

Sixth IVS General Meeting Hobart, Tasmania, Australia

EXTENDED SCHEDULE OF EVENTS

All events take place at University of Tasmania, School of Mathematics and Physics.
Exceptions are indicated in angular brackets.

Sunday, February 7, 2010

- 14:00–18:00 Registration [Zero Penthouse at Zero Davey]
16:00–18:00 Icebreaker Reception [Zero Penthouse at Zero Davey]

Monday, February 8, 2010

- 08:30–10:30 Opening and Session 1: Realization and New Perspectives of VLBI2010
10:30–11:00 Coffee break
11:00–13:00 Session 1: Realization and New Perspectives of VLBI2010 (cont'd)
13:00–14:00 Lunch break
14:00–16:00 Session 2: Network Stations, Operation Centers, Correlators
16:00–18:00 Poster Session (Sessions 1–5) with coffee and refreshments

Tuesday, February 9, 2010

- 08:30–10:00 Session 2: Network Stations, Operation Centers, Correlators (cont'd)
10:00–10:30 Session 3: VLBI Data Structure, Analysis Strategies and Software
10:30–11:00 Coffee break
11:00–12:45 Session 3: VLBI Data Structure, Analysis Strategies and Software (cont'd)
12:45–13:15 Lunch break
13:15–18:30 Excursion to Hobart station and dedication of AuScope antenna
[Mt. Pleasant Observatory]

Wednesday, February 10, 2010

- 08:30–09:15 Session 3: VLBI Data Structure, Analysis Strategies and Software (cont'd)
09:15–10:35 Session 4: Interpretation of VLBI Results in Geodesy, Astrometry and Geophysics
10:35–11:05 Coffee break
11:05–13:00 Session 4: Interpretation of VLBI Results in Geodesy, Astrometry and Geophysics
13:00–14:00 Lunch break
14:00–15:00 Session 4: Interpretation of VLBI Results in Geodesy, Astrometry and Geophysics
(cont'd)
15:00–16:00 Session 5: Progress in Technology Development
16:00–16:30 Coffee break
16:30–17:45 Session 5: Progress in Technology Development (cont'd) and GM Closing
18:30–23:15 Banquet [Barilla Bay Restaurant]

Thursday, February 11, 2010

- 08:30–10:30 Joint VLBI2010 and Analysis meeting
10:30–11:00 Coffee break
11:00–13:00 Joint VLBI2010 and Analysis meeting (cont'd)
13:00–14:00 Lunch break
14:00–16:00 Joint VLBI2010 and Analysis meeting (cont'd)
16:00–16:30 Coffee break
16:30–18:30 Joint VLBI2010 and Analysis meeting (cont'd)
20:00–22:00 Public lecture “Creating a Radio Telescope the Diameter of the Earth”
by Alan Whitney, MIT Haystack Observatory

Friday, February 12, 2010

- 09:00–10:45 IVS Directing Board meeting
10:45–11:15 Coffee break
11:15–13:00 IVS Directing Board meeting (cont'd)
13:00–14:00 Lunch break
14:00–15:45 IVS Directing Board meeting (cont'd)
15:45–16:15 Coffee break
16:15–18:00 IVS Directing Board meeting (cont'd)

Saturday, February 13, 2010

- 09:00–10:45 mini-TOW [Mt. Pleasant Observatory]
10:45–11:15 Coffee break
11:15–13:00 mini-TOW (cont'd) [Mt. Pleasant Observatory]
13:00–14:00 Lunch break
14:00–15:45 mini-TOW (cont'd) [Mt. Pleasant Observatory]
15:45–16:15 Coffee break
16:15–18:00 mini-TOW (cont'd) [Mt. Pleasant Observatory]

Sixth IVS General Meeting Hobart, Tasmania, Australia

PROGRAM

Sunday, February 7, 2010

14:00–18:00 Registration

Zero Penthouse at Zero Davey
(15 Hunter Street, Sullivans Cove, Hobart Waterfront)

16:00–18:00 Icebreaker Reception

Zero Penthouse at Zero Davey
(15 Hunter Street, Sullivans Cove, Hobart Waterfront)

Monday, February 8, 2010

Opening

08:30 Opening Ceremony

(1) Welcome by Prof. Margaret Britz, Dean of the Faculty of Science, Engineering and Technology
(2) Welcome by Harald Schuh, IVS Chair, and Chair's Report

Session 1: Realization and New Perspectives of VLBI2010

Chair: Bill Petrachenko

08:50 S1-T01 VLBI2010: An Overview

Bill Petrachenko (Natural Resources Canada)

