"ANTARCTIC SCIENCE PROGRAM” WORKSHOP

2-3 June 2014

Sponsored by
TÜBİTAK
Istanbul Technical University
Organized by

MaRS (Maritime/Marine Remote Sensing) Lab - Maritime Faculty – Istanbul Technical University (ITU)
Institute of Marine Sciences - Middle East Technical University (METU)
Fisheries Faculty, Istanbul University (IU)

Contributed by

Turkish Marine Research Foundation
Faculty of Mines, Istanbul Technical University
The Institute of Marine Sciences and Technology, Dokuz Eylul University
Alfred Wegener Institute, Polar and Marine Research
Environmental Meteorology Department, University of Trier
Integrated Climate Data Center, University of Hamburg

Date: 2 - 3 June 2014

Place: Istanbul Technical University
Maslak Campus
Faculty of Mines, “İhsan Ketin Conference Room”
PRESENTERS (Alphabetic order by presenter name)

Dr. Bettina Fach
Institute of Marine Sciences
Middle East Technical University

Prof. Bettina Meyer
Antarctic krill group
Polar Biological Oceanography
Alfred Wegener Institute, Polar and Marine Research

Dr. Burcu Ozsoy-Cicek
MaRS (Maritime/Marine Remote Sensing) Lab.
Maritime Faculty
Istanbul Technical University

Dr. Gert König-Langlo
Climate Science/Polar Meteorology
Meteorological long term observations
Alfred Wegener Institute, Polar and Marine Research

Dr. Magnus Lucassen
Integrative Ecophysiology
Molecular Physiology/Functional Genomics
Alfred Wegener Institute, Polar and Marine Research

Dr. Noyan Yilmaz
Institute of Marine Sciences
Istanbul University

Dr. Sascha Willmes
Dpt. Environmental Meteorology
University of Trier

Dr. Sinan Husrevoglu
Environment Institute
TUBITAK - MAM

Dr. Stefan Kern
Integrated Climate Data Center - ICDC
University of Hamburg

Dr. Ulrich Freier
SC - Scientific Consulting
Professional Solutions for Polar and Marine Science
Monday, 2 June 2014

8:30-9:30   Registration
9:30-10:00  Opening Remarks
            Prof. Nil Güler, Maritime Faculty – Istanbul Technical University
            Prof. Ahmet Kideys, Inst. of Marine Sciences - Middle East Technical University

10:00-12:15 First Session: German Polar Science Components/Discipline
            (Session chair: Prof. Bayram Ozturk)

            The meteorological observatories from Neumayer and Polarstern - Operation and weather forecast
            Dr. Gert König-Langlo

            Understanding Ecosystem Shifts by focusing on Key Species and Process Studies
            Prof. Bettina Meyer

            Adaptability and vulnerability of Antarctic fish to climate factors: Integrating molecular functions into physiological fitness
            Dr. Magnus Lucassen

12:15-14:00 Lunch Break

14:00-15:30 Second Session: German Polar Science Components/Discipline
            (Session chair: Dr. Sinan Husrevoglu)

            An Introduction to satellite remote sensing of polar regions
            Dr. Sascha Willmes

            The Integrated Climate Data Center (ICDC) at University of Hamburg: A good address for quality-controlled Earth observation data from remote sensing and in-situ measurements
            Dr. Stefan Kern

15:30-16:00 Coffee break
Third Session: German Polar Science Components/Discipline  
(Session chair: Dr. Noyan Yilmaz)

Spatiotemporal variabilities of sea-ice microwave characteristics in the Antarctic  
(Scatterometer, TSX, passive MW, MW emissivities)  
Dr. Sascha Willmes

Remote sensing of Antarctic sea ice concentration and drift  
Dr. Stefan Kern

Closing the first day of the workshop

Tuesday, 3 June 2014

First session: German Polar Science Components/Discipline  
(Session chair: Prof. Ahmet Kideys)

The meteorological observatories from Neumayer and Polarstern - Research results  
Dr. Gert König-Langlo

Dive operations in Antarctic Winter 2013  
Dr. Ulrich Freier - Prof. Bettina Meyer – Dr. Noyan Yilmaz

Coffee Break

Second session: German Polar Science Components/Discipline  
(Session chair: Dr. Bettina Fach)

Snow on Antarctic sea ice  
Dr. Sascha Willmes

Antarctic sea ice thickness: Advantages and limitations of remote sensing  
Dr. Stefan Kern
12:30-14:00  Lunch Break

14:00-14:45  Third Session: Turkish Polar Program components/disciplines
(Session chair: Prof. Gunay Cifci)

  Overall introduction of the polar program
  **Dr. Bettina Fach**

  Modelling the seasonal sea ice cycle in the Ross Sea, Antarctica
  **Dr. Sinan Husrevoglu**

  ODEN Cruise, Antarctic expedition – Remote Sensing Applications
  **Dr. Burcu Ozsoy-Cicek**

14:45-15:15  Coffee Break

15:15-17:00  Fourth Session: Discussion and Brainstorming
(Session chair: Prof. Bettina Meyer)

  Turkish-German cooperation on Antarctica and project proposals – I
  Potential cooperation implemented in the short term

  Turkish-German cooperation on Antarctica and project proposals – II
  Potential cooperation implemented in the long term

17:00  Closing