



MAP-AQ 亚洲区域办公室成立

WMO OMM
World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

Our ref.: 27485/2019/2019-RES/ARE
Annex: 1 (available in English only)

Ms Yaming Liu
Permanent Representative of China with WMO
China Meteorological Administration (CMA)
46 Zhongguancun Nandajie
Beijing 100081
China

9 October 2019

Subject: Establishment of the Shanghai office for Monitoring, Analysis, and Prediction of Air Quality (MAP-AQ) project

Dear Ms Liu,

As you may be aware, the eighteenth World Meteorological Congress (Cg-18, Geneva, 3-14 June 2019) adopted a historical reform of the constituent bodies of the World Meteorological Organization (WMO) to embrace a more comprehensive Earth system approach, with a stronger focus on water resources and the ocean, more coordinated climate activities, and a more concerted effort to translate science into services for society.

Within WMO, the Global Atmosphere Watch (GAW) Programme coordinates the activities related to the atmospheric chemical composition. GAW, as a research programme, focuses in particular on development of new services, and through close cooperation with the WMO operational community, it strives to translate these new services to operational capabilities to provide benefits to user community. GAW is supervised by the newly established Research Board that works closely with the new Technical Commissions to ensure the co-design of the new services.

WMO co-organized the first Global Conference on Air Pollution and Health with the World Health Organization, from 30 October to 1 November 2018. At this conference WMO took a commitment to improve the air quality forecasting capabilities to avoid acute health episodes. Such capabilities would build on the earlier successful systems implemented and being developed by the National Hydro-Meteorological Services and by academic partners.

One of such joint initiatives co-organized by WMO and the International Global Atmospheric Chemistry (IGAC) project is Monitoring, Analysis, and Prediction of Air Quality (MAP-AQ) project. This project has an objective to develop and implement a global air pollution monitoring, analysis, and prediction system for air quality with downscaling capability in regions of the world affected by high levels of atmospheric pollutants, in particular in Asia, Latin America, and Africa, and it constitutes one of the important elements of the Global Air Quality Forecasting framework being spearheaded by WMO.

The concept of the MAP-AQ, its objective and workplan were discussed at the meeting of the WMO/GAW Scientific Advisory Group on Application at the end of May 2019. This meeting was attended by the delegation from Fudan University that proposed its capabilities to support MAP-AQ project. In particular, the group in Fudan University can help in facilitation of the regional activities related to air quality observations and forecasting and assist in connecting this activity with WMO global initiative. In this way, the Shanghai office of MAP-AQ could serve as a regional hub for the related activities and support the capacity building effort for WMO members in the Asian region. More specific tasks of this office are proposed in the Annex.

cc: Prof. Renhe Zhang, Department of Atmospheric and Oceanic Sciences & Institute of Atmospheric Science, Fudan University

2019/10 在中国气象局的大力支持下，经联合国特别机构世界气象组织(WMO)批准，MAP-AQ亚洲区域办公室在中国上海复旦大学设立。

- 2 -

The Shanghai office would work very closely with China Meteorological Administration (CMA) on implementing its activity and with WMO Secretariat where the global coordination office will be established being supported by the Junior Professional Officer (supported by China).

I should be grateful if you could indicate your concurrence with establishment of the MAP-AQ office in Shanghai by Fudan University and the intention of CMA to work closely with this office. Please do not hesitate to let me know if any further information is required. For the technical clarification please consult with Oksana Tarasova, Chief, Atmospheric Environment Research Division at otarasova@wmo.int

I would like to take this opportunity to express our appreciation for your continuous support to the programmes of WMO.

Yours sincerely,

(E. Manaenkova)
for the Secretary-General

- 3 -

ANNEX

The main activities of the Shanghai office will include:

- provide support/coordination of the national and regional activities related to air quality and health including follow up on MarcoPolo and Panda projects;
- creation and support of the related web page;
- support of the organization of the regional and national meetings related to the air quality forecasting in the region in collaboration with the national and regional partners;
- establishment of the working relationship between air quality measurement and modelling community and health community in China in collaboration with the regional/national office of WHO;
- establishment and support of the regional collaborative activities through South-South collaboration calls;
- coordination of the contribution of the regional activities to the global activities of MAP-AQ project and WMO Global Air Quality Forecasting Initiative.

