The 5th General Meeting
of the International VLBI Service for Geodesy
and Astrometry

MEASURING THE FUTURE

March 2–6, 2008
St. Petersburg, Russia

Program
General information

The Institute of Applied Astronomy of the Russian Academy of Sciences (IAA RAS) invites the international VLBI community to attend the 5th IVS General Meeting to be held in St. Petersburg, Russia on March 2–6, 2008.

The IVS holds a technical meeting, called the General Meeting, every two years. The purpose of the meeting is to assemble representatives from all IVS components to share information, hear reports, and plan future activities. The meeting also provides a forum for interaction with other members of the VLBI and Earth science communities.

The keynote of the 5th General Meeting will be the vital contribution of VLBI to the future of global observing systems under the theme of “Measuring the Future”. VLBI is a key technique for realizing the global reference frames and studying global change by monitoring the full set of Earth orientation parameters (polar motion, dUT1, celestial pole). Required accuracy levels and long-term stability can only be guaranteed with a rejuvenated VLBI system.

The content of the meeting is of interest to the broad spectrum of IVS members as well as to the wider VLBI and Earth science community. All IVS Associate Members and individuals who have interests in the various applications and research fields of VLBI such as geodesy, astrometry, Earth sciences, and related fields are encouraged to attend the meeting and to make an oral or poster presentation. Non-IVS members are cordially invited to attend the meeting and to make a presentation.

In addition to the General Meeting, several side meetings are organized: an IVS Analysis Workshop, a VLBI2010 Working Meeting, a Working Meeting of the IERS/IVS Working Group on the Second Realization of the ICRF, and an IVS Directing Board meeting. Further, it is planned to visit the VLBI station at Svetloe Observatory, which is located about two hours north of St. Petersburg.

Program committee:

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<tr>
<th>Name</th>
<th>Institution</th>
<th>Country</th>
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Local organizing committee:

Finkelstein Andrey — chairman
Ipatov Alexander — vice-chairman
Shuygina Nadia
Skurikhina Elena
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EXTENDED SCHEDULE OF EVENTS

All events take place at Institute of Applied Astronomy, Russian Academy of Sciences. Exceptions are indicated in angular brackets.

Sunday, March 2, 2008

14:00 – 17:00 Registration
18:00 – 19:30 Icebreaker Reception [Palace of Scientists]

Monday, March 3, 2008

08:50–10:45 Opening and Session 1: VLBI – A Vital Player in Global Observing Systems
10:45–11:15 Coffee break
11:15–12:25 Session 1 (cont’d)
12:25–13:05 Session 2: Network Stations, Operation Centers, Correlators
13:05–14:30 Lunch break
14:30–16:10 Session 2 (cont’d)
16:10–16:40 Coffee break
16:40–17:20 Session 2 (cont’d)
17:20–18:30 Session 3: VLBI Data Structure, Analysis Strategies and Software
19:00–21:00 IVS WG 4 Meeting

Tuesday, March 4, 2008

09:00–10:45 Session 4: Interpretation of VLBI Results in Geodesy, Astrometry and Geophysics
10:45–11:15 Coffee break
11:15–13:00 Session 4 (cont’d)
13:00–14:30 Lunch break
14:30–16:15  Session 4 (cont’d)
16:15–16:45  Coffee break
16:45–18:30  Session 5: Progress in Technology Development and the Next Generation VLBI System
18:30–20:30  Poster session (Sessions 1-5)

**Wednesday, March 5, 2008**

09:00–10:45  Session 5: Progress in Technology Development and the Next Generation VLBI System (cont’d)
10:45–11:15  Coffee break
11:15–13:00  Session 5 (cont’d) and GM Closing
13:00–14:30  Lunch break
14:30–16:15  VLBI2010 Working Meeting WG on ICRF-2 Meeting
16:15–16:45  Coffee break
16:45–18:30  VLBI2010 Working Meeting WG on ICRF-2 Meeting
19:00–22:00  Banquet [Palace of Scientists]

