

Introduction of

Chinese Flux Observation and Research Network (ChinaFLUX)



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Contact of ChinaFLUX

Overview

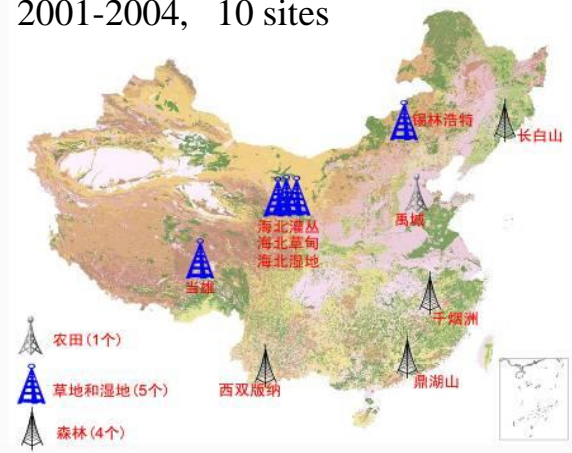
Based on Chinese Ecological Research Network (CERN), ChinaFLUX (Chinese Terrestrial Ecosystem Flux Observation and Research Network) applies eddy covariance and chamber as main methods to provide long-term and continuous measurement of trace gases and energy exchange between ecosystem and atmosphere in China from 2001. After more than ten years development, the new ChinaFLUX (Chinese Flux Observation and Research Network) was established on 28th July, 2014, which is composed of more research and teaching institutions of China. As a scientific & research league, ChinaFLUX is an open academic society in China.

On the principle of Voluntary, Open, Innovation and Development, ChinaFLUX unites the flux observation and research communities from Chinese Academy of Sciences, universities and research institutions of different industrial sectors to conduct the coordinated flux measurement in China. At present, 64 sites (80 towers) has joined ChinaFLUX, including 16 cropland sites, 20 forest sites, 13 grassland sites, 11 wetland sites, 2 desert sites, 1 water-body sub-network and 1 urban site. ChinaFLUX has become an important platform for ecosystem and global change research in China.

To meet the national scientific and technological strategy targets and requirements for social and economic sustainable development, ChinaFLUX will take full advantages of the observation and research resources from different industrial sectors to promote the strategic cooperation and collaborative innovation in climate change, ecosystem feedback, ecosystem evaluation, environmental protection and regional sustainable development. At the same time, ChinaFLUX emphasizes the international academic exchange to broaden the international cooperation and improve the influence of Chinese flux observation and research in the related international scientific and technological activities.

History

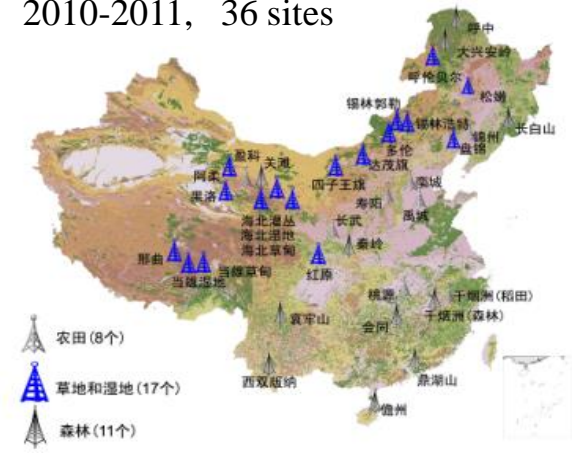
2001-2004, 10 sites



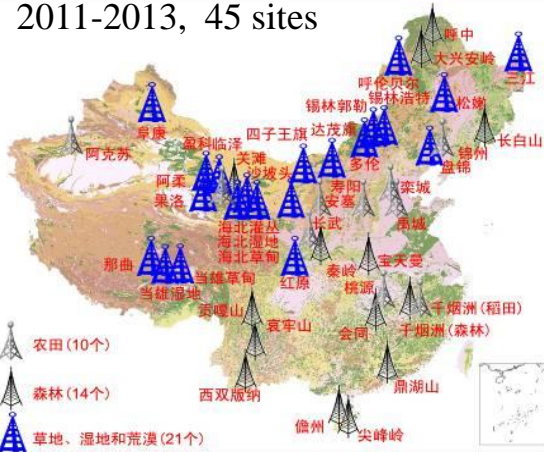
2005-2010, 19 sites



2010-2011, 36 sites



2011-2013, 45 sites

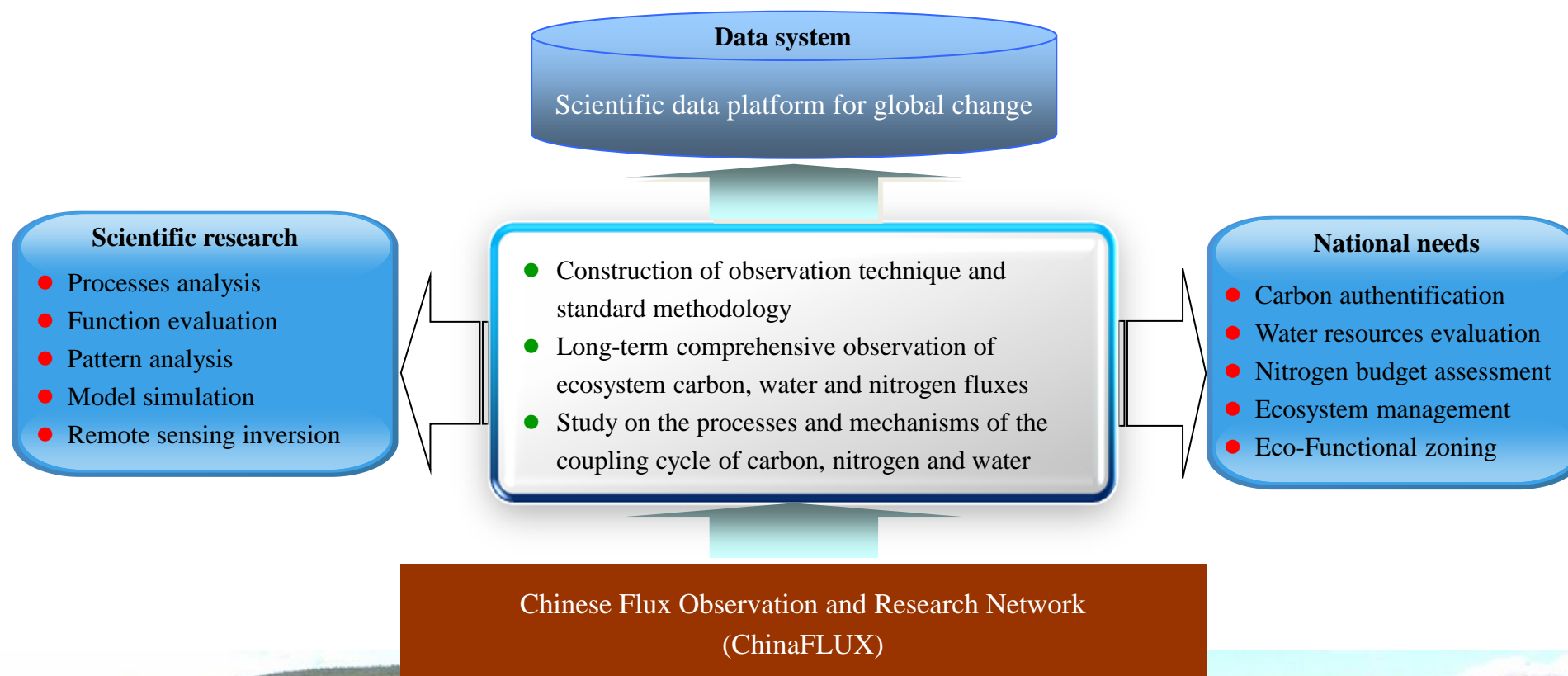


2014-, 64 sites



Scientific Objectives & Missions

- To establish the national ecosystem flux observation and research platform in China for advancing the comprehensive observation capacity, and to accumulate the long-term measurement data of trace gases and energy fluxes.
- To study the key techniques and standard methodology of carbon, water, nitrogen and energy fluxes across different spatial scales, and to build the filed observation and research platform, data-model fusion platform and international cooperation platform.
- To promote the integration study on the processes and mechanisms of carbon, water and nitrogen coupling cycle across local, transect and regional scales, to identify the spatio-temporal patterns and variability of regional and global GHGs exchanges for national carbon budget evaluation.

