

The 2nd International Symposium on Triassic and later Marine Vertebrate Faunas

Workshop of Major International Joint Research Project 40920124002, National
Science Foundation of China

10-15, September 2013

Xingyi, Guizhou, China

FIRST CIRCULAR



Administration of Xingyi Geological Park, Xingyi, Guizhou, China
School of Earth and Space Sciences, Peking University, Beijing 100871, China



Dear colleagues,

The 1st International Symposium on Triassic and later Marine Vertebrate Faunas, was held in Beijing from Aug. 28 through Aug. 29, 2010. It was successfully, organized by the Geological Museum of Peking University and greatly supported by the Guizhou Provincial Department of Land & Resources, local governments of Guizhou Province, NSFC, Palaeontological Society of China, and Chengdu Center of Geological Survey of China. The post-symposium field trips and forum on “Protection on the Vertebrate Faunas and Development of Geoparks” was held in Guanling, Xingyi and Panxian of Guizhou, Luoping of Yunnan and Chaohu of Anhui from Aug. 30 through Sep. 9, 2010. Numerous colleagues from Europe, North America and South America working on Mesozoic marine vertebrates attended the symposium and field trip. We all enjoyed this new platform where we could exchange our new knowledge and experience on Mesozoic marine vertebrates, especially with the abundant new fossils that are being collected in southern China. We hope to keep this platform going, and to organize future symposia at Monte San Gorgio (MSG, Switzerland), Chaohu and other famous fossil localities. The President of the MSG Swiss Foundation expressed his intention to sponsor the 2nd symposium to be held at Monte San Giorgio in 2012 when he addressed at the 1st symposium in Beijing, but probably because of management problems in the MSG Swiss Foundation, we have to move the 2nd symposium to Xingyi and to September of 2013.

The international team organized by Da-yong JIANG (GMPKU), Ryosuke Motani (UCDAVIS), Andrea Tintori (UNIMI) and Olivier Rieppel (FMNH), has been leading large excavations at the fossil sites of Xingyi (latest Ladinian?), Panxian (Anisian of Middle Triassic) and Chaohu (Spathian of Olenekian of Early Triassic), while other research groups outside and inside of China, such as the IVPP, the Chengdu and Wuhan Geological Surveys, also achieved great results in related research. Abundant and diversified new Triassic marine vertebrates and invertebrates have been found and have been described, and the stratigraphic sections of the Ladinian/Carnian boundary beds at Xingyi and of the Smithian/Spathian boundary beds followed by the Spathian sequence at Chaohu were cleaned to be well exposed and mapped by the GMPKU group. In the recent two years following the 1st symposium, the excavation at Xingyi supported by the Administration of Xingyi Geological Park proved especially successful and a great progress, with new large ichthyosaurs and other reptile skeletons, new fishes, new ammonites and bivalves having been collected. Large exposures of fossiliferous layers more than 1000 square meters, continuing the boundary bed of Ladinian/Carnian in the 70 m thick sequence that can be correlated to the GSSP of the Ladinian/Carnian published recently, are attracting more and more attention of numerous paleontologists

internationally. At the same time, plenty of new research achievements have been reported on the Triassic marine vertebrate faunas. We feel, it is both necessary and the appropriate time to have a symposium at Xingyi, to keep our platform and exchange of the new recent discoveries concerning the diversity, evolution and the stratigraphy of Triassic marine vertebrates, and the correlation of Ladinian/Carnian boundary with GSSP. A post-symposium field trip will be organized to visit the excavation sites of Panxian Fauna, Luoping Fauna, Xingyi Fauna, and Guanling Fauna, focusing on the fossil layer exposures, stratigraphic sequences of the fossiliferous levels, and the boundary bed sequence of Ladinian/Carnian and sequence of Anisian.

1. Time and founding sources

The symposium will be held around Sep.10, 2012 and it will include the oral presentations and post-symposium field trips. The symposium will last for about 6 days including 2 days for the scientific sessions and 4 days of field trips.

The oral presentations will be held in the lecture hall of the conference hotel (which is not determined yet); a lecture hall equipped with multi-media, and a minimum occupation of 50 persons, is needed for the symposium.

The post-symposium field trips include: visits to the sites of Xingyi, Panxian, Guanling and Luoping faunas, each one for a single day, staying overnight in the same conference hotel in Xingyi.