**Thursday, March 6, 2008**

09:00–18:00  Excursion to Svetloe

**Friday, March 7, 2008**

09:00–10:45  IVS Analysis Workshop, Session I
10:45–11:15  Coffee break
11:15–13:00  IVS Analysis Workshop, Session II
13:00–14:30  Lunch break
14:30–16:30  IVS Analysis Workshop, Session III
16:30–17:00  Coffee break
17:00–19:00  IVS Directing Board Meeting, I

**Saturday, March 8, 2008**

08:00–10:00  IVS Directing Board [Transfer to Svetloe]
10:00–10:30  Coffee break
10:30–12:30  IVS Directing Board Meeting, II [Svetloe]
12:30–14:00  Lunch break
14:00–15:45  IVS Directing Board Meeting, III [Svetloe]
15:45–16:15  Coffee break
16:15–18:00  IVS Directing Board Meeting, IV [Svetloe]
PROGRAM

Monday, March 3, 2008

Opening

08:50–09:20  Welcome Addresses
(1) Prof. Alexander Viktorov, Minister of Science and Education, St. Petersburg Government
(2) Prof. Andrey Finkelstein, Director IAA
(3) Prof. Harald Schuh, IVS Chair

Session 1:  VLBI – A Vital Player in Global Observing Systems

Chair: Hayo Hase

09:20–09:35  1-01 IVS Report 2006-2008
Dirk Behrend (NVI, Inc./GSFC), Harald Schuh (Vienna University of Technology)

09:35–09:50  1-02 IVS Plans and Perspectives
Harald Schuh (Vienna University of Technology), Dirk Behrend (NVI, Inc./GSFC)

09:50–10:15  1-03 Synergies between VLBI and GNSS (invited)
Urs Hugentobler (FESG Munich)

10:15–10:30  1-04 Combining VLBI Intensive with GPS Rapid Solutions for Deriving a Stable UT Time Series
Daniela Thaller (GFZ Potsdam), Volker Tesmer (DGFI Munich), Rolf Dach (University of Berne), Manuela Krügel (DGFI Munich), Markus Rothacher (GFZ Potsdam), Peter Steigenberger (GFZ Potsdam)

10:30–10:45  1-05 How Can the Wettzell “G” Ringlaser Improve VLBI Measurements of Subdiurnal Earth Rotation Variations?
P.J. Mendes Cerveira (Vienna University of Technology), H. Schuh (Vienna University of Technology), T. Klügel (BKG Wettzell), A. Velikoseltsev (FESG Munich), U. Schreiber (FESG Munich)

10:45–11:15  Break

Chair: Harald Schuh

11:15–11:40  1-06 The Role of VLBI in GGOS (invited)
Markus Rothacher (GFZ Potsdam)

11:40–11:55  1-07 Search for VLBI-compact Extragalactic Radio Sources
Yuri Kovalev (MPIfR Bonn)

11:55–12:10  1-08 Multi-step VLBI Observations of Weak Extragalactic Radio Sources to Align the ICRF and the Future GAIA Frame
Géraldine Bourda (Bordeaux Observatory), Patrick Charlot (Bordeaux Observatory), Richard Porcas (MPIfR Bonn), Simon Garrington (Jodrell Bank Observatory)

12:10–12:25  1-09 Multi-Source VLBI: A New Geodetic VLBI Observing Technique
Victus N. Uzodinma (University of Nigeria)
**Session 2: Network Stations, Operation Centers, Correlators**

*Chair: Alexander Ipatov*

12:25–12:45  
Andrey Finkelstein (Institute of Applied Astronomy RAS), Alexander Ipatov (Institute of Applied Astronomy RAS), Sergey Smolentsev (Institute of Applied Astronomy RAS)

12:45–13:00  
2-02 Equipment Failures, Chronic Station Problems, and RFI: Their Effects on Geodetic VLBI Data as Seen at the Correlator  
Kerry Kingham (U.S. Naval Observatory), David Hall (U.S. Naval Observatory)

13:00–14:30  
**Lunch**

14:30–14:55  
2-03 Effects on the Geodetic-VLBI Measurables due to Polarization Leakage in the 2.3 GHz and 8.4 GHz Receivers *(invited)*  
Alessandra Bertarini (IGG Bonn), Walter Alef (MPIfR Bonn), Brian Corey (MIT Haystack Observatory), Axel Nothnagel (IGG Bonn), Craig Walker (NRAO)