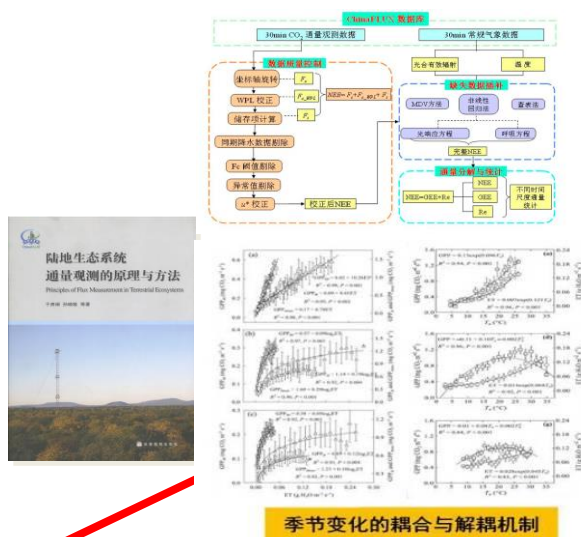


Scientific Themes

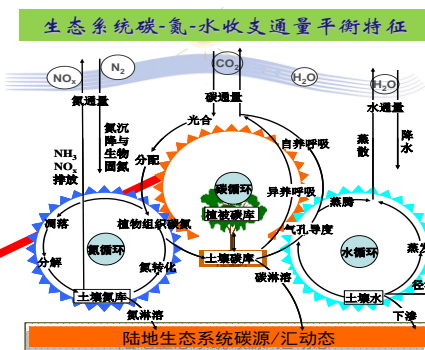
- Flux measurement and data assessment
- Variations and ecological processes of $\text{CO}_2/\text{H}_2\text{O}$ fluxes

- Coordinated measurement technique of C-N- H_2O fluxes
- Variations and ecological processes of C-N- H_2O fluxes

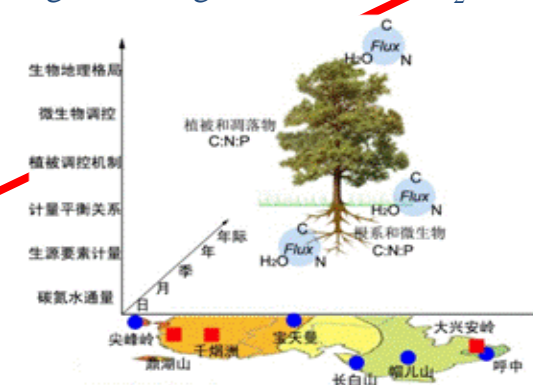
- Ecological stoichiometry and its biological mechanism of ecosystem C-N- H_2O fluxes
- Spatio-temporal patterns of ecosystem C-N- H_2O fluxes
- Regional budgets of C, N and H_2O



- Eddy covariance technique

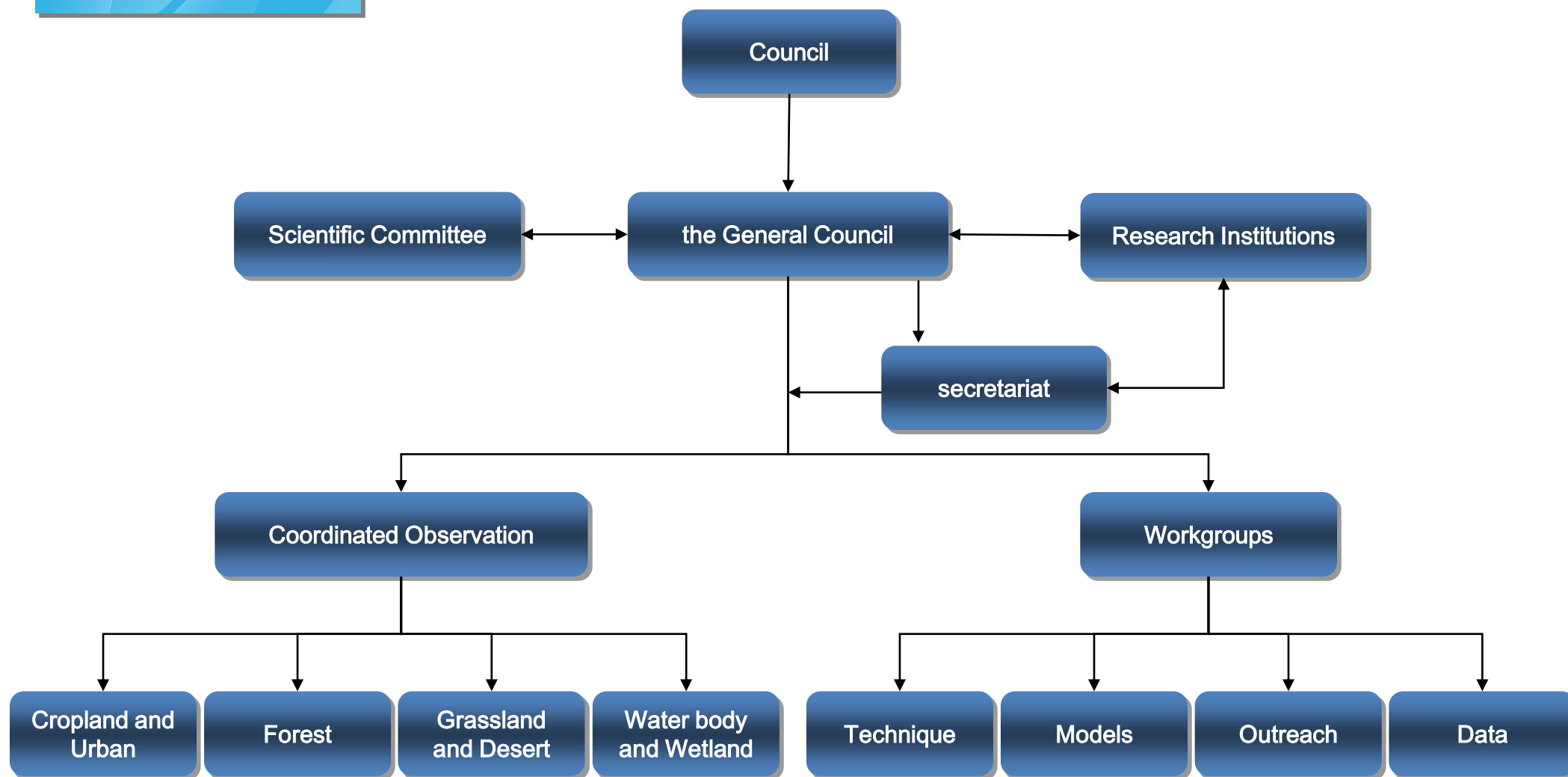


- Eddy covariance technique
- In situ* stable isotope technique
- Nitrogen deposition technique
- Data-model assimilation

