



Welcome & & & Chair's Report

Harald Schuh, IVS Chair harald.schuh@tuwien.ac.at



In Memoriam

Anne-Marie Gontier, 1966-2010



Andrey Finkelstein,



Major IVS Meetings (since 2010)





- 6th IVS General Meeting (GM2010)
 - 7-13 February 2010, Hobart, TAS, Australia
- 20th European VLBI for Geodesy and Astrometry (EVGA) Working Meeting & 12th IVS Analysis Workshop
 - 29-31 March 2011, Bonn, Germany
- 6th IVS Technical Operations Workshop (TOW2011)
 - 9-12 May 2011, MIT Haystack Observatory, MA, USA
- IVS Directing Board Retreat
 - 21-23 September 2011, Hohe Wand, Austria
- VLBI2010 Workshop on Technical Specifications
 - 1-2 March 2012, Bad Kötzting, Germany
- 7th IVS General Meeting
 - 4-9 March 2012, Madrid, Spain



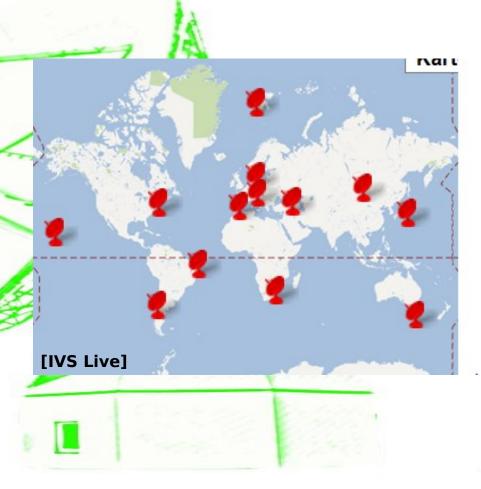
Highlight: CONT11





- September 15-29, 2011
- 0-24 UT observation days
- 15 days, 13 stations
- continuous VLBI
- correlation at USNO finished recently
- Remote-control of several radio telescopes allowed

unattended operation (e.g. during nights)

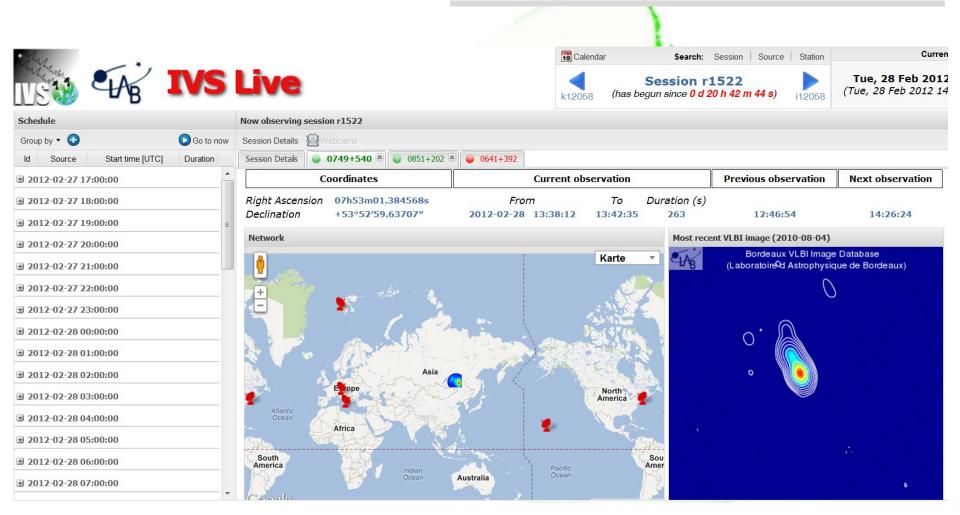




IVS Live







http://ivslive.obs.u-bordeaux1.fr/



IVS Retreat & 26th Board Meeting





- 21-23 September, Hohe Wand, Austria
- "Hohe Wand Declaration"
- New Directing Board (Feb 2011)