14:55–15:10  
2-04 Twin Telescope Wettzell: a VLBI2010 Radio Telescope Project  
H. Hase (BKG TIGO), G. Kronschnabl (BKG Wettzell), W. Schlüter (BKG Wettzell), W. Schwarz (BKG Wettzell), R. Dassing (BKG Wettzell), R. Kilger (FESG Munich), P. Lauber (FESG Munich)

15:10–15:25  
2-05 Space Geodesy at KASI  
Younghee Kwak (KASI, Ajou University), Jungho Cho (KASI), Jong-Uk Park (KASI)

15:25–15:40  
2-06 Comparisons of Correlations Using Disk Transfer and e-VLBI Transfer  
A. Nothnagel (IGG Bonn), A. Bertarini (IGG Bonn), C. Dufler (IGG Bonn), T. Artz (IGG Bonn), J. Wagner (Metsähovi Radio Observatory), G. Molera (Metsähovi Radio Observatory), J. Ritakari (Metsähovi Radio Observatory)

*Chair: Kerry Kingham*

15:40–15:55  
2-07 Ultra-rapid UT1 Measurements with e-VLBI  
Shigeru Matsuzaka (GSI), Kozin Wada (GSI), Shinobu Kurihara (GSI), Yasuhiro Koyama (NICT), Mamoru Sekido (NICT) Rüdiger Haas (Onsala Space Observatory), Jan Wagner (Metsähovi Radio Observatory)

15:55–16:10  
2-08 The EVN MkIV Data Processor at JIVE and e-VLBI Developments in the EVN  
Bob Campbell (Joint Institute for VLBI in Europe), Arpad Szomoru (Joint Institute for VLBI in Europe)

16:10–16:40  
**Break**

16:40–16:55  
2-09 The IAA RAS 6-station VLBI Correlator  
Session 3: VLBI Data Structure, Analysis Strategies and Software

Chair: Zinovy Malkin

17:20–17:45 3-01 VLBI as a Tool to Connect Astrometry and Astrophysics (invited)
Yury Gnedin (Central Astronomical Observatory at Pulkovo RAS)

17:45–18:00 3-02 IVS Working Group 4 on VLBI Data Structures
John Gipson (NVI, Inc./GSFC)

18:00–18:15 3-03 Effects of Surface Pressure and Temperature on the VLBI Reference Frame
Robert Heinkelmann (Vienna University of Technology), Johannes Böhm (Vienna University of Technology), Harald Schuh (Vienna University of Technology)

Jinling Li (SHAO CAS)

Tuesday, March 4, 2008

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

Chair: Oleg Titov

09:00–09:25 4-01 Secular Decrease of the Earth’s Ellipticity from the Analysis of VLBI Data of 1984-2006, and the Long-term Systematic Errors of the Precession-Nutation Models IAU 2000 and IAU 2006 (invited)
George Krasinsky (Institute of Applied Astronomy RAS)

09:25–09:50 4-02 Comparisons of Precession-Nutation Models (invited)
N. Capitaine (Paris Observatory), P. M. Mathews (University of Madras), V. Dehant (Royal Observatory of Belgium), P. T. Wallace (Rutherford Appleton Laboratory), S. Lambert (Paris Observatory)

09:50–10:15 4-03 Astrophysical Stability of Radio Sources and Implication for the Realization of the Next ICRF (invited)
Pattick Charlot (Bordeaux Observatory)

10:15–10:30 4-04 Some Challenges in Developing the Second ICRF
Chopo Ma (Goddard Space Flight Center)

10:30–10:45 4-05 On Source Selection for the ICRF-2
Zinovy Malkin (Central Astronomical Observatory at Pulkovo RAS)

10:45–11:15 Break
**Chair: Rüdiger Haas**

11:15–11:30  **4-06 Selection of ‘Defining’ Sources for ICRF2**  
David Gordon (NVI, Inc./GSFC), Chopo Ma (Goddard Space Flight Center), John Gipson (NVI, Inc./GSFC), Leonid Petrov (NVI, Inc./GSFC), Dan MacMillan (NVI, Inc./GSFC)