09:05 S1-T02 VLBI2010: The Astro-Geo Connection (*invited*)

Richard Porcas (MPIfR Bonn)

09:30 S1-T03 Differences between VLBI2010 and S/X Hardware

Brian Corey (MIT Haystack Observatory)

09:45 S1-T04 The NASA VLBI2010 Proof-of-Concept Demonstration and Future Plans

Arthur Niell (MIT Haystack Observatory) and the Broadband Development Team

10:00 S1-T05 Differences between S/X and VLBI2010 Operations

Hayo Hase¹, Ed Himwich², Alexander Neidhardt³ (¹BKG, ²NVI, Inc./NASA GSFC, ³FESG Wettzell)

10:15 S1-T06 Post-Correlation Processing for the VLBI2010 Proof-of-Concept System

Chris Beaudoin, Arthur Niell (MIT Haystack Observatory)

10:30 Coffee Break*Chair: Arthur Niell***11:00 S1-T07 GPU Based Software Correlators – Perspectives for VLBI2010**Thomas Hobiger¹, Moritaka Kimura¹, Kazuhiro Takefuji¹, Tomoaki Oyama², Yasuhiro Koyama¹, Tetsuro Kondo¹, Tadahiro Gotoh¹, Jun Amagai¹ (¹NICT Japan, ²NAOJ Japan)**11:15 S1-T08 VLBI2010 Imaging and Structure Corrections**

Arnaud Collioud, Patrick Charlot (Laboratoire d'Astrophysique de Bordeaux)

11:30 S1-T09 The AuScope Project and Trans-Tasman VLBIJim Lovell¹, John Dickey¹, Sergei Gulyaev², Tim Natusch², Oleg Titov³, Steven Tingay⁴ (¹University of Tasmania, ²Auckland University of Technology, ³Geoscience Australia, ⁴Curtin University of Technology)**11:45 S1-T10 Current Status of the Development of a Transportable and Compact VLBI System by NICT and GSI**Atsutoshi Ishii^{1,2,4}, Ryuichi Ichikawa², Hiroshi Takiguchi², Kazuhiro Takefuji², Hideki Ujihara², Yasuhiro Koyama², Tetsuro Kondo^{2,3}, Shinobu Kurihara¹, Yuji Miura¹, Shigeru Matsuzaka¹, Daisuke Tanimoto^{1,4} (¹GSI Japan, ²NICT Japan, ³Ajou University, ⁴AES Co. Ltd.)**12:00 S1-T11 VLBI2020: From Reality to Vision**

Oleg Titov (Geoscience Australia)

12:15 S1-T12 How and Why to Do VLBI on GNSS Spacecraft

John Dickey (University of Tasmania)

12:30 S1-T13 Planning of an Experiment for VLBI Tracking of GNSS SatellitesVincenza Tornatore¹, Rüdiger Haas² (¹Politecnico di Milano, ²Chalmers University of Technology)**12:45 S1-T14 Multi-source Geodetic VLBI – A New Observing and Analysis Technique**

Victus Uzodinma (University of Nigeria)

13:00 Lunch Break**Session 2: Network Stations, Operation Centers, Correlators***Chair: Kerry Kingham***14:00 S2-T01 An Introduction to SKED (invited)**

John Gipson (NVI, Inc./NASA GSFC)

14:20 S2-T02 The State and Development Direction of the Geodetic VLBI Station in Korea (invited)Ju Hyun-Hee¹, Myungho Kim¹, Suchul Kim¹, Jinsik Park¹, Tetsuro Kondo^{2,3}, Tuhwan Kim², Hongjong Oh², Sangoh Yi² (¹NGII Korea, ²Ajou University, ³NICT Japan)

14:45 S2-T03 RAEGE: An Atlantic Network of Geodynamical Fundamental Stations

Jesús Gómez-González¹, Francisco Colomer¹, José Antonio López-Fernández¹, Marlene Assis²
(¹IGN Spain, ²SRCTE Portugal)

15:00 S2-T04 The New Generation Russian VLBI Network

Andrey Finkelstein, Alexander Ipatov, Sergey Smolentsev, Vyacheslav Mardyshev, Leonid Fedotov, Igor Surkis, Dmitriy Ivanov, Iskandar Gayazov (Institute of Applied Astronomy)

15:15 S2-T05 Towards Establishing a Chinese Geodetic VLBI Observing System

Fengchun Shu¹, Weiming Zhen¹, Xiuzhong Zhang¹, Xiaoyu Hong¹, Aili Yusup², Ming Wang³
(¹Shanghai Astronomical Observatory, ²Urumqi Astronomical Observatory, ³Yunnan Astronomical Observatory)