Position	Term	Name	Affiliation	Country
IAG Representative, Chair	ex officio	Harald Schuh	Technical University Vienna	Austria
IAU Representative	ex officio	Patrick Charlot	Bordeaux Observatory	France
IERS Representative	ex officio	Chopo Ma	NASA Goddard Space Flight Center	USA
Coordinating Center Director	ex officio	Dirk Behrend	NVI, Inc./Goddard Space Flight Center	USA
Analysis Coordinator	permanent	Axel Nothnagel	Institut für Geodäsie und Geoinformation der Universität Bonn	Germany
Technology Coordinator	permanent	Alan Whitney	Haystack Observatory	USA
Network Coordinator	permanent	Ed Himwich	NVI, Inc./Goddard Space Flight Center	USA
Networks Representative	Feb 2009 to Feb 2013	Gino Tuccari	Istituto di Radioastronomia INAF	Italy
Networks Representative	Feb 2011 to Feb 2015	Hayo Hase	Bundesamt für Kartographie und Geodäsie, TIGO	Germany/Chile
Correlators and Operation Centers Representative	Feb 2011 to Feb 2015	Alessandra Bertarini	IGG Bonn, Max Planck Institute for Radio Astronomy	Germany
Analysis and Data Centers Representative	Feb 2009 to Feb 2013	Oleg Titov	Geoscience Australia	Australia
Technology Development Centers Representative	Feb 2009 to Feb 2013	Rüdiger Haas	Onsala Space Observatory, Chalmers University of Technology	Sweden
At Large Member	Feb 2011 to Feb 2013	Jesús Gómez González	National Geographical Institute of Spain	Spain
At Large Member	Feb 2011 to Feb 2013	Shinobu Kurihara	Geospatial Information Authority of Japan	Japan
At Large Member	Feb 2011 to Feb 2013	Fengchun Shu	Shanghai Astronomical Observatory	China







Hohe Wand Declaration







Declaration of the Participants of the IVS Retreat at Hohe Wand, Austria from 21–22 September 2011

We, the eighteen participants of the IVS Retreat at Hohe Wand, met on 21-22 September 2011 to review the IVS organization and its mandate, functions, and components as well as to define focus areas for future IVS work and activities. We

recognize

- that the global framework for geodetic activities has evolved since the inception of the service through the establishment of the Global Geodetic Observing System (GGOS);
- that the IVS data and products are also GGOS data and products;
- that the increased requirement, as mandated by GGOS, for position accuracy of 1 mm and velocity accuracy of 0.1 mm/year by the year 2020 can only be achieved by the next generation VLBI system (VLBI2010);
- that the IVS organization, mandate, functions, and components as outlined in the IVS Terms
 of Reference (ToR) in general continue to fulfill the requirements of the global
 geodetic/astrometric VLBI science and user communities; and
- that the ToR needed updating for the inclusion of the GGOS and the augmentation of the IVS
 Directing Board by a second Analysis Center representative;

recommend

- that the updated ToR be approved by the IVS Directing Board and the IAG Executive Committee:
- that the development of the next generation VLBI system be advanced and that the corresponding VLBI2010 infrastructure be established on a global basis;
- that the quality control of VLBI data and products be improved;
- that internal and external outreach activities be enhanced;
- that real-time observation and product creation (including automation) be advanced to an
 operational state; and
- that research and research fields be expanded.

Hohe Wand, Austria 22 September 2011



H. Schuh Welcome & Chair's Report

New Components





Analysis Centers

- GSI, Tsukuba as new Operational Analysis Center
- Norwegian Mapping Authority (NMA) and Politecnico di Milano, Italy as new Associate Analysis Centers
- Institute of Geodesy and Geophysics, TU Wien, Austria as new Special Analysis Center for Specific Observing Sessions, SAC-SOS)

Network Stations

- Parkes CSIRO Radio Telescope
- Sejong station, Korea, proposal received last week

Correlator

- Shanghai Correlator, proposal received last week



Publications





IVS Annual Reports

- 2009, 2010
- print and electronic versions

General Meeting Proceedings

- GM2010 (NASA Conference Publication)
- electronic versions on IVS web site

· IVS Newsletter

- tri-annual issues
- paper copies mailed to IVS community
- online version





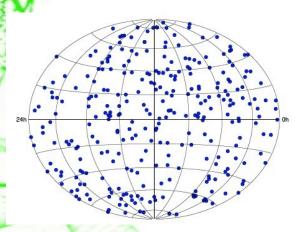


2nd Realization of the International Celestial Reference Frame (ICRF2)



