













Seventh (7th) Meeting of the Consortium of Regional Sectoral Early Warning Information Systems across Climate Timescales (EWISACTs) Coordination Partners

Hyatt Regency, Port-of-Spain, Trinidad 25-26 November, 2019



Meeting Report

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Table of Contents

| 1. | Intro | oduction | 3 |
|----|----------------|---|----------|
| | 1.1. | Sectoral Early Warning Information Systems across Climate Timescales (EWISACTs) | 3 |
| | 1.2. | The Consortium of Regional Sectoral EWISACTs Coordination Partners | 3 |
| | 1.3. | The Sectoral EWISACTs Roadmap and Plan of Action 2020-2030 | 1 |
| | 1.4. | The 7th Consortium Meeting | 1 |
| | 1.5. | Welcome Remarks (Adrian Trotman, CIMH) | 5 |
| 2. | Day | 1, Session 1: Sectoral EWISACTs: Progress Report (Jodi-Ann Petrie, CIMH) | õ |
| 3. | Day | 1, Session 2: Sectoral EWISACTs Roadmap and Plan of Action 2020-2030 | 7 |
| | 3.1. Action | Presentation of Revised Draft Shared Logic Model: Sectoral EWISACTs Roadmap and Plan of and associated Monitoring, Evaluation and Reporting (MER) framework (Roché Mahon, CIMH) 7 | |
| 4. | Day | 2, Session 2 (cont'd) - Sectoral EWISACTs Roadmap and Plan of Action |) |
| 5. | Day | 2, Session 3: Sectoral EWISACTs Institutional arrangements |) |
| | 5.1. Coordi | Presentation of the draft multi-lateral LoA and TOR of the Sectoral EWISACTs Regional nation Partners (Roché Mahon and Adrian Trotman, CIMH) |) |
| | 5.2. | Way Forward and Close (Adrian Trotman, CIMH) |) |
| 6. | Con | clusion | L |
| Α | PPENDI | X A: Meeting Agenda12 | <u>)</u> |
| Α | PPENDI | X B: Participant List15 | 5 |

1. Introduction

1.1. Sectoral Early Warning Information Systems across Climate Timescales (EWISACTs)

Climate variability and change occur on timescales ranging from sub-seasonal to seasonal to decadal and beyond, making it necessary to develop effective Early Warning Information Systems across Climate Timescales (EWISACTs). Early Warning Systems (EWS) are recognised by the Regional Comprehensive Disaster Management (CDM) Strategy and Programming Framework 2014-2024 and the Implementation Plan for the 'Regional Framework for Achieving Development Resilient to Climate Change' as critical to the effective management of climate-related disasters and adaptation to climate variability and change. EWISACTs can improve the effectiveness and efficiency of sustainable planning, adaptation and mitigation strategies across major weather and climate-sensitive socio-economic sectors. If well aligned with priority sectors, sectoral EWISACTs can support regional growth resilient to climate risks.

1.2. The Consortium of Regional Sectoral EWISACTs Coordination Partners

Fully established in 2017 under the 3 year (2014-2017) United States Agency for International Development (USAID) funded Building Regional Climate Capacity in the Caribbean (BRCCC) Programme, the Consortium of Regional Sectoral EWISACTs Coordination Partners is a key mechanism to drive the co-design, co-development and co-delivery of tailored climate products and services in the agriculture and food security, disaster risk management, energy, health, tourism and water sectors in the Caribbean. Since 2015, the ad hoc meetings of the Consortium have provided an important opportunity for six lead regional technical sectoral agencies¹ as well as, regional observer organisations² to raise sectoral and governance issues, positions and recommendations related to weather and climate in a cross-disciplinary context with the Caribbean Regional Climate Centre (RCC). These sessions facilitate the consultative and participatory processes necessary for successful joint EWISACTs development and implementation and are a key enabler of the significant strides made to date towards the development of Sectoral EWISACTs in the region.