15:30 S2-T06 Characterization and Calibration of the 12-m Antenna in Warkworth, New Zealand

Sergei Gulyaev, Tim Natusch (Auckland University of Technology)

15:45 S2-T07 COLD MAGICS – Continuous Local Deformation of an Arctic Geodetic Fundamental Station

Rüdiger Haas¹, Sten Bergstrand² (¹Chalmers University of Technology, ²SP Technical Research Institute)

Poster Session (Sessions 1–5) with coffee and refreshments**16:00-18:00 Core Poster Time for All Sessions**

S1-P01...S1-P04, S2-P01...S2-P16, S3-P01...S3-P08, S4-P01...S4-P09, S5-P01...S5-P12

Tuesday, February 9, 2010

Session 2: Network Stations, Operation Centers, Correlators (cont'd)

Chair: Kazuhiro Takashima

08:30 S2-T08 Homologous Deformation of the Effelsberg 100-m Telescope Determined with a Total Station

Axel Nothnagel, Judith Pietzner, Christian Eling (University of Bonn)

08:45 S2-T09 Ultra-rapid dUT1 Experiments on Japan–Fennoscandian Baselines – Application to 24-hour Sessions

Shigeru Matsuzaka¹, Shinobu Kurihara¹, Mamoru Sekido², Thomas Hobiger², Rüdiger Haas³, Jouko Ritakari⁴, Jan Wagner⁴ (¹GSI Japan, ²NICT Japan, ³Chalmers University of Technology, ⁴Helsinki University of Technology)

09:00 S2-T10 MPIfR/BKG Correlator Report

Walter Alef¹, David Graham¹, Helge Rottmann¹, John Morgan¹, Richard Porcas¹, Arno Mueskens², Alessandra Bertarini², Simone Bernhart² (¹MPIfR Bonn, ²University of Bonn)

09:15 S2-T11 Implementation and Testing of VLBI Software Correlation at USNO

Alan Fey¹, David Boboltz¹, Ralph Gaume¹, David Hall¹, Ken Johnston¹, Kerry Kingham¹, Roopesh Ojha² (¹U.S. Naval Observatory, ²NVI, Inc./USNO)

09:30 S2-T12 The Software Correlator of the Chinese VLBI Network

Weimin Zheng, Ying Quan, Fengchun Shu, Zhong Chen, Shanshan Chen, Weihua Wang (Shanghai Astronomical Observatory)

09:45 S2-T13 Zodiac Extragalactic Sources Densification Using Phase-Referencing Technology

Guangli Wang (Shanghai Astronomical Observatory)

Session 3: VLBI Data Structure, Analysis Strategies and Software*Chair: Thomas Hobiger***10:00 S3-T01 IVS Working Group 4: Proposed VLBI Data Format**

John Gipson (NVI, Inc./NASA GSFC)

10:15 S3-T02 Development of a New VLBI Data Analysis Software

Sergei Bolotin, John Gipson, Dan MacMillan (NVI, Inc./NASA GSFC)

10:30 Coffee Break**11:00 S3-T03 Estimation of Geodetic and Geodynamical Parameters with VieVS**

Hana Spicakova, Johannes Böhm, Sigrid Böhm, Tobias Nilsson, Andrea Pany, Lucia Plank, Kamil Teke, Harald Schuh (Vienna University of Technology)

11:15 S3-T04 VLBI Analysis with the Multi-technique Software GEOSAT

Halfdan Kierulf¹, Per-Helge Andersen², Sarah Böckmann³, Oddgeir Kristiansen¹ (¹Norwegian Mapping Authority, ²Norwegian Defence Research Establishment, ³University of Bonn)

11:30 S3-T05 Comparison Campaign of VLBI Data Analysis Software – First Results

Lucia Plank (Vienna University of Technology)

11:45 S3-T06 Consideration of Correlations between the Different Input Series in IVS Intra-technique Combination

Sarah Böckmann, Thomas Artz, Axel Nothnagel (University of Bonn)

*Chair: John Gipson***12:00 S3-T07 VLBI–SLR Combination Solution Using GEODYN**

Dan MacMillan¹, Frank Lemoine², Despina Pavlis³, Douglas Chinn³, David Rowlands² (NVI, Inc./NASA GSFC, ²NASA GSFC, ³SGT Inc./NASA GSFC)

