Coastal Ocean Carbon Cycling

–an international workshop and review on the implementation plan of CHOICE-C

March 6 – 8, 2009
Xiamen, China

中国·厦门

First Announcement

Sponsors:

China National Basic Research Program (“973” Program) “Carbon cycling in China Seas - budget, controls and ocean acidification”

Earth Science Division, National Natural Science Foundation of China

State Key Laboratory of Marine Environmental Science (MEL), Xiamen University

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Background and Objectives

The open ocean, coastal ocean and terrestrial ecosystem are three major components modulating atmospheric CO_2 and thereby the earth climate system. The complexity of the carbon cycling in the coastal ocean under the impact of both the land input and dynamic exchanges with the open ocean make it a huge challenge to be included in any realistic prognostic climate simulations. The marginal seas adjacent to China, such as South China Sea and East China Sea span a wide range of latitudinal zones with diverse and distinct ecosystem structures. Added in more complexity is the land input from the major world rivers, such as Changjiang (Yangtze River) and Zhujiang (Pearl River) from the mainland continent. As such, carbon cycling in China Seas exerts significance both at regional and global scales.

The project "Carbon cycling in China Seas - budget, controls and ocean acidification" （CHOICE-C at http://973oceancarbon.xmu.edu.cn/） was funded through China National Basic Research Program ("973" Program) sponsored by the Ministry of Science and Technology with a budget of ~18 million RMB for the year 2009-2010. CHOICE-C focuses on the carbon budget, controls, ecological response and future changes in coastal ocean systems. The focal area includes, but not limited to the continental shelves in both the South and East China Seas. Through an integrated study of the carbon cycling between field observation, remote sensing as well as numerical modeling in China seas with a contrast/comparison strategy, CHOICE-C aims to determine the source and sink terms of atmospheric CO_2 and their associated controlling processes. What follows concentrates on the ecological response of the uptake of anthropogenic CO_2, primarily on the ocean acidification during the past 1-2 hundred years.

In order to better implement CHOICE-C, a Scientific Advisory Committee (SAC) was formed, which consists of 17 renowned scientists in the field. The primary objectives of this workshop are to seek advises on the preliminary implementation plan of CHOICE-C from the SAC members and to review the current knowledge on carbon cycling in marginal seas.

Tentative Agenda

Part I: International workshop (~1.5 days):

- Session 1: Air-sea CO2 fluxes in coastal ocean – in situ measurements and remote sensing
- Session 2: Biological pump and coastal carbon cycling – from land input, primary production, community structure, and export production and carbon burial
- Session 3: Ocean acidification – from paleorecord to ecological effect
- Session 4: Climate change, coastal dynamics and carbon transport and modeling

Part II: Review and Suggestions (~1.5 days):

- Session 1: "Model" programs –from planning, management to implementation
- Session 2: Preliminary implementation plan
- Session 3: Breakout – task teams discussion with SAC members
- Session 4: Synthesis planning
- Session 5: Panel recommendation

Workshop Details

The workshop will be held on campus of Xiamen University at the State Key Laboratory of Marine Environmental Science (MEL), Xiamen, China.
The workshop will have both oral presentation session and in-depth discussion session. Computer and e-mail facilities will be available at MEL. Presentations are preferred as computer (Microsoft PowerPoint) format. Please send off the titles and abstracts of the presentations at least two weeks prior to the workshop.

Scientific Advisory Committee

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Workshop Conveners

Minhan Dai	Xiamen University
Delu Pan	Second Institute of Oceanology, SOA
Jianping Gan	Hong Kong University of Science and Technology

Kunshan Gao Xiamen University

Accommodation

Rooms will be secured at **Yifu Hotel** from March 5 to 9, on campus of Xiamen University with ~10 minutes walking distance to MEL.

Contact details

Correspondence will be preferably handled by email

Secretariat:

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Local Information

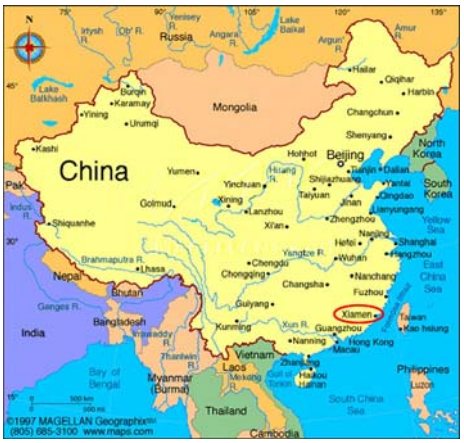
About Xiamen

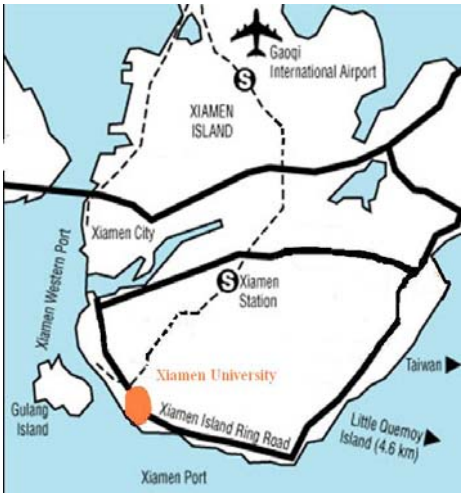
Xiamen Island is located on the southeast coastland of China, which is well known as the “Garden on the Sea “with its unique local culture and beautiful scenery, excellent weather all year round.

