

APSG2011 Program

(RMIT University, Melbourne, Australia 2011/6/25—6/27)

June 25 Saturday (RMIT CAFE, RMIT University)

17:00-19:30 **Registration of the participants**

17:30-19:00 **Reception**

Houze Xu: Welcome Speech

June 26 Sunday (Emily Macpherson, Level 3, Room 9, RMIT University)

8:30-8:50 **Opening Ceremony**

Conveners: Houze Xu, Shuhua Ye and Kefei Zhang

Shuhua Ye: Opening Speech

Daine Alcorn: Welcome Address (Vice President of RMIT University)

Session 0: Invited Presentations

Conveners: Houze Xu and Miriam Baltuck

8:50-9:20 John LaBrecque

The Pacific Basin Real-Time GNSS Network for Earthquake and Tsunami Early Warning

9:20-9:50 Kefei Zhang

Platform Technologies for Space Geodesy – An Australian Perspective

9:50-10:20 Pilho Park

Coseismic Displacements of Korean Peninsula caused by the 2011 Mw 9.0 Tohoku Earthquake, Japan, from GPS Data

10:20-11:00 **Photo and Morning tea**

Session 0: Invited Presentations (Continue)

Conveners: John LaBrecque and John Manning

11:00-11:30 Houze Xu

Estimation of ice melting in Antarctic by GRACE and IceSat

11:30-12:00 Jinwei Ren

Seismic Deformation by GPS for Ms7.1 Yushu Earthquake on April 14th, 2010 in Tibetan Plateau, China

12:00-12:30 Chungyen Kuo

Estimation of Geocenter Variations

12:30-13:30 **Lunch**

Session 1: Data processing and inversion of geodetic technology

Conveners: Kefei Zhang and Xiong Xiong

- 13:30-13:50 Jizhang Sang
A Reverse Process of Estimating Atmospheric Mass Density from Precision Orbit Information
- 13:50-14:10 Fengchun Shu
Current status of Chinese domestic geodetic VLBI observing program
- 14:10-14:30 Oleg Titov
First results of the AuScope geodetic VLBI network
- 14:30-14:50 Xiaogang Hu
Constraining CMT solutions of the 2011 Tohoku-oki earthquake with gravity observations
- 14:50-15:10 Xiaoguang Hao
Normal mode coupling due to azimuthal anisotropy in the middle mantle-observations from Antarctica
- 15:10-15:30 Chisheng Wang
The difference between InSAR- and GPS-constrained fault slips of 2011 Tohoku earthquake
- 15:30-16:00 **Afternoon tea**

Session 1: Data processing and inversion of geodetic technology (Continue)

Conveners: Jizhang Sang and Chungyen Kuo

- 16:00-16:20 Zhiqiang Yin
Running status of SLR-7406 and development plan of the station
- 16:20-16:40 Minghui Xu
The direct estimation of the solar acceleration using geodetic/astrometric observation
- 16:40-17:00 Weihua Wang
A few VLBI results of Chinese VLBI Network
- 17:00-17:20 Xiaoya Wang
Study on Inconsistency of Range and Time Biases from Different Analysis Centres

Session 2: Estimation of the sea level change and ice melting in Asia-pacific regions by geodetic methods

Conveners: C. K. Shum and Min Zhong

- 17:20-17:40 C.K. Shum
Observed and Geophysical Causes of Sea-Level Rise
- 17:40-18:00 Zhenwei Huang
Monitoring of Floods Using Space Geodetic Observations
- 18:00-18:20 Jianbin Duan

Estimates of Mountain Glacier Mass Balance from GRACE

19:00-21:30 **Banquet (Restaurant in China Town, 15 minutes walking distance)**
(Pepper Chilli Chinese Restaurant, 85 Little Bourke Street, Melbourne, Phone: 96629662)

June 27 Monday (Emily Macpherson, Level 3, Room 9, RMIT University)

Session 2: Estimation of the sea level change and ice melting in Asia-pacific regions by geodetic methods (Continue)

