

Preliminary Report on Oceanographic Survey in Sulu-Sulawesi Seas in Year 2015 by M.V. SEAFDEC2

This study provided information on the water properties of water mass including temperature, salinity, dissolved oxygen (DO) and fluorescence in Sulu and Sulawesi Seas. The aim was to determine schematic overview of the water properties in relate with fisheries resource to serve as a guide to the tuna fisheries management. The survey was conducted by M.V. SEAFDEC2, during 28 March - 1 May 2015 which Northeast monsoon play a significant role to study area. The water properties data were obtained using CTD, seabird 911 plus. Vertical and horizontal distribution and profile of temperature, salinity, dissolved oxygen and fluorescence were analyzed.

It was concluded that the difference of water properties between Sulu and Sulawesi Seas was observed, particularly DO and fluorescence at sub-chlorophyll max layer. Water intrusion noticeably effect to water properties in study area which North Pacific subtropical water mass leads to high DO, salinity and fluorescence in Sulawesi Sea. In regard with the relation between oceanographic parameter and tuna distribution, The results show that DO at sub chlorophyll-max layer is the most related.