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¹ The Caribbean Agricultural Research & Development Institute (CARDI), the Caribbean Disaster Emergency Management Agency (CDEMA), the Caribbean Public Health Agency (CARPHA), the Caribbean Tourism Organization (CTO), the Caribbean Hotel & Tourism Association (CHTA), and the Caribbean Water and Wastewater Association (CWWA).

² The CARICOM Secretariat, the Organisation of Eastern Caribbean States (OECS) Commission, the Caribbean Community Climate Change Centre, the Climate Studies Group at UWI Mona (CSGM), the Pan American Health Organization (PAHO), and the Agricultural Alliance of the Caribbean.

1.3. The Sectoral EWISACTs Roadmap and Plan of Action 2020-2030

An assessment of provider and end-user climate capacity in the Caribbean (Mahon & Trotman, 2018)³ revealed that there are several gaps on both the end-user and provider sides of the capacity spectrum across the five pillars⁴ of the Global Framework for Climate Services (GFCS)⁵. The Sectoral EWISACTs Roadmap and Plan of Action (RPA) fills these gaps by articulating the main components of the Consortium's cross-agency portfolio of climate services initiatives for the period 2020-2030. The model defines the 11 year collective goal, outcomes, and outputs that guide the implementation of a coordinated, multi-sectoral climate services portfolio.

Early versions of the working draft of the Roadmap benefitted from a bottom-up approach in which broad stakeholder input was harvested from over 130 sectoral stakeholders at the BRCCC Programme's Close-Out Meeting in June 2017, as well as, the November 2017 Dry Season Caribbean Climate Outlook Forum. Since that time, progressively mature drafts of the RPA have been considered at the 4th, 5th and 6th Meetings of the Consortium of Regional Sectoral EWISACTs Coordination Partners⁶ respectively.

1.4. The 7th Consortium Meeting

The Seventh (7th) Meeting of the Consortium of Regional Sectoral Early Warning Information Systems across Climate Timescales (EWISACTs) Coordination Partners was made possible through funding support from the Climate Risk Early Warning Systems (CREWS) project funded by the World Bank and executed by the World Meteorological Organization (WMO). The two-day meeting took place at the Hyatt Regency, Port-of-Spain, Trinidad on November 25-26, 2019 and was the fourth formal forum for the consideration and advancement of the draft Roadmap and PoA by the Consortium grouping.

The specific objectives of the meeting were:

- 1. To report on progress to date (June-November 2019) on the development of sectoral EWISACTs;
- 2. To review, finalise and adopt in principle the Sectoral EWISACTs Roadmap and Plan of Action for Caribbean Climate Services 2020-2030 and its associated Monitoring, Evaluation and Reporting (MER) framework; and

³ This report can be accessed here: http://rcc.cimh.edu.bb/files/2018/06/Summary-Report_Provider-and-Enduser-capacity-assessment_Carib-climate-services.pdf

⁴ 1) Observations and Monitoring; 2) Research, Modelling and Prediction; 3) Climate Services Information System; 4) User Interface Platform; and 5) Capacity Development.

⁵ The GFCS was formulated by the World Meteorological Organization and its partners and is the main source of global guidance on climate services.

⁶ 4th Consortium meeting: May 22-23, 2018; 5th Consortium meeting: November 20-21, 2018; 6th Consortium meeting: May 21-22, 2019.

 To review, finalise and adopt in principle the Consortium of Regional Sectoral EWISACTs Coordination Partners Letter of Agreement (LoA) and associated Terms of Reference (TOR).

A total of 18 participants engaged in discussions over two days (see Appendix B). Participants included Consortium partners (CARDI, CWWA, CDEMA, CARPHA, CCREEE, CTO, CHTA); key observer organisations such as the CARICOM Secretariat, the OECS Commission, the CCCCC, the PAHO, and the UWI CSGM; as well as other regional stakeholder organisations (the CMO Headquarters Unit and AACARI).