- . Work of IERS/IVS working group on ICRF2
- . Compared to the original ICRF:
 - 14 years additional observations
 - Utilizes numerous advances in observing, analysis and modeling techniques
 - 5 times as many sources (3414)
 - Noise floor 5-6 times lower (40 micro arc sec)
 - Axis stability 2 times better (10 micro arc sec)
- . Adopted at IAU General Assembly (2009)
 - ICRF2 resolution adopted unanimously
 - _ ICRF2 became the Fundamental Astrometric Reference Frame on 01 January 2010
 - Adopted also by IAG and IUGG at IUGG General Assembly in Melbourne (July, 2011)







VLBI measuring rapid plate tectonics

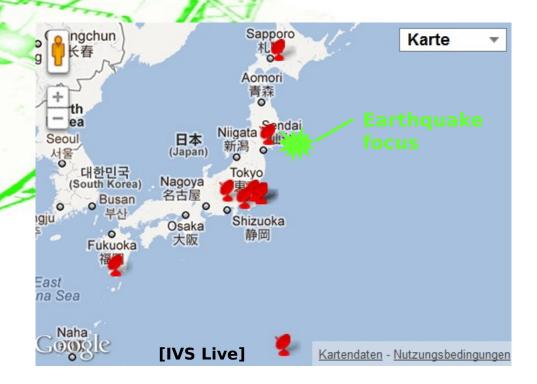




IVS-antennas close to earthquake foci

- 2010 Feb. 27, Concepción (Chile), M 8.8
- 2011 Mar. 11, Tohoku (Japan), M 9.0





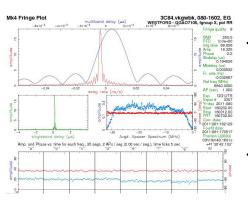


VLBI2010: Next Generation VLBI System









Progress Report of the VLBI2010 Committee

- "Design Aspects of the VLBI2010 System"
 - NASA/TM-2009-214180
- VLBI2010 Project Executive Group
 - Strategic leadership
 - Network station survey
- Workshop on Frequencies and Feeds
- **VLBI2010 network growing** (e.g., Wettzell, Hobart, Yarragadee, Katherine, Warkworth, Goddard)
- On the way to the VLBI2010 System (broadband phase delay observation): proof-of-concept development project of NASA, first fringes observed on Oct. 2011. between Westford and Goddard (16 Gbps, Mark 6)
- Workshop on VLBI2010 Technical Specifications, Bad Kötzting, March,1-2, 2012

IVS - ICSU World Data System





- The IVS has been accepted for WDS membership by August 2011
- First ICSU World Data System conference "Global Data for Global Science"; September 3-6 2011, Kyoto (Japan)
- Citation capability for VLBI and the IVS

FAGS Federation of Astronomical and Geophysical Data Analysis Services WDC World Data Center System ICSU-WDS ernational Council for e- World Data System



Promising new projects





- Several new VLBI2010 sites will be realized in near future:
- RAEGE (keynote speech J. Gómez-González)
- · GSI, Tsukuba
- · FGI, Metsähövi
- · NMA, Ny Alesund
- Kasan + Moscow universities

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IVS Chair / IAG Vice-President





- in March 2011 Harald Schuh got elected on his second term as IVS Chair
- · in July 2011 HS got elected as IAG Vice-President
- according to an IAG "rule" the VP may not chair any other IAG entity
- since August 2011 HS is "Acting Chair" of the IVS until the next IVS Directing Board election (2012/2013)
- in spring 2013 the next IVS Chair will be appointed



Keynote Speaker





- Hansjörg Kutterer
- New President of BKG since May 2011
- Chair of GGOS (Global Geodetic Observing System) since2011





Thank You!





Program Committee:

Dirk Behrend Alessandra Bertarini Jesús Gómez González Hayo Hase Ed Himwich Shinobu Kurihara Arthur Niell Axel Nothnagel Bill Petrachenko Fengchun Shu Oleg Titov Gino Tuccari Alan Whitney

Local Organizing Committee:

Francisco Colomer (Chair)

Susana Garcia-Espada Alvaro Santamaria

Pablo de Vicente Marta Calvo

and of course also: Jesús Gómez González



Some statistics about the





IVS GM



participants: ~ 150 countries: ~ 25 institutions: ~ 65 abstracts submitted: ~ 120 oral presentations: ~ 60 poster presentations: ~ 50



Let's kick off!