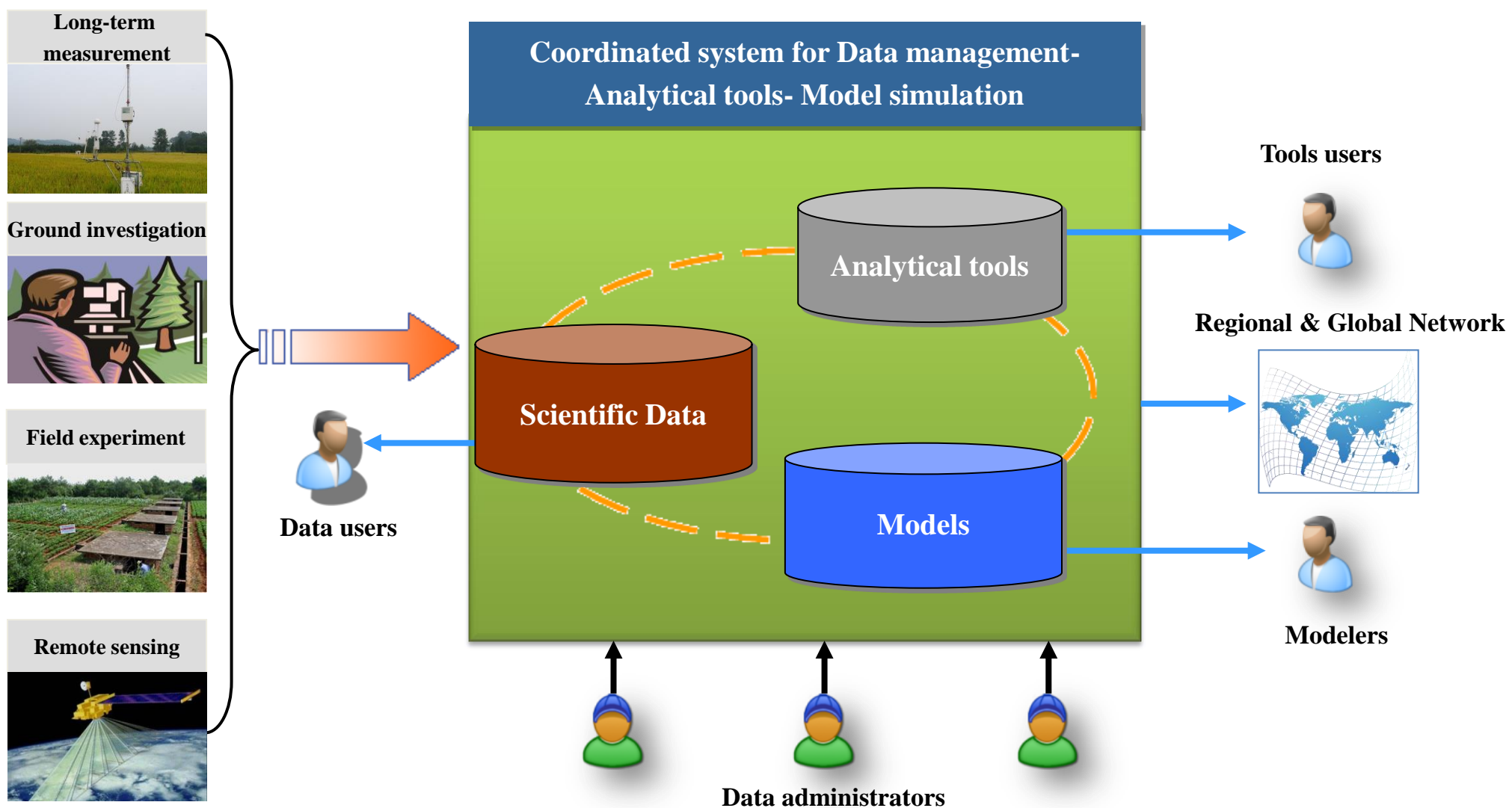


- Multi-interface C-N- H_2O fluxes measurement technique
- In situ* stable isotope technique
- Plant phenology measurement
- Site-transect-region comprehensive technique

Organization



Data management and service



A photograph of a cropland site. In the foreground, a tall, slender meteorological tower stands in a field of green rice. The tower has a white box with 'LI-COR' written on it near the base. A thin wire extends from the top of the tower towards the upper right corner of the frame. In the background, there is a line of trees and rolling hills under a clear sky. The text 'Cropland Sites' is overlaid in the center of the image.

Cropland Sites

1. Akesu

- ✚ **Location:** 40 °37' N, 80 °45' E
- ✚ **Altitude:** 1028 m.a.s.l
- ✚ **Ecosystem:** Dryland cotton
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Chengyi Zhao
- ✚ **E-mail:** zcy@ms.xjb.ac.cn



2. Changsha

- ✚ **Location:** (a) 28 °34' 49.5" N, 113 °19' 39.9" E
(b) 28 °35' 05.9" N, 113 °19' 45.6" E
- ✚ **Altitude:** (a) 82 m.a.s.l, (b) 106.2 m.a.s.l
- ✚ **Ecosystem:** (a) Subtropical rice paddy and (b) Subtropical Tea garden
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Institute of Subtropical Agriculture, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Yong Li
- ✚ **E-mail:** yli@isa.ac.cn



3. Changwu

- ✚ **Location:** 35 °14' 31.54" N, 107 °40' 55.90" E
- ✚ **Altitude:** 1220 m.a.s.l
- ✚ **Ecosystem:** Winter wheat on the Loess Plateau
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Institute of Soil and Water Conservation, Chinese Academy of Sciences and Ministry of Water Resources
- ✚ **Principle Investigator:** Yuanjun Zhu
- ✚ **E-mail:** zhuyuanjun@foxmail.com



4. Daman

- ✚ **Location:** 38 °51' 20" N, 100 °22' 20.2" E
- ✚ **Altitude:** 1561 m.a.s.l
- ✚ **Ecosystem:** Winter wheat and maize on Oasis
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Mingguo Ma
- ✚ **E-mail:** mmg@lzb.ac.cn



5. Jiaozhouwan

- ✚ **Location:** 36 °26' 15" N, 120 °05' 21" E
- ✚ **Altitude:** 8 m.a.s.l
- ✚ **Ecosystem:** Temperate winter wheat and summer maize
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Qiangdao Agricultural University
- ✚ **Principle Investigator:** Jianlin Wang
- ✚ **E-mail:** wangjianlinrice@aliyun.com

6. Jinzhou

- ✚ **Location:** 41 °08' 53" N, 121 °12' 06" E
- ✚ **Altitude:** 23.3 m.a.s.l
- ✚ **Ecosystem:** Temperate spring maize
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Chinese Academy of Meteorological Sciences
- ✚ **Principle Investigator:** Guangsheng Zhou
- ✚ **E-mail:** gszhou@ibcas.ac.cn



7. Linze

- ✚ **Location:** 39 °19' 38" N, 100 °08' 27" E
- ✚ **Altitude:** 1365 m.a.s.l
- ✚ **Ecosystem:** Oasis corpland
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Cold and Arid Regions Eenvironmental and Engineering Research
Institute, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Wenzhi Zhao
- ✚ **E-mail:** zhaowzh@lzb.ac.cn



8. Luancheng

- ✚ **Location:** 37 °31' 57" N, 114 °24' 46" E
- ✚ **Altitude:** 50.1 m.a.s.l
- ✚ **Ecosystem:** Temperate winter wheat and summer maize
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Institute of Genetics and Developmental Biology, Chinese Academy of Sciences
- Principle Investigator:** Yuying Wang
- ✚ **E-mail:** wangyuying@sjziam.ac.cn



9. Qianyanzhou

- ✚ **Location:** 26 °44' 45" N, 115 °04' 47" E
- ✚ **Altitude:** 68 m.a.s.l
- ✚ **Ecosystem:** Subtropical rice paddy
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Huimin Wang
- ✚ **E-mail:** wanghm@igsnrr.ac.cn



10. Shouyang

- ✚ **Location:** 37 °45' N, 113 °12' E
- ✚ **Altitude:** 1202 m.a.s.l
- ✚ **Ecosystem:** Temperate winter wheat and summer maize
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Institute of Environment and Sustainable Development in Agriculture, Chinese Agricultural Academy of Sciences
- ✚ **Principle Investigator:** Xurong Mei
- ✚ **E-mail:** meixr@ieda.org.cn



11. Taoyuan

- ✚ **Location:** 28 °53' 49.70" N, 111 °24' 37.87" E
- ✚ **Altitude:** 62.4 m.a.s.l
- ✚ **Ecosystem:** Subtropical Rice paddy
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Institute of Subtropical Agriculture, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Wenxue Wei
- ✚ **E-mail:** wenxuewei@isa.ac.cn