Conveners: C. K. Shum and Min Zhong

- 8:30-8:50 Min Zhong
Water mass loss in the central Northern China region detected by GRACE and ground-based observation
- 8:50-9:10 Linguo Yuan
Validation of ocean tide models around Taiwan using continuous GPS observations, 1996-2010
- 9:10-9:30 Jingang Zhan
GRACE Data detect the Water storage variation of Longtan Reservoir

Session 3: Crustal deformation, Earthquake Dynamics and Tsunami

Conveners: Pilho Park and Jinwei Ren

- 9:30-9:50 Xiong Xiong
Slip model of the Mw 9.0 Sendai earthquake (Japan) and its Mw 7.9 aftershock derived from GPS data
- 9:50-10:10 Wenbin Shen
Global change caused by the 2011 Honshu Mw9.0 earthquake
- 10:10-10:30 Zhengxin Li
Underground matter changes in Beijing-Tangshan region during 1987-1998 from the observations of a gravimetric network
- 10:30-11:00 **Morning tea**
- 11:00-11:20 Haoming Yan
Vertical deformation detection from GRACE
- 11:20-11:40 Liming Jiang
InSAR-GPS optimization for mapping high resolution 3-D crustal deformation of the 2011 Mw = 9.0 Japanese earthquake
- 11:40-12:00 Xinsheng Wang
Lithospheric density structure and destruction mechanism of North China Craton
- 12:00-12:20 Lei Wang
Coseismic Deformation of 2011 Mw9.0 Sendai-Oki Earthquakes from Space Geodetic Sensors

12:20-12:40 Mi Jiang
Coseismic Deformation of 2011 Tohoku Earthquake from InSAR Measurements

12:40-13:40 **Lunch**

Session 4: Space geodesy-based atmospheric remote sensing

Conveners: Yuriy Kuleshov and Jens Wickert

13:40-14:00 Jens Wickert

GNSS based Earth Observation: Recent activities at GFZ

14:00-14:20 Ta-Kang Yeh

Sensing of precipitable water vapor using ground-based GPS in Taiwan

14:20-14:40 Shuli Song

Establishment of a new tropospheric delay correction model

14:40-15:00 Chuan-Sheng Wang

Investigation of Atmospheric Parameters Retrieved from ROPP and CDAAC Using GPS Measurements over the Australian Area

15:00-15:20 Yuriy Kuleshov

Atmosphere temperature trends over the Antarctic - footprint of anthropogenic forcing

15:20-15:50 **Afternoon tea**

Session 5: The Moon and Planetary Geodesy

Conveners: Cheng Huang and Wenbin Shen

15:50-16:10 C.K. Shum

Lunar Topography Modeling Using Laser Altimetry from Multiple Orbiters

16:10-16:30 Yong Huang

Mars Express Tracking and Orbit Determination Experiment with Chinese VLBI Network

16:30-16:50 Weimin Zheng

CVN software correlator and its applications in lunar mission

16:50-17:10 Ming Chen

Research on the relative position determination of a lunar rover by using the same-beam VLBI

Discussion and Closing Ceremony

Conveners: Houze Xu, Shuhua Ye and Kefei Zhang

Houze Xu: Closing Speech

Poster (June 26 – June 27)

(Emily Macpherson, Level 3, Room 9, RMIT University)

1	Erjiang Fu	Future radio occultation atmospheric observation with multiple GNSS for the Australasian meteorology studies
2	Tzu-Pang Tseng	GPS-calibrated frequency stability analysis of IGOR receiver oscillator in FORMOSAT-3/COSMIC orbit determination
3	Yubin Yuan	GPS Precise Point Positioning Based on Improved TurboEdit Algorithms and New IGS Products
4	Min Jiang	Sea level change caused by global ocean mass
5	Genyou Liu	Relative Positioning and Time Synchronization Between Satellites
6	Pengfei Wu	Current Development of Airborne Gravimeter at IGG, CAS
7	Qinming Chen	The analysis for the accuracy of the tropospheric zenith delay calculated from ECMWF/NCEP data over Asian area
8	Yanling Chen	Improvement of Edge Distortion of Wavelet Filtering Based on Ltsa Model for INSAR Interferogram