The meeting was carried out according to the meeting agenda (see Appendix A). The meeting proceedings included presentations and guided discussions over four (4) sessions.

1.5. Welcome Remarks (Adrian Trotman, CIMH)

Mr. Adrian Trotman, Chief of the Applied Meteorology and Climatology Section and Head of the Caribbean Regional Climate Centre at CIMH warmly welcomed participants to the 7th Consortium Meeting (Figure 1). He reminded participants of the journey to this 7th Consortium Meeting and encouraged their full participation in the meeting.



Figure 1: Mr. Trotman welcomes meeting participants

Mr. Trotman closed by wishing the Consortium a productive meeting.

2. Day 1, Session 1: Sectoral EWISACTs: Progress Report (Jodi-Ann Petrie, CIMH)

Ms. Jodi-Ann Petrie, Technical Officer I reported on progress made for the period June-November 2019. Main achievements for the period included:

- Further progress on the Caribbean Climate Impacts Database specifically, cleaning of the over 9000 climate-related impacts, as well as, the development of a preliminary conceptual framework for impacts measurement for the Caribbean;
- Research and publications:

Health-Climate:

Development of a climate driven spatio-temporal modelling framework for vector-borne diseases

Published:

- Lippi, C., Stewart-Ibarra, A. M., Romero, M., Hinds, A. Q. J., Lowe, R., Mahon, R., . . . Ryan, S. J. (2019). Spatiotemporal tools for emerging and endemic disease hotspots in small areas—an analysis of dengue and chikungunya in Barbados, 2013 2016. medRxiv: 19011262; doi: https://doi.org/10.1101/19011262
- Stewart-Ibarra A. M., Romero M., Hinds A. Q. J., Lowe R., Mahon R., Van Meerbeeck C. J., et al. (2019) Co-developing climate services for public health: Stakeholder needs and perceptions for the prevention and control of Aedes-transmitted diseases in the Caribbean.
 PLoS Negl Trop Dis 13(10): e0007772. https://doi.org/10.1371/journal.pntd.0007772
- Support to CARPHA on Caribbean climate arbovirus data, PPCR funded consultancy
- CIMH, CARPHA and PAHO collaboration on research Consultancy for the 'Development of Climate Early Warning for Mosquito Vector, Aedes Aegypti, Proliferation' under the Expanded Weather and Climate Forecasting and Innovative Product and Service Development and Delivery in the Caribbean Project, funding support provided by the CDB through the ACP-EU NDRM project

Tourism-Climate:

Development of a climate driven spatio-temporal modelling framework for tourism

- > Support to CTO with Research Consultancy technical outputs under ACP-EU NDRM:
 - Regional Sustainable Tourism Policy finalised
 - Risk Management Guide for the Caribbean Tourism Sector
 - Exploratory research towards the development of a Climate-driven spatiotemporal modelling framework for Caribbean tourism

Operational sector-specific bulletins:

- Quarterly Caribbean Tourism-Climatic Bulletin and the Caribbean Health Climatic Bulletin: Vol 3, Issue 2 (JJA 2019); Vol 3, Issue 3 (SON 2019);
- Monthly ACB: Vol 3, Issues 1-6

Social science:

Under development:

Trotman, A, Mahon R and Van Meerbeeck, CJ. Chapter 8, State of Caribbean Climate Report, "Adding value to climate information through services"

Climate science:

Under development:

➤ Van Meerbeeck, CJ, Trotman, A, Mahon R. Chapter 6, State of Caribbean Climate Report, "Climate Extremes and Early Warning: From excessive rainfall and flooding to drought, heat and hurricanes"

Other:

- 6th Consortium Meeting Report; and
- ➤ Updated copy of the draft Sectoral EWISACTs Roadmap and PoA 2020-2030.