11:30–11:45  **4-07 Systematic Effects in Apparent Proper Motions of Radio Sources**  
Oleg Titov (Geoscience Australia)

11:45–12:00  **4-08 Extending the ICRF to Higher Radio Frequencies: X/Ka-band Global Astrometric Results**  
Christopher S. Jacobs (JPL), Ojars J. Sovers (RSA Systems)

12:00–12:15  **4-09 The Impact of Source Structure on the Celestial Reference Frame at Higher Radio Frequencies**  
David Boboltz (U.S. Naval Observatory), Alan Fey (U.S. Naval Observatory), Patrick Charlot (Bordeaux Observatory)

12:15–12:30  **4-10 Results from K-band Geodetic VLBI Using VERA**  
Takaaki Jike (Mizusawa VERA Observatory, NAOJ), Seiji Manabe (Mizusawa VERA Observatory NAOJ), Yoshiaki Tamura (Mizusawa VERA Observatory, NAOJ)

12:30–12:45  **4-11 Comparison of Radio Source Positions from Individual Solutions**  
Sergei Bolotin (MAO NASU), Svitlana Lytvyn (MAO NASU)

12:45–13:00  **4-12 The Large Quasar Astrometric Catalog and the Radio-Optical Link**  
J. Souchay (Paris Observatory), S. Bouquillon (Paris Observatory), C. Barache (Paris Observatory), A.-M. Gontier (Paris Observatory), S. Lambert (Paris Observatory)

13:00–14:30  **Lunch**

**Chair: Oleg Titov**

14:30–14:45  **4-13 The Effect of Nuclear Opacity in Radio Sources on Astrometric Applications**  
Andrei Lobanov (MPIfR Bonn)

14:45–15:00  **4-14 Atmospheric Loading Coefficients Determined from Homogeneously Reprocessed Long-term GPS and VLBI Height Time Series**  
V. Tesmer (DGFI Munich), J. Böhm (Vienna University of Technology), B. Meisel (DGFI Munich), M. Rothacher (GFZ Potsdam), P. Steigenberger (GFZ Potsdam)

15:00–15:15  **4-15 Re-assessment of Ocean Tidal Terms in High-Frequency Earth Rotation Variations Observed by VLBI**  
Sigrid Englich (Vienna University of Technology), Robert Heinkelmann (Vienna University of Technology), Harald Schuh (Vienna University of Technology)

15:15–15:30  **4-16 Comparison and Validation of VLBI Derived Polar Motion Estimates**  
Thomas Artz (IGG Bonn), Sarah Böckmann (IGG Bonn), Axel Nothnagel (IGG Bonn), Volker Tesmer (DGFI Munich)

15:30–15:45  **4-17 The Variance Component Approach in the IVS Combination**  
Sarah Böckmann (IGG Bonn), Axel Nothnagel (IGG Bonn)
15:45–16:00  4-18 Combination of Nutation Time Series Derived from VLBI and GNSS  
Maria Kudryashova (Vienna University of Technology), Kristyna Snajdrova (Vienna University of Technology), Robert Weber (Vienna University of Technology), Robert Heinkelmann (Vienna University of Technology), Harald Schuh (Vienna University of Technology)

16:00–16:15  4-19 Outer and Inner Core Parameters from Joint Analysis of Superconducting Gravimeter and VLBI Data  
Severine Rosat (EOST-IPGS Strasbourg), Sébastien Lambert (Paris Observatory)

16:15–16:45  Break

Session 5: Progress in Technology Development and the Next Generation VLBI System

Chair: Bill Petrachenko

16:45–17:10  5-01 Modeling Tropospheric Delays with Atmospheric Turbulence Models (invited)  
Tobias Nilsson (Onsala Space Observatory), Rüdiger Haas (Onsala Space Observatory)

17:10–17:35  5-02 VLBI2010 Broadband Delay Demonstration (invited)  
Arthur Niell (MIT Haystack Observatory) and the BBDev Team

