

## 2019 GEO Programme Board Members and Representatives

Member / PO	Type	First Name	Last Name	Status	Email	Professional Affiliation
Australia	M	Jonathan	Ross	Principal	jonathon.ross@ga.gov.au	Director of National Earth Observation Planning and International Relations, Geoscience Australia
Australia	M	Andy	Steven	Alternate	Andy.Steven@csiro.au	Research Director- Coasts, Oceans & Atmosphere, Commonwealth Scientific and Industrial Research Organization (CSIRO), Australia
Cambodia	M	Kimhor	Meng	Principal	kimhormeng@gmail.com mengkimhor2@hotmail.com mengkimhor@hotmail.com	Deputy Director General, National Institute of Statistics, Ministry of Planning
Canada	M	Cathy	Nielsen	Principal	cathy.nielsen@canada.ca	Director, Landscape Science and Technology, Science and Technology Branch, Environment and Climate Change Canada (ECCC)
Canada	M	Marie-Josée	Bourassa	Alternate	marie-josée.bourassa@canada.ca	Director/A, Planning and Engagement, Space Utilization Branch, Canadian Space Agency
China	M	Xingfa	Gu	Principal	guxingfa@radi.ac.cn	Professor and Deputy Director General, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences (CAS)
China	M	Xinming	Tang	Alternate	txm@sasmac.cn tangxinming99@qq.com	Deputy Director General, Satellite Surveying and Mapping Application Center, National Administration of Surveying, Mapping and Geoinformation
European Commission	M	Alessandro	Annoni	Principal	alessandro.annoni@ec.europa.eu	Head, Digital Economy Unit, European Commission's Joint Research Centre (JRC)
European Commission	M	Max	Craglia	Alternate	massimo.craglia@jrc.ec.europa.eu	Scientific Project Manager, Digital Economy Unit, European Commission's Joint Research Centre (JRC)
European Commission	M	Stefano	Salvi	Alternate	stefano.salvi@ingv.it	Technological Director, Centro Nazionale Terremoti Istituto Nazionale di Geofisica e Vulcanologia
European Commission	M	Stefano	Nativi	Alternate	stefano.nativi@cnr.it	Head of Florence Division, Institute of Atmospheric Pollution Research of the National Research Council of Italy (CNR-IIA) Visiting Scientist, European Commission – Joint Research Centre of Ispra
Finland	M	Petteri	Vihervaara	Principal	petteri.vihervaara@ymparisto.fi	Head of Unit and Leading Scientist, Finnish Environment Institute (SYKE)
Finland	M	Saku	Anttila	Alternate	saku.anttila@ymparisto.fi	Development Manager, Finnish Environment Institute (SYKE)

## 2019 GEO Programme Board Members and Representatives

Member / PO	Type	First Name	Last Name	Status	Email	Professional Affiliation
France	M	Thierry	Ranchin	Principal	thierry.ranchin@mines-paristech.fr	Professor (Directeur de Recherche), MINES ParisTech Director, Centre Observation, Impacts, Energy – Common research center of MINES ParisTech and ARMINES, France
Germany	M	Carsten	Dettmann	Principal	Carsten.Dettmann@bmvi.bund.de	Federal Ministry of Transport and Digital Infrastructure (BMVI)
Germany	M	Thorsten	Buesselberg	Alternate	thorsten.buesselberg@dwd.de	Head of Production Supervision and Quality Control, Deutscher Wetterdienst (German Meteorological Service) DWD
Germany	M	Martin	Lenk	Alternate	martin.lenk@bkg.bund.de	Federal Agency for Cartography and Geodesy (BKG)
Ghana	M	Amos Tiereyangn	Kabo-Bah	Principal	amos.kabobah@uner.edu.gh	Head, Energy and Environmental Engineering Department, University of Energy and Natural Resources
Ghana	M	Dickson	Adomako	Alternate	d.adomako@gaecgh.org	Director, Ghana Space Science Technology Institute
Ghana	M	Anita	Antwiwaa	Alternate	draantwiwaa@anu.edu.gh	Head, Electronics and Communications Engineering / Head of Operations, Space Systems and Technology Laboratory, All Nations University
Greece	M	Evangelos	Gerasopoulos	Principal	egea@noa.gr	Research Director, Institute for Environmental Research and Sustainable Development, National Observatory of Athens
Italy	M	Enrico	Brugnoli	Principal	enrico.brugnoli@cnr.it	Director, Department of Earth System Science and Environmental Technologies, Consiglio Nazionale delle Ricerche (CNR)
Italy	M	Michele	Munafò	Alternate	michele.munafò@isprambiente.it	Head, Environmental Monitoring and Pressures Database Unit, Italian Environmental Information System, Istituto Superiore Ricerche Ambientali (ISPRA)
Italy	M	Nicola	Pirrone	Alternate	nicola.pirrone@iia.cnr.it	Director, Institute of Atmospheric Pollution Research (CNR-IIA)
Italy	M	Paolo	Mazzetti	Alternate	paolo.mazzetti@cnr.it	
Japan	M	Osamu	Ochiai	Principal	ochiai.osamu@jaxa.jp	Associate Senior Engineer, Space Applications and Operation Centre, Space Technology Division I, Japanese Aerospace Exploration Agency (JAXA)
Japan	M	Hiroyuki	Muraoka	Alternate	muraoka@green.gifu-u.ac.jp	Senior Professor, River Basin Research Center, Gifu University
Norway	M	Bente	Bye	Principal	bente@hotmail.com	Founder and CEO, BLB Environmental Sciences
South Africa	M	Andiswa	Mlisa	Principal	amlisa@sansa.org.za	Managing Director, South African National Space Agency