2. Organization and topics of the 2nd international symposium

(1) Main topic

The topic of the “2nd International Symposium on Triassic and later Marine Vertebrate” Xingyi, 2013, which is also the symposium of the international cooperation project of National Science Foundation of China (40920124002): starting from Xingyi Fauna, discuss the evolution, paleogeography, paleoenvironment and paleoecology of the Triassic marine vertebrate faunas of South China and their response to the recovery of the Triassic biosphere. Based on the recent progress on the related research, discuss the development of international cooperation, popular science education and personnel training.

(2) Sponsors

Administration of Xingyi Geological Park

School of Earth and Space Sciences, Peking University

(3) Co-sponsors

Paleontological Society of China

Subcommission on Triassic Stratigraphy, ICS

National Natural Science Foundation of China

Xingyi Government of Guizhou Province

Bureau of Land and Resources of Xingyi

(4) Organization committee of the 2nd international symposium

① Chairs: Guangwan DIAO (Administration of Xingyi Geological Park)
Yuan-lin SUN (Peking University)

② Executive Chairs: Da-yong JIANG (Peking University)
Lin CHEN (Administration of Xingyi Geological Park)

③ Members:

BALINI Marco (Milano University, Italy)

CHEN Xiao-hong (Wuhan Centre of Chinese Geological Survey)

HAO Wei-cheng (Peking University)

HU Shi-xue (Chengdu Centre of Chinese Geological Survey)

LI Chun (Institute of Vertebrate Paleontology and Paleoanthropology, CAS)

LIU Jianbo (Peking University)

LIU Jun (Institute of Vertebrate Paleontology and Paleoanthropology, CAS)

LUO Yongming (Bureau of Geology and Mineral Exploration and Development of
Guizhou Province)

MOTANI Ryosuke (University of California, Davis, USA)

RIEPPPEL Olivier (The Field Museum, Chicago, USA)

SHANG Qing-hua (Institute of Vertebrate Paleontology and Paleoanthropology, CAS)

TINTORI Andrea (Milano University, Italy)

TONG Jinnan (China University of Geosciences, Wuhan)

WANG Liting (Bureau of Geology and Mineral Exploration and Development of
Guizhou Province)

WANG Yangeng (Bureau of Geology and Mineral Exploration and Development of
Guizhou Province)

WU Xiao-chun (Canadian Museum of Nature, Ottawa, Canada)

YAO Jianxin (Institute of Geology Chinese Academy of Geological Sciences)

YANG Qun (Nanjing Institute of Geology and Palaeontology, CAS)

YE Chang-wu (Administration of Xingyi Geological Park)

ZHANG Lifei (Peking University)

ZHANG Qiyue (Chengdu Centre of Chinese Geological Survey)

③Secretary-General: Changwu YE, Zuoyu SUN

(5) Academic sessions

The symposium will include platform presentations, poster presentations and free talks on research of Triassic marine vertebrates and stratigraphy. Leading authorities will be invited to be the conveners (chairs) for the following academic sessions:

1. “The diversity, stratigraphy, paleoenvironmental background of Xingyi Fauna

and other Triassic marine vertebrate faunas and its comparison globally”.

Conveners: Ryosuke Motani, Dayong JIANG

2. “Recognition and correlation of the boundary between Ladinian and Carnian ”.

Conveners: Marco Balini, Yuanlin SUN

3. “The evolution and paleogeography of Triassic fishes”.

Conveners: Andrea Tintori, Zuoyu SUN

4. “The evolution and paleogeography of the Triassic and later marine reptiles ”.

Conveners: Olivier Rieppel, Xiao-chun WU

(6) Date of 2nd international symposium

- September 10-15, 2013
- Registration on September 9, 2013

(7) Site of Academic sessions of Symposium

Xingyi City

(8) Post-symposium trips: Sep. 12 - Sep. 15, 2013

We are planning one post-symposium field trip, to visit the fossil sites, excavation exposures, stratigraphic sections and field museums in Guanling County, Xingyi City, Panxian County of Guizhou Province, Luoping County of Yunnan Province.

Sep.12: visit the **Xingyi National Geological Park**, the sequence of Zhuganpo Member of Falang Formation (late Ladinian, Middle Triassic), and the Nimaigu section where plenty of marine vertebrate and crinoid materials were discovered.

Xingyi Fauna—“hotspot” of international academic research, attracted much attention, abundant resources of post-symposium excursion

The first Triassic marine reptile fossil, *Keichousaurus hui* was found from Xingyi of Guizhou in 1957. Since then, especially from 1999, the abundant well-preserved marine vertebrates found from this fauna and other sites in South China (including Chaohu Fauna, Panxian-Luping Fauna and Guanling Biota) have attracted much attention internationally.