17:35–18:00  5-03 Progress Report on Developing Eleven Feed for VLBI2010 and SKA Frequency Bands (invited)  
Per-Simon Kildal (Chalmers University of Technology)

18:00–18:15  5-04 Composite Applications to Radio Telescopes  
Dean Chalmers (DRAO Penticton), Gordon Lacy (DRAO Penticton), Peter Dewdney (DRAO Penticton), Gary Hovey (DRAO Penticton), Bill Petrachenko (Natural Resources Canada)

18:15–18:30  5-05 DBBC Development Status  
G. Tuccari (IRA-INAF), W. Alef (MPIfR Bonn), A. Bertarini (IGG Bonn), S. Buttaccio (IRA-INAF), G. Nicotra (IRA-INAF), A. Roy (MPIfR Bonn), M. Wunderlich (MPIfR Bonn)

Poster Sessions

18:30–20:30  Poster Sessions
**Wednesday, March 5, 2008**

**Session 5:** Progress in Technology Development and the Next Generation VLBI System (cont’d)

**Chair: Arthur Niell**

09:00–09:15  **5-06 Progress of Wideband VLBI Digital System Development at SHAO**  
Xiuzhong Zhang (Shanghai Astronomical Observatory)

09:15–09:30  **5-07 The Mark 5C VLBI Data System**  
Alan Whitney (MIT Haystack Observatory)

09:30–09:45  **5-08 Mark 5C Software Development Program**  
Chester Ruszczyk (MIT Haystack Observatory)

09:45–10:00  **5-09 Development of a Compact VLBI System for Providing over 10 km Baseline Calibration**  
R. Ichikawa (NICT), A. Ishii (NICT), H. Takiguchi (NICT), H. Kuboki (NICT), M. Kimura (NICT), J. Nakajima (NICT), Y. Koyama (NICT), T. Kondo (NICT), M. Machida (GSI), S. Kurihara (GSI), K. Kokado (GSI), S. Matsuzaka (GSI)

10:00–10:15  **5-10 Developments of an Automated Data Processing System for Ultra Rapid dUT1 e-VLBI Sessions**  
Yasuhiro Koyama (NICT), Mamoru Sekido (NICT), Thomas Hobiger (NICT), Hiroshi Takiguchi (NICT), Tetsuro Kondo (NICT)

10:15–10:30  **5-11 VLBI2010 Antenna Slew Rate Study**  
Bill Petrachenko (Natural Resources Canada), Johannes Böhm (Vienna University of Technology), Daniel MacMillan (NVI, Inc./GSFC), Andrea Pany (Vienna University of Technology), Toni Searle (Natural Resources Canada), Jörg Wresnik (Vienna University of Technology)

10:30–10:45  **5-12 Simulation Analysis of the Geodetic Performance of Networks of VLBI2010 Stations**  
Daniel MacMillan (NVI, Inc./GSFC)

10:45–11:15  **Break**

**Chair: Bill Petrachenko**

11:15–11:30  **5-13 VLBI2010 Simulations at IGG Vienna**  
Jörg Wresnik (Vienna University of Technology), Johannes Böhm (Vienna University of Technology), Andrea Pany (Vienna University of Technology), Harald Schuh (Vienna University of Technology)

11:30–11:45  **5-14 Vienna VLBI2010 PPP Simulations**  
Andrea Pany (Vienna University of Technology), Jörg Wresnik (Vienna University of Technology), Johannes Böhm (Vienna University of Technology), Harald Schuh (Vienna University of Technology)

11:45–12:00  **5-15 The Square Kilometre Array in the Context of IVS Science**  
Leonid Gurvits (Joint Institute for VLBI in Europe)