- **办公室主要职责：**
 - ✓ 协调亚洲地区更好地参与 MAP-AQ国际研究计划的各项活动
 - ✓ 协助政府部门因地制宜地制定减排政策
 - ✓ 向公众传递空气污染相关知识
- **支持单位：**中国气象局、复旦大学
- **管理单位：**复旦大学大气与海洋科学系/大气科学研究院
- **负责人：**张人禾（中国科学院院士）

2019/03 张人禾院士率队在北京与出席世界气象中心(WMO/WMC)工作会议的Xu Tang司长(WMO)和Greg Carmichael教授(WMO全球大气成分监测科学指导委员会主席)等商议复旦大学支持WMO大气化学研究计划等事宜。

2019/05 复旦大学代表团应邀参加在日内瓦召开的WMO全球大气成分监测科学咨询应用专家组会议(GAW APP SAG)暨MAP-AQ科学委员会会议，并介绍了复旦大学支持WMO全球大气环境研究项目的能力与愿望，特别是在亚洲区域的空气污染观测预报研究与治理工作等方面。

办公室团队在国内期刊发表 论文介绍了MAP-AQ国际研究计划及前沿科学问题。

第16卷第1期
2020年1月

气候变化研究进展
CLIMATE CHANGE RESEARCH

Vol.16 No.1
January 2020

DOI: 10.12006/j.issn.1673-1719.2019.161
王晓妍, 赵德峰, 欧阳慧灵, 等. 空气质量监测、分析、预报国际研究计划及前沿问题[J]. 气候变化研究进展, 2020, 16(1): 130-132
Wang X Y, Zhao D F, Ouyang H L, et al. International project of monitoring, analysis, and prediction of air quality and some essential questions [J]. Climate Change Research, 2020, 16(1): 130-132

空气质量监测、分析、预报国际研究计划及前沿问题
International project of monitoring, analysis, and prediction of air quality and some essential questions
王晓妍, 赵德峰, 欧阳慧灵, 张人禾

成为MAP-AQ在环境灾害人道救援组织中的联络代表

Max-Planck-Institut für Meteorologie | Bundesstr. 53 | 20146 Hamburg

Institutional Letter of Endorsement for Environment in Humanitarian Action Network (EHA Network)

Prof. Dr. Guy Brasseur
Max-Planck-Institut für Meteorologie
Environmental Modeling Group
Bundesstr. 53
20146 Hamburg
Deutschland
Tel.: +49 - (0)40 - 41173 - 209
Fax: +49 - (0)40 - 41173 - 390
guy.brasseur@mpimet.mpg.de
www.mpimet.mpg.de
Hamburg, 4.05.2020

Dear Colleagues,

I, Prof. Dr. Guy P. Brasseur, Max Planck Institute for Meteorology and co-Chair of the MAP-AQ Project, have been informed about the *Environment in Humanitarian Action Network (EHA Network)*.

The failure to take the environment into account during humanitarian response planning has manifested itself in many ways across various crisis situations and countries. For instance, it resulted in deforestation because of brick production for humanitarian operations in Darfur; dried up wells due to over-drilling for water by humanitarian organisations in Afghanistan; lead to fishing stock depletion in post-Tsunami Sri Lanka following an over-provisioning of fishing boats; triggered environmental contamination in Haiti due to a failure to meet waste treatment standards, causing the largest outbreak of cholera in recent history; and has triggered landslides in the Cox's Bazar Rohingya refugee camp in 2017. These examples illustrate how nature's contributions to people are often invisible in the humanitarian choices we make, with short term stability being realized by steadily drawing down local natural resources. Indeed, failing to properly take environmental issues into consideration can inadvertently undermine the humanitarian "do no harm" principle.

The Environment and Humanitarian Action Network (EHA Network) is a global partnership of UN agencies, NGOs, as well as specialist organisations that collectively aim to influence policy, enhance implementation and better coordinate efforts in the field of *Environment and Humanitarian Action*. The network advocates for a timely and appropriate inclusion of identified environmental issues in humanitarian planning processes. The EHA Network was established in 2014, in line with the mandate given by the Strategic Advisory Group on Environmental Emergencies (SAGEE), and the Secretariat is hosted at the UNEP/OCHA Joint Environment Unit.

