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Chlorophyll pigment concentration; 4. Discussion; 5. Concluding Remarks; Acknowledgments; References; Calcification Rates of *Emiliana Huxleyi* in Different pH Waters: A Comparison of Methods Yan Yang, Minhan Dai, Zhimian Cao and Zheng Huang; 1. Introduction; 2. Material and Methods; 2.1. Incubation condition; 2.2. Carbonate system parameters; 2.3. Cell and nutrient concentrations; 2.4. Ca and PIC; 2.5. Net calcification rate; 3. Results; 3.1. Growth of cells; 3.2. TA and net calcification rate; 3.3. Ca and net CaCO₃ production rate; 3.4. Net PIC production rate; 3.5. Comparison; 4. Concluding Remarks; Acknowledgments; References; Nitrogen Sources for New Production in the Ne Indian Ocean Naveen Gandhi, Arvind Singh, R. Ramesh and M. S. Sheshshayee; 1. Introduction; 2. Material and Methods; 2.1. Ship based sampling; 3. Environmental Conditions; 3.1. Temperature and salinity; 3.2. Nutrients and chlorophyll a; 4. Carbon Uptake Rates; 5. Nitrogen Uptake Rates; 5.1. New productivity; 5.2. Regenerated productivity; 5.3. f-ratio; 6. Conclusion; Acknowledgment; References; Interannual Oscillatory Modes in the Indian Ocean and Predictability of the Indian Ocean Dipole Irina V. Sakova and Richard Coleman; 1. Introduction; 2. Data and Methods; 3. Analysis; 4. Discussion and Conclusions; Acknowledgments; References; Modelling of Storm Tide Flooding Along the Southern Coast of Java, Indonesia Nining Sari Ningsih, Safwan Hadi, Marthina Dian Utami and Amanda Putri Rudiawan; 1. Introduction; 2. Model Description and Its Application; 3. Results and Discussions; 3.1. Model validation; 3.2. Maximum storm surge height and flooding areas; 4. Concluding Remarks; Acknowledgments; References; Development of a High Resolution Climatology for the Bay of Bengal Using Argo Observations Sudip Jana, Sourav Sil and Arun Chakraborty and M. Ravichandran; 1. Introduction; 2. Data and Quality Control; 3. Methodology; 4. Results; 5. Summary and Discussion; Acknowledgment; References; Numerical Simulation of Surface Circulation Features Over the Bay of Bengal Using Regional Ocean Modeling System Sourav Sil, Arun Chakraborty and M. Ravichandran; 1. Introduction; 2. Brief Description of the Model

Sommario/riassunto

This invaluable volume set of *Advances in Geosciences* continues the excellent tradition of the Asia-Oceania scientific community in providing the most up-to-date research results on a wide range of geosciences and environmental science. The information is vital to the understanding of the effects of climate change, extreme weathers on the most populated regions and fastest moving economies in the world. Besides, these volumes also highlight original papers from many prestigious research institutions which are conducting cutting edge studies in atmospheric physics, hydrological science and water