12:00–12:15  **5-16 VLBI Observation of SELENE (KAGUYA) with VERA and with an International VLBI Network**  
Hideo Hanada (NAOJ), Takahiro Iwata (JAXA), Nobuyuki Kawano (NAOJ), Noriuki Namiki (Kyushu University), Kazuyoshi Asari (NAOJ),
Yoshiaki Ishihara (NAOJ), Toshiaki Ishikawa (NAOJ), Fuyuhiko Kikuchi (NAOJ), Qinghui Liu (NAOJ), Koji Matsumoto (NAOJ), Hirotomo Noda (NAOJ), Seiitsu Tsuruta (NAOJ), Sander Goossens (NAOJ), Natalia Petrova (NAOJ), Sho Sasaki (NAOJ), Kenzaburo Iwadate (NAOJ), Takaaki Jike (NAOJ), Osamu Kameya (NAOJ), Katsunori Shibata (NAOJ), Yoshiaki Tamura (NAOJ), Xiaoyu Hong (SHAO), Jinsoong Ping (SHAO), Yusufu Aili (Urumqi Observatory), Simon Ellingson (University of Tasmania), Wolfgang Schlüter (BKG Wettzell)

12:15–12:30  5-17 VLBI and Precise Navigation in Space
V. E. Zharov (Sternberg State Astronomical Institute), L. I. Matveenko (Space Research Institute of RAN)

12:30–12:45  5-18 On the Space VLBI Mathematical Model with Nutation Parameters
Erhu Wei (Wuhan University), Jingnan Liu (Wuhan University), Vincenza Tornatore (Politecnico di Milano), Chuang Shi (Wuhan University)

Closing
12:45–13:00  Closing Remarks
Harald Schuh, Vienna University of Technology

13:00–14:30  Adjourn GM and Lunch

Splinter Meetings
14:30–16:15  VLBI2010 Working Meeting
WG on ICRF-2 Meeting

16:15–16:45  Break
16:45–18:30  VLBI2010 Working Meeting
WG on ICRF-2 Meeting
18:30–19:00  Adjourn Splinter Meetings
19:00–22:00  Banquet [Palace of Scientists]
Posters

Session 1P: VLBI – A Vital Player in Global Observing Systems

1-01P High Resolution Atmosphere Angular Momentum Time Series for Continuous VLBI Campaigns
Johannes Böhm (Vienna University of Technology), Paulo Jorge Mendes Cerveira (Vienna University of Technology), Sigrid Englisch (Vienna University of Technology), Harald Schuh (Vienna University of Technology)

1-02P Astrometry of the Solar System Bodies with VLBI Radar
Igor Molotov (Central Astronomical Observatory at Pulkovo), Maria Nechaeva (Radiophysical Research Institute, Russia), Igor Falkovich (Institute of Radio Astronomy, Ukraine), Vladimir Agapov (Keldysh Institute of Applied Mathematics, Russia), Gino Tuccari (Istituto di Radioastronomia), Giuseppe Pupillo (Università di Bologna), Stelio Montebugnoli (Istituto di Radioastronomia), Gennadiy Kharlamov (Special Research Bureau, Russia), Lance Benner (Jet Propulsion Laboratory), Viacheslav Fateev (International Vimpel Corporation, Russia), Alexander Volvach (Crimean Astrophysical Observatory), Xiang Liu (Urumqi Astronomical Observatory), Ivars Shmelds (Institute of Astronomy, Latvia), Alexander Dementiev (Radiophysical Research Institute, Russia), Nikolay Dugin (Radiophysical Research Institute, Russia), Vladimir Jazykov (Central Astronomical Observatory at Pulkovo)

Session 2P: Network Stations, Operation Centers, Correlators

2-01P Single Dish Radiometric Observations of Geodetic Sources on Radio Telescopes of the QUASAR Network
Mikhail Kharinov (Institute of Applied Astronomy RAS), Andrey Mikhailov (Institute of Applied Astronomy RAS)

2-02P An Automatic System for Monitoring Hydrogen Standards in the QUASAR VLBI Network
Dmitriy Ivanov (Institute of Applied Astronomy RAS), Aleksandr Vytnov (Institute of Applied Astronomy RAS)

2-03P Local Ties Between Co-located Space Geodetic Instruments at the QUASAR Network Observatories
Iskander Gayazov (Institute of Applied Astronomy RAS), Elena Skurikhina (Institute of Applied Astronomy RAS)