12. Tianmuhu

- ✚ **Location:** 31 °16' 14" N, 119 °27' 15" E
- ✚ **Altitude:** 91 m.a.s.l
- ✚ **Ecosystem:** Subtropical Tea garden
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Nanjing Institute of Geography & Limnology, Chinese Academy of Sciences
- ✚ **Principle Investigator :** Hengpeng Li
- ✚ **E-mail:** hpli@niglas.ac.cn



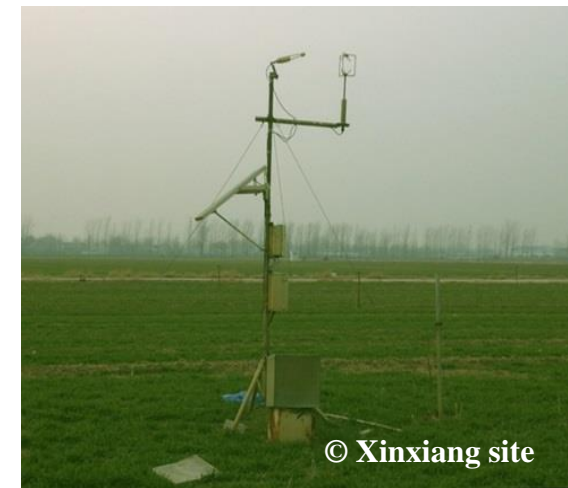
13. Wuxi

- ✚ **Location:** 31 °39' 14" N, 120 °32' 32.43" E
- ✚ **Altitude:** 6 m.a.s.l
- ✚ **Ecosystem:** Subtropical Winter wheat and summer maize
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Nanjing Institute of Geography & Limnology, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Hengpeng Li
- ✚ **E-mail:** hpli@niglas.ac.cn



14. Xinxiang

- ✚ **Location:** 35 °7' 48" N, 113 °45' 0" E
- ✚ **Altitude:** 74 m.a.s.l
- ✚ **Ecosystem:** Temperate Winter wheat and summer maize
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Farmland Irrigation Research Institute, Chinese Agricultural Academy of Sciences
- ✚ **Principle Investigator:** Xiaofei Liu
- ✚ **E-mail:** lxffiri@aliyun.com





15. Yingke

- ✚ **Location:** 38 °51' 25.7" N, 110 °24' 37.2" E
- ✚ **Altitude:** 1519.1 m.a.s.l
- ✚ **Ecosystem:** Maize in the middle latitude hinterland
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Weizhen Wang
- ✚ **E-mail:** weizhen@lzb.ac.cn

16. Yucheng

- ✚ **Location:** 36 °57' 30" N, 116 °38' 26" E
- ✚ **Altitude:** 23.4 m.a.s.l
- ✚ **Ecosystem:** Temperate Winter wheat and summer maize
- ✚ **IGBP (land use):** Cropland
- ✚ **Affiliation:** Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences .
- ✚ **Principle Investigator:** Fenghua Zhao
- ✚ **E-mail:** zhaofh@igsnrr.ac.cn





Forest Sites

1. Ailao Mountain

- ✚ **Location:** 24 °32' 17" N, 101 °01' 44" E
- ✚ **Altitude:** 2450 m.a.s.l
- ✚ **Ecosystem:** Sub-tropical evergreen broadleaf forest
- ✚ **IGBP (land use):** Evergreen broadleaf forest
- ✚ **Affiliation:** Xishuangbanna Tropical Botanical Garden,
Chinese Academy of Sciences
- ✚ **Principle Investigator:** Liqing Sha
- ✚ **E-mail:** shalq@xtbg.ac.cn



2. Changbai Mountain

- ✚ **Location:** 42 °24' 09" N, 128 °05' 45" E
- ✚ **Altitude:** 738 m.a.s.l.
- ✚ **Ecosystem:** Temperate broadleaf pine forest
- ✚ **IGBP (land use):** Mixed forest
- ✚ **Affiliation:** Institute of Applied Ecology, Chinese Academy of
Sciences
- ✚ **Principle Investigator:** Shijie Han
- ✚ **E-mail:** hansj@iae.ac.cn



3. Changbai Mountain (secondary forest)

- ✚ **Location:** 42 °24' 52.57" N, 128 °6' 11.19" E
- ✚ **Altitude:** 730 m.a.s.l.
- ✚ **Ecosystem:** Temperate secondary forest
- ✚ **IGBP (land use):** Mixed forest
- ✚ **Affiliation:** Institute of Applied Ecology, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Jiabing Wu
- ✚ **E-mail:** wujb@iae.ac.cn



4. Danzhou

- ✚ **Location:** (a) 19 °32'47" N, 109 °28'30" E
(b) 19 °32'16" N, 109 °28'06" E
- ✚ **Altitude:** (a) 114 m.a.s.l, (b) 116 m.a.s.l
- ✚ **Ecosystem:** Tropical rubber plantation
- ✚ **IGBP (land use):** Evergreen Broadleaf Forest
- ✚ **Affiliation:** Rubber Research Institute, Chinese Academy of Tropical Agricultural Sciences
- ✚ **Principle Investigator:** Zhixiang Wu
- ✚ **E-mail:** wzxrri@163.com

5. Dinghu Mountain

- ✚ **Location:** 23 °09'-23 °11' N, 112 °30'-112 °33' E
- ✚ **Ecosystem:** Subtropical evergreen broadleaf forest
- ✚ **IGBP (land use):** Evergreen broadleaf forest
- ✚ **Affiliation:** South China Botanical Garden, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Junhua Yan
- ✚ **E-mail:** jhyan@scib.ac.cn



6. Genhe

- ✚ **Location:** 50 °49'-50 °51' N, 121 °30'-121 °31' E.
- ✚ **Ecosystem:** Cold temperate coniferous forest
- ✚ **IGBP (land use):** Deciduous Needleleaf Forest
- ✚ **Affiliation:** Inner Mongolia Agricultural University
- ✚ **Principle Investigator:** Qiuliang Zhang
- ✚ **E-mail:** zql@mail@vip.sina.com





7. Gongga Mountain

- ✚ **Location:** 29 °34' 34" N, 101 °59' 54" E
- ✚ **Altitude:** 2948 m.a.s.l
- ✚ **Ecosystem:** Dark coniferous forest on Qinghai-Tibet plateau
- ✚ **IGBP (land use):** Deciduous needleleaf forest
- ✚ **Affiliation:** Institute of Mountain Hazards and Environment, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Genxu Wang
- ✚ **E-mail:** wanggx@imde.ac.cn

8. Guantan

- ✚ **Location:** 38 °32' N, 100 °15' E
- ✚ **Altitude:** 2835 m.a.s.l
- ✚ **Ecosystem:** *Picea crassifolia* Kom forest ecosystem.
- ✚ **IGBP (land use):** Deciduous needleleaf forest
- ✚ **Affiliation:** Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Weizhen Wang
- ✚ **E-mail:** weizhen@lzb.ac.cn



9. Huzhong

- ✚ **Location:** 51 °46' 52" N, 123 °01' 04" E
- ✚ **Altitude:** 773 m.a.s.l
- ✚ **Ecosystem:** Boreal forest ecosystem.
- ✚ **IGBP (land use):** Deciduous needleleaf forest
- ✚ **Affiliation:** Chinese Academy of Meteorological Sciences
- ✚ **Principle Investigator:** Guangsheng Zhou
- ✚ **E-mail:** gszhou@ibcas.ac.cn



10. Huitong

- ✚ **Location:** 26 °47' 08.2" N, 109 °35' 30.3" E
- ✚ **Altitude:** 313.5 m.a.s.l
- ✚ **Ecosystem:** Subtropical Chinese fir forest ecosystem
- ✚ **IGBP (land use):** Evergreen Broadleaf Forest
- ✚ **Affiliation:** Central South University of Forestry and Technology
- ✚ **Principle Investigator:** Wenhua Xiang
- ✚ **E-mail:** xiangwh2005@163.com