12:15 S3-T08 Application of Ray-tracing through the High Resolution Numerical Weather Model HIRLAM for the Analysis of European VLBI

Susana García-Espada¹, Rüdiger Haas², Francisco Colomer¹ (¹IGN Spain, ²Chalmers University of Technology)

12:30 S3-T09 Atmospheric Delay Reduction Using KARAT for GPS Analysis and Implications for VLBI

Ryuichi Ichikawa¹, Thomas Hobiger¹, Yasuhiro Koyama¹, Tetsuro Kondo^{1,2} (¹NICT Japan, ²Ajou University)

12:45 Lunch Break

Visit of Mt. Pleasant Observatory and Dedication of AuScope Antenna

Master of Ceremonies: Jim Lovell

13:15 Bus departure from University of Tasmania

14:00-18:00 Excursion to Hobart Station and dedication of AuScope Antenna

18:00 Bus departure from Mt Pleasant Observatory

Wednesday, February 10, 2010

Session 3: VLBI Data Structure, Analysis Strategies and Software (cont'd)

Chair: John Gipson

08:30 S3-T10 Use of GPS TEC Ionosphere Maps for Calibrating Single Band VLBI Sessions

David Gordon (NVI, Inc./NASA GSFC)

08:45 S3-T11 Universal Time from VLBI Single Baseline Observations during CONT08

Johannes Böhm, Tobias Nilsson, Harald Schuh (Vienna University of Technology)

09:00 S3-T12 Application of Geodetic VLBI Data to Obtaining Long-term Light-curves for Astrophysics

Masachika Kijima (Sokendai Graduate University)

Session 4: Interpretation of VLBI Results in Geodesy, Astrometry and Geophysics

Chair: Rüdiger Haas

09:15 S4-T01 The Second International Celestial Reference Frame (ICRF2) (invited)

Chopo Ma (NASA GSFC)

09:35 S4-T02 Time-dependent Selection of an Optimal Set of Sources to Define a Stable Celestial Reference Frame

Karine Le Bail, David Gordon (NVI, Inc./NASA GSFC)

09:50 S4-T03 X/Ka-band Celestial Reference Frame Work: Recent ImprovementsChris Jacobs¹, Ojars Soovers (¹Jet Propulsion Laboratory, ²Remote Sensing Analysis Systems Inc.)**10:05 S4-T04 Effects of ICRF2 on Estimates of Earth Orientation Parameters and the Terrestrial Reference Frame**

Robert Heinkelmann (DGFI Munich)

10:20 S4-T05 Long-term Variations of the EOP and ICRF2

Vladimir Zharov, Mikhail Sazhin, Valerian Sementsov (Sternberg State Astronomical Institute)

10:35 Coffee Break**11:05 S4-T06 Long-term Stability of Radio Sources in VLBI Analysis**

Gerald Engelhardt, Volkmar Thorandt (BKG Leipzig)

11:20 S4-T07 The Position Stability of Four ICRF2 Radio SourcesEd Fomalont¹, Ken Johnston², Alan Fey², David Boboltz², Tomoaki Oyama³, Mareki Honma³ (¹NRAO, ²U.S. Naval Observatory, ³NAOJ Japan)**11:35 S4-T08 Study of the Low Luminosity GPS Radio Source PKS B2254-367 (IC 1459) from VLBI Observations**

Julia Sokolova, Steven Tingay (Curtin University of Technology)

Chair: Dan MacMillan**11:50 S4-T09 Global VLBI Observations of Weak Extragalactic Radio Sources: Imaging of Candidates to Align the ICRF and the Future GAIA Frame**G eraldine Bourda¹, Patrick Charlot¹, Arnaud Collioud¹, Richard Porcas², Simon Garrington³ (¹Laboratoire d'Astrophysique de Bordeaux, ²MPIfR Bonn, ³Jodrell Bank Observatory)**12:05 S4-T10 Enabling High Precision VLBI Relative Astrometry at the Highest Frequencies**Maria Rioja^{1,2}, Richard Dodson¹ (¹ICRAR/UWA, ²OAN Spain)**12:20 S4-T11 An Improved Lunar Gravity Field Model from SELENE and Historical Tracking Data (*invited*)**Koji Matsumoto¹, Sander Goossens¹, Yoshiaki Ishihara¹, Quinghui Liu², Fuyuhiko Kikuchi¹, Takahiro Iwata³, Noriyuki Namiki⁴, Hiroto Noda¹, Hideo Hanada¹, Nobuyuki Kawano², and RSAT/VRAD Mission Team (¹NAOJ Japan, ²Shanghai Astronomical Observatory, ³JAXA, ⁴Chiba Institute of Technology)**12:45 S4-T12 Planetary Radio Interferometry and Doppler Experiment (PRIDE) in the IVS Context**