2-04P Australian–New Zealand Geodetic VLBI Network Project
Oleg Titov (Geoscience Australia), Sergei Gulyaev (Auckland University of Technology), Jim Lovell (University of Tasmania), John Dickey (University of Tasmania)

2-05P The CVN in Geodesy: Experiments, Results and Activities in the Near Future
Guangli Wang (Shanghai Astronomical Observatory)

2-06P Status of the Setup of the New 40-m Radiotelescope at Yebes (Spain) for Geodetic VLBI
F. Colomer (OAN Yebes), J. Gómez-González (Instituto Geográfico Nacional), J.A. López-Fernández (OAN Yebes), P. de Vicente (OAN Yebes), R. Bachiller (OAN Yebes), S. García-Espada (OAN Yebes)

2-07P Onsala Space Observatory – IVS Network Station
Rüdiger Haas (Onsala Space Observatory), Gunnar Elgered (Onsala
2-08P VLBI Activities of Tsukuba 32-m Station and Tsukuba Correlator
Shigeru Matsuzaka (GSI), Kozin Wada (GSI), Etsuro Iwata (GSI), Hiromi Shigematsu (GSI), Shinobu Kurihara (GSI), Morito Machida (GSI), Kensuke Kokado (GSI), Daisuke Tanimoto (AES/GSI), Kentarou Nozawa (AES/GSI)

2-09P The Past Decade of Tsukuba 32-m VLBI Station
Shigeru Matsuzaka (GSI), Kozin Wada (GSI), Etsuro Iwata (GSI), Hiromi Shigematsu (GSI), Shinobu Kurihara (GSI), Morito Machida (GSI), Kensuke Kokado (GSI), Daisuke Tanimoto (AES/GSI), Kentarou Nozawa (AES/GSI), Kazuhiro Takashima (College of Land, Infrastructure and Transport), Yoshihiro Fukuzaki (GSI)

2-10P Geodetic VLBI Prospects for Irbene Station
Karlis Berzins (University of Latvia)

2-11P Matera Site Survey and VLBI Invariant Point Determination
Roberto Lanotte (CGS/Telespazio), Giuseppe Bianco (CGS/ASI)

2-12P Space Geodesy at Yebes: Station Motion from VLBI and GPS
S. Garcia-Espada (OAN Yebes, Onsala Space Observatory), R. Haas (Onsala Space Observatory), F. Colomer (OAN Yebes)

2-13P Variations in the Integral Fluxes and Parsec-Scale Structure of Geodetic VLBI Sources
A.E. Volvach (Crimean Astrophysical Observatory), A.B. Pushkarev (Crimean Astrophysical Observatory), L.N. Volvach (Crimean Astrophysical Observatory), H.D. Aller (University of Michigan), M.F. Aller (University of Michigan)

3-01P Improved Estimation in VLBI through Better Modeling and Analysis
John Gipson (NVI, Inc./GSFC), Dan MacMillan (NVI, Inc./GSFC), Leonid Petrov (NVI, Inc./GSFC)

3-02P Data Analysis at BKG in the Frame of IVS
Volkmar Thorandt (BKG Leipzig), Gerald Engelhardt (BKG Leipzig)

3-03P The GSFC VLBI Analysis Center
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Andrey Finkelstein (Institute of Applied Astronomy RAS), Elena Skurikhina (Institute of Applied Astronomy RAS), Igor Surkis (Institute of Applied Astronomy RAS), Alexander Ipatov (Institute of Applied Astronomy RAS), Ismail Rahimov (Institute of Applied Astronomy RAS), Sergey Smolentsev (Institute of Applied Astronomy RAS)

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Natalia Miller (Central Astronomical Observatory at Pulkovo RAS), Zinovy Malkin (Central Astronomical Observatory at Pulkovo RAS)

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Sergey Kurdubov (Institute of Applied Astronomy RAS), Elena Skurikhina (Institute of Applied Astronomy RAS)

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Julia Sokolova (Pulkovo Observatory RAS), Zinovy Malkin (Pulkovo Observatory RAS)

