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Nota di contenuto	Editors; Reviewers; Preface; Preface to AS Volume; Preface to OS Volume; CONTENTS; Forecast Skill and Computational Cost of the Correlation Models in 3DVAR Data Assimilation M. Yaremchuk, M. Carrier, H. Ngodock, S. Smith and I. Shulman; 1. Introduction; 2. Covariance Modeling in MS; 2.1. MS and DS approaches in 3dVar; 2.2. The Gaussian and spline BEC models; 3. Numerical Experiments Setup; 3.1. Numerical model and observations; 3.2. Assimilation system; 4. Results; 4.1. Comparison of the forecast skills; 4.2. Comparison of the CPU times; 5. Conclusions; Acknowledgments; References Real-Time Tropical Cyclone Prediction Using COAMPS-TC J. D. Doyle, Y. Jin, R. M. Hodur, S. Chen, H. Jin, J. Moskaitis, A. Reinecke, P. Black, J. Cummings, E. Hendricks, T. Holt, C.-S. Liou, M. Peng, C. Reynolds, K. Sashegyi, J. Schmidt and S. Wang1. Introduction; 2. COAMPS-TC Description; 3. Real-time Tropical Cyclone Forecasts; 3.1. COAMPS-TC atmospheric model forecasts; 3.2. COAMPS-TC ensemble forecasts; 3.3. Coupled COAMPS-TC forecasts; 4. Summary; Acknowledgments; References Factors Controlling the Spatial Distribution of Stable Isotopes in Precipitation over Kumamoto, Japan Masahiro Tanoue, Kimpei Ichianagi, Jun Shimada and Naoki Kabeya1. Introduction; 2. Study Site and Method; 2.1. Sampling; 2.2. Analytical methods; 2.3. Determining

distance from the coast; 3. Results and Discussion; 3.1. Time series of stable isotopes in precipitation; 3.2. "Apparent" inland effect; 3.3. Amount effect; 3.4. Temperature and altitude effects; 3.5. Non-correlated cases; 4. Concluding Remarks; Acknowledgments; References

Asian Dust Deposition Over the Land and Seas in 2010 Estimated by the ADAM2 Model Soon-Ung Park, Moon-Soo Park and Anna Choe¹.

Introduction; 2. Model Description; 2.1. Meteorological model; 2.2. The ADAM2 model; 3. Simulations of Asian Dust Events Occurred in 2010; 4. Asian Dust Emission and Deposition; 5. Summary and Conclusions; Acknowledgments; References; Distribution of Biogenic Silica in the

Upwelling Zones in the South China Sea Yang Liu, Minhan Dai, Weifang Chen and Zhimian Cao; 1. Introduction; 2. Material and Methods; 2.1. Cruise and sampling; 2.2. Analytical methods

3. Results and Discussion 3.1. BSi in the water column; 3.1.1. The station SEATS; 3.1.2. The upwelling zone off Luzon; 3.1.3. The upwelling zone off Vietnam; 3.2. The inventory of BSi in the SCS; 3.3. BSi in the sediment; 3.4. Water column versus sediment; 4. Concluding Remarks; Acknowledgments; References; Influence of Velocity

Distribution and Density Stratification on Generation or Propagation of Tsunamis Taro Kakinuma, Kei Yamashita and Keisuke Nakayama; 1. Introduction; 2. Governing Equations and Numerical Method; 3.

Influence of Velocity Distribution on Generation of Tsunamis
4. Influence of Velocity Distribution on Propagation of Tsunamis

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 and extreme weather 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 wate