3. Day 1, Session 2: Sectoral EWISACTs Roadmap and Plan of Action 2020-2030

3.1. Presentation of Revised Draft Shared Logic Model: Sectoral EWISACTs Roadmap and Plan of Action and associated Monitoring, Evaluation and Reporting (MER) framework (Roché Mahon, CIMH)

In her presentation of the revised draft shared logic model for the Sectoral EWISACTs RPA, Dr. Roché Mahon, Social Scientist at CIMH first highlighted areas of proposed substantive revision since the last major review of the draft RPA by the Consortium Grouping at the 6th Consortium Meeting in May 2019. She then led the review of Sections 1-6 of the Roadmap document with meeting participants in a plenary format (see Figure 2). Throughout the day, several revisions were tabled, reviewed, refined and accepted by the meeting. The meeting focused mainly on a review, revision and validation of the baselines, proposed outputs, targets and assignments of responsibility in Section 6, RPA Plan of Action with Partners and Observers making suggestions on refining and synthesizing elements of the Plan of Action.

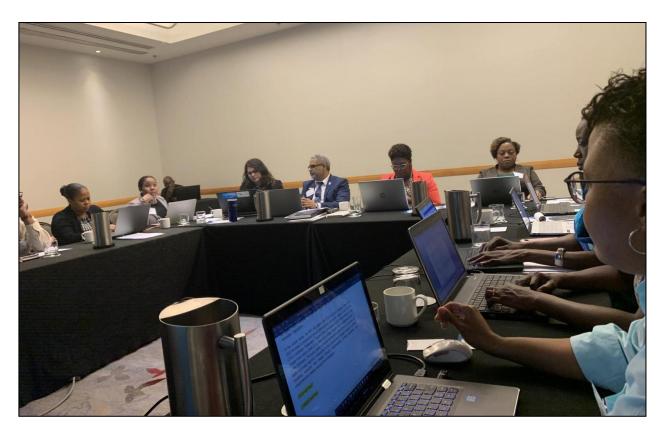


Figure 2: 7th Consortium Meeting participants making suggestions for RPA edits in plenary

The edited and revised RPA can be accessed here: https://owncloud.cimh.edu.bb/index.php/s/bfoyJwZRdPvtjvJ?path=%2F

The Meeting, through discussion and/or endorsement of proposals around resourcing and visibility options for the RPA:

- Agreed that the presentation of the RPA to the COTED is appropriate;
- Agreed that the RPA should be tabled at CDEMA's Council meeting and CDEMA's Technical Advisory Committee meeting;
- Acknowledged that there is an opportunity for CARDI to table the RPA at the Ministers of Agriculture meeting;
- Acknowledged that there is an opportunity for CARPHA to table the RPA at the Council for Health and Social Development (COHSOD) and the Chief Medical Officers meeting;
- Acknowledged that CWWA cannot yet say how they can table the RPA to their networks.
 There may be an opportunity to table it at the next HLF but will consult with Executive Director on this;
- Accepted that there is an opportunity (i) for CTO to present to the Sustainable Tourism Technical Committee but not with the Ministers of Tourism at this point, and CHTA can possibly (ii) for CHTA to table the RPA at the CHIEF Conference and other avenues, and also possibly promote it on the CAST website; and

• Accepted that there is an opportunity to promote the RPA with the Council of Ministers of Environment and Sustainable Development.

Mr. Adrian Trotman closed Day 1 of the Consortium meeting by thanking participants for their inputs and expressing his optimism for a second day of productive collaboration on Day 2 of the 7th Consortium Meeting.

4. Day 2, Session 2 (cont'd) - Sectoral EWISACTs Roadmap and Plan of Action

Day 2 began with a brief recap of Day 1 and an outline of Day 2 activities by Ms. Jodi-Ann Petrie. This was followed by a continuation of the PoA review led by Dr. Roché Mahon.

At the end of the session at the morning coffee break, Dr. Mahon thanked Consortium partners for their important inputs and noted that the work co-produced at this meeting was another important step towards its finalization. She reminded of the key role of the Consortium in the coordination and implementation of sector-specific climate services in the Caribbean, the key role of the RPA as the future guiding document and assured Consortium representatives that as co-authors of the RPA, they will be leaving a legacy for years to come.