11. Jianfeng Mountain

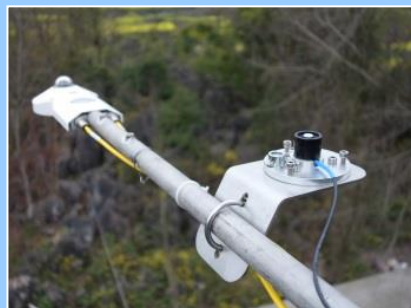
- ✚ **Location:** 18 °43' 47" N, 108 °53' 23.8" E
- ✚ **Altitude:** 890 m.a.s.l
- ✚ **Ecosystem:** Primary forest of tropical mountain rain forest
- ✚ **IGBP(land use):** Evergreen broadleaf forest
- ✚ **Affiliation:** Research Institute of Tropical Forestry, Chinese Academy of Forestry
- ✚ **Principle Investigator:** Yide Li
- ✚ **E-mail:** liyide@126.com



12. Lijiang

- ✚ **Location:** 27 °08' 32" N, 100 °13' 38" E
- ✚ **Altitude:** 28 m.a.s.l
- ✚ **Ecosystem:** Cold temperate coniferous forest ecosystem
- ✚ **IGBP (land use):** Deciduous needleleaf forest
- ✚ **Affiliation:** Kunming Institute of Botany, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Kun Xu
- ✚ **E-mail:** xukun@mail.kib.ac.cn





13. Puding

- ✚ **Location:** 26 °22' 03" N, 105 °45' 08" E
- ✚ **Altitude:** 1166 m.a.s.l
- ✚ **Ecosystem:** Temperate secondary forest
- ✚ **IGBP (land use):** Mixed forest
- ✚ **Affiliation:** Institute of Geochemistry, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Weijun Luo
- ✚ **E-mail:** lweijun@vip.gyig.ac.cn

14. Qianyanzhou

- ✚ **Location:** 26 °44' 29.1" N, 115 °03' 29.2" E
- ✚ **Ecosystem:** Plantation ecosystem
- ✚ **IGBP (land use):** Evergreen broadleaf forest
- ✚ **Affiliation:** Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Huimin Wang
- ✚ **E-mail:** wanghm@igsnrr.ac.cn





15. Qinling

- ✚ **Location:** 33 °27' 42" N, 108 °28' 54" E
- ✚ **Altitude:** 2150 m.a.s.l
- ✚ **Ecosystem:** Picea forest ecosystem in temperate region
- ✚ **IGBP (land use):** Mixed forest
- ✚ **Affiliation:** NorthWest Agriculture and Forestry University
- ✚ **Principle Investigator:** Shuoxin Zhang
- ✚ **E-mail:** sxzhang@nwsuaf.edu.cn

16. Tianmuhu

- ✚ **Location:** 31 °10' 58" N, 119 °24' 56" E
- ✚ **Altitude:** 199 m.a.s.l
- ✚ **Ecosystem:** The moso bamboo forest ecosystem in humid region
- ✚ **IGBP (land use):** Evergreen Needleleaf Forest
- ✚ **Affiliation:** Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Hengpeng Li
- ✚ **E-mail:** hppli@niglas.ac.cn



17. Xishuangbanna

- ✚ **Location:** (a) 21 °55' 39" N, 101 °15' 55" E
(b) 21 °36' 42"-58" N, 101 °34' 26"-47" E
(c) 21 °56' 00" N, 101 °15' 00" E
- ✚ **Altitude:** (a) 750 m.a.s.l
(b) 750 m.a.s.l
(c) 580 m.a.s.l
- ✚ **Ecosystem:** (a) Rainforest
(b) Rainforest
(c) Rubber Plantation
- ✚ **IGBP (land use):** Evergreen Broadleaf Forest
- ✚ **Affiliation:** Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Yiping Zhang
- ✚ **E-mail:** yipingzh@xtbg.ac.cn



© Xishuangbanna site

18. Yixian

- ✚ **Location:** 39 °20' 54" N, 115 °29' 29" E
- ✚ **Altitude:** 85 m.a.s.l.
- ✚ **Ecosystem:** Plantation
- ✚ **IGBP (land use):** Mixed Forest
- ✚ **Affiliation:** Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Xingguo Mo
- ✚ **E-mail:** moxg@igsnr.ac.cn



19. Yuanjiang

- ✚ **Location:** 23 °28' 40" N, 102 °10' 56" E
- ✚ **Altitude:** 481 m.a.s.l.
- ✚ **Ecosystem:** Savannas
- ✚ **IGBP (land use):** Woody Savannas
- ✚ **Affiliation:** Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Qinghai Song
- ✚ **E-mail:** sqh@xtbg.ac.cn





Grassland Sites

1. Arou

- ✚ **Location:** 38 °02' 50.3" N, 100 °27' 51.6" E
- ✚ **Ecosystem:** Alpine grassland
- ✚ **IGBP (land use):** Grasslands
- ✚ **Affiliation:** Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Mingguo Ma
- ✚ **E-mail:** mmg@lzb.ac.cn



© Arou site

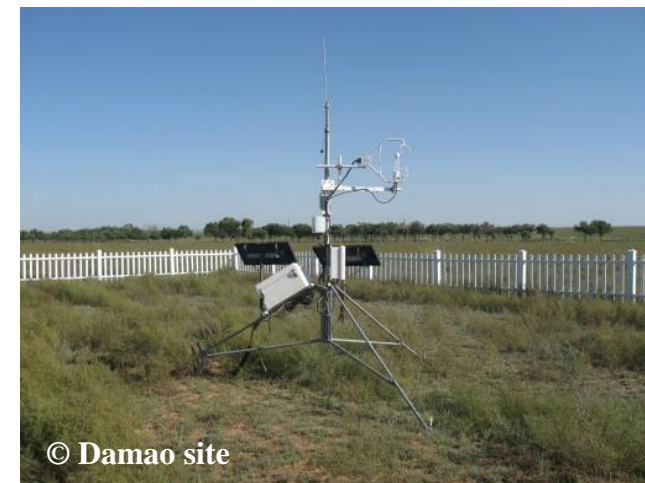


2. Ansai

- ✚ **Location:** 36 °51' 30" N, 109 °19' 23" E
- ✚ **Altitude:** 1260 m.a.s.l
- ✚ **Ecosystem:** Temperate brush grass ecosystem on the Loess Plateau
- ✚ **IGBP (land use):** Grasslands
- ✚ **Affiliation:** Institute of Soil and Water Conservation, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Yunming Chen
- ✚ **E-mail:** ymchen@ms.iswc.ac.cn

3. Damao

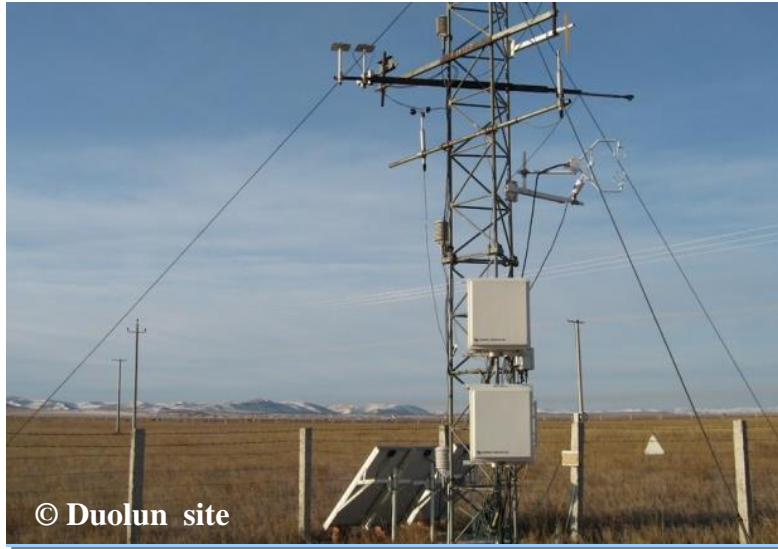
- ✚ **Location:** 41 °38' 38.2" N, 110 °19' 42.2" E
- ✚ **Ecosystem:** Temperate grassland ecosystem
- ✚ **IGBP (land use):** Grasslands
- ✚ **Affiliation:** Chinese Academy of Meteorological Sciences
- ✚ **Principle Investigator:** Guangsheng Zhou
- ✚ **E-mail:** gszhou@ibcas.ac.cn



