

海南近岸海域夏初角毛藻的种类多样性及其水平分布

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Species diversity and horizontal distribution of *Chaetoceros* in coastal waters of Hainan Island during early summerPANG Yong¹, NIE Rui², WANG Daoru¹, HUANG Qiang³

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摘要

根据2011年5月28日至6月3日在海南近岸海域采集的浮游植物样品的鉴定结果, 分析了角毛藻(*Chaetoceros*)的种类多样性、优势种构成、细胞数量和水平分布。结果显示, 海南近岸海域共发现角毛藻28种(含变种、变型), 其中西北部海域25种, 东部海域22种, 南部海域21种; 暹罗角毛藻(*C. iamense*)、拟旋链角毛藻(*C. pseudocurvisetus*)、并基角毛藻(*C. decipiens*)和劳氏角毛藻(*C. lorenzianus*)为主要优势种, 另外, 桥联角毛藻(*C. anastomosans*)、嘴状角毛藻(*C. rostratus*)、密链角毛藻(*C. densus*)、窄隙角毛藻(*C. affinis*)和短叉角毛藻(*C. messanensis*)的数量也较多。东部海域角毛藻细胞数量最高, 平均为 $(162.70 \pm 415.16) \times 10^4$ 个·m⁻³; 西北部海域角毛藻数量略低于东部海域, 平均为 $(102.81 \pm 206.26) \times 10^4$ 个·m⁻³; 南部海域角毛藻数量最低, 平均为 $(70.43 \pm 142.09) \times 10^4$ 个·m⁻³, 角毛藻细胞数量平面分布呈现由近岸向海外递减的趋势, 与环境因子之间不存在显著相关关系。

关键词: 海南近岸, 角毛藻, 种类多样性, 水平分布**Abstract**:

Based on a survey on the species diversity, dominant species composition, cell abundance and horizontal distribution of *Chaetoceros* in the coastal waters of Hainan conducted during May 28 and June 3 in 2011, we identified 28 species of *Chaetoceros*, among which 25 species were found in the northwestern waters, 22 in the eastern waters and 21 in the southern waters. The dominant species in these coastal waters were *C. siamense*, *C. pseudocurvisetus*, *C. decipiens* and *C. lorenzianus*, while *C. anastomosans*, *C. rostratus*, *C. densus*, *C. affinis* and *C. messanensis* were also abundant in these coastal waters of Hainan. Eastern waters had the highest cell abundance with an average number of $(162.70 \pm 415.16) \times 10^4$ ind·m⁻³, while northwestern waters was slightly lower in cell abundance with an average number of $(102.81 \pm 206.26) \times 10^4$ ind·m⁻³, and southern waters had a minimum value of $(70.43 \pm 142.09) \times 10^4$ ind·m⁻³. Horizontal distribution of *Chaetoceros* in these three waters had a declining trend from onshore to offshore. There was no significant correlation between *Chaetoceros* abundance and environmental factors.

Key words: coastal waters of Hainan, *Chaetoceros*, species diversity, horizontal distribution

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