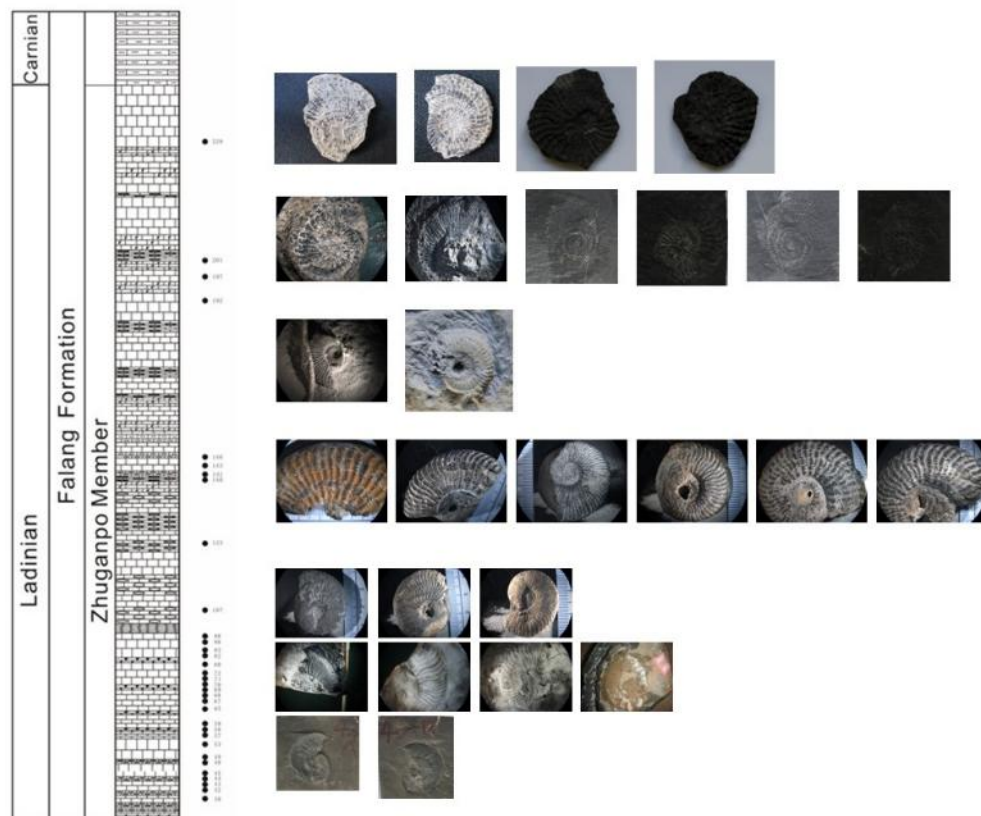
Xingyi is located at a convenient place with plenty of tourism resources nearby such as Malinghe Waterfall Group, Wanfenglin Geopark and Wanfenghu Lake. Besides its exceptional wonderful Triassic marine fossils and complete Triassic sequence, it is also not far from other Triassic marine vertebrate geological parks and fossil localities including Guanling National Geological Park, Wumengshan National Geological Park and the site of Luoping Fauna, Yunnan.



