

GGOS Report

presented by
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California Institute of Technology
Pasadena, CA 91109–8099, USA

International Earth Rotation and Reference Systems Service
Directing Board Meeting No. 69

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San Francisco, California



Jet Propulsion Laboratory
California Institute of Technology

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New Structure

Changes to GGOS Structure

• Chair

• Basara Miyahara, GSI, Japan

- Appointed by IAG Executive Committee following search conducted by GGOS

• Also known as GGOS President (adopted by IAG EC)

- The President of GGOS is the Chair of the GGOS Coordinating Board
- The President of GGOS is also known as the Chair of GGOS

• Vice Chair

• Laura Sánchez, DGFI-TUM, Germany

- Selected by GGOS Chair (Basara Miyahara)
- Approved by GGOS Coordinating Board

• Consortium

• Representatives of Services, Commissions, ICCs, Affiliates

- BIPM no longer represented since it is no longer considered to be an IAG Service

New GGOS Consortium

Services	
Int'l Gravimetric Bureau (BGI)	Sylvain Bonvalot Sean Bruinsma
International Centre for Global Earth Models (ICGEM)	E. Sinem Ince
International Doris Service (IDS)	Laurent Soudarin Frank Lemoine
International Earth Rotation and Reference Systems Service (IERS)	Daniela Thaller Robert Heinkelmann
International Service for Geoid (ISG)	Urs Marti Jianliang Huang
International Gravity Field Service (IGFS)	Riccardo Barzaghi Georgios Vergos
International GNSS Service (IGS)	Nicholas Brown Arturo Villiger
The International Laser Ranging Service (ILRS)	Toshimichi Otsubo Erricos Pavlis
International VLBI Service for Geodesy and Astrometry (IVS)	Axel Nothnagel Dirk Behrend
Permanent Service for Mean Sea Level (PSMSL)	Elizabeth Bradshaw Andy Matthews
International Geodynamics and Earth Tides Service (IGETS)	Christoph Foerste Hartmut Wziontek

Commissions	
Commission 1: Reference Frames	Christopher Kotsakis Tonie van Dam
Commission 2: Gravity Field	Adrian Jäggi Mirko Reguzzoni
Commission 3: Earth Rotation and Geodynamics	Janusz Bogusz Chengli Huang
Commission 4: Positioning and Applications	Paweł Wielgosz Michael Schmidt
ICC (Inter Commission Committee)	
ICC on Theory	Pavel Novák Dimitrios Tsoulis
ICC on Climate Research	Anette Eicker Carmen Boening
ICC on Marine Research	Yuanxi YANG Heidrun Kopp
GGOS Affiliates	
GGOS Japan	Yusuke YOKOTA

Total: 36

Changes to GGOS Structure, cont.

- **Coordinating Board**

- **Consortium elects**

- 4 Service reps, 2 Commission and ICC reps, 1-2 Affiliate rep(s)
- Representatives elected to CB must be members of the Consortium
- Except for Affiliate representative(s) which must be member(s) of Affiliate(s)

- **Coordinating Board elects**

- 3 members-at-large to increase diversity (geographic, gender, discipline)

GGOS Coordinating Board (2019–2023)

President	Voting	Basara Miyahara
Vice President	Voting	Laura Sánchez
Chair, Science Panel	Voting	Kosuke Heki
Director, Coordinating Office	Voting	Martin Sehnal
Manager, External Relations	Voting	Allison Craddock
Director, Bureau of Networks & Observations	Voting	Mike Pearlman
Director, Bureau of Products and Standards	Voting	Detlef Angermann
Representative, GGOS Affiliate	Voting	Toshi Otsubo
Representative, IAG President	Voting	Zuheir Altamimi
Representatives (4), IAG Services	Voting	Riccardo Barzaghi
	Voting	Sean Bruinsma
	Voting	Robert Heinkelmann
	Voting	Daniela Thaller
Representatives (2), IAG Commissions & ICCs	Voting	Adrian Jäggi
	Voting	Tonie van Dam
Members-at-Large (3)	Voting	Nick Brown
	Voting	Ludwig Combrinck
	Voting	Maria Cristina Pacino
Chair, Committee on Satellites & Space Missions	Non-Voting	Roland Pail
Chair, Committee on Data & Information Systems	Non-Voting	Martin Sehnal
Chair, GGOS Committee / IAG WG on PLATO	Non-Voting	Daniela Thaller
Chair, Committee on Earth System Modeling	Non-Voting	Maik Thomas
Chair, Committee on Essential Geodetic Variables	Non-Voting	Richard Gross
Chair, Working Group on Establishment of the GGRF	Non-Voting	Urs Marti
Chair, Working Group on DOIs for Geodetic Data Sets	Non-Voting	Kirsten Elger
Lead, Focus Area on Unified Height System	Non-Voting	Laura Sánchez
Lead, Focus Area on Geohazards	Non-Voting	John LaBrecque
Lead, Focus Area on Space Weather Research	Non-Voting	Michael Schmidt
Immediate Past Chair of GGOS	Non-Voting	Richard Gross

Changes to GGOS Structure, cont.

