



2016 COCONet Workshop Results, Sustainability, & Capacity Building

Barcelo Bavaro Beach Resort • Punta Cana, Dominican Republic • May 3-5, 2016

Arrival Day - Mallorca 1 & Ibiza 3

Scheduled Activities: 4:00pm - 7:30pm Registration and Poster Set up Reg in Mallorca 1
7:30pm - 8:30pm Welcome meet and greet (In Lobby - Spa Lounge)

WORKSHOP MASTER OF CEREMONIES: DR. ALBERTO LOPEZ (UPRM)

DAY 1 - Tuesday - May 3 - Ibiza 1 & 2

8:00 - 9:00	Breakfast	Main Buffet (First Floor)
9:00 - 9:15	Introductions and charge to workshop participants	<i>G. Mattioli, UNAVCO</i>
9:15 - 9:25	Welcome (slide from Russ Kelz, NSF)	<i>G. Mattioli, UNAVCO</i>
9:25 - 9:45	Status of the network	<i>K. Feaux, UNAVCO</i>
9:45 - 10:45	Reports from local operators - Network Status, Maintenance Issues, Future Plans, Sustainability Divide into 4 regions: North, South, East, West (15 minutes each)	
	• Western Caribbean	<i>E. Cabral, UNAM</i>
	• Northern Caribbean	<i>A. Lopez, PRSN/A. Holsteinson, UNPHU</i>
	• Southern Caribbean, including COLOVEN update	<i>H. Mora-Paez, SGC</i>
	• Eastern Caribbean	<i>A. Sealy, CIMH</i>
10:45 - 11:00	Break (out side of meeting room)	
11:00 - 12:00	Science Highlights - SOLID EARTH PROCESSES (20 minutes each)	
	• From Cocos to Caribbean plate across the Panama block: how COCONet is helping constrain the motions in southern Central America	<i>M. Protti, OVSICORI</i>
	• Slow slip events modeling in the Mexican Subduction Zone	<i>E. Cabral-Cano, UNAM</i>
	• Plate boundary tectonics and seismic hazard in the northeastern Caribbean from COCONet and other GPS data: what's new	<i>E. Calais, ENS</i>
12:00 - 1:30	Lunch/Group Photo (photo at 1:20)	
1:30 - 2:30	Science Highlights - ATMOSPHERIC PROCESSES (20 minutes each)	
	• Assessing the Impact of COCONet PWV Data in the Initialization of Numerical Weather Models	<i>J. Braun, UCAR</i>
	• Using COCONet Data for Disaster Risk Management	<i>A. Sealy, CIMH</i>
	• COCONet as a backbone network for the study of Central American land-based convective processes and large-scale water vapor transport for the North American Monsoon	<i>D. Adams, UNAM</i>



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2:30 - 3:30	Science Highlights - OCEANIC SCIENCES (20 minutes each) <ul style="list-style-type: none">• Description of modern sea level stations and the importance of GNSS for Sea Level Monitoring• Sea-level and oceanography in Cuba• Implementation of a Global Navigation Satellite System (GNSS) Augmentation to Tsunami Early Warning Systems	<i>J. Zavala, UNAM</i> <i>M. Hernandez Gonzalez, INF</i> <i>J. LaBrecque, GGOS</i>
3:30 - 3:45	Break	
3:45 - 4:00	Sustainability of COCONet: An Overview and introduction <ul style="list-style-type: none">• How can the network be sustained?• Who can be partners for sustainability?	<i>A. Lopez, UPRN</i>
4:00 - 4:15	Sustainability & Lessons learned related to the Chilean GNSS Network	<i>J. Baez, CSN</i>
4:15 - 5:30	BREAK OUT SESSION I - Sustainability of COCONet (Spanish/English) <i>Chairs: E. Cabral-Cano (Spanish)/E. Calais (English)</i> <i>Students: Registered Students will serve as note takers in breakout sessions.</i> <ul style="list-style-type: none">• Is there a fundamental need to continue to operate the network?• What are the science and non-science drivers for continued operation?• Who can be partners for sustainability?• How do we transition COCONet from a construction project to an operational, sustainable network?• What resources do local partners intend to provide to ensure the continued operation of the network?• How can our regional partners feel ownership of the network?	
5:30 - 6:00	Summary of Discussion on Sustainability of COCONet	
7:00 - 8:30	Dinner	

DAY 2 - Wednesday, May 4 - Ibiza 1 & 2

8:00 - 9:00	Breakfast	Main Buffet (First Floor)
9:00 - 10:00	COCONet DATA SERVICES, DATA TOOLS, PRODUCTS - (15 minutes each) <ul style="list-style-type: none">• Overview of the PBO, COCONet, and TLALOCNet Data Products• Atmospheric data flow, processing• UNAVCO Data Tools, COCONet data usage• Real-time data usage	<i>C. Meertens, UNAVCO</i> <i>J. Braun, UCAR</i> <i>F. Boler, UNAVCO</i> <i>C. Meertens, UNAVCO</i>
10:00 - 10:40	UPDATES FROM COCONet REGIONAL DATA CENTER DIRECTORS <i>LESSONS LEARNED FUTURE PLANS</i> (10 minutes each) <ul style="list-style-type: none">• Colombia• Barbados• Nicaragua• Mexico	<i>H. Mora-Paez, SGC</i> <i>A. Sealy, CMIH</i> <i>TBD</i> <i>E. Cabral-Cano, UNAM</i>