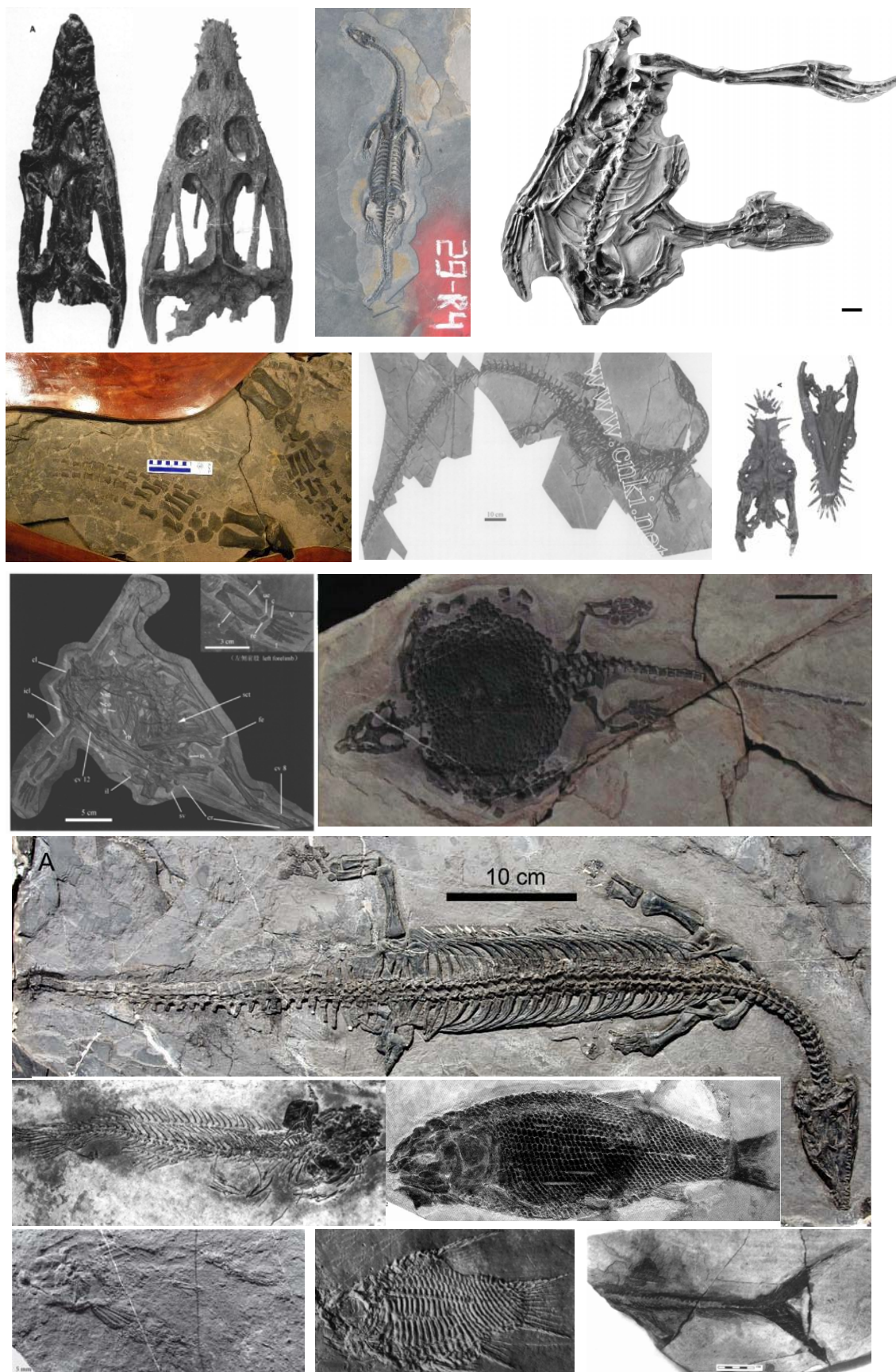
Section of Xingyi Fauna at Nimaigu Village, Xingyi City, Guizhou