- Executive Committee

- Chair appoints

- 2 voting members of CB to be CB representatives to Executive Committee
 - 1 represents the Services
 - 1 represents the Commissions
- Subject to approval by Coordinating Board

GGOS Executive Committee

(2019–2023)

President	Member	Basara Miyahara
Vice President	Member	Laura Sánchez
Director, Coordinating Office	Member	Martin Sehnal
Manager, External Relations	Member	Allison Craddock
Director, Bureau of Networks & Observations	Member	Mike Pearlman
Director, Bureau of Products and Standards	Member	Detlef Angermann
Representative, IAG Services	Member	TBD
Representative, IAG Commissions	Member	TBD
Chair, Science Panel	Guest	Kosuke Heki
Representative, IAG President	Guest	Zuheir Altamimi
Immediate Past Chair of GGOS	Guest	Richard Gross

Changes to GGOS Structure, cont.

- Focus Area on Geohazards
 - Application of geodetic techniques to improve tsunami warning
 - John LaBrecque intends to resign as lead
 - Search for new lead ongoing
- Focus Area on Sea Level
 - Application of geodetic techniques to mitigate or adapt to sea level change hazards
 - Tilo Schöne resigned as lead effective 01 October 2018
 - Search for new lead and/or topic of Focus Area not successful
 - Has been dissolved

Changes to GGOS Structure, cont.

- **Representatives to other organizations**
 - **International Earth Rotation and Reference Systems Service**
 - Richard Gross (JPL, USA)
 - **IGAG Inter-Commission Committee on Climate Research**
 - Mayra Oyola (JPL, USA)
 - **IGAG Inter-Commission Committee on Marine Geodesy**
 - Marie Françoise Lalancette-Lequentree (SHOM, Brest, France)
 - Yusuke Yokota (University of Tokyo, Japan)
 - **Committee on Earth Observation Satellites (CEOS)**
 - GGOS is an Associate Member of CEOS
 - Allison Craddock and Richard Gross are the GGOS representatives to CEOS
 - **All representatives approved by GGOS Coordinating Board**

Changes to GGOS Structure, cont.

- Representatives to other organizations, cont.
 - Group on Earth Observations (GEO)
 - IAG is a Participating Organization in GEO and a member of its Program Board
 - Allison Craddock and Richard Gross are the IAG representatives to GEO

Changes to GGOS Structure, cont.

- Bureau of Products and Standards
 - Working Group on ITRS Standards for ISO TC 211
 - Will not continue because work has been completed
 - Working Group on the Establishment of the GGRF
 - Will continue but with new focus

Changes to GGOS Structure, cont.

