahi. From 2016 to the present, 18 mahi mahi were tagged with conventional tags and three mahi mahi were tagged with pop-up satellite archival tags (PSATs) at Kagoshima Bay at Japan. Totally, conventional tags were affixed to 124 dolphinfinfish and 4 were tagged with PSATs off eastern Taiwan. For the PSAT studies, tagged mahi mahies were tracked for periods of 7 to 40 days ranging from depths more than 100 m, and experiencing temperatures ranging from 15-30 °C in Taiwan, and 20-23 °C in Kagoshima Bay. Mahi mahi tagged in Taiwan made primarily northward movements during early summer but changed to a southward course in early winter. In Kagoshima Bay, tagged fish undertook southward excursions along the coast and movements were confined to the bay. Mahi mahi spent &gt;50% of their time near the surface and made more extensive vertical movements during nighttime than daytime, but vertical movements were largely confined to the mixed layer. The depth distributions of the tagged fish appeared to be limited by a Δ 6 °C change relative to sea surface temperature (i.e., &gt;90% of movements were within 6 °C of the warmest water available).</p>	<p>movement patterns, habitat preferences and thermal niche using pop-up satellite archival tags (PSATs) deployed in two separate locations: the southeastern coast of Taiwan (wild, n=3). Fish were tagged during different times of the year and tracked for periods of 7 to 40 days, reaching depths &gt;100 m, and experiencing temperatures ranging from 15-30 °C in Taiwan, and 20-23 °C in Kagoshima Bay. Fish tagged in Taiwan made primarily northward movements during early summer but changed to a southward course in early winter. In Kagoshima Bay, tagged fish undertook southward excursions along the coast and movements were confined to the bay. Mahi mahi spent &gt;50% of their time near the surface and made more extensive vertical movements during nighttime than daytime, but vertical movements were largely confined to the mixed layer. The depth distributions of the tagged fish appeared to be limited by a Δ 6 °C change relative to sea surface temperature (i.e., &gt;90% of movements were within 6 °C of the warmest water available).</p>	<p>Research Institute collaborated with Nagasaki University to study the seasonal movement pattern and behavioral characteristics of mahi mahi by using pop-up satellite archival tags. The research results (as attachment) have been reviewed and approved by Fisheries Science and will published in September.</p>
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