Section of Xingyi Fauna at Nimaigu Village, Xingyi City, Guizhou



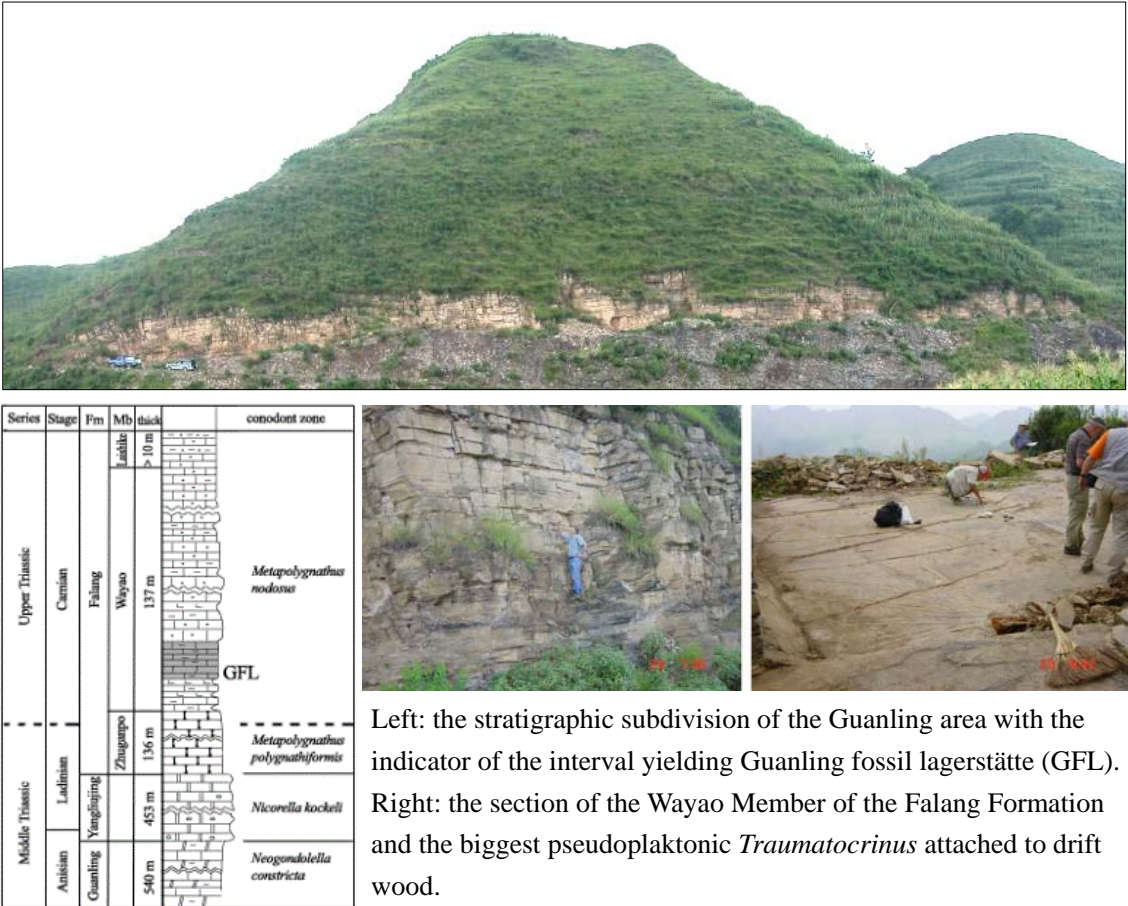
The occurrences of the ammonoid fossils from the marine reptile level until the top of the Zhuganpo Member of Falang Formation



The marine reptiles and fish reported from Xingyi Fauna. *Lariosaurus xingyiensis* Li et al., 2002. *Nothosaurus youngi* Li and Rieppel., 2004. *Keichousaurus hui* (upper). *Macrocnemus fuyuanensis* Li et al., 2007. *Dingxiaosaurus luyinensis* Liu et al., 2002. *Anshunsaurus wushaensis* Rieppel et al., 2006. *Yunguisaurus liae* Cheng et al., 2006. *Tanystropheus* sp. *Glyphoderma kang* Zhao et al., 2008. *Qianxisaurus chajiangensis* Cheng et al., 2012. *Guizhouamia bellula* Liu et al., 2002. *Guizhouniscus microlepidus* Liu, 2003. *Thoracopecterus wushaensis* Tintori et al., 2012. *Brachysomus minor* Liu, 2003. *Birgeria liui* Jin, 2001.

Sep.13: visit the **Guanling National Geopark**, the site of Wayao Member of Falang Formation (Carnian, Late Triassic), and the locality of vertebrate fossils.