My organization fully endorses this vision and I officially express our support to the EHA Network.

I hereby appoint Prof. Xu Tang and Dr. Huiling Ouyang (Fudan University) as the focal point from our organization. They will support the implementation of the work plan of the EHA Network. We may also consider additional support to the network subject to our mandate and resources on a case to case basis. I wish the EHA Network the very best in all its endeavours.

Sincerely yours,

Guy P. Brasseur
Chair of MAP-AQ
Senior Scientist
Max Planck Institute for Meteorology
Hamburg, Germany

2020/05 MAP-AQ联合主席Prof. Guy Brasseur同意MAP-AQ加入EHAN网络, 并指定MAP-AQ亚洲区域办公室的汤绪教授和欧阳慧灵博士为首要联络人 (Focus Point)。

EHAN是联合国环境署 (UNEP)、人道协调厅 (UNOCHA)共同建立的联合环境机构 (JEU) 组织发起的国际环境与人道救援网络。EHAN网络现有10个机构和170余位专家组成, 联合环境机构 (JEU)是负责该网络协调的秘书处。

Meeting between WMO Coordination Hub (WCH) and Joint UNEP/OCHA Environment Unit (JEU)

11 December 2019, 11:00 h - 12:30 h, WMO Secretariat (Jura 5)

MEETING MINUTES

I. Participants

JEU: Ms. Emilia Wahlstrom

WCH: Dr. Xu Tang, Ms. Huiling Ouyang, Mr. Zheqing Fang

II. Meeting agenda

Time	Theme	Presenter
11:00 - 11:45	Introduction of JEU	Emilia Wahlstrom
11:45 - 12:15	Introduction of WCH	Xu Tang
12:15 - 12:30	Discussion of future collaborations	

2019/11 2020/02

与JEU/EHAN官员会晤, 讨论在环境危害领域可能的合作, 以及气象专家如何更多的参与人道主义救援工作。





深度参与JEU/EHAN的各项工 作

2020年4月

介绍MAP-AQ亚洲区域办公室及其11月份拟召开的国际会议。

- Huilong Ouyang/MAP-AQ Shanghai informed EHAN members that the MAP-AQ Shanghai Office is a newly setup office and the first regional office of the MAP-AQ project, coordinating the national and regional activities related to air quality and health, and support the organization of the regional and national meetings related to the air quality forecasting in the region in collaboration with the national and regional partners. They are planning to host an international meeting on chemical weather analysis and forecasting at the end of this year. More information will be available soon.

- AP 14.** EHAN members interested in this topic are requested to contact Huilong Ouyang/MAP-AQ (ouyanghuiling@fudan.edu.cn) for further information.

2020年6月

介绍 MAP – AQ化学天气与气候论坛的筹备情况。

9. AOB

- Xu Tang/MAP-AQ briefly introduced the forum on Chemical Weather and Chemical Climate. Xu Tang will share the agenda and more information with EHAN members at a later date.

- AP 11.** EHAN members interested in "The First International Forum on Chemical Weather and Chemical Climate" organized by MAP-AQ (date now set to May 2021 due to COVID-19) to contact Xu Tang/MAP-AQ (xutang2016@gmail.com).

2020年9月

再次介绍MAP-AQ论坛筹备进展并且邀请EHAN成员出席。

Opportunities for collaboration

- The MAP-Forum on Chemical weather and Chemical climate, originally planned for November 2020 is postponed to May 2021 due to COVID-19. Six sessions are planned, one of which is on global governance on air quality and interactions with stakeholders. EHAN members are invited to attend the forum. Those interested can contact ouyanghuiling@fudan.edu.cn or Prof. Tang Xu (tangxu@fudan.edu.cn).

