















1.Scientific Collaboration Framework



MoU between Egypt-China

- Memorandum of Understanding (MoU) Agreement between South China Agriculture University, China and National Research Centre, Egypt was signed.
- MoU between Ningxia University, China and National Research Centre, Egypt about Smart Irrigation Systems and other scientific research area was signed.



1.Scientific Collaboration Framework

MoU between China-Thailand

- Srinakharinwirot University delegation visited Beijing in January 2019 and signed MoU with IAP, CAS.
- ICCES and the Social Science College of SWU signed MoU back in year 2016, the two sides agreed to conduct cooperative research in the fields of extreme weather and climate events, land use, climate change and water cycle.



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1.Scientific Collaboration Framework



African Drought International Cooperation Network

During the 17th CTWF International symposium held in 2018, ICCES research scientists exchanged views about issues such as drought, desertification and water shortages with scientists from nine African countries including Nigeria, Sudan, Kenya, Egypt, Morocco, Togo, Ghana, Tunisia, Mali, etc.

The African Drought International Cooperation Network is established to conduct joint research, share data and the latest research results, and conduct regular training and academic exchanges to reveal the characteristics and mechanisms of drought in African countries and serve countries' prediction and response capabilities for extreme weather events.









International Training Workshop



International Training Workshop on "Land-hydrological Processes Under Changing Climate" (Sep. 20-21, 2018 Beijing, China)

Over 80 participants, including 42 overseas participants from 20 developing countries including Pakistan, Bangladesh, Egypt, Ghana, Kazakhstan, Nigeria, Mali, Togo and Morocco, etc.

Topics:

- ✓ climate change and its impact on the hydrological and water cycle processes
- \checkmark observations of land surface hydrological processes and Its application
- \checkmark general land surface model CoLM and its application
- \checkmark uncertainty in land surface hydrological process simulation.



International Training Workshop



<u>International Training Workshop on "Climate Change Impact and Adaptation for Sustainable Development"</u>

- ➢ July 21, 2018
- > Bangkok, Thailand
- There were more than 40 experts and scholars attending from over 9 countries including China, Thailand, the Netherlands, Japan, India, Botswana, Sri Lanka, Indonesia and South Africa attended the workshop.



Fellowship Programs for Graduate students



2018-2019 Enrollment: Augustine Omondi from Kenya, Sadaf Nasreen from Pakistan

Besides, Kritanai Torsri (Thailand), Sherly Shelton (Sri Lanka), Farhan Saleem (Pakistan), Alireza Kamal (Iran) continue their study at ICCES.

CAS "The Belt and Road" Master Fellowship Program \geq

2018-2019 Enrollment: Karimova Mahjabin from Tajikistan

Besides, Kalpana Hamal (Nepal) continue her study at ICCES.



> Postdoc Researchers:

CAS President's International Fellowship Initiative (PIFI)

Dr. Victor Nnamdi Dike from Nigeria will start his work at ICCES as PostDoc researcher under the support of PIFI program.

> Short-term Scheme: **TWAS-UNESCO Associateship**

With the support of the TWAS-UNESCO Associateship program, Prof. Sathaporn Monprapussorn, Director of the Department of Geography, College of Social Sciences, Srinakharinwirot University(SWU), will complete two visits to ICCES within three years from 2019, and conduct joint research with the ICCES research team.



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3. Short-term visiting > Dr. Wajid Nasim Jatoi, Associate Professor of COMSATS University Islamabad, Pakistan visited ICCES in November 2018. Dr. Wajid's research area is <u>Crop eco-climatology</u>. In his report, he introduced the water distribution and demand in Pakistan, and the damage caused by floods to Pakistan's agriculture and national economy. He talked about his participation in Pakistan's participation in the International Crop Model Comparison Program (AgMIP), with Australia's CSIRO and research results of cooperation projects with CIHEAM, France. Potential collaboration theme: <u>"Integration of Crop and Hydrological Simulation Technology</u> and Ita Application in Mitigation of Climato

<u>Simulation Technology and Its Application in Mitigation of Climate</u> <u>Change Impacts in China and Pakistan".</u>

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4. Joint Research Projects



Land use change projection in Amphoe Muang, Kanchanaburi province, Thailand

- Leaded by Srinakharinwirot university, Thailand
- This research focuses on developing scenario based development of land use change in urbanization area of Kanchanaburi province, Thailand. A land use projection in next 20 years will be modeled and projected based on different scenarios.

Integrated climate and land use change impact on coastal resilience: A case study of Low elevated coastal cities

- by Srinakharinwirot university, Thailand
- This international research project will focus on how climate and land use change will impact on low elevated coastal zone (LECZ) in Asian cities.

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