APSG2010 Program

（Shanghai Astronomical Observatory, 2010/8/16－2010/8/21）

August 16 Monday

13:00-18:00 **Registration of the participants at the lobby of Tianwen Mansion of Shanghai Astronomical Observatory (SHAO)**

18:30- **Reception**

August 17 Tuesday Morning

08:30-09:00 **Opening Ceremony**

Conveners：H. T. Hsu and Shuhua Ye

Invited Presentations

Conveners：H. T. Hsu and Shuhua Ye

09:00-09:30	Tatevian Suriya	Integration of the Russian Geodetic Network into the GGOS
09:30-10:00	Pil Ho Park	KASI's Research Activity on Space Geodey
10:00-10:30	Zhiqin Wei	Velocity Field of China Continent
10:30-11:00	Photo and Coffee Break	
11:00-11:30	Jinwei Ren	Ms7.1 Yushu Earthquake on April 14th 2010 in Tibetan Plateau
11:30-12:00	B. F. Chao	GPS occullation by FormoSAT-3/COSMIC: GPS-ARC
12:00-12:30	Xiaoli Ding	Modeling PSInSAR Time-Series without Phase Unwrapping
12:30-13:00	Jinsong Ping	To promote GRACE type follow-on mission in China

13:00-14:30 Lunch

August 17 Tuesday Afternoon

Session 1. Gravity

Time-Variable Gravity and Earth Rotation Dynamics，Space-borne, absolute/superconducting gravimetry and their applications.

Conveners: H. T. Hsu and Bin Wu

14:30-14:50	Ching-Chung Cheng	Superconducting and absolute gravity

		observations for geodynamic applications in Taiwan
14:50-15:10	Nosov Dmitry	The First Results of Tests of Absolute Laser Gravimeter for Field Operation
15:10-15:30	Wei-Yung Chung	Geophysical Analysis of Earth Rotation
15:30-15:50	Daxin Xu	Study of the gravity anomaly matching method for underwater navigation
15:50-16:10	Wenbin Shen	Detection and analysis of gravity anomaly signals prior to Wenchuan Mw7.9 earthquake using superconducting gravimeter and broadband seismometer data
16:10-16:30	Coffee Break	
16:30-16:50	Haoming Yan	Global mass balance effects on the Earth's rotation rate
16:50-17:10	Zizhan Zhang	Hydrological mass variations caused by extreme weather conditions in China measured by GRACE TVG data
17:10-17:30	Xiaoyun Wan	Researches on singularities in computing gradients of the gravitational field
17:30-17:50	Xueqing Xu	High Precision Prediction Method of Earth Orientation Parameters
17:50-18:10	Bunin Ilya	Investigation of the optical system of the absolute laser ballistic gravimeter
18:10-18:30	Zhenhe Zhai	The Merging of Gravity data Derived from Airborne Gravimetry and Satellite Altimetry in Bohai Gulf Area

August 18 Wednesday Morning

Session 1. (continue) Gravity

Time-Variable Gravity and Earth Rotation Dynamics，Space-borne, absolute/superconducting gravimetry and their applications.

Conveners: B. F. Chao and Chengli Huang

08:30-08:50	Jianqiao Xu	Geodynamic Implication of Temporal Changes in Gravity from Superconducting Gravimeter
08:50-09:10	C. L. Huang	On the contribution of the Chinese Mars mission YH-1 on the Mars gravity field
09:10-09:30	Xiaoming Cui	Determination of Free Core Nutation parameters and investigation of coupling parameters at the

		Core-Mantle boundary
09:30-09:50	Zhao Yang	Theoretical research and detection of spectral splitting of spheroidal oscillations of the earth
09:50-10:10	Yonghong Zhou	Studies on the oceanic excitation of the Earth's variable rotation
10:10-10:30	Coffee Break	
10:30-10:50	Buxi Gao	Estimation on the Earth's Rotation Rate at past 3 billion years
10:50-11:10	Xiaodong Chen	Influence of the underground water on gravity observation at Wuhan station

Session 2. Crustal Dynamics and Earthquake

Monitoring crustal movement and deformation by space techniques and earthquake monitoring

Convener: Suriya Tatevian

11:10-11:30	Shestakov V. Nikolay	Recent crustal movements of Russian Far East as seen from GPS observations
11:30-11:50	Timofeev Vladimir	Pre, co and post-seismic motion for South Baikal earthquake zone (27/08/2008, M = 6.1÷6.3) by GPS and geophysical methods.
11:50-12:10	Ashurkov Sergey	Rotation parameters of Amurian plate from GPS measurements and geological consequence
12:10-12:30	Yanxing Li	Relationship between plate motion with atmosphere circulation and ocean circulation

12:30-14:00 Lunch

August 18 Wednesday Afternoon

Session 2. (continue) Crustal Dynamics and Earthquake

Monitoring crustal movement and deformation by space techniques and earthquake monitoring