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Julia Sokolova (Pulkovo Observatory RAS), Zinovy Malkin (Pulkovo Observatory RAS), Robert Heinkelmann (Vienna University of Technology), Harald Schuh (Vienna University of Technology)

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Sébastien Lambert (Paris Observatory), Christophe Le Poncin-Lafitte (Technical University Dresden)

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Dan Smythe (MIT Haystack Observatory)

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Tomoaki Oyama (Mizusawa VERA Observatory), Yusuke Kono (Mizusawa VERA Observatory), Tetsuya Hara (Mizusawa VERA Observatory), Noriyuki Kawaguchi (Mizusawa VERA Observatory)

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List of Institutions

1. Agenzia Spaziale Italiano (Italy)
2. Ajou University (Korea)
3. All-Russian Research Institute of Physical-Technical and Radio-Technical Measurements (Russia)
4. Astro Space Center of Lebedev Physical Institute (Russia)
5. Bundesamt für Kartographie und Geodäsie – Leipzig (Germany)
6. Bundesamt für Kartographie und Geodäsie – TIGO (Chile)
7. Bundesamt für Kartographie und Geodäsie – Wettzell (Germany)
8. Central Astronomical Observatory at Pulkovo of the Russian Academy of Sciences (Russia)
9. Centro di Geodesia Spaziale (Italy)
10. Chalmers University of Technology (Sweden)
11. Crimean Astrophysical Observatory (Russia)
12. Deutsches Geodätisches Forschungsinstitut (Germany)
13. Dominion Radio Astrophysical Observatory (Canada)
14. Forschungseinrichtung Satellitengeodäsie (Germany)
15. Geodätisches Institut der Universität Bonn (Germany)
16. GeoForschungsZentrum Potsdam (Germany)
17. Geographical Survey Institute (Japan)
18. Geoscience Australia (Australia)
19. Haystack Observatory (USA)
20. Hitotsubashi University (Japan)
21. Institut für Geodäsie und Geoinformation (Germany)
22. Institute of Applied Astronomy of the Russian Academy of Sciences (Russia)
23. Institute of Geodesy and Geophysics (Austria)
24. Institute of Radio Astronomy (Ukraine)
25. Instituto di Radioastronomia (Italy)
26. Instituto Geográfico Nacional (Spain)
27. Instituto Nazionale di Astrofisica (Italy)
28. International Vimpel Corporation (Ukraine)
29. Japan Aerospace Exploration Agency (Japan)
30. Jet Propulsion Laboratory (USA)
31. Jodrell Bank Observatory (United Kingdom)
32. Joint Institute for VLBI in Europe (The Netherlands)
33. Kagoshima University (Japan)  
34. Kashima Space Research Center (Japan)  
35. Keldysh Institute of Applied Mathematics of the Russian Academy of Sciences (Russia)  
36. Korea Astronomy and Space Science Institute (Korea)  
37. Kyushu University (Japan)  
38. Main Astronomical Observatory of National Academy of Sciences Ukraine (Ukraine)  
39. Massachusetts Institute of Technology (USA)  
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41. Metsähovi Radio Observatory (Finland)  
42. Mizusawa VERA Observatory (Japan)  
43. Nanjing University (China)  
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46. National Institute of Information and Communications Technology (Japan)  
47. National Radio Astronomy Observatory (USA)  
48. Natural Resources Canada (Canada)  
49. Norwegian Mapping Authority (Norway)  
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51. Observatoire de Paris (France)  
52. Observatório Astronómico Nacional (Spain)  
53. Onsala Space Observatory (Sweden)  
54. Politecnico di Milano (Italy)  
55. Purple Mountain Observatory (China)  
56. Radiophysical Research Institute (Russia)  
57. Royal Observatory of Belgium (Belgium)  
58. Rutherford Appleton Laboratory (United Kingdom)  
59. Shanghai Astronomical Observatory of the Chinese Academy of Sciences (China)  
60. Space Research Institute of the Russian Academy of Sciences (Russia)  
61. Special Research Bureau (Russia)  
62. Sternberg State Astronomical Institute (Russia)  
63. Technische Universität Dresden (Germany)  
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65. U.S. Naval Observatory (USA)  
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