WANG Mingfeng

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EDUCATIONAL EXPERIENCE

Sep.2015 – Jul.2018 **Ocean University of China, China.**
College of Oceanic and Atmospheric Sciences
Physical Oceanology
Degree and Course: Master of Research in Ocean Sciences
Courses: Geophysical Fluid Dynamics, Computational Fluid Dynamics, Computational Data Analysis, Large Scale Ocean Processes, Climate Dynamics

Sep.2011 – Jul.2015 **University of Qingdao, China**
College of Physical Sciences
Department of Optical Information Sciences and Technology
Degree and Course: Bsc Physics
Main Courses: Electromagnetism, Optics, Quantum Mechanics, Electrodynamics, Optical Engineering, Signals and Systems, Principal of Microcomputer

Scholarships:
Sep.2011 Second-Class Scholarship for freshmen of QDU
2013 – 2014 Practicing Scholarship of QDU
2015 – 2016 Third-Class Scholarship of OUC
2016 – 2017 Second-Class Scholarship of OUC
2017 – 2018 First-Class Scholarship of OUC
Honors:
2013 – 2014 Excellent Individual of College Student Social Practices
2013 – 2014 Active Participator of Youth League Committee at QDU
2017 – 2018 National Scholarship for Graduated Students (1/25)

PROFESSIONAL RESEARCH EXPERIENCE

2015 – 2018 **Participating in National Natural Science Foundation program: Study on the distribution of the Arctic ice melt pond and its parameterization in the ice-ocean coupled model**

CURRENT WORK **Investigating the distribution relationship between sea ice surface roughness and melt ponds using UAV (Unmanned Aerial Vehicle) and SAR data**

2018 – Present **To be submitted paper: A new algorithm for melt pond fraction estimation using a high-resolution optical sensor**

- Proved that the previous algorithms Underestimate the melt pond fraction of melt ponds with low saturation, and a new algorithm is proposed for correction.

2017 – 2018 **Postgraduate Graduation Thesis: Arctic melt pond observation and research**

- Supervised by Prof. Jie Su
- Proposed a new algorithm retrieval melt pond fraction on Arctic sea ice using high resolution optical remote sensing data, including Sentinel-2 and Lansat8.
- Determination Arctic sea ice roughness and melt pond fraction from UAV imagery, then analysis the distribution relationship between this two parameter.
- Investigating seasonal, interannual, and decadal variabilities of Arctic melt pond fraction and sea ice albedo and their relationship based on satellite-derived data.

2016 – 2017 **Published paper: Determination of Arctic sea ice roughness and melt pond fraction from Unmanned Aerial Vehicle (UAV) imagery**

- Aerial photographs were taken using an Unmanned Aerial Vehicle over the floe ice in the Canada Basin.
- melt ponds were identified from the image. Three-dimensional modeling techniques were used to generate a digital elevation model, and sea ice surface roughness is estimated base on the model.

WORK EXPERIENCE

Jun. 2018 - Present **Research Assistant, OUC**
Jan. 2018 **Land-fast sea ice investigation, Pigeon Bay, Qinhuangdao**
Jul. 2016- Sep.2016 **Team Member of the 7th Chinese National Arctic Research Expedition, carry out sea ice aerial observation using UAV, and other sea ice and hydrologic observations cooperate with team members .**

ADDITIONAL ACHIEVEMENTS

May. 2013 **Drive License.**
Dec. 2014 **CET-6 (485)**
Sep. 2015 **Mondrian Qualification (A Class Second Grade)**

SKILL & INTERESTS

IT Proficiency in MATLAB, IDL, ENVI, and Python.
Experience in Numerical Modelling