

## Intisari

### Pemetaan Zona Potensi Penangkapan Ikan Tongkol, *Euthynnus affinis* (Cantor, 1849) di Selat Sunda

Selat Sunda merupakan salah satu zona potensi penangkapan ikan (ZPPI) tongkol di Indonesia. Namun demikian, informasi tentang karakteristik ZPPI tongkol di Selat Sunda sangat sedikit. Penelitian ini bertujuan untuk menentukan ZPPI tongkol bulanan di Selat Sunda dengan menggunakan data citra suhu permukaan laut (SPL), klorofil-a, dan kecepatan angin dari tahun 2003 sampai 2018 dengan semua data citra dianalisis secara klimatologi bulanan. Hasil penelitian menunjukkan ZPPI tongkol periode Januari-Maret dan April-Mei diduga berada di Selat Sunda bagian tengah ( $5,5^{\circ}$ - $7^{\circ}$  LS dan  $105^{\circ}$ - $106,5^{\circ}$  BT) dan bagian timur laut ( $5^{\circ}$ - $5,5^{\circ}$  LS dan  $106^{\circ}$ - $107^{\circ}$  BT). Pada bulan Juni lokasi ZPPI tongkol diduga berada di posisi  $6^{\circ}$ - $7^{\circ}$  LS dan  $104,5^{\circ}$ - $105,5^{\circ}$  BT dan pada periode Juli-Agustus diduga bergeser ke barat daya. Lokasi ZPPI tongkol pada bulan September diduga berada di Selat Sunda bagian timur laut ( $5^{\circ}$ - $6^{\circ}$  LS dan  $106^{\circ}$ - $107^{\circ}$  BT) dan pada bulan Oktober diduga meliputi seluruh perairan Selat Sunda. ZPPI tongkol pada bulan November diduga berada di sekitar Pulau Sawangbalak dan Pulau Panaitan ( $6^{\circ}$ - $7^{\circ}$  LS dan  $104,5^{\circ}$ - $105,5^{\circ}$  BT) dan di dekat Pulau Sangiang ( $5^{\circ}$ - $5,5^{\circ}$  LS dan  $106^{\circ}$ - $107^{\circ}$  BT). ZPPI tongkol pada bulan Desember diduga berada di sekitar Pulau Sawangbalak hingga Pulau Tinjil ( $6^{\circ}$ - $7^{\circ}$  LS dan  $105^{\circ}$ - $106^{\circ}$  BT) dan di Selat Sunda bagian timur laut. Secara keseluruhan, dinamika angin Monsun Australia Indonesia mempengaruhi posisi ZPPI tongkol di Selat Sunda. Informasi spasial ini dapat digunakan untuk manajemen sumber daya tongkol berkelanjutan di Selat Sunda.

Kata kunci: tongkol, klorofil-a, suhu permukaan laut, ZPPI, Selat Sunda

### *Abstract*

#### Mapping of Potential Fishing Zone of Eastern Little Tuna, *Euthynnus affinis* (Cantor, 1849) in the Sunda Strait

The Sunda Strait is one of the potential fishing zones (ZPPI) of eastern little tuna in Indonesia. Nevertheless, information on the ZPPI characteristics of eastern little tuna in the Sunda Strait is constraint. This research aims to determine the monthly ZPPI of eastern little tuna in the Sunda Strait using satellite imagery of sea surface temperature (SST), chlorophyll-a, and wind speed from 2003 to 2018 with all satellite imageries were analyzed climatologically. The results show the monthly ZPPI of eastern little tuna during January-March and April-May is estimated in the middle of Sunda Strait ( $5,5^{\circ}$ - $7^{\circ}$ S and  $105^{\circ}$ - $106,5^{\circ}$ E) and at the northeast of Sunda Strait ( $5^{\circ}$ - $5,5^{\circ}$ S and  $106^{\circ}$ - $107^{\circ}$ E). In June, the ZPPI is estimated at  $6^{\circ}$ - $7^{\circ}$ S and  $104,5^{\circ}$ - $105,5^{\circ}$ E, during July-August it moved to the southwest. In September, the eastern little tuna's ZPPI presumably located at the northeast of Sunda Strait ( $5^{\circ}$ - $6^{\circ}$ S and  $106^{\circ}$ - $107^{\circ}$ E), and in October the ZPPI is estimated to spread out throughout the Sunda Strait. In November, the eastern little tuna's ZPPI probably situated around the Sawangbalak and Panaitan Islands ( $6^{\circ}$ - $7^{\circ}$ S and  $104,5^{\circ}$ - $105,5^{\circ}$ E) and nearby the Sangiang Island ( $5^{\circ}$ - $5,5^{\circ}$ S and  $106^{\circ}$ - $107^{\circ}$ E). In December, the eastern little tuna's ZPPI is estimated around the Sawangbalak and Tinjil Island ( $6^{\circ}$ - $7^{\circ}$ S and  $105^{\circ}$ - $106^{\circ}$ E) and at the northeast of Sunda Strait. Overall, the dynamics of Australia-Indonesia Monsoon affected the position of the eastern little tuna's ZPPI in the Sunda Strait. This spatial information can be used in sustainable management of eastern little tuna in the Sunda Strait.

Keyword: eastern little tuna, chlorophyll-a, sea surface temperature, ZPPI, Sunda Strait