- Coordinating Office

- Director

- Martin Sehnal replaces Helmut Titz as Director

- Working Group on DOIs for Geodetic Data Sets

- Newly formed
 - Chaired by Kirsten Elger, GFZ, Germany

DOIs for Data Working Group

GGOS

Detlef Angermann
Yusuke Yokota

IERS

Daniela Thaller

IGS

Yehuda Bock
Carine Bruyninx
Pierre Fridez
Carey Noll
David Phillips
Nacho Romero

IVS

Roelf Botha
Glenda Coetzer
Carey Noll

IDS

Carey Noll
Laurent Soudarin

ILRS

Carey Noll
Christian Schwatke

IGFS

Sylvain Bonvalot
Daniela Carrion
Mirko Reguzzoni
E. Sinem Ince

OTHERS

Kirsten Elger (Chair) GFZ
France Morin, NRCAN
Elizabeth Bradshaw, PSMSL

Total: 20

Meetings

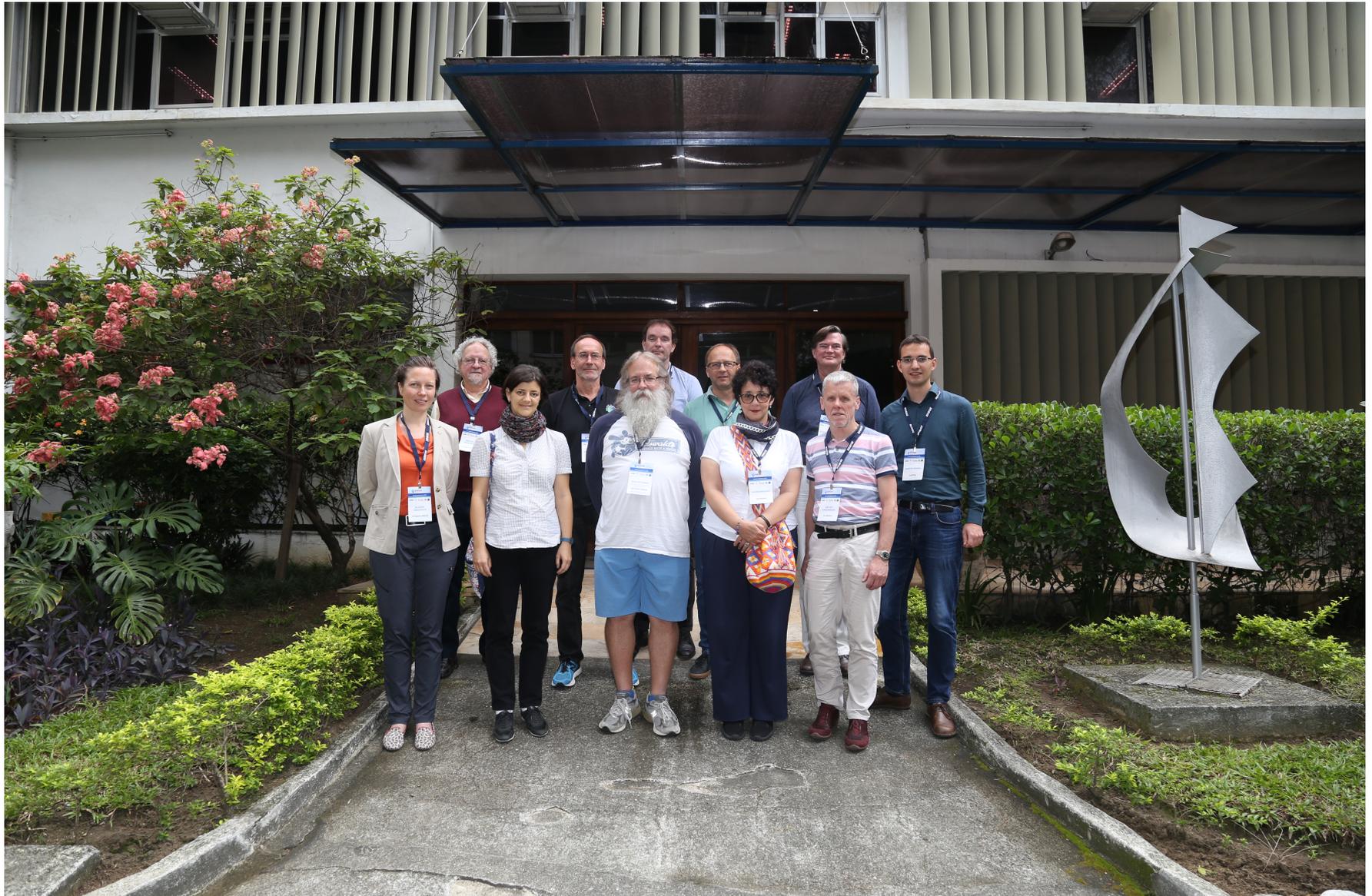
Past Meetings

- **Unified Analysis Workshop**
 - **Jointly organized by GGOS and IERS**
 - 2-4 October 2019; IPGP, Paris, France
- **GGOS Days 2019**
 - **Held in conjunction with SIRGAS Symposium**
 - 12-14 November 2019; IBGE, Rio de Janeiro, Brazil
- **American Geophysical Union**
 - **GGOS session merged with real-time GNSS session**
 - Title: Real-Time High-Accuracy GNSS Positioning: Error Modeling, Applications, and Incubation of New Initiatives
 - Orals: G13A; Monday, December 9; 13:40–15:40; Moscone South – 160
 - Posters: G23B; Tuesday, December 10; 13:40–18:00; Moscone South Poster Hall

Future Meetings

- European Geosciences Union
 - GGOS session
 - The Global Geodetic Observing System: Improving Infrastructure for Future Science
 - Abstracts due 15 January 2019
- GGOS Days 2020
 - 5-9 October 2020; TU Munich (tentative)

GGOS Days 2019



12-14 November 2019

IBGE, Rio de Janeiro, Brazil

