Reviews

The role of the Arctic and Antarctic and their impact on global climate change: Further findings since the release of IPCC AR4, 2007 ............................................................ 79
   CHEN Liqi

Progress of Chinese research in physical oceanography of the Southern Ocean .................. 86
   SHI Jiuxin, DONG Zhaqian & CHEN Hongxia

Articles

Modeling Arctic Intermediate Water: The effects of Neptune parameterization and horizontal resolution .... 98
   LI Xiang, SU Jie, WANG Zeliang & ZHAO Jinping

Diatom distribution of surface sediment in the Bering Sea and Chukchi Sea.............................. 106
   RAN Lihua, CHEN Jianfang, JIN Haiyan, LI Hongliang, LU Yong & WANG Kui

The content and distribution of Ge in the sediments of Prydz Bay, Antarctica .......................... 113
   SHEN Chen, HU Chuanyu, SUN Weiping & ZHANG Haisheng

DNA barcoding of Antarctic marine zooplankton for species identification and recognition ............... 119
   CHENG Fangping, WANG Minxiao, SUN Song, LI Chaolun & ZHANG Yongshan

Evaluation of the toxicity of fluorine in Antarctic krill on soft tissues of Wistar rats .................... 128
   ZHANG Ling, LU Xiaoji, WANG Zhangmin, QIN Liqiang, YUAN Linxi & YIN Xuebin

Letters

Monitoring the Amery Ice Shelf front during 2004–2012 using ENVISAT ASAR data .................. 133
   ZHAO Chen, CHENG Xiao, HUI Fengming, KANG Jing, LIU Yan, WANG Xianwei, WANG Fang,
   CHENG Cheng, FENG Zhunzhun, CI Tianyu, ZHAO Tiancheng & ZHAI Mengxi