

QUARTERLY REVIEW

Key Highlights

January

CCRS Featured in AGU Documentary Showcasing Global Climate Innovation



HKUST Develops World's First Sub-Zero Elastocaloric Green Freezer



HKUST Successfully Hosts the Second "Class at Sea"

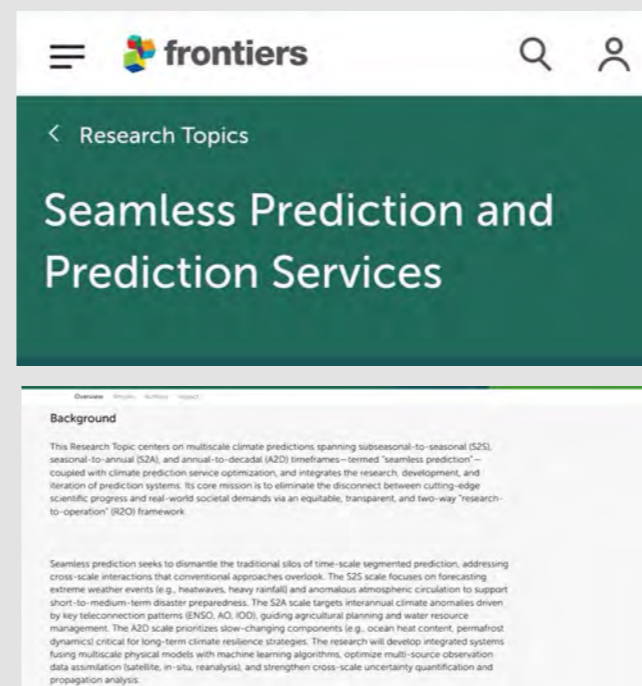


February

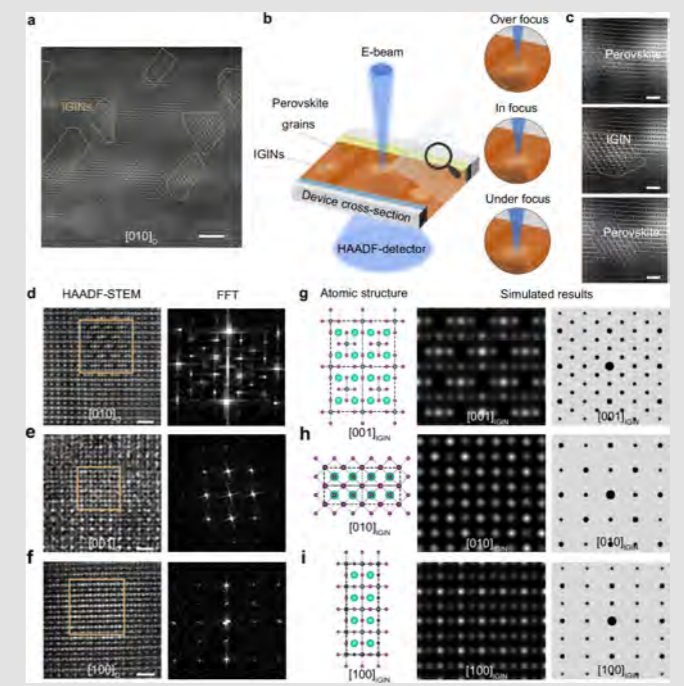
SEPRESS Seamless Prediction System Officially Launched



SEPRESS Team Launches Research Topic in *Frontiers in Climate*



HKUST Team Uncovers Key Defects Limiting Perovskite Performance

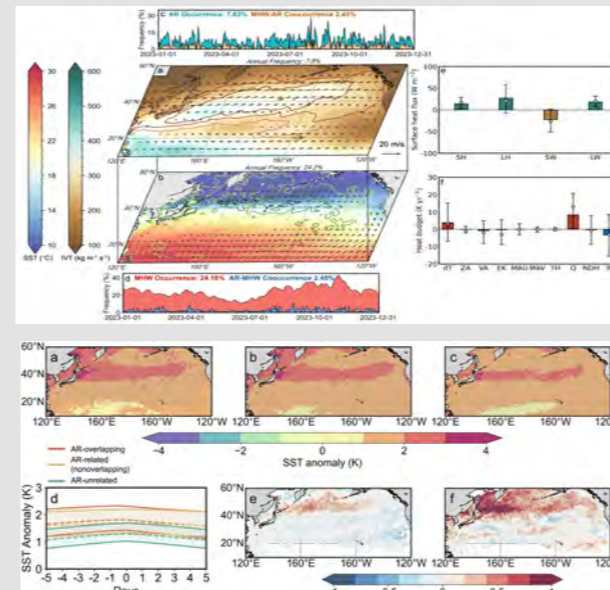


March

HKUST and the National Marine Environmental Forecasting Center Sign MOU



HKUST Study Reveals Coupling Between Atmospheric Rivers and Marine Heatwaves



HKUST Launches IC-PSC to Advance Next-Gen Photovoltaics



NEWSLETTER

HEADLINE NEWS: Director General FENG Lei of Shanghai Meteorological Service Leads Delegation to Visit HKUST

On April 13, 2026, Director General **FENG Lei** of the Shanghai Meteorological Service (SMS) led a delegation to visit the Hong Kong University of Science and Technology (HKUST), engaging in academic exchange and discussion with the Otto Poon Center for Climate Resilience and Sustainability (CCRS) on topics including meteorology and finance, and artificial intelligence. The delegation included **FAN Liming**, Director of the Science and Technology Development Division of SMS; **XU Jianming**, Director of the Shanghai Central Meteorological Observatory; **DING Yang**, Director of the Shanghai Climate Center; **LI Baiping**, Deputy Director of the Shanghai Meteorological Service Center; and **YANG Hanwei**, Deputy Director of the Shanghai Meteorological Disaster Prevention Technical Center.