Leonid Gurvits, Sergei Pogrebenko, Giuseppe Cim  (JIVE) and the PRIDE Team

13:00 Lunch Break**14:00 S4-T13 The First Experiment with VLBI-GPS Hybrid System**Younghee Kwak^{1,3}, Tetsuro Kondo^{1,2}, Tadahiro Gotoh², Jun Amagai², Hiroshi Takiguchi², Mamoru Sekido², Ryuichi Ichikawa², Tetsuo Sasao¹, Jungho Cho³, Tuhwan Kim¹ (¹Ajou University, ²NICT Japan, ³KASI Korea)

14:15 S4-T14 Ionospheric Response to the Total Solar Eclipse of July 22, 2009 as Deduced from VLBI and GPS Data

Li Guo¹, Fenchun Shu¹, Weimin Zheng¹, Tetsuro Kondo^{2,3}, Ryuichi Ichikawa², Shingo Hasegawa², Mamoru Sekido² (¹Shanghai Astronomical Observatory, ²NICT Japan, ³Ajou University)

14:30 S4-T15 Reliability and Stability of VLBI-derived Sub-daily EOP Models

Thomas Artz¹, Sarah Böckmann¹, Axel Nothnagel¹, Peter Steigenberger² (¹University of Bonn, ²TU Munich)

14:45 S4-T16 Extracting Independent Local Oscillatory Geophysical Signals in Geodetic Tropospheric Delay

Ondego Joel Botai¹, Ludwig Combrinck^{1,2}, Venkataraman Sivakumar^{1,3}, C.J. de W. Rautenbach¹, Harald Schuh⁴, Johannes Böhm⁴ (¹University of Pretoria, ²Hartebeesthoek RAO, ³South African National Laser Center, ⁴Vienna University of Technology)

Session 5: Progress in Technology Development*Chair: Alan Whitney***15:00 S5-T01 The Mark 5C VLBI Data System**

Alan Whitney¹, Chester Ruszczyk¹, Jon Romney², Ken Owens³ (¹MIT Haystack Observatory, ²NRAO, ³Conduant Corp.)

15:15 S5-T02 Cryogenic Integration of 2-14 GHz Eleven Feed in Wideband Receiver for VLBI2010

Miroslav Pantaleev¹, Jian Yang¹, Yogesh Karadikar¹, Leif Helldner¹, Benjamin Klein², Rüdiger Haas¹, Ashraf Zaman¹, Mojtaba Zamani¹, Per-Simon Kildal¹ (¹Chalmers University of Technology, ²Hartebeesthoek Radio Astronomy Observatory)

15:30 S5-T03 Next Generation A/D Sampler ADS3000+ for VLBI2010

Kazuhiro Takefuji¹, Hiroshi Takeuchi², Masanori Tsutsumi¹, Yasuhiro Koyama¹ (¹NICT Japan, ²JAXA/ISAS)

15:45 S5-T04 e-control: First Public Release of Remote Control Software for VLBI Telescopes

Alexander Neidhardt¹, Martin Ettl¹, Helge Rottmann², Christian Plötz³, Matthias Mühlbauer³, Hayo Hase³, Walter Alef², Sergio Sobarzo⁴, Cristian Herrera⁴, Ed Himwich⁵ (¹FESG Wettzell, ²MPIfR Bonn, ³BKG Wettzell, ⁴Universidad de Concepción, ⁵NVI, Inc./NASA GSFC)

16:00 Coffee Break**16:30 S5-T05 The Wettzell System Monitoring Concept and First Realizations**

Martin Ettl¹, Alexander Neidhardt¹, Matthias Mühlbauer², Christian Plötz² (¹FESG Wettzell, ²BKG Wettzell)

16:45 S5-T06 Lunar, Martian, and Jovian Geodesy and Science Mission Using VLBI and Astrometrical Technology

Takahiro Iwata¹, Hideo Hanada², Hirotomo Noda², Fuyuhiko Kikuchi², Seiichi Tazawa², Hiroo Kunimori³, Koji Matsumoto², Kazumasa Imai⁴, Yoshiaki Ishihara², Yuji Harada², Sho Sasaki² (¹JAXA, ²NAOJ Japan, ³NICT Japan, ⁴Kochi National College of Technology)