Conveners: Jinwei Ren and Vladimi Timofeev

14:00-14:20	Zhengxin Li	Regional plumb line variations at Tangshan and a determination of underground matter change before and after earthquakes
14:20-14:40	Nobuyuki Kawano	Digital PZT for the measurement of plumb line variations
14:40-15:00	Ta-Kang Yeh	Vertical displacement due to ocean tidal

		loading around Taiwan
15:00-15:20	Wei-Chia Hung	Using Persistent Scatterers SAR Interferometry to monitor subsidence of the Choushui River Alluvial Fan in Taiwan
15:20-15:40	Chunyan Qu	The PSInSAR technique and its application to the study on crustal deformation of the Haiyuan fault zone
15:40-16:00	Vilor Nikolay	Remote sensing method of investigation and calculation of deep heat flow of regional structures in areas with high velocity crustal motions by GPS data
16:00-16:20	Coffee Break	
16:20-16:40	Zhiqiang Yin	SLR Monitoring crustal movement caused by Ms8.8 Chile earthquake
16:40-17:00	Zotov Leonid	Application of multichannel singular spectrum analysis to satellites measurements
17:00-17:20	Chung-Liang Lo	Variation of the Earth Oblateness caused by earthquakes for the past forty years
17:20-17:40	Bo Hu	Test study of monitoring the deformation of frozen ground area of Tibetan Plateau using DInSAR technique
17:40-18:00	Kefei Zhang	Look in space – a recent Australian space geodesy initiative in atmosphere and climate studies
18:00-18:20	Zhigen Yang	Re-discussion on Radial Tectonic Motions of Continental Borders around Mid-Atlantic in Northern Hemisphere by Space Geodetic Observations

18:30- Banquet

August 19 Thursday Morning

Session 3. Sea level change, water and atmospheric variations

Results given by space techniques, comparison with models and terrestrial observations

Conveners: X. L. Ding and C. Huang

08:30-08:50	Jianbin Duan	GRACE Observed Ocean Bottom Pressure Variations
08:50-09:10	Xiaoli Su	The trend of terrestrial water storage

		variations revealed by GRACE
09:10-09:30	Yi Hsiang Li	Ocean mixed-layer depth variation in the ENSO region
09:30-09:50	Jen-Ru Liau	Using gravity and topography data to retrieve surface flooding scenarios
09:50-10:10	Min Jiang	Study on contribution of Eustatic sea level to Global Mean Sea Level Variations using GRACE
10:10-10:30	Coffee Break	
10:30-10:50	Feng Wei	Regional sea level change in China from satellite altimetry, GRACE and in-situ observations
10:50-11:10	Chia-Chu Yang	Understanding Tatun volcano group, Northern Taiwan, Using GPS and Geophysical observations
11:10-11:30	Chaitip Prasert	Future Temperature Evidence from Four Asian Countries Using Generalized Extreme Value Estimation
11:30-11:50	Peng Guo	Ionospheric equivalent slab thickness analysis based on ground-based and air-based GPS measurements
11:50-12:10	De Chun Liao	Attempt of the SSTA prediction by artificial neural network technique

12:30-14:00 Lunch

August 19 Thursday Afternoon

Session 3. (Continue) Sea level change, water and atmospheric variations
Results given by space techniques, comparison with models and terrestrial observations.
Convener: P. H. Park

14:00-14:20	Zhongmiao Sun	Simulation and initial analysis on altimetry satellite constellation
14:20-14:40	Cheng-Yin Chu	Global tropopause height variabilities estimated from FormoSat-3/COSMIC GPS occultation data
14:40-15:00	Yuei An Liou	Investigation on the GPS RO retrieval data quality and its improvement
15:00-15:20	Tingting Han	Discussion on the global features and trends of the tropopause derived from GPS/CHAMP RO data
15:20-16:00	Coffee Break	

Session 4. The Moon and Planetary Geodesy

New results from CE-1、SELENE and introductions about future missions

Conveners: Ziqing Wei and Jinsong Ping

16:00-16:20	Jinsong Ping	New Progress of Selenodesy by CE-1
16:20-16:40	Qian Huang	Spectral Analysis of the Moon from gravity and topography data
16:40-17:00	Qinghui Liu	High-Accuracy Same-Beam VLBI Technique and its Applications
17:00-17:20	Ming Chen	The principle of inverse VLBI system

Discussion and Closing Ceremony

Conveners: H. T. Hsu and Shuhua Ye

17:20-18:20	Discussion on the future activities on APSG	
18:20-18:30	Closing Ceremony	

Poster (August 17 - August 19)

1	Zotov Leonid	Chandler wobble excitation reconstruction and analysis
2	Wenbin Shen	Estimates of the splitting frequencies of the spheroidal oscillation modes ${}_0S_2$ and ${}_3S_1$ using superconducting gravimeters records
3	Xiaoli Su	The calibration of Laser Altimeter and the research of Yutu area
4	Weijing Que	The variations of the earth's gravity field for 1993-2009 from satellite laser ranging observations
5	Wu Jiang	New method to resolve 2πambiguity in NBV
6	Yun Xiao	Baseline Approach Used for Prosessing the Satellite-to-Satellite Tracking Data
7	Kefei Zhang	Numerical ray tracing techniques to synthesize and study L-band GPS frequency propagation in the ionosphere and lower atmosphere
8	Frank Fu	Antarctica tropospheric temperature studies using GPS radio occultation observations

9	Lei Wang	Prospective Earth Science Studies Using GRACE Follow-on Gravimetry
10	Rongjian Liu	Non-spherical symmetric inversion of ionospheric occultation data
11	Xinsheng Wang	Three-dimensional lithospheric density structure beneath North China Craton
12	Xiansheng Xu	Back-propagation Inversion Method for GPS/LEO Radio Occultation Data

August 20 Friday

07:30-20:00 **To take two buses at SHAO to go to the World Expo**
To take the same buses at the World Expo to go back to SHAO
Or to go back to your hotel by yourself

August 21 Saturday

Meeting Over or Tour