在相关会议上介绍MAP-AQ及其亚洲区域办公室的工作



将MAP-AQ及其亚洲区域办公室相关活动纳入EHAN的年度工作计划

Work Plan for the Environment and Humanitarian Action Network 2020						
EHAN network members are invited to review and comment on below work plan, adding EHA activities they are involved in and indicating areas where they could be involved or foresee synergies with ongoing projects and activities.						
Area of work	Objectives	Activities	Timeframe	Lead/Co-leads	Contributors	Remarks
	[added in April 2020]	4.3.1 Produce global guidance for environmental mainstreaming in humanitarian response planning including low cost actions, indicators and additional guidance per sector	March 2020 - March 2021	UNEP, IOM	JEU (currently building working group) UNITAR/GPA interested	Concept note here .
		3.1.2. Provide ad-hoc expert advice to the JEU as needed, including through the OCHA remote analysis cell (support OCHA and inter-agency partners to carry out coordinated and joint assessments in crisis context)	Ongoing / as needed	Members of Environment Assessment and Analysis Cell (see TOR here)	International Expert Network (MAP-AQ) interested in joining the team as requested.	MAP-AQ is a WMO Initiative under the WMO Global Atmosphere Watch (GAW) Programme

Work Plan for the Environment and Humanitarian Action Network 2020						
EHAN network members are invited to review and comment on below work plan, adding EHA activities they are involved in and indicating areas where they could be involved or foresee synergies with ongoing projects and activities.						
Area of work	Objectives	Activities	Timeframe	Lead/Co-leads	Contributors	Remarks
		programmes 3.1.6 Inclusion of EHA matters in the regular Summer School of MAP-AQ to train all relevant national professional teams on how to connect the knowledge and experience on atmospheric environment with JEU and environment humanitarian actions.	July and/or August, during each summer vacation period	MAP-AQ: Guy Brasseur, Renhe Zhang, Rajesh Kumar, Xu Tang	JEU and EHA Network	

Work Plan for the Environment and Humanitarian Action Network 2020						
EHAN network members are invited to review and comment on below work plan, adding EHA activities they are involved in and indicating areas where they could be involved or foresee synergies with ongoing projects and activities.						
Area of work	Objectives	Activities	Timeframe	Lead/Co-leads	Contributors	Remarks
		2.1.3. Organize side event and booth on EHA at ECOSOC HAS	June 2020	JEU	-	Are EHAN interested in this? JEU organized one in 2019 NB: Event may be postponed due to COVID-19
		2.1.4 Organizing the International Forum on Chemical Weather Analysis and Forecasting (IFCWAF) and a special Forum Session on Environment Emergency and Governance will be included.	Nov. 2020 (Shanghai, China)	Guy Brasseur, Renhe Zhang, Xu Tang (MAP-AQ)	JEU, EHA and others who are interested in this topic and willing to join the Forum Session will be invited.	The timeline for the Forum will be finally announced in August due to Covid-19 (it might be postponed to Nov. 2021 and keep it as the face-to-face meeting).



MAP-AQ 亚洲区域办公室
ASIAN OFFICE SHANGHAI
Monitoring, Analysis, and Prediction of Air Quality

NEWSLETTER
2019-2020工作简报
总第1期, 2020第1期

积极主办系列学术活动

Air Pollution Workshop
Monday October 21, Room 5015, John Ling Building
Chair: Prof. Renhe Zhang

09:00 - 09:10	Welcome & Introduction of Institute of Atmospheric Sciences (IAS)	Renhe Zhang
09:10 - 09:25	Introduction of Monitoring, Analysis, and Prediction of Air Quality (MAP-AQ) project	Guy P. Brasseur
09:25 - 09:40	Introduction of Department of Environmental Science and Engineering (DSESE)	Xin Yang
09:40 - 09:55	Ambient air pollution and population health in China	Haidong Kan
09:55 - 10:10	Measurement and model analyses of ozone variations in Shanghai	Yixuan Gu
10:10 - 10:25	Meteorology and air pollution & MAP-AQ activities at Fudan University	Xiaoyan Wang
10:25 - 10:45	Break	
10:45 - 12:00	Discussion	Renhe Zhang

Participants
Prof. Guy P. Brasseur, Max Planck Institute for Meteorology/NCAR

Prof. Renhe Zhang, Vice President of Fudan University, Dean of Institute of Atmospheric Sciences
Prof. Yijun Zhang, Vice Dean of Institute of Atmospheric Sciences, Fudan University
Prof. Tianan Cheng, Institute of Atmospheric Sciences, Fudan University
Prof. Defeng Zhao, Institute of Atmospheric Sciences, Fudan University
Prof. Bingtang Sun, Institute of Atmospheric Sciences, Fudan University
Dr. Xiaoyan Wang, Institute of Atmospheric Sciences, Fudan University