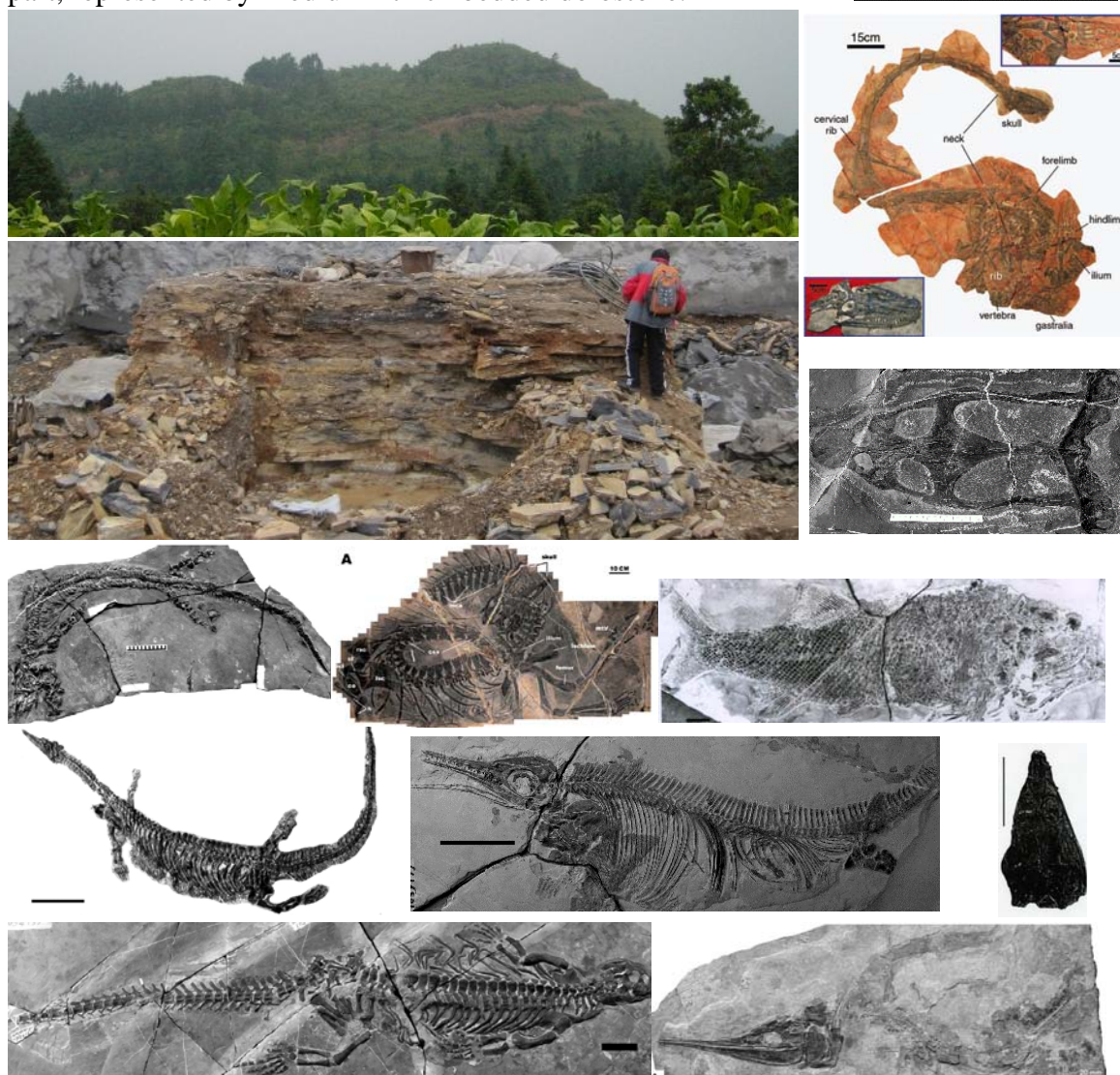
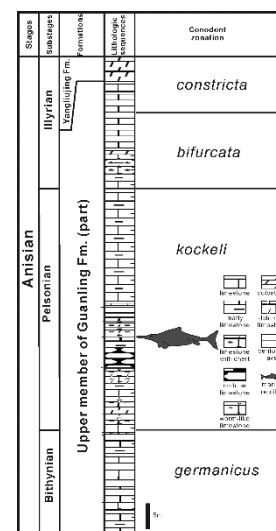
The trip will visit the typical Middle to Upper Triassic succession and a field museum in the National Geopark of Guanling Biota. In the museum, participants can see the fossils of the Guanling Lagerstätte in their original position on the black shale and mudstone bedding planes. Over there, participants will have the opportunity to enjoy the beautiful karst landscape of Huajiang Gorge, the so called “a crack of the earth”, on the Beipan River.



The marine reptiles reported from the Guanling Biota. Upper: *Qianichthyosaurus zhoui* (left), *Anshunsaurus huangguoshuensis* (right); lower: *Guizhouichthyosaurus tangae* (left), *Sinocyamodus xinpuensis* (middle), *Odontochelys semitestacea* (right).

Sep.14: visit the **Wumengshan National Geopark** (Xinmin, Panxian County), the site of Guanling Formation (Pelsonian, Anisian, Middle Triassic) in Panxian County, and the excavation section of Panxian Fauna.