## 2019 GEO Programme Board Members and Representatives

Member / PO	Type	First Name	Last Name	Status	Email	Professional Affiliation
South Africa	M	Zipho	Tyoda	Alternate	zipho.tyoda@dst.gov.za	Deputy Director, Earth Observations, South African Department of Science and Technology
United Kingdom	M	Nathalie	Pettorelli	Principal	nathalie.pettorelli@ioz.ac.uk	Senior Research Fellow, Zoological Society of London
United Kingdom	M	Stuart	Marsh	Alternate	stuart.marsh@nottingham.ac.uk	Professor of Geospatial Engineering, Nottingham Geospatial Institute, University of Nottingham
United Kingdom	M	Heiko	Balzter	Alternate	hb91@leicester.ac.uk	Research Professor and Director, Centre for Landscape and Climate Research, University of Leicester
United States	M	Yana	Gevorgyan	Principal	yana.gevorgyan@noaa.gov	Senior International Relations Specialist, National Oceanographic and Atmospheric Administration (NOAA)
United States	M	Ivan	DeLoatch	Alternate	ideloatch@usgs.gov	Executive Director, Federal Geographic Data Committee, United States Geological Survey (USGS)
United States	M	Scott	Rayder	Alternate	rayder@ucar.edu	Senior Advisor to the President, University Corporation for Atmospheric Research (UCAR)
Committee on Earth Observation Satellites (CEOS)	PO	Kerry	Sawyer	Principal	kerry.sawyer@noaa.gov	Senior International Relations Specialist, NOAA
Committee on Earth Observation Satellites (CEOS)	PO	Steven	Hosford	Alternate	steven.hosford@esa.int	Programme Manager, CNES
Committee on Space Research (COSPAR)	PO	David	Halpern	Principal	david.halpern@jpl.nasa.gov	NASA Jet Propulsion Laboratory
European Space Agency (ESA)	PO	Ivan	Petiteville	Principal	ivan.petiteville@esa.int	Coordination Office, Directorate of Earth Observation Programmes, European Space Agency (ESA)
Federation of Earth Science Information Partners (ESIP)	PO	Kathleen	Fontaine	Principal	kathy.fontaine22@gmail.com	Adjunct Professor, Rensselaer Polytechnic Institute
Federation of Earth Science Information Partners (ESIP)	PO	Erin	Robinson	Alternate	erinrobinson@esipfed.org	Executive Director, Foundation for Earth Science/ ESIP Federation
Global Open Data for Agriculture and Nutrition (GODAN)	PO	Ruthie	Musker	Principal	ruthie.musker@godan.info	Strategic Projects and Partnerships Lead, Global Open Data for Agriculture and Nutrition (GODAN) Initiative
Global Open Data for Agriculture and Nutrition (GODAN)	PO	Suchith	Anand	Alternate	Suchith.Anand@godan.info	Researcher, Global Open Data for Agriculture and Nutrition (GODAN) Initiative