4. Damxung

- ✚ **Location:** 30 °29' 50.21" N, 91 °03' 58.90" E
- ✚ **Altitude:** 295.7 m.a.s.l
- ✚ **Ecosystem:** Temperate Alpine grassland
- ✚ **IGBP (land use):** Grasslands
- ✚ **Affiliation:** Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Peili Shi
- ✚ **E-mail:** shipl@igsnrr.ac.cn





5. Duolun

- ✚ **Location:** 42 °02' 48" N, 116 °17' 01" E
- ✚ **Altitude:** 1324 m.a.s.l
- ✚ **Ecosystem:** Temperate grassland
- ✚ **IGBP (land use):** Grasslands
- ✚ **Affiliation:** Institute of Botany, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Shiping Chen
- ✚ **E-mail:** spchen@ibcas.ac.cn

6. Hulun Buir

- ✚ **Location:** 49 °19' 21" N, 119 °55' 58" E
- ✚ **Altitude:** 628 m.a.s.l
- ✚ **Ecosystem:** Temperate grassland
- ✚ **IGBP (land use):** Grasslands
- ✚ **Affiliation:** Institute of Agricultural Resources and Regional Planning, Chinese Agricultural Academy of Sciences
- ✚ **Principle Investigator:** Xiaoping Xin
- ✚ **E-mail:** xinxp@sina.com



7. Haibei

- ✚ **Location:** (a) 37 °36.8' N, 101 °18.8' E
(b) 37 °39.9' N, 101 °19.9' E
(c) 37 °36.5' N, 101 °19.6' E
- ✚ **Altitude:** (a) 3216 m.a.s.l
(b) 3358 m.a.s.l
(c) 3357 m.a.s.l
- ✚ **Ecosystem:** (a) Alpine shrubland
(b) Alpine meadow
(c) Alpine swamp
- ✚ **IGBP (land use):** (a) Closed Shrublands
(b) Grasslands
(c) Permanent Wetlands
- ✚ **Affiliation:** Northwest Institute of Plateau Biology, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Yingnian Li
- ✚ **E-mail:** ynli@nwipb.ac.cn





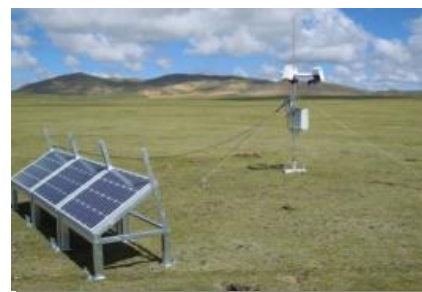
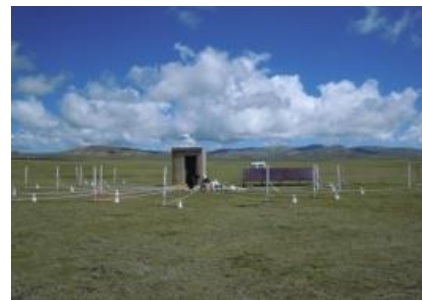
© Inner Mongolia site

8. Inner Mongolia

- ✚ **Location:** 43 °32' N, 116 °40' E
- ✚ **Altitude:** 1200 m.a.s.l
- ✚ **Ecosystem:** Temperate grassland
- ✚ **IGBP (land use):** Grasslands
- ✚ **Affiliation:** University of Chinese Academy of Sciences
- ✚ **Principle Investigator:** Yanfen Wang
- ✚ **E-mail:** yfwang@gucas.ac.cn

9. Naqu

- ✚ **Location:** 31 °38.51' N, 92 °0.92' E
- ✚ **Altitude:** 4585 m.a.s.l
- ✚ **Ecosystem:** Alpine meadow
- ✚ **IGBP (land use):** Grasslands
- ✚ **Affiliation:** Institute of Geographic Sciences and Natural Resources
Research, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Yangjian Zhang
- ✚ **E-mail:** zhangyj@igsnr.ac.cn



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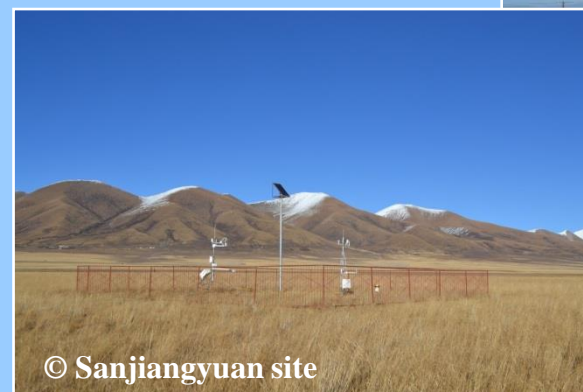
10. Siziwangqi

- 📍 **Location:** 41 °46' 41" N, 111 °53' 50" E
- 📍 **Altitude:** 1438 m.a.s.l.
- 📍 **Ecosystem:** Temperate desert steppe
- 📍 **IGBP (land use):** Grasslands
- 📍 **Affiliation:** Institute of Botany, Chinese Academy of Sciences
- 📍 **Principle Investigator:** Shiping Chen
- 📍 **E-mail:** spchen@ibcas.ac.cn



11. Sanjiangyuan

- 📍 **Location:** (a) 34 °21'-34 °22' N, 100 °29'-100 °30' E
(b) 35 °09' N, 100 °39' E
- 📍 **Ecosystem:** (a) Fenced alpine meadow
(b) Grazed alpine meadow
- 📍 **IGBP (land use):** Grasslands
- 📍 **Affiliation:** Northwest Institute of Plateau Biology, Chinese Academy of Sciences
- 📍 **Principle Investigator:** Liang Zhao
- 📍 **E-mail:** lzhao@nwipb.ac.cn



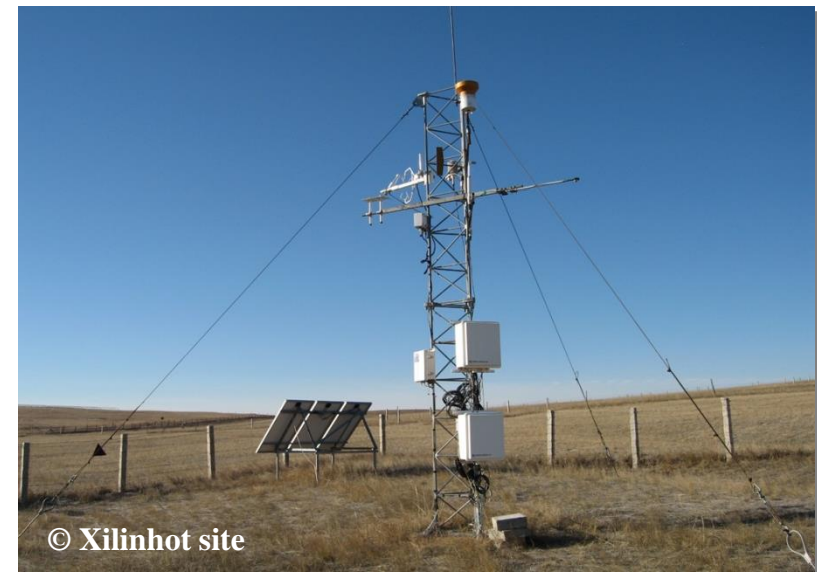
12. Songnen

- ✚ **Location:** 44 °35' N, 123 °30' E
- ✚ **Altitude:** 171 m.a.s.l.
- ✚ **Ecosystem:** Temperate steppe grassland
- ✚ **IGBP (land use):** Grasslands
- ✚ **Affiliation:** Northeast Normal University
- ✚ **Principle Investigator:** Jixun Guo
- ✚ **E-mail:** gjixun@nenu.edu.cn



13. Xilinhot

- ✚ **Location:** 43 °33' 16" N, 116 °40' 17" E
- ✚ **Altitude:** 1250 m.a.s.l.
- ✚ **Ecosystem:** Temperate semi-arid steppe grassland
- ✚ **IGBP (land use):** Grasslands
- ✚ **Affiliation:** Institute of Botany, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Shiping Chen
- ✚ **E-mail:** spchen@ibcas.ac.cn