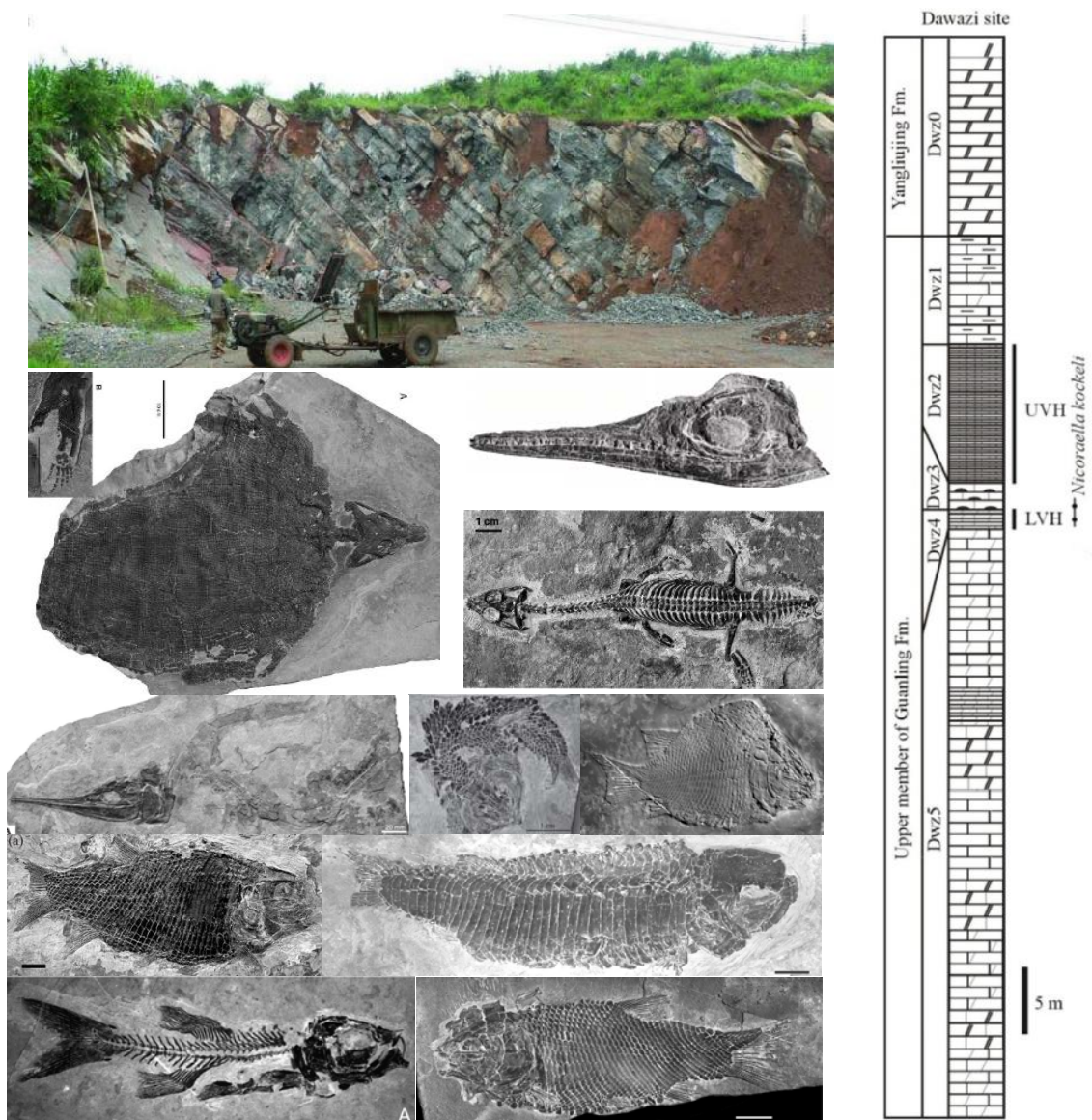
Triassic sequence at Yangjuan consists of the Lower Triassic Yongningzhen Formation, Middle Triassic Guanling Formation and Yangliujing Formation (basal part). The Guanling Formation will be the focus of this excursion, of a large exposure, represented by limestone intercalated with dolomite and bentonites. The Yangliujing Formation only exposes its basal part, represented by Medium - thick bedded dolostone.



Upper right: The stratigraphy of Panxian Fauna at Yangjuan Village of Panxian County, Guizhou.
 Lower: The site of Panxian Fauna at Yangjuan Village of Panxian County, Guizhou.
Dinocephalosaurus orientalis Li et al., 2004, *Nothosaurus yangjuanensis* Jiang et al., 2006.
Xinminosaurus catactes Jiang et al., 2008, *Qianosuchus mixtus* Li et al., 2006, *Colobodius baii* Sun et al., 2008, *Wumengosaurus delicatmandibulari* Jiang et al., 2008, *Mixosaurus panxianensis* Jiang et al., 2006, *Lariosaurus hongguoensis* Jiang et al., 2006, *Placodus inexpectatus* Jiang et al., 2008, *Sinosaurichthys longipectoralis* Wu et al., 2010.