Xiamen is a port city and a transportation hub, easily accessible by air, sea or land. The Gaoqi International Airport (XMN) is on the north-eastern tip of the island, 25 km away from Xiamen

Workshop Venue

The workshop will take place in the “Zeng Cheng Kui Building” of Xiamen University. Xiamen University is an 85-year-old university located in the picturesque setting between the sea and a scenic mountain, with the campus over 150 hectares and all buildings and facilities within walking distance.





Map of Xiamen

Zeng Cheng Kui Building

Jiannan Building

Yanwu Bridge

Tour around Xiamen

Gulangyu Islet

Gulangyu Island, located to the southwest of Xiamen, is only about a five-minute journey by local ferry. The name of the island means 'above-the-sea garden' because of its variety of pretty flowers, the best of which can be viewed in the Shuzhuang Garden.

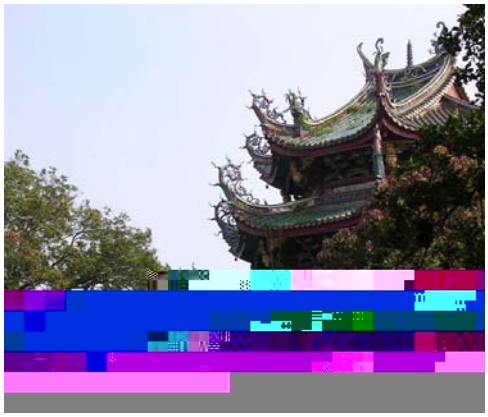
The highest point on the island, the Sunlight Rock, is also the symbol of Xiamen city. Just as the saying 'one who has not visited the Great Wall is not a true hero'; those who have not visited the Sunlight Rock cannot claim to have truly seen Xiamen.

Gulangyu Island is also named “Island of Piano” after the well known piano museum with various pianos of different periods from all over the world. Possibly due to the beautiful scenery here, people living on the island have a strong liking for music, boasting the highest piano ownership rates in China.

Gulangyu Island, also “World Architecture Museum”, is by far the best sight of this beautiful town, with its variety of colonial buildings, pleasant winding streets and musical locals. There are so many charming features, from the profusion of ancient trees, all labeled, to the variety of seafood restaurants.

The Underwater World of the Islet has a variety of marine life exhibits worth visiting.

Nanputuo Temple



Nanputuo Temple is known as “the Ancient Temple of One Thousand Years”. It was built in Tang Dynasty (618-907) and is one of the famous ancient temples in Minnan (South Fujian Province).

Tianwang Palace, Daxiong Palace, Dabei Palace, Cangjing Palace, the side rooms, the bell and the drum buildings form a group of buildings which look magnificent of Buddhist feature, showing the dignity of Buddhist laws. Tourists and local Buddhists often come here to pray, and this makes this Temple active and widely known.

You can also taste the unique and well-known vegetarian food of Nanputuo Temple.

On one side of Nanputuo Temple is situated the Minnan Buddhist College which was set up in 1925, and is a place to publicize the Buddhist scripture and educate Buddhist followers.

Jimei School Town and Turtle Garden

Visa Application:

Visitors to China, without exception, must have a passport valid for at least six months and most nationalities need an entry visa. Early application is highly recommended. In some countries, the visa approval process is rather complicated, and can take up to three months. Please contact your embassy as soon as possible. Participants should apply for visas from their nearest Embassy or Consulate of the People's Republic of China, prior to departure for China. List of Chinese Embassies or Consulates: http://www.fmprc.gov.cn/eng/wjb/zwjg/default.htm
The participants can visit China in two ways: short time traveling visa and scholar visa depending on the countries.

Traveling visa:

An invitation letter issued by the State Key Laboratory of Marine Environmental Science (MEL), Xiamen University is the formal invitation letter.

Scholar visa:

It takes about 1 month to obtain a complete visa notification form from the local municipal government. We strongly recommend you to give us the complete visa application information before January 25 via email if you need a invitation letter issued by our government. The information should includes: your name on passport, issuing place and expiration date of the passport, date and place of birth, title, the intended date of entry and stay period, the nearest Chinese consulate to your residence, your brief CV. Accompanying persons may also require a visa. For any questions or concerns on the visa application process, please contact Anglea Liu at huiliu@xmu.edu.cn.

Air routing:

There are a few direct flights from foreign countries to Xiamen http://www.xiagc.com.cn/enweb/index.asp. The most convenient connecting cities are Beijing (PEK), Hong-Kong (HKG), Shanghai (PVG), Banghok (BKK), Seoul (SEL), Singapore (SIN) or Tokyo (NRY). We could book the domestic tickets for you as your convenience.

Xiamen Gaoqi International Airport (XMN):

- The airport has direct air links with 75 cities, 58 of which are domestic and the rest international.
- The airport is located on the northeastern tip of Xiamen Island and 20 km from Xiamen University.

More information is available at: http://www.xiagc.com.cn/enweb/index.asp

Airport Pick up:

Please send us your itinerary if the tickets are booked by yourself. A pick-up vehicle will be arranged upon your arrival at the Xiamen Airport.