



GEO WEEK 2019
PACIFIC ISLAND PROGRAM
4-7 November 2019

Pacific Island Ideas Stage

3.30pm-6.00pm, Monday 4th November 2019
Sutherland Theatre, National Convention Centre

Summary:

This special edition of the GEO Week Ideas Stage will showcase EO products and services in the Pacific Island region that are, or have the potential to, make a crucial difference to the region in terms of promoting resilience and improving sustainability.

Through this special session, the GEO community will be provided the opportunity to showcase their EO tech platforms, products, and services that have been designed (or have the potential) for use in the Pacific in alignment with GEO's three global priority engagement areas: the United Nations 2030 Agenda for Sustainable Development, the Paris Climate Agreement and the Sendai Framework for Disaster Risk Reduction.

Format: 10 minute TedEX style presentations focussing on the technology, the data, the method and delivery and the end users. There will be options for with breaks for facilitated discussion using Sli.Do.

Draft scheduling:

Time	Presentation/item	Further info, key contact
3.30	Paul Allen Coral Reef Mapping Initiative , Mr Andrew Zolli, Planet Labs	https://www.planet.com/pulse/planet-paul-g-allen-coral-map/
3.40	The Copernicus Australasia Regional Data Hub , Ms Alla Metlenko	http://www.copernicus.gov.au/
3.50	ART GeoDEV NC animation network , Mr Jean Massenet, CIPAC/ INSIGHT	https://www.theia-land.fr/en/new-caledonia-ran-dedicated-to-new-caledonian-users-needs/
4.00	<i>Audience Questions</i>	
4.10	Geospatial [QHUB] – Operational use cases in the Pacific islands region , Mr Rémi Andreoli, Space Applications, BLUECHAM	http://www.bluecham.net
4.20	Coastal Risk Vanuatu , Mr Nathan Eaton, NGIS	http://coastalrisk.com.vu/
4.30	The WaveFoRCE project , Dr William Skirving, NOAA	william.skirving@noaa.gov
4.40	<i>Audience Questions</i>	
4.50	Using Open Data Cube to monitor environmental change , Belle Tissott, Assistant Director, Product Development, Digital Earth Australia, Geoscience Australia	http://www.ga.gov.au/dea/about
5.00	The Samoa Data Cube – a test case for the open Data Cube Program , Dr Neil Sims, CSIRO	https://www.opendatacube.org/
5.10	Common Sensing – building climate resilience in small island nations , Terri Freemantle	https://www.commonensing.org.uk
5.20	<i>Audience Questions</i>	
5.30	The Inform Project , Mr Paul Anderson, Secretariat of the Pacific Regional Environment Programme TBC	https://www.sprep.org/inform
5.40	Consideration for IoT Applications in the Pacific , Richard Volk and Kai Wanner, Coffey International Development	www.coffey.com/international-development
5.50	Developing methodology for climate change adaptation applying satellite-based remote sensing technology , Mr. Tsugito Nagano, RESTEC	
6.00	<i>Audience Questions, and close</i>	

DRAFT PROGRAMME SUBJECT TO CHANGE

Meet some of our presenters



Mr Andrew Zolli, Vice President, Global Impact Initiatives & Planet Fellow

For more than two decades, the central thrust of Andrew's work has been how to harness the power of emerging tools, technologies, and new approaches to drive collective, regenerative, and systemic change. He oversees Global Impact initiatives at Planet, a breakthrough space and AI organization which has deployed the largest constellation of Earth-observing satellites in history. These satellites image our whole planet every day in high resolution, and my team makes sure this data is used to its highest and best purposes to monitor the world's ecosystems, improve humanitarian action and disaster response, transform sustainable development, and advance scientific discovery and artistic expression. (@andrew_zolli)

Mrs Terri Freemantle, Senior Earth Observation Specialist, Satellite Applications Catapult.

Terri's main areas of interest lie in the use of Geospatial data to help fulfil the UN Sustainable Development Agenda, by working to provide data and user driven solutions to global problems and in turn facilitate data driven policy. Having expertise in both SAR and optical remote sensing, Terri provides technical expertise on a variety of national and international projects which focus on exploiting EO data for the greater good. She's interested in how the democratisation of data and innovations in technology can facilitate increased access to and uptake of Earth Observation data and tools in wider user communities.

Dr Neil Sims, Program Manager at the Space Technology Future Science Platform, CSIRO.

Neil Sims has more than 20 years' experience in the use of EO tools to map and model a wide range of ecological processes. Neil's projects have included mapping diseases in plantation forests and modelling the relationship between

flood extent and river flows for water management. Neil has been closely involved with the development of EO methods for Sustainable Development Goals, and he co-Chair's the GEO Land Degradation Neutrality Initiative. Neil has a keen interest in supporting the EO needs of the Pacific Islands, and sees Open Data Cubes as a possible component.



Mr Rémi Andreoli, Director of Space Application, BLUECHAM.

Remi is the Director of Space Applications of BLUECHAM SAS and teaches geographic information system and remote sensing at the University of New Caledonia and the University of the South Pacific in Vanuatu. In 2017, he co-founded Quintesens Pty Ltd and became a member of the Pacific Geographic Information System and Remote Sensing Council (PGRSC) in 2019. Remi and his team won 12 international awards that recognize the technical excellence, innovations in remote sensing and commitment for people and communities in the Pacific. The BLUECHAM Space Application team is continuously developing innovative ways to exploit remote sensing data using Cloud Computing of Big Data, Deep Learning and Artificial Intelligence to better understand and monitor an ever-changing environment.



Dr William Skirving, Senior Scientist, NOAA Coral Reef Watch

Apart from being one of the key scientists developing satellite products for monitoring coral reef health at NOAA, Dr Skirving is currently the NOAA lead scientist on the WaveFoRCE project. The Wave-driven Flood-forecasting on Reef-lined Coasts Early warning system (WaveFoRCE) project aims to provide wave-driven flood forecasting for all coral reef-lined coasts in the world. It is a consortium between NOAA, Deltares and the US Geological Survey.



Mr Richard Volk, Climate Change Specialist, Coffey International Development

Richard is a seasoned leader of natural resources management, water security, coastal fisheries, and resilience work with more than 35 years of international development experience. He advises on all aspects of water resources management, resilience, biodiversity conservation, livelihoods, WASH, coastal management, and small-scale fisheries. He provides Climate Change Specialist services for Coffey, leading their project on Intelligent Technology for Smart Development in the Pacific.



Mr Kai Wanner, Research Associate, Coffey International Development

Kai is an experienced researcher who has undertaken research projects on international development issues, water and natural resource governance, policy and stakeholder engagement. Kai works within Coffey's Research, Monitoring and Evaluation Consulting Business (RME), a team specialising in the design, evaluation, and monitoring of public policies, projects and programs across a wide range of thematic areas, including: environment; health; education; social development; economic growth; enterprise; governance; security and justice