Prof. Xin Yang, Dean of Department of Environmental Science and Engineering, Fudan University
Prof. Lin Wang, Vice Dean of Department of Environmental Science and Engineering, Fudan University

Prof. Kan Huang, Department of Environmental Science and Engineering, Fudan University
Prof. Hongling Zhang, Department of Environmental Science and Engineering, Fudan University
Associate Prof. Yan Zhang, Department of Environmental Science and Engineering, Fudan University

Prof. Haidong Kan, School of Public Health, Fudan University

Dr. Yixuan Gu, Shanghai Center of Urban Environmental Meteorology, Shanghai Meteorological Service

“气候变暖与新冠肺炎疫情防控背景下夏季热浪科学应对”科普座谈会

时间: 2020年8月6日(星期四)上午9:00-11:00
地点: 利用腾讯视频会议形式进行
点击链接加入会议: <https://meeting.tencent.com/s/pyT57i8AQ5iv>
会议ID: 481 880 203
会议密码: 200438

会议主办单位: 复旦大学大气与海洋科学系/大气科学研究所

具体议程

1. 专家在线科普报告 (90分钟)

题目	报告人
主持人: 汤绪 教授级高级工程师 (复旦大学大气与海洋科学系/大气科学研究所、发展研究院)	
全球气候变化与极端天气气候事件	陈人杰教授 (中国科学院院士、复旦大学副校长、复旦大学大气与海洋科学系主任及大气科学研究所所长)
气候变化与新冠肺炎的预防策略及效果	岳伟林教授 (复旦大学公共卫生学院流行病学教研室主任)
气候变暖背景下全球热浪的响应和风险评估	葛嘉琦青年研究员 (复旦大学大气与海洋科学系/大气科学研究所)
上海高温热浪和城市热岛演变与科学应对	谈建刚正高级工程师 (上海市气象气候中心主任)
热浪的健康危害及应对	谢海东教授 (复旦大学公共卫生学院副院长)

2. 线上互动 (30分钟)

MAP-AQ亚洲区域办公室系列学术报告暨绿芽学术沙龙第四期

极端气候事件、大气环境风险影响与公共卫生安全

时间: 2020年10月20日 14:00 - 17:00
腾讯会议ID: 254 526 664
会议密码: 200438

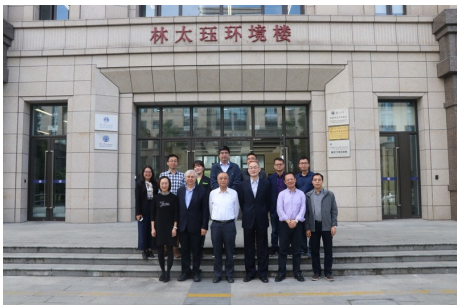
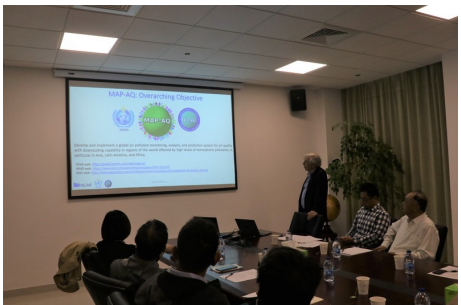
研讨会议程
联合主持人:

叶谦
未来地球综合风险防范计划 (IRGP) 执行主任
未来地球风险知识行动网络 (Risk KAN) 沿海地区与城市领域 全球协调人
北京师范大学珠海校区 地表过程与资源生态国家重点实验室 教授

汤绪
复旦大学发展研究院、大气与海洋科学系/大气科学研究所教授级高级工程师
联合国特别机构世界气象组织天气与减灾服务司副司长
国际灾害风险综合研究计划国际计划办公室 (IRDR-IPD) 高级科学顾问

