

*Announcement of the Workshop:*  
*Marine Fog and its Prediction*  
*(and Contributions of the FATIMA Project)*

**Dates:** March 25th-26th (Monday-Tuesday)

**Venue:** National Institute of Meteorological Sciences (NIMS), Jeju, Republic of Korea (ROK)

**Sponsors:** ONR (Marine Meteorology and Space) and ONR-Global (Japan)

**Hosts:**

National Institute of Meteorological Sciences (Joo-Wan Cha, [jwcha@korea.kr](mailto:jwcha@korea.kr))  
Korea Institute of Ocean Science and Technology (Seok Lee, [lees@kiost.ac.kr](mailto:lees@kiost.ac.kr))  
GeoSystem Research Corporation (Kyung-II Chang, [kichang@geosr.com](mailto:kichang@geosr.com))  
University of Notre Dame, Wayne and Diana Murdy Fund (H.J.S. Fernando, [fernando.10@nd.edu](mailto:fernando.10@nd.edu))

**Main Hotel:** Seogwipo KAL Hotel, Jeju, ROK (<https://www.kalhotel.co.kr>)

**Hotel breakfast: Serves from 7 AM**

**Transportation and Events:**

Private bus service between Seogwipo KAL hotel and NIMS

Morning Departure at 08:00 at the hotel front gate (lobby) to NIMS

Evening Departure at 18:30 at NIMS to restaurants and to hotel

**Ice Breaker:**

Seogwipo KAL hotel from 18:00 (Rose at B1F)  
Light meal and drinks provided

**Lunches:**

Lunch boxes and beverages will be distributed at 13:00 & 13:30 at NIMS refectory.  
Lunch at the refectory or nearby parks outside NIMS, enjoying pleasant spring weather in Jeju

**Dinner:**

March 25th: More information coming

March 26th: Gozip Dol Wooluck Jungmun ([www.gozipfish.com](http://www.gozipfish.com))

## Workshop Program

**Monday 25 March, 2024**

Time	Speaker	Title
<b>Chair</b>	<b>KI Chang</b>	Opening Session
08:30 – 08:50	Dr. Hyi Seung Lee Acting President, KIOST	Welcome Remarks
08:50 – 09:00	Dr. Dan Eleuterio, ONR	ONR Perspective of Marine Fog Research
09:00 – 09:10	Dr. KI Chang, GeoSR	Jeju Island – welcome, program, logistics
<b>Chair</b>	<b>Dong-Chull Jeon</b>	~ 30 min talks
09:10 – 09:45	H.J.S. Fernando, UND	Fatima Program Overview and Year 3 Highlights
09:45 – 10:15	Seok Lee, KIOST	Thermal Structure and its Variability in the Yellow Sea
10:15 – 10:45	Clive Dorman, Scripps	Fog Structure and Stability at Sable Island in July 2022
10:45 – 11:00	<b>Break</b>	
<b>Co-Chairs</b>	<b>David Ortiz-Suslow</b>	30 min talks
11:00 – 11:30	Qing Wang, NPS	An Overview of NPS Measurements on R/V Onnuri during FATIMA YS
11:30 – 12:00	Eric Pardyjak, UU	University of Utah Overall Project Update
12:00 – 12:30	Lian Shen, UM	LES Framework for Site-specific Cross-scale Simulations of Marine Fog with Air-sea Interaction
12:30 – 01:00	Sasa Gaberseck	Air-Sea Interaction Affecting Fog Formation over the Yellow Sea
01:00 – 02:00	<b>Lunch</b>	
<b>Chair</b>	<b>Jesus Ruiz-Plancarte</b>	25 min talks
02:00 – 02:25	Joo-Wan Cha, NIMS	Analysis of Weather and Aerosol & Cloud Measurement of Research Vessel and Aircraft during FATIMA 2023 Campaign
02:25 – 02:50	Luc Lenain, Scripps	Observations of Air-sea Interaction in the Yellow Sea during the FATIMA Experiment Campaign.
02:50 – 03:15	David Ortiz-Suslow, NPS	A Report on Fog-air-surface Interactions: Preliminary Findings from the Yellow Sea and Grand Banks
03:15 – 03:40	Sebastian Hoch, UU	Balloon-Borne Observations of Radiative Cooling during Selected IOPs of the FATIMA Sable Island Campaign
03:40 – 04:05	Chan-Su Yang, KIOST	Spatio-temporal Variation of Sea Fog in the Yellow Sea and Comparison with in-situ Data
04:05 – 04:30	Kyung-Ja Ha, PNU	Sea Fogs and Turbulent Fluxes Observed at Ocean Research Stations in the Yellow Sea
04:30 – 04:50	<b>Break</b>	
04:50 – 06:20	NIMS Tour	Guided by Dr. Joo-Wan Cha (Including the cloud chamber)
06:30	Bus departure	
07:00	Conference Dinner	Hosts: KIOST, GeoSR, UND, NIMS