5. Day 2, Session 3: Sectoral EWISACTs Institutional arrangements

5.1. Presentation of the draft multi-lateral LoA and TOR of the Sectoral EWISACTs Regional Coordination Partners (Roché Mahon and Adrian Trotman, CIMH)

In this session, Dr. Mahon presented suggested CIMH identified changes to the standing draft of the multi-lateral Letter of Agreement (LoA) of the Sectoral EWISACTs Regional Coordination Partners and its associated Terms of Reference (TOR). She began by reminding the meeting that the original Consortium LoA which ran until December 2018 was extended through an addendum signed by Consortium Heads of Institutions and remains in effect until December 31st, 2019. The current review of the revised LoA and TOR documents started in May 2019 at the 6th Consortium Meeting. The continued review would facilitate an expected renewal or replacement of the LoA and its associated TOR, taking into consideration the expanded work programme of the Consortium through the new 11 year Sectoral EWISACTs RPA in time for the start of implementation in 2020.

Mr. Trotman and Dr. Mahon co-led the discussion of the largely minor LoA changes tabled at the 7th Consortium Meeting. Much of the session's discussion therefore focused on the review and revision of the Consortium TOR document. Recommendations emerging from the discussion included:

- The possibility of giving consideration to add the GWP-C as an official Observer organization;
- CARDI, CCREEE, CWWA, and CARPHA representatives were in agreement with proposed responsibilities;
- Noted concern expressed by the CTO and CHTA re: roles that are required of them, some of which are beyond the organisations' capacity and/or scope. CHTA and CTO noted that a revision of the proposed roles be considered and the representatives committed to meet with their organisation's management to see what is possible.
- The CDEMA representative committed to raising proposed responsibilities with the CDEMA Head; and
- Noted the CWWA's call for additional support on the MER process.

Several recommendations were tabled and considered for an LoA signing event including:

- Proposed signing at the Head of regional institutions meetings convened by the CARICOM Secretary General as a possible avenue;
- Alternatively, proposed a signing event at the May 2020 CariCOF;
- Agreed that the signing event should include the donor community and the World Meteorological Organization;
- Acknowledged that it might not be possible to get all the Head of agencies together at once and some flexibility may be required re: signing event.

At the end of lunch on Day 2, 7th Consortium meeting participants were invited to receive a special presentation from international consultant group ESSA Technologies Ltd. on recent empirical work towards the development of a climate-driven spatio-temporal modelling framework for Caribbean tourism. This 45 minute presentation was co-facilitated by the CTO representative, Ms. Amanda Charles and CIMH representative Mr. Adrian Trotman.

5.2. Way Forward and Close (Adrian Trotman, CIMH)

Chair of the meeting, Mr. Adrian Trotman reiterated the overarching meeting decisions as follows:

- CIMH commits to share the revised version of the RPA, LoA and TOR documents to the Consortium by mid-December 2019. This should be a formal communication from CIMH Principal, Dr. David Farrell to the Heads of Agencies; and
- Acknowledged the need to give time for the Heads of Agencies to review and endorse the RPA. Consortium Partners committed to completing this process by February 2020.

Mr. Trotman closed the meeting by thanking everyone for their continued support to the Sectoral EWISACTs development process, and particularly to the long-term Sectoral EWISACTs Roadmap and Plan of Action for Climate Services, as well as the soon-to-be the renewed Consortium LoA and TOR.

6. Conclusion

The 7th Consortium Meeting fulfilled its expected outcome of regional level accounting of Sectoral EWISACTs progress to date for the period June - November 2019; facilitated a detailed review and consensus-based advancement of all sections of the draft inter-institutional Sectoral EWISACTs RPA for Caribbean Climate Services 2020-2030 and its associated MER framework; as well as a review and update of the standing Consortium LoA and TOR documents.