Sep. 15: visit the site of Guanling Formation (Pelsonian, Anisian, Middle Triassic) in **Luoping**, Yunnan Province, and the excavation section of Luoping Fauna.

Banqiao of Luoping is in the eastern Yunnan Province, about 2 hours away by car from Xingyi of Guizhou. There is a well exposed Triassic sequence from the Lower Triassic Yongningzhen Formation to the Upper Triassic Huobachong Formation. Three sites are chosen for this excursion to focus on the sequence from the Guanling Formation (Pelsonian, Anisian, Middle Triassic) to the Falang Formation (Middle to Late Triassic).



Right: the stratigraphic section bearing the fossiliferous level of Luoping Fauna.

Left: the quarry at site 3 with the exposure of Yangliujing Formation (upper); *Sinosaurosphargis yunguiensis* Li et al., 2011, *Dianpachypleurosaurus dingi* Liu et al., 2011, Mixosauridae gen. et sp. indet (middle); *Sinosaurichthys longipectoralis* Wu et al., 2010, *Perleidus sinensis* Lombardo et al. 2011, *Kyphosichthys grandei* Xu and Wu 2012, *Luopingichthys bergi* Sun et al. 2009, *Habroichthys broughi* Lin et al. 2011, *Marcopoloichthys ani* Tintori et al. 2008, *Sangiorgioichthys sui* López-Arbarello et al. 2011 (lower).

(9). Call for Abstracts (Conference Proceedings)

All prospective participants are welcome to submit a detailed abstract in English and an abstract book will be printed before the symposium. The submission deadline is May 31st, 2013. Please submit your abstract through email or online submission system.

The abstract must be less than 4000 Characters, may include three or less figures and/or tables, and less than four published pages including main references cited. Please follow the main rules and format of *Journal of Vertebrate Paleontology* to prepare the abstract. The figures must be in Coreldraw or TIFF and with the minimum resolution of 600dpi.

4. Registration, main venue, transportation and accommodation

(1) Registration fee

Registration fee will be ¥800 (RMB Yuan) for regular participants, ¥500 for students. The registration fee will cover the symposium documents

The host committee will negotiate discounted rates with the local hotel and get the best deal for the attendees. Please make a reservation prior to your arrival.

(2) Main venue

Two multimedia projection and audio system sets will be supplied for the symposium along with internet access at the main venue.

(3) Transportation

There are direct flights from Kunming, Guiyang and Chongqing to Xingyi. The city is also next to the high way to Guiyang and Kunming. The committee will arrange buses to pick up attendees at the airports and train stations. Please register and specify your transportation prior to your arrival.

(4) Climate

It is not hot in September in Xingyi and it is really convenient during the night. It is the best time of the year for tourism in Xingyi City.

5. Important Deadlines and contact information:

(1) Important deadlines

First Circular: Dec.25, 2012 (Chinese and English)

Second Circular: Mar.15, 2013

Third Circular: Jun. 15, 2013

Deadline of abstract submission: May 31, 2013

Please regularly check the website for information update.

(2) Contact information

Contact person: Changwu YE

Contact institute: Bureau of Land and Resources of Xingyi

Contact person: Dayong JIANG, Zuoyu SUN, Cheng JI

Contact institute: School of Earth and Space Sciences, Peking University
Address: Yiheyuan Str. 5, Haidian District, Beijing 100871
Phone: 86-10-62754154, 62756088
Fax: 86-10-62754154
Email: djiang@pku.edu.cn
Webpage: <http://marinereptile.org/>

6. Reply form and suggestions:

Family Name:	Given Name:
Country:	Gender:
Title:	
Institution:	
Mailing Address:	
Telephone:	Fax:
Email:	

Please fill YES or NO in the blanks:

	I will give an oral presentation, the title is:
	I will join the post-symposium field trip

(Provide the title of the presentation, if possible)

Suggestions:



Wanfenglin Geopark



Wanfenglin Geopark

The Eight-trigram cropland in Wangfenglin Geopark



Wanfenghu Lake



Malinghe Waterfall Group