

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 *Roseiclitreum antarcticum* ZS2-28^T reveals its adaptation to Antarctic intertidal environment 20
ZENG Yinxin, YU Yong, LI Huirong, LUO 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 Kamtchatka 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)