The 12th annual meeting of USCCC

July 30- August 1, 2015, Shanghai, China

**Background & Objectives**

United States - China Carbon Consortium (USCCC) has gone twelve years since its foundation in 2004, with focusing on the impacts of climate change and humans on the carbon and hydrologic cycles at broad spatial scales. Nowadays, the development of monitoring technology, the advent of the Big Data Era, and the emergence of crowdsourcing science, present new challenges and opportunities for USCCC development. Although there are different conditions between China and America, the common idea has driven us to be the long time cooperation model based on grassroots organizations. We have been continuously introducing new focus in the cooperation, such as coupling study of ecosystem carbon, water and energy flux, greenhouse gas emissions in the rapid urbanization, impact of large-scale reclamation on the ecosystem nutrient cycle, and so on.

**Themes**

(1) Non-CO2 Greenhouse Gas Flux Monitoring

(2) Synthesis Study in Data Sharing Era

(3) Research on Regional Scale;

(4) Flux Research on Non-Natural Region

We are looking forward to seeing you in Shanghai!

Key Laboratory for Biodiversity Science and Ecological Engineering, Fudan University

Coastal National Field Research Station of Shanghai Chongming Dongtan wetland

2015/5/14

**Annual meeting of USCCC, 2015**

**2015/07/30～08/01**

**Yifu Science And Technology Building, Fudan University, Shanghai, China**

**07/30 14:00-20:00 Registration at the hall of Fortune Hotel (No. 399, Handan Road, Shanghai).**

07/30

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| **Morning** |
| **EC system setup** |
| 08:00-9:40 | OPEC setup | Quan Yang |
| 9:40-10:00 | Tea break |  |
| 10:00-11:40 | CPEC setup | Shanggang Li |
| 11:40-12:30 | Lunch |  |
| 12:30-13:30 | Discussion |  |
| **Afternoon** |
| **Data processing and system maintenance** |
| 13:30-14:00 | Brief introduction to data process | Haiqiang Guo |
| 14:00-14:30 | Practice of data process | Gang Dong |
| 14:30-15:30 | Instrument calibration and maintenance | Gang Dong |
| 17:30-18:30 | Dinner |  |

07/31

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| **上 午****Morning** |
| **开幕式 主持人：赵斌****Opening Ceremony Host: Bin Zhao** |
| 08:00-08:05 | 介绍与会领导及嘉宾Introduction |  |
| 08:05-08:10 | 校(院)领导致辞Address |  |
| 08:10-08:15 | 所领导致辞Address |  |
| **专题一 非CO2温室气体通量监测 主持人：马明国****Topic 1: Non-CO2 Greenhouse Gas Flux Monitoring Host: Mingguo Ma** |
| 08:15-08:35 | CH4 and H2O flux from a wetland of arid area | 张强Qiang Zhang |
| 08:35-8:50 | 长江滩地杨树人工林CH4通量研究Research on CH4 flux over a poplar plantation | 高升华Shenghua Gao |
| 8:50-9:05 | 新技术带来新机会——激光痕量检测技术在非CO2涡相关通量及稳定同位素监测中的应用Application of laser trace detection technology in non-CO2 flux measurement and stable isotope monitoring | 朱湘宁Xiangning Zhu |
| 09:05-9:20 | 滨海湿地CH4通量研究Research on CH4 flux from a coastal wetland ecosystem | 李 红Hong Li |
| 9:20-9:40 | 提问及讨论Discussion |  |
| 9:40-10:00 | 合影/茶歇Group photo & tea break |  |
| **专题二 数据共享时代的综合研究 主持人：孙阁****Topic 2: Synthesis Study in Data Sharing Era Host: Ge Sun** |
| 10:00-10:20 | 基于多源数据整合的陆地生态系统碳循环年际变异研究Research on interannual variation of carbon flux of terrestrial ecosystem based on multi-source unity | 牛书丽Shuli Niu |
| 10:20-10:40 | Joint control of terrestrial gross primary productivity by plant phenology and physiology: implications for data-model integration | 夏建阳Jianyang Xia |
| 10:40-11:00 | Direct and Indirect Effects of Climatic Variations on Interannual Variability in Net Ecosystem Exchange across Terrestrial Ecosystems | 周旭辉Xuhui Zhou |
| 11:00-11:20 | 提问及讨论Discussion |  |
| 11:20-12:30 | 午餐Lunch |  |
| **12:30-13:30** | **海报展示****Poster Session** |  |
| **下 午****Afternoon** |
| **专题三 区域尺度研究 主持人：肖劲锋****Topic 3: Research on Regional Scale Host: Jinfeng Xiao** |
| 13:30-13:50 | Emerging new patterns in ecosystem response to chronic and episodic stress | Steven McNulty |
| 13:50-14:10 | Challenges of estimating evapotranspiration at multiple scales | 孙 阁Ge Sun |
| 14:10-14:30 | 黑河流域主要景观类型的蒸散发Evapo-transpiration from main landscape type of Heihe watershed | 徐同仁Tongren Xu |
| 14:30-14:50 | Seasonal and interannual variations in carbon exchange of four desert ecosystems in arid region, northwest China: an important carbon storage pool that should not be ignored | 马明国Mingguo Ma |
| 14:50-15:10 | What have we learnt from our measurements of desert shrub-land ecosystem? | 查天山Tianshan Zha |
| 15:10-15:35 | 提问与讨论以及问题征集Question & Discussion with question collection |  |
| 15:35-15:50 | 茶歇Tea break |  |
| **专题四 非自然区域的通量研究 主持人：Steven McNulty****Topic 4: Flux Research on Non-Natural Region Host: Steven McNulty** |
| 15:50-16:10 | Frontiers and New Directions in Flux Measurements: Bridging to the Human Dimension | 陈吉泉Jiquan Chen |
| 16:10-16:30 | 城市化对城市森林生态系统碳循环的影响Effect of urbanization on carbon flux of forest ecosystem | 赵 敏Min Zhao |
| 16:30-16:50 | 城市中生产-分解系统耦合的温室气体减排Reduction in greenhouse emission from coupled production-decomposition system in urban area | 常 杰Jie Chang |
| 16:50-17:05: | Contrasting ecosystem CO2 fluxes of inland and coastal wetlands: A meta-analysis of eddy covariance data | 卢伟志Weizhi Lu |
| 17:05-17:20 | 提问及讨论Discussion |  |
| 17:20-17:30 | 总结致辞Concluding remarks |  |
| 17:30-18:30 | 晚餐Dinner |  |
| **20:00-22:00** | **PI内部讨论会****PI meeting**  |  |

08/01

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| **上午****Morning** |
| **多站点综合研究讨论****Multi-Sites Synthesis Research Discussion** |
| 08:00-10:00 | 综合研究探讨Synthesis research discussion | 肖劲锋Jinfeng Xiao |
| 10:00-10:20 | 茶歇Tea break |  |
| 10:20-11:20 | 未来测量的发展方向探讨Discussion of future flux measurement development | 陈吉泉Jiquan Chen |
| 11:20-11:30 | 总结陈辞Concluding remarks | 赵 斌Bin Zhao |
| 11:30-12:30 | 午餐Lunch |  |
| **下午****Afternoon** |
| **崇明东滩考察****Field Investigation to Chongming Dongtan** |
| 12:30-17:00 | 崇明东滩考察Field trip to Chongming Dongtan | 郭海强Haiqiang Guo |
| 17:00-19:00 | 晚餐Dinner |  |