时间	日程	主持人
14:00-14:10	开场白与特邀报告人简介	叶谦
14:10-16:10	1、张峰教授, 复旦大学大气与海洋科学系 多灾种大气环境灾害与公共卫生风险预警与治理 2、王伟刚教授, 复旦大学公共卫生学院, 流行病学教研室主任 新冠肺炎的流行趋势和非药物干预效果 3、杨赛霓教授, 北京师范大学 地表过程与资源 汤绪生态国家重点实验室 气候变化、交通基础设施与系统性风险 4、李银鹏, 新西兰国际全球变化研究所 应用ISEET框架回顾和探讨疫情系统性风险及防范对策	叶谦
16:10-16:45	自由研讨	叶谦
16:45-17:00	总结发言	汤绪

关键词: 极端事件、大气环境风险、公共卫生安全、系统性风险



大气海洋科学论坛第85期
2019-37
大气科学研究所系列学术报告会

The Ozone Layer: From its Discovery to its Recovery

报告时间: 2019年10月21日下午14:30-15:30
报告地点: 复旦大学江湾校区环境科学楼6008会议室
主办单位: 复旦大学大气与海洋科学系/大气科学研究所
报告人: Guy P. Brasseur, National Center for Atmospheric Research Boulder, CO, USA and Max Planck Institute for Meteorology, Hamburg, Germany.

摘要:
The lecture will present a historical perspective on the ozone research that was initiated in 1930 by the discovery of a peculiar odor produced during the electrolysis of acidulated water. It took almost 50 years to identify the nature of this odor and to recognize that ozone is composed of 3 oxygen atoms. It was also soon established that ozone is a permanent gas of the atmosphere, and its surface concentration was measured at the end of the 19th century. Including at Payer, Montevideo in 1911, in 1913, Fabry and Buisson determined for the first time that an ozone layer is present in the upper atmosphere, but the altitude of this layer remained unknown for several years. Work by Gordon, Götz, Wegener and others provided information about the vertical distribution of ozone in the stratosphere. After 1970, the potential for ozone depletion as a result of human activity was finally assessed, but the occurrence of the Antarctic ozone hole came as a surprise to the scientific community. The role of industrially manufactured chlorofluorocarbons was clear, but the source of the sink was not identified. With the ban on the production of ozone-depleting substances, ozone is expected to recover within the next decades, while the concentration of greenhouse gases is increasing.

报告人简介:
Guy P. Brasseur was educated at the Free University of Brussels, Belgium where he earned two engineering degrees in physics (1971) and one in telecommunications and electronics (1974). He obtained his PhD degree at the same university, but completed the work at the Belgian Institute for Space Aeronomy. Brasseur worked several years at the Belgian Institute for Space Aeronomy, where he developed advanced models of photochemistry and transport in the middle atmosphere. Between 1977 and 1981, he served as an elected member of the Belgian House of Representatives, and was a delegate to the Parliamentary Assemblies of the Council of Europe and of the Western European Union. In 1984, Brasseur moved to NCAR where he first became a staff scientist. He became Director of the Atmospheric Chemistry Division in 1994. During his tenure at NCAR, he served between 1992 and 1995 as Editor in Chief of the Journal of Geophysical Research (Atmosphere), and during the period 1994-2001, became Chair of the International Atmospheric Chemistry Project (IACP) of the International Geosphere-Biosphere Program (IGBP). In 2000, Brasseur moved to Karlsruhe, Germany, where he became Director of the Max Planck Institute for Meteorology, and Honorary Professor at the Universities of Hamburg and Bielefeld. He also became the Scientific Director of the German Climate Change Center (CCC), which hosts one of the major supercomputers dedicated to climate science. Brasseur was also President of the Atmospheric Sciences Section of the American Geophysical Union (2002-2004) and member of the German Climate Change Center (CCC), which hosts one of the major supercomputers dedicated to climate science. Brasseur was also President of the Atmospheric Sciences Section of the American Geophysical Union (2002-2004) and member of the German Climate Change Center (CCC), which hosts one of the major supercomputers dedicated to climate science. Brasseur was also President of the Atmospheric Sciences Section of the American Geophysical Union (2002-2004) and member of the German Climate Change Center (CCC), which hosts one of the major supercomputers dedicated to climate science.