Group photo of the SMS delegation visiting HKGAI. Fifth from right: Director General FENG Lei of SMS; fourth from left: Prof. LU Mengqian, Director of CCRS.



At the seminar: Director General FENG Lei (right), Academician GUO Yike (center), and Prof. LU Mengqian (left).

During the visit, Prof. **GUO Yike**, Provost of HKUST and Academician of the Chinese Academy of Engineering, met with Director General **FENG Lei** and his delegation. The two sides held in-depth discussions on topics including the interdisciplinary integration of meteorological science and technology, and opportunities for Shanghai–Hong Kong collaboration. Academician GUO noted that HKUST celebrates the 35th anniversary of its founding this year and is in a vibrant "period of youth." He emphasized that HKUST will fully leverage "the drive and innovative spirit of young people," encouraging young scholars to free their minds, boldly break new ground, and focus on research that is both distinctive and forward-looking. He

expressed his hope that HKUST will demonstrate its unique capacity for scientific innovation and its influence on the global stage, achieving ever greater accomplishments. Director General FENG Lei spoke highly of HKUST's innovative capabilities and pragmatic approach in recent years, and stressed that, amid the new challenges posed by global climate change and the new opportunities arising from steady urbanization, HKUST's research orientation—focused on the frontier and integrating multiple disciplines—carries significant strategic importance. He expressed his hope that both sides, drawing on their respective strengths and powered by high-quality data and platforms, will jointly advance the deep integration of research and industry, contributing wisdom and solutions to address global challenges.

During the seminar, presentations were delivered by **YANG Hanwei**, Deputy Director of the Shanghai Meteorological Disaster Prevention Technical Center; Prof. **LU Mengqian**, Director of CCRS; and Prof. **LOU Dong**, Associate Dean of Business and Management (joining online), covering two themes: green finance meteorological services and climate change research. In the afternoon, **XU Jianming**, Director of the Shanghai Central Meteorological Observatory, and Prof. **YUAN Binhang**, Assistant Professor in the Department of Computer Science and Engineering at HKUST, delivered presentations on cutting-edge topics including the application of deep learning in weather forecasting and the exploration of large language model agents in meteorological services. Participants engaged in extensive discussions on related research directions.

Since the signing of a memorandum of cooperation, HKUST and the Shanghai Meteorological Service have continued to deepen their collaboration in the field of meteorological science and technology. This visit further advanced industry–academia–research synergy between the two sides across multiple frontier areas, laying a solid foundation for the implementation of future collaborative projects.



Academician XIA Jun and Team from Wuhan University Visit HKUST

On March 30, 2026, Professor **XIA Jun**, Academician of the Chinese Academy of Sciences and Professor at the School of Water Resources and Hydropower Engineering at Wuhan University, led a delegation to visit the Hong Kong University of Science and Technology (HKUST) for academic exchanges on topics including artificial intelligence and hydrometeorology. The delegation included Professor **SONG Jiyun**, Associate Professor **XIAO Yi**, Senior Laboratory Engineer **LUO Wenguang**, Associate Researcher **HU Chen**, and student representatives from Wuhan University.



Group photo of Academician XIA Jun (second row, fifth from left) and his team with Prof. LU Mengqian (second row, sixth from left) and her team.

During the visit, Professor **GUO Yike**, Provost of HKUST and Academician of the Chinese Academy of Engineering, met with Academician XIA Jun and his delegation. The two sides engaged in in-depth discussions on research advances, interdisciplinary integration, and potential collaboration in the fields of artificial intelligence and hydrometeorology, and expressed mutual interest in strengthening academic exchanges and research cooperation.



Academician XIA Jun (left), Academician GUO Yike (center), and Prof. LU Mengqian (right) in discussion during the seminar.

In the subsequent seminar, Academician XIA Jun shared his team's latest research findings and insights in hydrology. Professor **LU Mengqian**, Director of the Otto Poon Center for Climate Resilience and Sustainability (CCRS) at HKUST, presented an overview of the center's development and research initiatives. Several researchers from the center delivered presentations on topics including meteorological AI, weather forecast post-processing and AI agent applications, and East Asian atmospheric rivers. Participants engaged in extensive discussions on related research directions.

This visit further deepened mutual understanding between Wuhan University and HKUST in relevant fields, and provided a valuable opportunity for closer collaboration in areas such as artificial intelligence and hydrometeorology in the future.

🎁 A Little Surprise Awaits You at CCRS 🎁

Something special is on the way! 🎁 We've been quietly working on a little surprise for our friends and partners — and we're excited to say it's almost ready. What is it exactly? That's a secret... for now. 🤫



All we can say is: it's something you'll want to get your hands on. These exclusive goodies will find their way to our collaborators and visitors in due course.

So whether you're a long-time collaborator or a potential new friend, consider this your invitation — come visit CCRS, and see for yourself what we've been up to. We promise it'll be worth the trip! 😊

We look forward to welcoming you! ✨

News in Brief

On March 25, 2026, CCRS participated in the 2026 National Flood Season Climate Trend Prediction Consultation organized by the China Meteorological Administration (CMA) in Beijing, forming a joint team with Beijing Normal University and the Institute of Atmospheric Physics, Chinese Academy of Sciences. This marks an important step in CCRS's engagement with China's national climate prediction efforts.