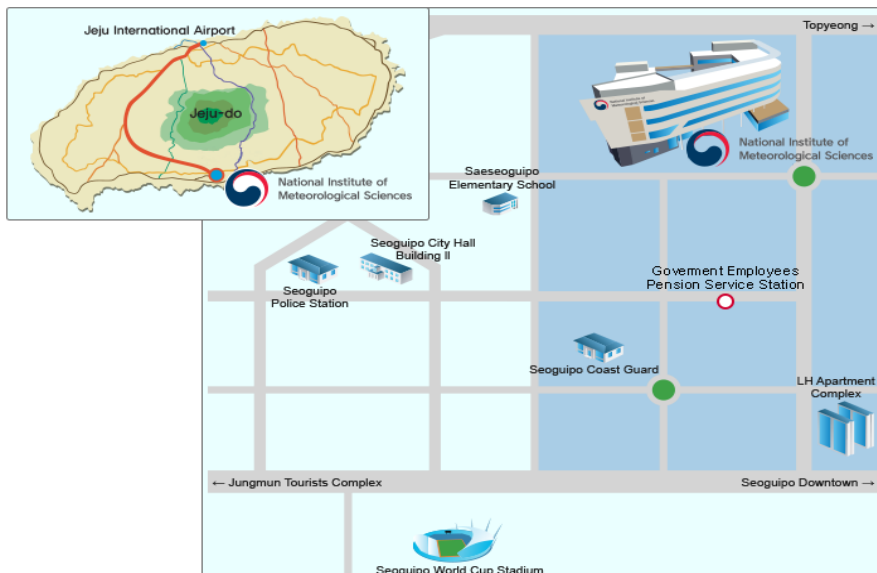
## Tuesday 26 March, 2024

Time	Speaker	Title
<b>Chair</b>	<b>Seok Lee</b>	25 min talks
08:30 – 08:55	Ismail Gultepe, UND/OnTech	Fog Microphysics and its Parameterizations Based on the Ship and Island Observations
08:55 – 09:20	Anne Dowling, UND	Boundary Mixing and Coastal Fog in the Yellow Sea
09:20 – 09:45	Ryan Yamaguchi, NPS	Shipboard Profiling Platform for Air-Sea Interaction and Fog Measurement Deployed during FATIMA.
09:45 – 10:10	Kyung-Hee Oh, KIOST	Properties of Seawater Temperature of the Yellow Sea in June 2023
10:10 – 10:35	Alexi Perelet, UU	Determining Spatially Averaged Precipitation and Fog Properties from a Ground-based Optical & Microwave Link
10:35 – 11:00	Myung-Sook Park, KIOST	Exploring Marine Fog and SST Variability Based on GK-2 Satellite: Insights from Fatima Experiment
<b>11:00 – 11:20</b>	<b>Break</b>	
<b>Chair</b>	<b>Joo Wan Cha</b>	
11:20 – 11:50	GyuWon Lee, KNU (Keynote speaker)	Korea Precipitation Observation Program (KPOP): International Collaborative Experiments for Mesoscale Convective System in Seoul Metropolitan Area (KPOP-MS)
11:50 – 12:15	Reneta Dimitrova, Sophia/UND	Study of a Mixing Fog Event Using WRF-LES Numerical Simulations
12:15 – 12:40	Boonsoon Kang, KHOA	AI-based Forecasting System for Sea Fog in KHOA
12:40 – 01:05	Jung-Hoon Kim, SNU	Meso and Micro-scale Numerical Simulations for the Sea Fog Events in the Eastern Yellow Sea
01:05 – 01:30	Stef Bardoel, UND/Grenoble	Internal Boundary Layers and Topographic Mixing Studies Related to Fog-turbulence Interactions
<b>01:30 – 02:30</b>	<b>Lunch</b>	
<b>Chair</b>	<b>Reneta Dimitrova</b>	25 min talks
02:30 – 02:55	Trevor VandenBoer, York	Chemical Composition of Aerosol during Fog Formation and Air Mass Processing
02:55 – 03:20	Sae Yun Kwon, POSTECH	Physicochemical Processes Governing Mercury Isotope Fractionation within Fog Water
03:20 – 03:45	Ho-Jin Kim, KIOST	The 2023 FATIMA-YS Campaign at the S-ORS: Observation and Modeling
03:45 – 04:10	Jangwon Seo, KMA	Analysis of Marine Meteorology Characteristics through Sea Fog Observation around Heuksan Island in the Yellow Sea
<b>04:10 – 04:30</b>	<b>Break</b>	
<b>Chair</b>	<b>Sebastian Hoch</b>	25 min talks
04:30 – 04:55	Jesus Ruiz-Plancarte, NPS	Exploring Turbulence and Fog Characteristics in FATIMA
04:55 – 05:20	Ki Young Bang, GeoSR	Building a Data Pool for 2023 Fatima Campaign
05:20 – 05:45	Kyung-Il Chang, GeoSR	Results from Daily Rawinsonde Measurements at Two Stations in the Eastern Yellow Sea during FATIMA YS
05:45 – 06:10	Doo-Hwan Son, UST21	Coastal Sea Fog Prediction Using a Deep Learning Approach via Time Series Observation Data and CCTV Images
06:10 – 06:15	Jae-Hak Lee, GeoSR	Closure
Break		
06:30	Bus departure	