大气生物气溶胶的研究进展

报告时间: 2020年6月3日 10:00-11:30
主办单位: 复旦大学大气与海洋科学系/大气科学研究所、MAP-AQ亚洲区域办公室
报告人: 黄忠伟 教授
邀请人: 王魏妍 青年副研究员
腾讯会议ID: 884 828 361 (<https://meeting.tencent.com/s/0y8hfvnlpB>)

摘要:
生物气溶胶 (bioaerosols) 是对流层大气气溶胶的重要组成部分, 主要包括空气中细菌、真菌、病毒、花粉等组分, 它们从生物圈进入大气圈, 主要来源于土壤、水体 (海洋、湖泊)、岩石、动植物等。生物气溶胶可在大气中远距离传输, 面对对下地区的人体健康与生态环境产生重要影响。报告将包括以下三个内容: 一是基于激光光谱探测生物气溶胶性质的垂直分布特征; 二是通过野外空气采样, 结合荧光光谱和DNA提取测序手段, 研究东亚地区生物气溶胶性质的时空分布及其影响机理; 三是探讨环境湿度对全球新型冠状病毒传播的影响。

报告人简介:
黄忠伟, 兰州大学大气科学学院院长, 教育部青年长江学者 (2018年), 现任大气科学学院院长。主要从事激光雷达大气遥感、生物气溶胶及其气候效应研究, 担任国家精品课程《大气探测学》、省级精品课程《雷天气象学》等课程教学任务, 已发表SCI论文32篇 (被SCI引用700多次), 主持国家自然科学基金项目、科技部国家发明专利、实用新型专利11项, 荣获2018年甘肃省科技进步一等奖 (4/12), 首批全国高校教师教书育人奖、科技创新人才推进计划重点领域创新团队骨干成员, 自2017年以来, 在黄建平教授指导下, 组织实施“一带一路”激光雷达网建设。

大气科学一些重要方向研究的思考

报告时间: 2020年12月28日 (周一) 上午10点
报告地点: 复旦大学江湾校区环境科学楼6008会议室
主办单位: MAP-AQ 亚洲区域办公室 (复旦大学)
报告人: 张兆忠 院士
邀请人: 张兆忠 院士

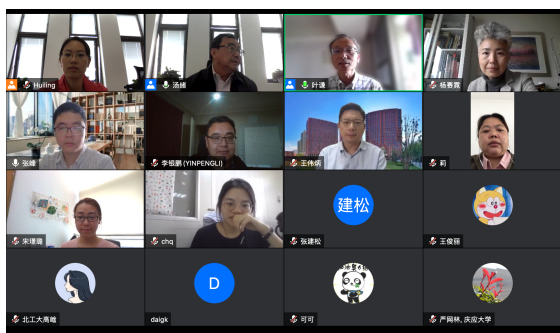
个人介绍:
张兆忠中国工程院院士, 中国气象科学研究院首席科学家, 1998年国家自然科学基金杰出青年科学基金, 1999年首届全国百篇优秀博士学位论文, 2012年首届国家万人计划领军人才获得者。
任世界天气研究计划/国际沙尘暴研究发展计划科学指导委员会主席, 世界气象组织国际沙尘暴预警咨询系统亚洲区域科学指导委员会主席, 国际环境科学与大气化学计划科学指导委员会, 全球大气观测计划/气溶胶科学指导委员会, 世界气象组织国际沙尘暴预警咨询系统科学指导委员会, 国际开放领域专家环境科学与大气化学计划联合科学指导委员会, 任中国工程院大气圈十杰总体专家组成员, 国家自然科学基金委员会中国大气复合污染重大研究计划总体专家组成员, 总理大气污染成因与治理攻关计划总体专家组成员, 环保部清洁空气研究计划总体专家组成员, 环保部全国环境监测技术委员会委员, 中国气象学会大气成分科学专业委员会主任。
长期致力于大气及气候变化中大气成分作用研究, 主持了包括2项国家重点研究计划和1项国家重点研发计划在内的4项国家重大科研项目, 主持建立了中国气象局大气成分观测系统、沙尘数值预报系统、雾、霾数值预报系统, 系统和相关技术不同程度地应用到了国家级、省级业务和军队保障, 并在重大活动和重大气象保障中发挥了积极的作用, 获得了国家自然科学二等奖1项、三等奖1项, 省部级一等奖4项、二等奖和三等奖4项。