17:00 S5-T07 The Development of VLBI Technologies at SHAO

Xiuzhong Zhang (Shanghai Astronomical Observatory)

17:15 S5-T08 The Progress of CDAS

Renjie Zhu, Ying Xiang, Yajun Wu (Shanghai Astronomical Observatory)

Closing

17:30 Closing Remarks

Harald Schuh, IVS Chair

17:45 Adjourn GM

General Meeting Banquet at Barilla Bay Restaurant

18:30 Bus departure from University of Tasmania

19:00-22:45 Banquet at Barilla Bay Restaurant

22:45 Bus departure from Barilla Bay Restaurant (back to accommodation)

Posters

Session 1: Realization and New Perspectives of VLBI2010

S1-P01 IVS Status Report 2008-2010

Dirk Behrend¹, Harald Schuh² (¹NVI, Inc./NASA GSFC, ²Vienna University of Technology)

S1-P02 Summary of the VLBI2010 Monte Carlo Simulations

Andrey Pany¹, Johannes Böhm¹, John Gipson², Rüdiger Haas³, Dan MacMillan², Arthur Niell⁴, Tobias Nilsson¹, Bill Petrachenko⁵, Harald Schuh¹, Anthony Searle⁵ (¹Vienna University of Technology, ²NVI, Inc./NASA GSFC, ³Chalmers University of Technology, ⁴MIT Haystack Observatory, ⁵Natural Resources Canada)

S1-P03 DBBC VLBI2010

Gino Tuccari¹, Walter Alef², Alessandra Bertarini³, Salvatore Buttaccio¹, Gianni Comoretto⁴, David Graham², Alexander Neidhardt⁵, Pier Raffaele Platania¹, Alan Roy², Michael Wunderlich², Reinhard Zeitlhöfler⁶ (¹Istituto di Radioastronomia/INAF, ²MPIfR Bonn, ³University of Bonn, ⁴Osservatorio Astrofisico di Arcetri/INAF, ⁵FESG Munich, ⁶BKG Wettzell)

S1-P04 VLBI2010 Related Research Activities at SHAO

Guangli Wang, Ming Zhao, Yong Zheng, Zhihan Qian (Shanghai Astronomical Observatory)

Session 2: Network Stations, Operation Centers, Correlators

S2-P01 The Composition of the Master Schedule

Cynthia Thomas, Dan MacMillan, Dirk Behrend (NVI, Inc./NASA GSFC)

S2-P02 Coordinating, Scheduling, Processing and Analyzing IYA2009

John Gipson¹, Dirk Behrend¹, Cynthia Thomas¹, David Gordon¹, Ed Himwich¹, Dan MacMillan¹, Mike Titus², Brian Corey² (¹NVI, Inc./NASA GSFC, ²MIT Haystack Observatory)

S2-P03 TIGO Station Report

Sergio Sobarzo (Universidad de Concepción)

S2-P04 Update on the TWIN Telescope Wettzell Project

Hayo Hase¹, Gerhard Kronschnabl¹, Reiner Dassing¹, Thomas Klügel², Christian Plötz¹, Ullrich Schreiber¹, Walter Schwarz¹, Alexander Neidhardt², Pierre Lauber² (¹BKG Wettzell, ²FESG Wettzell)

S2-P05 Update on the Fundamental Station Project in Ny-Ålesund

Per Erik Opseth, Line Langkaas, Terje Dahlen, Bjørn Engen, Frode Koppang (Norwegian Mapping Authority)

S2-P06 Reduction of GPS Observations in the Local Ties

Li Liu, Jinling Li, Zongyi Cheng (Shanghai Astronomical Observatory)

S2-P07 Permanent Monitoring of the Reference Point of the 20-m Radio Telescope Wettzell

Alexander Neidhardt¹, Michael Lösler², Cornelia Eschelbach², Andreas Schenk² (FESG Wettzell, University of Karlsruhe)

S2-P08 Proof-of-Concept Studies for a Local Tie Monitoring System

Benno Schmeing^{1,2}, Dirk Behrend², John Gipson², Axel Nothnagel¹ (¹University of Bonn, ²NVI, Inc./NASA GSFC)

S2-P09 The QUASAR Network Observations in e-VLBI Mode within Domestic VLBI Programs

Ilya Bezrukov, Andrey Finkelstein, Alexander Ipatov, Michael Kaidanovsky, Andrey Mikhailov, Alexander Salnikov, Elena Skurikhina, Igor Surkis (Institute of Applied Astronomy)

S2-P10 Implantation of Geodetic Networks of High Precision for the Monitoring of Deformations of the Crust at the Local Level

