## Distribution of Synechococcus and Prochlorococcus in Southeastern Coast of Peninsular Malaysia

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**Abstract :** Distribution of picophytoplankton from two genera, Synechococcus and Prochlorococcus at the surface water (0.5m) were observed from coastal to offshore area of the southeastern coast of Peninsular Malaysia, for a six day cruise in August 2014 during SouthWest monsoon. The picophytoplankton was divided into two different size fractions  $(0.7-2.7\mu m)$  and  $(0.7-2.7\mu m)$  by filtering through GF/D  $(0.7-2.7\mu m)$  and GF/F  $(0.7-2.7\mu m)$  filter papers and counted by using flow cytometer. Synechococcus and Prochlorococcus contribute higher at  $0.7-2.7\mu m$  size range (ca. 90% and 95%, respectively) compared to  $(0.7-2.7\mu m)$  (ca. 10% and 5%, respectively). Synechococcus  $(0.7-2.7\mu m)$  dominated the total picophytoplankton compared to Prochlorococcus  $(0.7-2.7\mu m)$  of Synechococcus was ranging between  $(0.7-2.7\mu m)$  and  $(0.7-2.7\mu m)$  of Synechococcus was ranging between  $(0.7-2.7\mu m)$  and  $(0.7-2.7\mu m)$  of Synechococcus was ranging between  $(0.7-2.7\mu m)$  and  $(0.7-2.7\mu m)$  of Synechococcus and Prochlorococcus abundance showed a decreasing trend from coastal to offshore.

**Keywords**: Peninsular Malaysia, prochlorococcus, South China Sea, synechococcus

Conference Title: ICOBC 2016: International Conference on Ocean Biodiversity and Conservation

Conference Location: Stockholm, Sweden Conference Dates: July 11-12, 2016