07:00	Farewell dinner (Gozip Dol Wooluck Jungmun)	Hosts: KIOST, GeoSR, UND, NIMS
-------	---	--------------------------------

MAPS: See below

<Jeju International Airport and Seogwipo KAL hotel>



<Route of Bus 600 (Schedule – see below)>



## Jeju Airport ↔ Seogwipo KAL Hotel



### Jeju Airport Limousine stop **GATE 5**

5,500 Korean won in cash or traffic card(T-money).  
 ※ Be sure to tell the driver your destination(KAL Hotel).  
 Contact the card after the bus fare is displayed on the card reader. (Ticket fare varies by distance.)

Airport	KAL Hotel
06:00	07:43
06:20	08:03
06:36	08:19
06:54	08:37
07:12	08:55
07:30	09:13
07:48	09:31
08:06	09:49
08:24	10:07
08:46	10:29
09:09	10:52
09:30	11:13
09:51	11:34
10:12	11:55
10:33	12:16
10:54	12:37
11:15	12:58
11:36	13:19
11:57	13:40
12:18	14:01
12:39	14:22
13:00	14:43
13:21	15:04
13:42	15:25
14:03	15:46
14:24	16:07
14:43	16:26
15:02	16:45
15:21	17:04
15:40	17:23
15:59	17:42
16:18	18:01
16:37	18:20
16:56	18:39
17:15	18:58
17:34	19:17
17:52	19:35
18:10	19:53
18:28	20:11
18:46	20:29
19:04	20:47
19:22	21:05
19:40	21:23
20:15	21:58
20:50	22:23
21:25	22:58
22:00	23:30
22:40	00:10

KAL Hotel	Airport
06:00	07:52
06:30	08:22
07:00	08:52
07:30	09:22
08:00	09:52
08:15	10:07
08:30	10:22
08:45	10:37
09:00	10:52
09:20	11:12
09:40	11:32
10:00	11:52
10:20	12:12
10:40	12:32
11:00	12:52
11:21	13:13
11:42	13:34
12:03	13:55
12:24	14:16
12:45	14:37
13:06	14:58
13:27	15:19
13:48	15:40
14:09	16:01
14:30	16:22
14:51	16:43
15:12	17:04
15:33	17:25
15:54	17:46
16:15	18:07
16:36	18:28
16:54	18:46
17:12	19:04
17:30	19:22
17:48	19:40
18:06	19:58
18:24	20:16
18:42	20:34
19:00	20:52
19:18	21:10
19:36	21:28
19:54	21:40
20:12	21:58
20:30	22:16
20:48	22:34
21:06	22:52
21:23	23:09
21:40	23:26

