Advances in Polar Science

Contents

Vol. 32 No. 1 March 2021

Editorial Note

Articles

Spatial variability in carbon dioxide exchange processes within wet sedge meadows in the Canadian High Arctic .......................................................... 1
Claire M. WRIGHT, Amy C. BLASER, Paul M. TREITZ & Neal A. SCOTT

Complete genome analysis of bacteriochlorophyll a-containing Roseicitreum antarcticum ZS2-28T reveals its adaptation to Antarctic intertidal environment ................................................. 20
ZENG Yinxin, YU Yong, LI Huirong, LO Wei & DING Haitao

Biomarker records of D5-6 columns in the eastern Antarctic Peninsula waters: responses of planktonic communities and bio-pump structures to sea ice global warming in the past centenary ................................................................................................. 28
YANG Dan, ZHANG Haisheng, HAN Zhengbing, HAN Xibin, ZHANG Yicheng, CHEN Wensheng, LIU Qian, PAN Jianming, FAN Gaojing, LE Fengfeng, LU Bing & HUANG Jing

Seabird and marine mammal at-sea distribution in the western Bering Sea and along the eastern Kamchatka Peninsula ......................................................... 42
Claude R. JOIRIS

Assessment on India’s involvement and capacity-building in Arctic Science ......................... 50
Nikhil PAREEK

Trend

Leveraging the UAV to support Chinese Antarctic expeditions: a new perspective ............... 67
LI Teng, ZHANG Baogang, CHENG Xiao, HUI Fengming & LI Yuansheng

Cover picture: A pair of automated soil CO₂ exchange systems installed in a wet sedge meadow at the Cape Bounty Arctic Watershed Observatory on Melville Island, NU (Photo by Amy Blaser, paper by Wright et al., page 1)