Niel Teixeira (State University of Santa Cruz)

S2-P11 Venus Express Spacecraft Observations with the Wettzell Radio Telescope – First Results

Alexander Neidhardt¹, Gerhard Kronschnabl², Jan Wagner³, Guifre Molera Calves³, Miguel Perez Ayucar⁴, Giuseppe Cimò⁵, Sergei Pogrebenko⁵ (¹FESG Wettzell, ²BKG Wettzell, ³HUT-MRO Metsahovi, ⁴ESA-ESAC Madrid, ⁵JIVE)

S2-P12 RDV77 VLBA Hardware/Software Correlator Comparison

David Gordon (NVI, Inc./NASA GSFC)

S2-P13 The JPL VLBI Correlator and SoftC

Stephen Rogstad, Stephen Lowe (Jet Propulsion Laboratory)

S2-P14 The IAA RAS Correlator Processing: First Results

Igor Surkis, Vladimir Zimovsky, Violetta Shantyr, Alexey Melnikov (Institute of Applied Astronomy)

S2-P15 CRF Network Simulations for the South

Oleg Titov¹, Dirk Behrend², Fengchun Shu³, Dan MacMillan², Alan Fey⁴ (¹Geoscience Australia, ²NVI, Inc./NASA GSFC, ³Shanghai Astronomical Observatory, ⁴U.S. Naval Observatory)

S2-P16 About the Compatibility of DORIS and VLBI Observations

Gennady Il'in, Sergey Smolentsev, Roman Sergeev (Institute of Applied Astronomy)

Session 3: VLBI Data Structure, Analysis Strategies and Software**S3-P01 VLBI Data Interchange Format**

Alan Whitney¹, Mark Kettenis², Chris Phillips³, Mamoru Sekido⁴ (¹MIT Haystack Observatory, ²JIVE, ³CSIRO/ATNF, ⁴NICT Japan)

S3-P02 Combination Analysis at KASI

Younghee Kwak^{1,2}, Jungho Cho¹ (¹Korea Astronomy and Space Science Institute, ²Ajou University)

S3-P03 c5++ Multi-technique Analysis Software for Next Generation Geodetic Instruments

Thomas Hobiger¹, Toshimichi Otsubo², Tadahiro Gotoh¹, Toshihiro Kubooka¹, Mamoru Sekido¹, Hiroshi Takiguchi¹, Hiroshi Takeuchi³ (¹NICT Japan, ²Hitotsubashi University, ³JAXA)

S3-P04 OCCAM-LSM for Linux: New Developments at DGFI

Robert Heinkelmann, Michael Gerstl (DGFI Munich)

S3-P05 SAI Analysis Center Activity

Vladimir Zharov (Sternberg State Astronomical Institute)

S3-P06 Antenna Axis Offset Estimation from VLBI

Sergey Kurdubov, Elena Skurikhina (Institute of Applied Astronomy)

S3-P07 Strategies for Improving the IVS-INT01 UT1 Estimates: Results of RD0907–RD0910

John Gipson, Karen Bayer, Dan MacMillan (NVI, Inc./NASA GSFC)

S3-P08 CPO Prediction: Accuracy Assessment and Impact on UT1 Intensive Results

Zinovy Malkin (Pulkovo Observatory)

Session 4: Interpretation of VLBI Results in Geodesy, Astrometry and Geophysics**S4-P01 Cartography in Space Geodesy**

Hayo Hase (BKG Concepción) and the TANAMI Team

S4-P02 Forthcoming Occultations of Astrometric Radio Sources by Planets

Victor L'vov, Zinovy Malkin, Svetlana Tsekmeister (Pulkovo Observatory)

S4-P03 LBA Calibrator Survey of the Southern SkyLeonid Petrov¹, Chris Phillips², Alessandra Bertarini³, Roy Booth⁴, Sarah Burke-Spolaor⁵, Ed Fomalont⁶, Ron Ekers², Kee-Tae Kim⁷, Tara Murphy⁸, Sergei Pogrebenko⁹, Elaine Sadler⁸, Tasso Tzioumis² (¹ADNET Systems, Inc./NASA GSFC, ²CSIRO/ATNF, ³University of Bonn, ⁴Hartebeesthoek Radio Astronomical Observatory, ⁵Swinburne University of Technology, ⁶NRAO, ⁷KASI, ⁸University of Sydney, ⁹JIVE)**S4-P04 Finding Extremely Compact Sources using the ASKAP VAST Survey**Hayley Bignall¹, Cormac Reynolds¹, Roopesh Ojha², Jim Lovell³, Dave Jauncey⁴ (¹ICRAR/Curtin University, ²NVI, Inc./USNO, ³University of Tasmania, ⁴ATNF) and the ASKAP VAST Collaboration**S4-P05 The Tropospheric Products of the International VLBI Service for Geodesy and Astrometry**