工作剪影



2019/10 MAP-AQ联合主席 Prof. Guy Brasseur到访亚洲区域办公室

2020/12
 张小曳院士
 学术报告



2020/10 办公室联合主办《极端气候事件、大气环境风险影响与公共卫生安全》研讨会

2020/06 黄忠伟教授报告



2020/02

办公室成员参加人道救援国际网络周活动 2019/12 办公室成员借调WMO



2019/05
 复旦大学
 代表团应
 邀赴
 WMO参
 加MAP-
 AQ科学委
 员会会议





2021年工作计划

- 招聘1-2名全职人员
- 建立项目办公室网站
- 开展空气质量预报的现状调研
 - 调研全球各地区目前采用的模式类型、关注的研究区域
 - 调研区域内空气质量预报服务现状
 - 协助延续 MarcoPolo – Panda计划
- 定期举办在线讨论会
 - 关注热点话题、最新政策以及高影响研究成果
- 举办培训活动、暑期学校
- 举办学术论坛
 - 拟定于2021年5月
 - 设置相关领域青年科学家奖项

第一届化学天气和化学气候国际论坛（初步方案）

Time	Day 1	Day 2	Day 3	Day 4
08:30 - 09:00	Opening Ceremony VIPs + Launching (1 h) Plenary talk: Jiming Hao (THU)(45 min) Photo & Break (45 min)	Plenary Talk: Renhe Zhang (FDU)	Plenary Talk: Kebin He (THU)	Scientific Tour: Shanghai Meteorological Museum (Optional)
09:00 - 09:30		Plenary Talk: Daniel Jacob (Harvard)	Plenary Talk: Vincent-Henri Peuch (ECMWF)	
09:30 - 10:00		Coffee Break & Poster	Coffee Break & Poster	
10:00 - 10:30				
10:30 - 11:00		Sessions 1 - 5 in Parallel	Sessions 1 - 5 in Parallel	
11:00 - 11:30				
11:30 - 12:00	Plenary Talk: Jim Crawford (IGAC)			
12:00 - 14:00	Lunch	Lunch	Lunch	
14:00 - 14:30	Sessions 1 - 5 in Parallel	Sessions 1 - 5 in Parallel	Session 6	
14:30 - 15:00				
15:00 - 15:30	Coffee Break & Poster	Coffee Break & Poster	Coffee Break	
15:30 - 16:00				
16:00 - 16:30	Sessions 1 - 5 in Parallel	Sessions 1 - 5 in Parallel	Closing Ceremony Summary talk: Rajesh Kumar Award announcement	
16:30 - 17:00				
17:00 - 17:30				
17:30 - 18:00				
18:00 - 19:00		Dinner	Dinner	
19:00 - 19:30	Banquet	Business Meeting	Business Meeting	
19:30 - 20:00				
20:00 - 20:30				
20:30 - 21:00				

Sessions	Chairs
Session 1: Emission inventory of gases and aerosols	<ul style="list-style-type: none"> ● HUGO Denier van der Gon (TNO) ● Kebin He (THU)
Session 2: Observation of the physic-chemical characteristics of atmospheric components	<ul style="list-style-type: none"> ● Tao Wang (HK PolyU) ● Lin Wang (FDU)
Session 3: Multi-scale simulation and forecasting of chemical weather/climate	<ul style="list-style-type: none"> ● Oriol Jorba (Barcelona Supercomputer Center) ● Hong Wang (CAMS)
Session 4: Linkage between air pollution and weather/climate	<ul style="list-style-type: none"> ● Johannes Flemming (GAFIS, ECMWF) ● Xiaoye Zhang (CAMS)
Session 5: Assessment of environmental and health risk associated with air pollution	<ul style="list-style-type: none"> ● Sophie Gummy (WHO) ● Tong Zhu (PKU)
Session 6: Global governance on air quality and interactions with stakeholders	<ul style="list-style-type: none"> ● Jessica Seddon (World Resource Institute, Washington, DC) ● Xu Tang (FDU)