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PRIMARY RESEARCH PAPER

Relationships between meteorological–oceanographic conditions and recruitment patterns of the acorn barnacle *Chthamalus malayensis* on monsoon-influenced rocky shores

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Abstract Although monsoons are a key driver of oceanographic variability in the Indo-Pacific region, their role in regulating the population of intertidal showed that, on the west coast, recruitment was higher when the predominant winds blew onshore and after the peak of occurrence of the embryo, sug-

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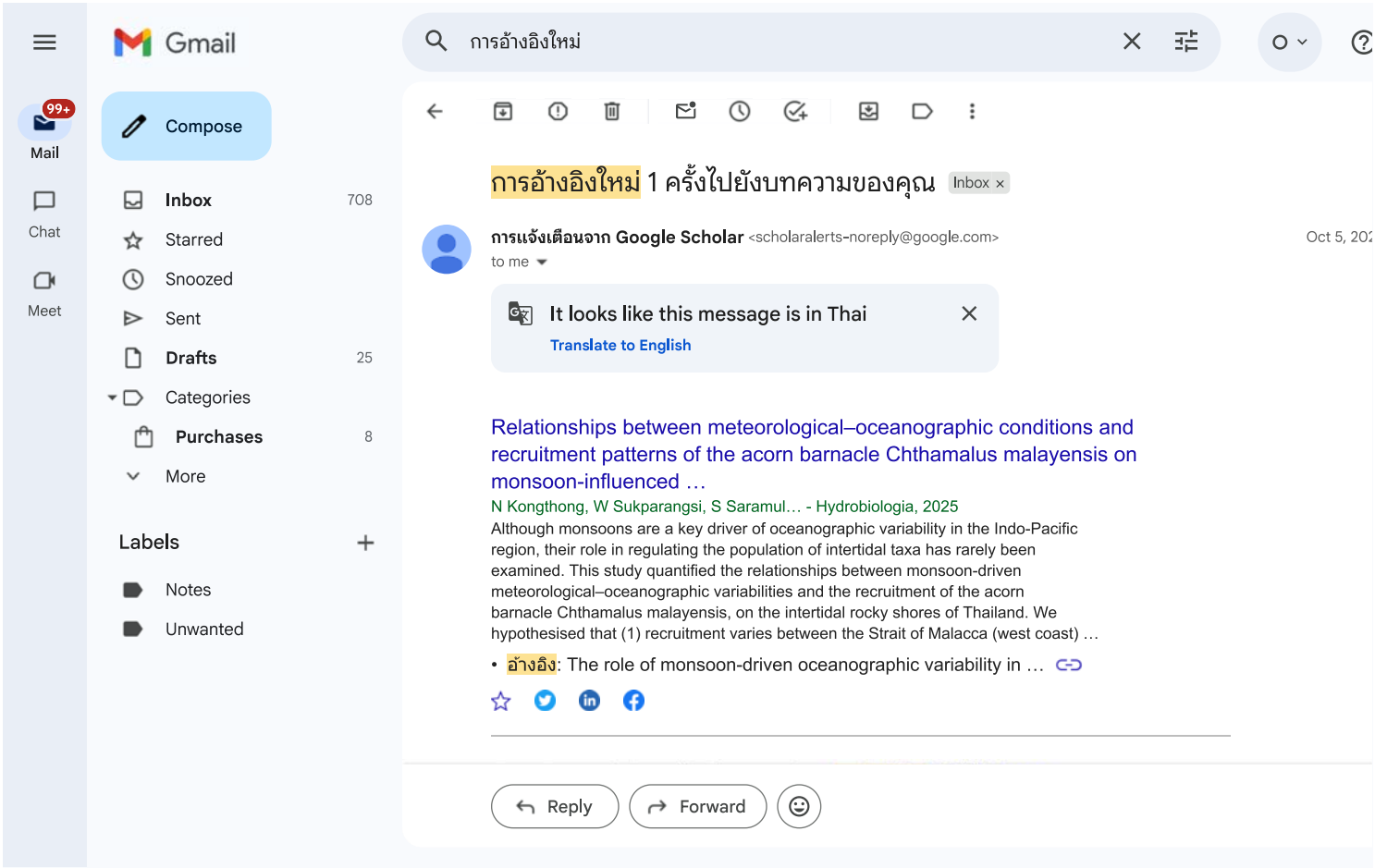
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คำอธิบาย We investigated the influences of oceanographic variables on recruitment patterns of the acorn barnacle *Chthamalus malayensis* and the rock oyster *Saccostrea cucullata*, key space occupiers on tropical intertidal rocky shores. Recruitment data and nearshore environmental variables were obtained at spatial (regional and local) and temporal (monthly) scales on the west coast of Thailand. The relationship between the recruitment of each species and combinations of environmental variables was modeled. The climate of the study sites is influenced by the southwest and northeast monsoons of the Indochinese monsoon system. Observations showed that recruitment of both species and oceanographic variables exhibited differences at either local scale or monthly scale or both. Recruitment of both species was positively related to temperature, while barnacle recruitment was negatively related to salinity, but oyster …

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