Christian Schwatke, Robert Heinkelmann (DGFI Munich)

S4-P06 Station Positions Intraday Variations

Elena Skurikhina (Institute of Applied Astronomy)

S4-P07 Simulation of Local Tie Accuracy on VLBI Antennas

Ulla Kallio, Markku Poutanen (Finnish Geodetic Institute)

S4-P08 Sub-diurnal EOP Variations from the Analysis of the CONT Campaigns

Rüdiger Haas (Chalmers University of Technology)

S4-P09 VLBI and GPS-based Time Transfer Using CONT08 DataCarsten Rieck¹, Rüdiger Haas², Kenneth Jaldehag², Jan Johansson¹ (¹SP Technical Research Institute, ²Chalmers University of Technology)

Session 5: Progress in Technology Development

S5-P01 Development of a Compact Eleven Feed Cryostat for the Patriot 12-m Antenna

Christopher Beaudoin¹, Per-Simon Kildal², Jiang Yang², Miroslav Pantaleev² (¹MIT Haystack Observatory, ²Chalmers University of Technology)

S5-P02 Radio Telescope Focal Container for the Russian VLBI Network of New Generation

Alexander Ipatov¹, Vyacheslav Mardyskhin¹, Andrey Cherepanov² (¹Institute of Applied Astronomy, ²SPbSPU)

S5-P03 Digital Backend for JPL VLBI Data Acquisition Terminal

Robert Navarro (Jet Propulsion Laboratory)

S5-P04 DBBC2 Backend: Status and Development Plan

Gino Tuccari¹, Walter Alef², Alessandra Bertarini³, Salvatore Buttaccio¹, Gianni Comoretto⁴, David Graham², Alexander Neidhardt⁵, Pier Raffaele Platania¹, Alan Roy², Michael Wunderlich², Reinhard Zeitlhöfler⁶ (¹Istituto di Radioastronomia/INAF, ²MPIfR Bonn, ³University of Bonn, ⁴Osservatorio Astrofisico di Arcetri/INAF, ⁵FESG Munich, ⁶BKG Wettzell)

S5-P05 RDBE – A Second-Generation Digital Backend System

Alan Whitney¹, Shephard Doleman¹, Alan Hinton¹, Russell McWhirter¹, Arthur Niell¹, Chet Ruzsczyk¹, Michael Taveniku¹, Miguel Guerra², Matthew Luce² (¹MIT Haystack Observatory, ²NRAO)

S5-P06 The Digital Data Acquisition System for the Russian VLBI Network of New Generation

Leonid Fedotov, Eugene Nosov, Sergey Grenkov (Institute of Applied Astronomy)

S5-P07 Round Trip System Available to Measure Path Length Variation in Korean VLBI System for Geodesy

Hongjong Oh¹, Tetsuro Kondo^{1,2}, Tuhwan Kim¹, Sangoh Yi¹, Myungho Kim³, Suchul Kim³, Jinsik Park³, Hyunhee Ju³ (¹Ajou University, ²NICT Japan, ³NGII Korea)

S5-P08 Experiment of Injecting Phase Cal ahead of the Feed: First Results

Dmitrij Ivanov, Anatolij Maslenikov, Alexander Vytov (Institute of Applied Astronomy)

S5-P09 First Phase Development of Korea-Japan Joint VLBI Correlator and its Current Progress

Se-Jin Oh¹, Duk-Gyoo Roh¹, Jae-Hwan Yeom¹, Hideyuki Kobayashi², Noriyuki Kawaguchi² (¹KASI, ²NAOJ Japan)

S5-P10 Development of an e-VLBI Data Transport Software Suite with VDIF

Mamoru Sekido¹, Kazuhiro Takefuji¹, Moritaka Kimura¹, Takuya Shinno², Fujinobu Takahashi² (¹NICT Japan, ²Yokohama University)

S5-P11 The Progress of the Hardware Correlator Development at SHAO

Zhijun Xu, Xiuzhong Zhang, Renjie Zhu, Ying Xiang, Yajun Wu (Shanghai Astronomical Observatory)

S5-P12 The Impact of Radio Frequency Interference (RFI) on VLBI2010

Bill Petrachenko (Natural Resources Canada)