Wetland Sites

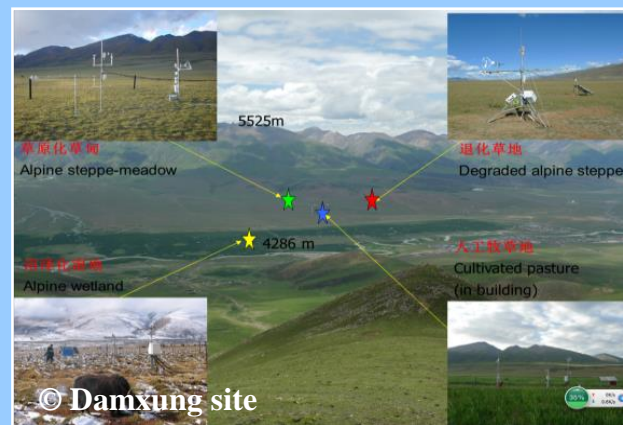
1. Zoige

- ✚ **Location:** 33 °06' 15.4" N, 102 °39' 05.3" E
- ✚ **Ecosystem:** Alpine meadow and peatland
- ✚ **IGBP (land use):** Permanent Wetlands
- ✚ **Affiliation:** Chengdu Institute of Biology,
Chinese Academy of Sciences
- ✚ **Principle Investigator:** Huai Chen
- ✚ **E-mail:** chenhuai@cib.ac.cn



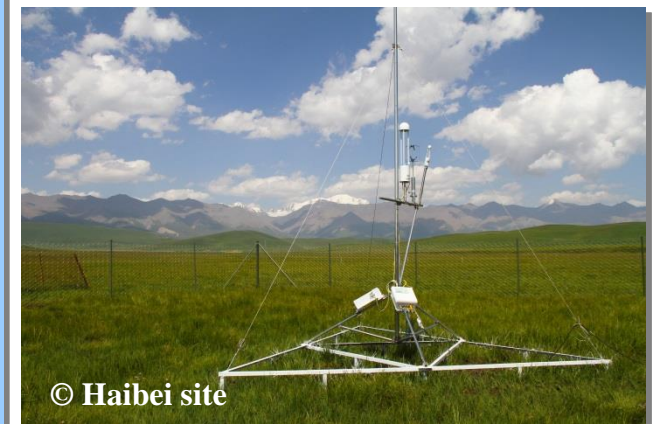
2. Damxung

- ✚ **Location:** 30 °28' 08.5" N, 91 °03' 44.5" E
- ✚ **Altitude:** 4286 m.a.s.l
- ✚ **Ecosystem:** Marshy wetland
- ✚ **IGBP (land use):** Permanent Wetlands
- ✚ **Affiliation:** Institute of Geographic
Sciences and Natural Resources Research,
Chinese Academy of Sciences
- ✚ **Principle Investigator:** Peili Shi
- ✚ **E-mail:** shipl@igsnrr.ac.cn



3. Haibei

- ✚ **Location:** 37° 36' 35.67" N, 101° 19' 20.53" E
- ✚ **Altitude:** 3202 m.a.s.l
- ✚ **Ecosystem:** Marshy wetland
- ✚ **IGBP (land use):** Permanent Wetlands
- ✚ **Affiliation:** Peking University
- ✚ **Principle Investigator:** Jinsheng He
- ✚ **E-mail:** jshe@pku.edu.cn





4. Panjin

- ✚ **Location:** (a) 40 °56' 28.8" N, 121 °57' 37.9" E
(b) 40 °55' 57.8" N, 121 °57' 52.5" E
- ✚ **Altitude:** (a) 2.5 m.a.s.l, (b) 3 m.a.s.l
- ✚ **Ecosystem:** Temperate reed and rice
- ✚ **IGBP (land use):** Permanent Wetlands
- ✚ **Affiliation:** Chinese Academy of Meteorological Sciences
- ✚ **Principle Investigator:** Guangsheng Zhou
- ✚ **E-mail:** gszhou@ibcas.ac.cn



5. Chongming Island

- ✚ **Location:** (a) 31 °31' 00.00" N, 121 °57' 38.58" E
(b) 31 °35' 04.74" N, 121 °54' 12.42" E
(c) 31 °31' 00.48" N, 121 °58' 18.00" E
- ✚ **Ecosystem:** Salt marsh
- ✚ **IGBP (land use):** Permanent Wetlands
- ✚ **Affiliation:** Fudan University
- ✚ **Principle Investigator:** Bin Zhao
- ✚ **E-mail:** zhaobin@fudan.edu.cn

6. Dongting Lake

- ✚ **Location:** 29°29' 15.94" N, 113°03' 08.06" E
- ✚ **Altitude:** 29 m.a.s.l
- ✚ **Ecosystem:** Subtropical river-connected lake wetland
- ✚ **IGBP (land use):** Permanent Wetlands
- ✚ **Affiliation:** Institute of Subtropical Agriculture, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Zhengmiao Deng
- ✚ **E-mail:** dengzm@isa.ac.cn



7. Sanjiang

- ✚ **Location:** 47°35' 17" N, 133°29' 42" E
- ✚ **Altitude:** 55 m.a.s.l
- ✚ **Ecosystem:** Mire
- ✚ **IGBP (land use):** Permanent Wetlands
- ✚ **Affiliation:** Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Changchun Song
- ✚ **E-mail:** songcc@neigae.ac.cn



8. Gaoqiao

- ✚ **Location:** 21 °34' 03.05" N, 109 °45' 22.23" E
- ✚ **Altitude:** 4 m.a.s.l
- ✚ **Ecosystem:** Subtropical Mangrove
- ✚ **IGBP (land use):** Permanent Wetlands
- ✚ **Affiliation:** Tsinghua University.
- ✚ **Principle Investigator:** Guanghui Lin
- ✚ **E-mail:** lingh@tsinghua.edu.cn



9. Zhangjiangkou

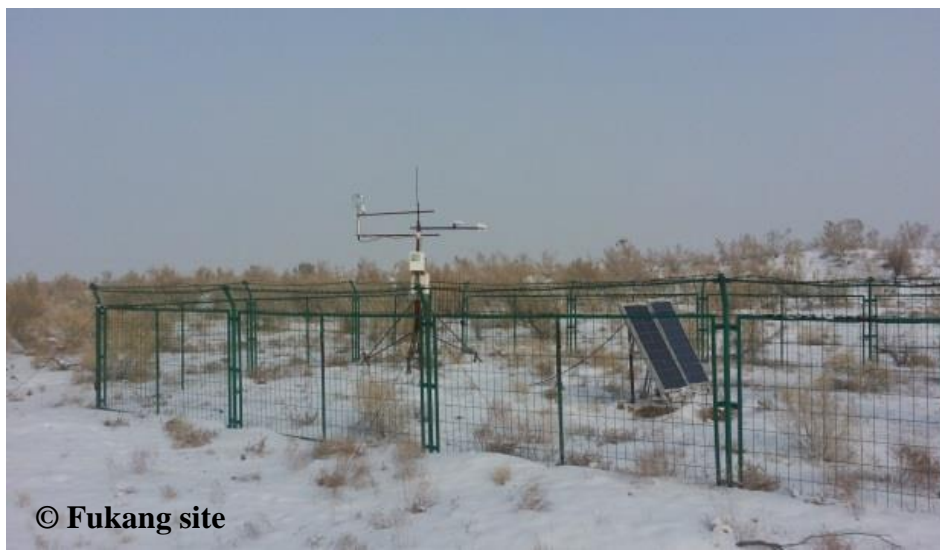
- ✚ **Location:** 23 °54' 23.2" N, 117 °24' 10.1" E
- ✚ **Altitude:** 4 m.a.s.l
- ✚ **Ecosystem:** Subtropical Mangrove
- ✚ **IGBP (land use):** Permanent Wetlands
- ✚ **Affiliation:** Tsinghua University.
- ✚ **Principle Investigator:** Guanghui Lin
- ✚ **E-mail:** lingh@tsinghua.edu.cn