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10:40 - 11:00 Break

11:00 - 12:00 COCONet FELLOWS - PRESENTATION OF RESEARCH

- Combining Geophysical and geological data to create dynamic volcanic hazard maps on the island of Dominica, Lesser Antilles
O. George, COCONet Fellow, USF
- Building the weather to climate bridge: The late spring Caribbean rain-belt and its mid-summer cessation
T. Allen, Former COCONet Fellow
- Neotectonics of Kingston and its Implications for Earthquake Hazards in Jamaica
V. Wright, COCONet Fellow, SMU

12:00 - 1:30 Lunch

Main Buffet (First Floor)

1:30 - 3:00 INTRODUCTION TO CAPACITY BUILDING

L. Lynch, UWI/M. Protti, OVSICORI

COCONet Capacity Building Highlights

J. Braun, UCAR

BREAKOUT SESSION II: Ideas for Future Capacity Building in the Caribbean (Spanish/English)

Chairs: *M. Protti (Spanish)/L. Lynch (English)*

Students: *Registered Students will serve as note takers in breakout sessions.*

- What more can be done to build capacity in the region?
- How are the PASI graduates using the data in their research?
- How do we transition COCONet from a construction project to an operational, sustainable network? What capacity is needed?
- What specific services and training are needed by the COCONet Community to enhance the usability of the network?

3:00 - 3:30 Summary of Discussion on Capacity Building of COCONet

3:30 - 4:00 Break

4:00 - 5:00 BREAKOUT SESSION III: Outreach and Communication (Spanish/English)

Chairs: *B. Bartel (Spanish)/L. Rowan (English)*

Students: *Registered Students will serve as note takers in breakout sessions.*

- Who are the key stakeholders we want to reach?
- What are our key messages?
- What are some possible means for delivering our messages?
- What training, if any, would help with outreach and communication?
- What resources are needed to allow COCONet partners to deliver their messages?
- What are the other goals of outreach and communication and who are the audiences for these broader goals?

5:00 - 5:30 Summary from Breakout Session

5:30 - 7:00 Poster Session

Optional Session: Dataworks for GNSS Intro (30 min)

Ibiza 3
F. Boler, UNAVCO

7:30 Dinner

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DAY 3 - Thursday, May 5 - Ibiza 1 & 2

8:00 - 9:00	Breakfast	Main Buffet (First Floor)
9:00 - 10:30	FUNDING OPPORTUNITIES FOR PARTNERSHIPS FOR SUSTAINABILITY: Overview and Introduction	<i>A. Holsteinson, UNPHU</i>
	International Scientific Networks, Policy and Capacity Building at the US National Science Foundation	<i>C. Estabrook, NSF</i>
	BREAK OUT SESSIONS IV- Sustainability of COCONet (Spanish/English)	
	Chairs: A. Holsteinson (Spanish)/ L. Rowan (English)	
	Students: <i>Registered Students will serve as note takers in breakout sessions.</i>	
	<ul style="list-style-type: none">• Discussion of opportunities related to inter-agency and international cooperation and collaboration.• How can the network be sustained and who are the partners for sustainability?• Who and what can support the network going forward?• What national or international organizations should be approached for support?• How can the network be integrated into larger earth observation platform such as subduction zone observatory?	
10:45 - 11:30	Summary of discussion about partnerships	
10:30 - 10:45	Break	
11:30 - 12:30	Wrap up, review of findings, recommendations, and prioritization plan	<i>E. Cabral Cano, UNAM/H. Mora-Paez, CGS</i>
12:00 - 1:00	Lunch	Main Buffet (First Floor)
1:00 - 5:00	[For Workshop Planning Committee] Drafting on initial report - assembly of written summaries and development of key milestones	

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1pm - 5pm Introduction to GNSS Dataworks Short Course

1:00 - 1:15	GNSS Data and Metadata Management Fundamentals and Dataworks Overview	<i>F. Boler, UNAVCO</i>
1:15 - 2:00	Dataworks Datasheet: Dataworks Schema and Working with the Database	<i>S. Wier, UNAVCO</i>
2:00 - 2:45	GSAC	<i>S. Wier, UNAVCO</i>
2:45 - 3:00	Break	
3:00 - 3:45	GNSS Receiver Download Module and File Management	<i>M. Rost, UNAVCO</i>
3:45 - 4:15	GSAC Mirroring and GSAC Federation	<i>S. Wier, UNAVCO</i>
4:15 - 4:30	Tracking Metrics, Backing Up Your Dataworks System, Data and Metadata	<i>S. Wier, UNAVCO</i>
4:30 - 5:00	Server Requirements for Dataworks	<i>M. Rost, UNAVCO</i>
	Accessing Dataworks Software	<i>S. Wier, UNAVCO</i>
	Implementing Dataworks in the Amazon Cloud	<i>S. Wier, UNAVCO</i>