## 2019 GEO Programme Board Members and Representatives

Member / PO	Type	First Name	Last Name	Status	Email	Professional Affiliation
IEEE Geoscience and Remote Sensing Society (GRSS)	PO	Anthony	Milne	Principal	T.Milne@unsw.edu.au	Director, Australian Cooperative Research Centre for Spatial Information (CRCSI), Radar Research and Applications Facility
IEEE Geoscience and Remote Sensing Society (GRSS)	PO	Paolo	Gamba	Alternate	paolo.gamba@unipv.it	President, Geoscience and Remote Sensing Society
International Association of Geodesy (IAG)	PO	Richard	Gross	Principal	richard.gross@jpl.nasa.gov	Senior Research Scientist and Supervisor of the Geodynamics and Space Geodesy Group, Jet Propulsion Laboratory, NASA Member, International Association of Geodesy's (IAG's) Executive Committee Chair, IAG's Global Geodetic Observing System (GGOS) President, International Astronomical Union's (IAU's) Commission A2 on Rotation of the Earth
Institute of Electrical and Electronics Engineers (IEEE)	PO	Siri Jodha	Khalsa	Principal	sirijodha.khalsa@ieee.org	Chair, Ocean Observation Systems and Environmental Sustainability, Institute of Electrical and Electronics Engineers (IEEE)
Institute of Electrical and Electronics Engineers (IEEE)	PO	Rene	Garello	Alternate	r.garello@ieee.org	Past President, Oceanic Engineering Society, Institute of Electrical and Electronics Engineers (IEEE)
Intergovernmental Oceanographic Commission (IOC)	PO	Albert	Fisher	Principal	a.fischer@unesco.org	Head of the Ocean Observations and Services Section, Intergovernmental Oceanographic Commission of UNESCO; Project Office Director, Global Ocean Observing System.
International Union of Geodesy and Geophysics (IUGG)	PO	Michael	Sideris	Principal	sideris@ucalgary.ca michaelgsideris@icloud.com	President, International Union of Geodesy and Geophysics Professor, University of Calgary
Mountain Research Institute (MRI)	PO	Carolina	Adler	Principal	carolina.adler@giub.unibe.ch	Executive Director, Mountain Research Initiative (MRI)
Open Geospatial Consortium (OGC)	PO	Mark	Reichardt	Principal	mreichardt@opengeospatial.org	President and CEO, Open Geospatial Consortium
Open Geospatial Consortium (OGC)	PO	Marie-Francoise	Voidrot	Alternate	mvoidrot@opengeospatial.org	Director, Innovation Program, Open Geospatial Consortium
Open Geospatial Consortium (OGC)	PO	Bart	De Lathouwer	Alternate	bdelathouwer@opengeospatial.org	General Manager, OGC Europe, Open Geospatial Consortium
Partnership for Observation of the Global Ocean (POGO)	PO	Sophie	Seeyave	Principal	ssve@pml.ac.uk	Executive Director, Partnership for Observation of the Global Oceans (POGO), Plymouth Marine Laboratory (PML)

## 2019 GEO Programme Board Members and Representatives

Member / PO	Type	First Name	Last Name	Status	Email	Professional Affiliation
Partnership for Observation of the Global Ocean (POGO)	PO	Francesco	Chavez	Alternate	chfr@mbari.org	Senior Scientist, Monterey Bay Aquarium Research Institute
Secure World Foundation (SWF)	PO	Krystal	Wilson	Principal	kwilson@swfound.org	Project Manager, Secure World Foundation
UN Environment	PO	Pascal	Peduzzi	Principal	pascal.peduzzi@un.org	Director, GRID-Geneva, UN Environment
UN Environment	PO	Alexandre	Caldas	Alternate	alexandre.caldas@un.org	Chief, Country Outreach Technology and Innovation Branch, Science Division, UN Environment
UN Environment	PO	Hartwig	Kremer	Alternate	hartwig.kremer@un.org	Head, GEMS Water Unit, Science Division and Climate Technology Centre and Network (CTCN), Economy Division, UN Environment
World Meteorological Organization (WMO)	PO	Wenjian	Zhang	Principal	wzhang@wmo.int	Director, Observing and Information Systems Department, World Meteorological Organization
World Meteorological Organization (WMO)	PO	Lars Peter	Riishojgaard	Alternate	Iriishojgaard@wmo.int	WIGOS Project Manager, World Meteorological Organization