

Kick-Off Meeting for the MURI Project, 08-09 June, 2021

Fatima: Fog and turbulence interactions in the marine atmosphere

(<https://efmlab.nd.edu/research/Fatima/>)

Day 1 – 08 June (via zoom)

(All times are in Eastern Daylight Time; UK time + 5 hours; Newfoundland + 1.30 hrs; Halifax and Sable Island + 1 hour; Toronto +0 hrs; Israel + 7 hours; Bulgaria +7 hours; South Korea +13 hours; Croatia +6 hours)

Times	Name	Presentation Title
10.55 AM	Chair – H.J.S. Fernando/D. Richter	Announcements
11:00 AM	VP for Research, Notre Dame Dr. Robert Bernhard	Opening Remarks
11:10 AM	Dean of Engineering, Notre Dame Dr. Patricia Culligan	Opening Remarks
11:20 AM	Program Officers, Office of Naval Research (ONR) Josh Cossuth Daniel Eleuterio Kate Mulreany Rollie Morrison	Opening Remarks
Session 1	Chair – Clive Dorman	
11:30 AM	H.J.S. Fernando University of Notre Dame	An Overview of the Fatima Project
12:00 PM	Qing Wang Naval Postgraduate School	Microphysics and Turbulence in Fog and Their Impact on Optical Propagation
12:30 PM	Eric Pardyjak University of Utah	Investigating the Interactions of Turbulence, Microphysics and the Surface Radiation Balance
1:00 PM	Break	
Session 2	Chair – Qing Wang	
1:15 PM	Lian Shen University of Minnesota	Simulation Study of Fog, Turbulence, and Waves in Marine Environments
1:45 PM	Clive Dorman Scripps & UC San Diego	Synoptic Scale Analysis: Focus and Data Preservation
2:15 PM	Ismail Gultepe Ontario Institute of Technology/ECCC/Notre Dame	Fog Microphysics and Parametrizations; Requirements for FATIMA
2:40 PM	Sebastian Hoch University of Utah	Radiative Processes in Marine Fog and Planned Observations for FATIMA
3:00 PM	Steve Fiorino and Kevin Keefer Air Force Institute of Technology	AFIT Instrumentation and M&S Support to FATIMA
3:20 PM	Break	

Session 3	Chair - Lian Shen	
3:30 PM	David Richter University of Notre Dame	Fog microphysics and Lagrangian cloud modeling
3:50 PM	Sasa Gabersek/David Flagg Naval Research Laboratory	Visibility-related research at NRL: from C-FOG to FATIMA and beyond
4:10 PM	Peter Taylor York University, Canada	Modelling and measurement of marine fog, on Sable Island
4:30 PM	Andrey Grachev/Chris Hocut/Ed Creegean, Army Research Laboratory, White Sands	Atmospheric turbulence measurements in marine fog at Sable Island during FATIMA
4:50 PM	Iossif Lozovatsky University of Notre Dame	Upper ocean measurements and characterization
5:10 PM	Luc Lenain Scripps Institution of Oceanography University of California, San Diego	Investigation of Turbulence and the Fog Life-Cycle: multi-platform observations of fog micro-physical properties, air-sea interaction and upper ocean processes
5.20 PM	Seong-Soo Yum Yonsei University, S. Korea	Simulation of the fog over the Yellow Sea using the PAFOG+WRF coupled model
5.40 PM	Ki-Young Heo and Myung-Sook Park, Korea Institute of Ocean Science and Technology (KORDI)	Yellow Sea marine fog study plan: I. Mechanism and field observation, II. Satellite observations

Day 2 – 09 June (via zoom)

Times	Name	Presentation Title
Session 4	Chair: Eric Pardyjak	
11:00 AM	Martin Gallagher University of Manchester, UK	Identifying and quantifying ice processes in surface supercooled clouds and fogs
11:15 AM	Eliezer Kit Tel Aviv University, Israel and ND	Use of combo probes augmented by nano-cold wires (Super Combo)
11:30 AM	Reneta Dimitrova University of Sophia, Bulgaria, ND	WRF-ARW simulations with high resolution of fog episodes: An example from C-FOG
11:45 AM	Darko Koracin University of Split, Croatia, DRI, ND	Limitations of fog prediction and evaluation
12:00 PM	Rachel Chang Dalhousie University, Canada	Aerosol physical and chemical properties and their effect on fog
12.15 PM	Adel Igel University of California, Davis	Microphysical modeling and detection of fog
12:30 PM	Virendra Ghate Argonne National Laboratory	Drizzle-turbulence interactions below Marine Stratocumulus Clouds
12:45 PM	Will Perrie Bedford Institute of Oceanography Canada	Modelling the atmosphere-waves-ocean system, and comparisons with remote sensing (RCM, RADARSAT-2)

1:00 PM	Raghu Krishnamurthy Pacific Northwest National Laboratory	Turbulence retrievals from Doppler lidars and applications to pre/post fog initiation/dissipation
1:15 PM	Break	
Session 5	Chair: H.J.S. Fernando	
1:30 PM	Terry Bullock Wood Infrastructure Solutions	Operational visibility forecasting for aviation operations on the Grand Banks?
1:45 PM	Trevor Vandenoer York University, Canada	Chemical composition of aerosol and relation to fog on the Grand Banks
2:00 PM	Scott Coppersmith University of Notre Dame	Technological challenges and instrument developments for Fatima
2:15 PM	Marvyn Willis, JonBoy Met Services; Jason Surette, Park Services Canada	Logistics overview for the Canadian Atlantic Campaign
2:30 PM	-ibid-	
2:45 PM	-ibid- (if needed)	
3:00 PM	Advisory Committee: Andrew Heymsfield, NCAR James Doyle, NRL Matt Wilbanks, NSWC, Dahlgren	Comments/Suggestions
3:15 PM	-ibid-	
3:30 PM	Action Items and Program-Officer final thoughts and closure	

Harindra Fernando is inviting you to a scheduled Zoom meeting

Topic: Fatima Kick-Off Meeting

Time: Jun 8, 2021 10:30 AM Eastern Time (US and Canada)

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