Desert sites

1. Fukang

- ✚ **Location:** 44 °12'- 44° 21' N, 87 °50'- 87° 54' E
- ✚ **Altitude:** 435 m.a.s.l
- ✚ **Ecosystem:** Temperate desert
- ✚ **IGBP (land use):** Barren or Sparsely Vegetated
- ✚ **Affiliation:** : Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Yan Li
- ✚ **E-mail:** liyan@ms.xjb.ac.cn



2. Shapotou

- ✚ **Location:** 37 °29' 04" N, 104 °25' 33" E
- ✚ **Altitude:** 1665 m.a.s.l
- ✚ **Ecosystem:** Temperate desert
- ✚ **IGBP (land use):** Barren or Sparsely Vegetated
- ✚ **Affiliation:** Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
- ✚ **Principle Investigator:** Xinrong Li
- ✚ **E-mail:** lxinrong@ns.lzb.ac.cn

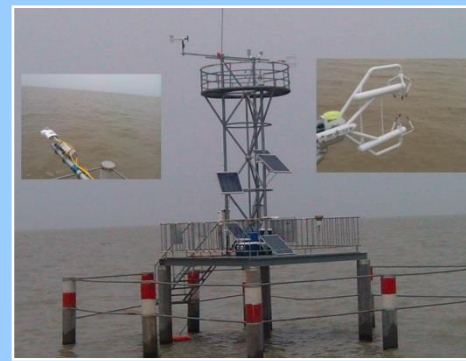
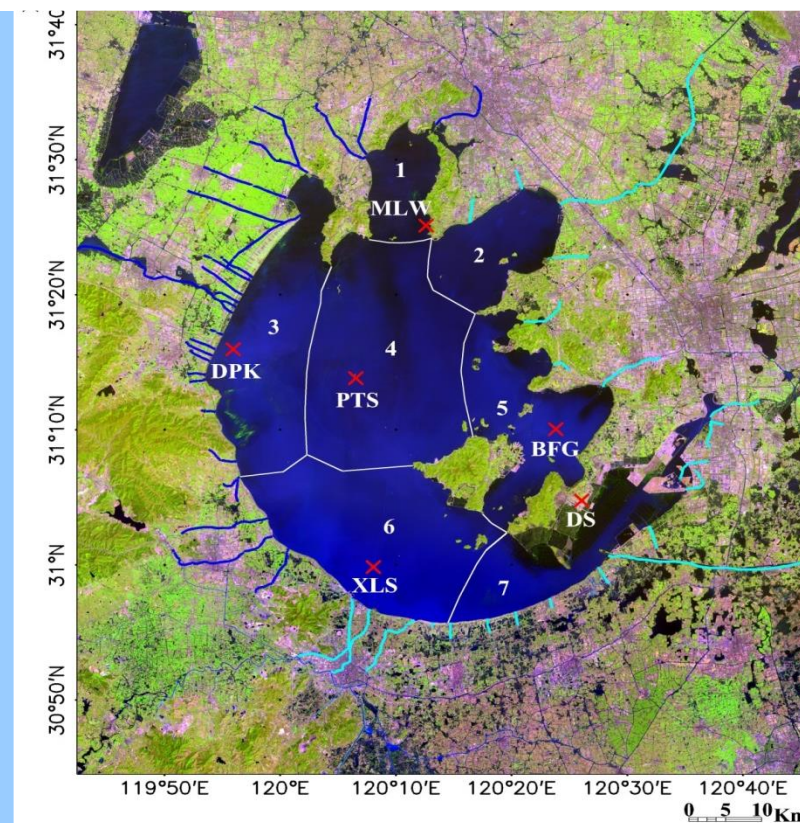
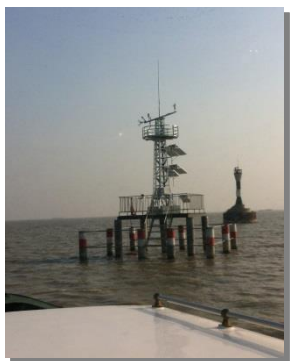




Water-body sites

1. Tai Lake sub-network

- ✚ **Location:** (a) 31 °10' 06" N, 120 °32' 50" E
 (b) 30 °59' 50" N, 120 °08' 36" E
 (c) 31 °15' 58" N, 119 °55' 52" E
 (e) 31 °25' 11" N, 120 °12' 50" E
 (f) 31 °14' 56" N, 120 °06' 30" E
- ✚ **Affiliation:** Nanjing University of Information Science and Technology
- ✚ **Ecosystem:** Temperate aquatic ecosystem
- ✚ **IGBP(land use):** Water Bodies
- ✚ **Principle Investigator:** Shoudong Liu
- ✚ **E-mail:** lsd@nuist.edu.cn

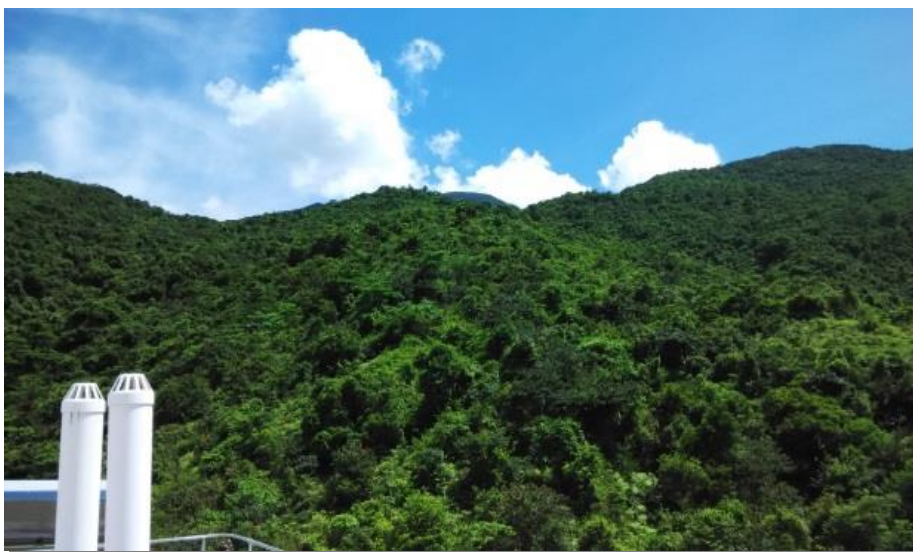


An aerial photograph of a large urban park, likely Xiang Lake Park in Shenzhen. The park is filled with dense green trees and a winding river. In the background, a dense city skyline is visible, featuring several tall skyscrapers, including the prominent Ping An Finance Center. The sky is overcast with grey clouds. A semi-transparent olive-green banner is overlaid across the middle of the image, containing the text 'Urban sites'.

Urban sites

1. Shenzhen

- 📍 **Location:** 22 °32' 17.11" N, 114 °35' 25.61" E
- 📍 **Altitude:** 35 m.a.s.l
- 📍 **Vegetation:** urban ecosystem
- 📍 **IGBP (land use):** Urban
- 📍 **Affiliation:** Shenzhen Environmental Monitoring Center
- 📍 **Principle Investigator:** Weimin Wang
- 📍 **E-mail:** towmwang@163.com



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Chinese Flux Observation and Research Network

Principals of ChinaFlux

Contact person: Guirui Yu

Institute of Geographic Sciences and Natural Resources Research
of Chinese Academy of Sciences

Add: 11A Datun Road, Chaoyang District, Beijing 100101, China

Tel: 86+ 10 64889432

E-mail: yugr@igsnrr.ac.cn

Secretariat of ChinaFlux

Contact persons: Leiming Zhang, Qiufeng Wang, Yajuan Xu

Institute of Geographic Sciences and Natural Resources Research
of Chinese Academy of Sciences

Add: 11A Datun Road, Chaoyang District, Beijing 100101, China

Tel: 86+ 10 64889272, 64889808

E-mail: chinaflux@cern.ac.cn

URL: <http://www.chinaflux.org/enn/index.aspx>