All available meeting outputs including: 1) all presentations made at the 7th Consortium meeting; 2) an augmented and revised draft of the 11 year Sectoral EWISACTs RPA for Caribbean Climate Services 2020-2030; 3) meeting pictures; and 4) updated drafts of the Consortium LoA and ToR can be downloaded at the following link:

https://owncloud.cimh.edu.bb/index.php/s/bfoyJwZRdPvtjvJ

APPENDIX A: Meeting Agenda







Seventh (7th) Meeting of the Consortium of Regional Sectoral Early Warning Information Systems across Climate Timescales (EWISACTs) Coordination Partners

AGENDA

Hyatt Regency Port-of-Spain Trinidad

25-26 November, 2019

MEETING OBJECTIVES:

- To report on progress to date (June-November 2019) on the development of sectoral EWISACTs;
- To review, finalise and adopt in principle the Sectoral EWISACTs Roadmap and Plan of Action for Caribbean Climate Services 2020-2030 and its associated Monitoring, Evaluation and Reporting (MER) framework; and
- To review, finalise and adopt in principle the Consortium of Regional Sectoral EWISACTs Coordination Partners Letter of Agreement (LoA) and associated Terms of Reference (TOR).















CARIBBEAN HOTEL & TOURISM ASSOCIATION







MEETING AGENDA:

Day 1: Monday 25 November, 2019

| TIME | | SESSION | RESOURCE PERSON/AGENCY | |
|-------------|--|--|-------------------------------------|--|
| 0830 - 0900 | Arrival and registration | All | | |
| 0900 - 0910 | Welcome remarks | | Adrian Trotman, CIMH | |
| 0910 - 0925 | Session 1: Progress Report | Sectoral EWISACTs: Progress to date | Jodi-Ann Petrie, CIMH | |
| 0925 - 1030 | Session 2: Sectoral EWISACTs Roadmap and Plan of Action 2020-2030 | Review of Sectoral EWISACTs Roadmap and Plan of Action 2020-2030 and associated Monitoring, Evaluation and Reporting (MER) framework (review and editing of master document) | Roché Mahon, CIMH/All | |
| 1030 - 1045 | COFFEE BREAK | | | |
| 1045 - 1230 | Session 2 Continued | Plenary session (review and editing of master document) | Roché Mahon, CIMH/All | |
| 1230 - 1330 | | | | |
| 1330 - 1500 | Session 2 Continued | Plenary session (review and editing of master document) | Roché Mahon, CIMH/All | |
| 1500 - 1515 | COFFEE BREAK | | | |
| 1515 - 1655 | Session 2 Continued | Resourcing and visibility options for the Sectoral EWISACTs Roadmap and Plan of Action 2020-2030 | Roché Mahon, CIMH/All | |
| 1655 - 1700 | | Summary and Close | Adrian Trotman/Roché Mahon, CIMH | |





















Day 2: Tuesday 26 November, 2019

| TIME | | RESOURCE PERSON/AGENCY | | | |
|-------------|---|--|--|--|--|
| 0830 - 0900 | Arrival and networking | All | | | |
| 0900 - 0910 | Recap of Day 1 and intro | Jodi-Ann Petrie, CIMH | | | |
| 0910 - 1030 | Session 3: Sectoral EWISACTs Institutional arrangements | Review of the multi-lateral LoA and TOR of the Sectoral EWISACTs Regional Coordination Partners | Roché Mahon, CIMH/All | | |
| 1030 - 1045 | COFFEE BREAK | | | | |
| 1045 - 1230 | Session 3 Continued | Plenary session (review and editing of master documents) | Roché Mahon, CIMH/All | | |
| 1230 - 1330 | LUNCH | | | | |
| 1330 - 1415 | Special Presentation | Towards the development of a climate- driven spatio-temporal modelling framework for Caribbean tourism | ESSA Technologies Ltd. | | |
| 1415 - 1500 | Session 3 Continued | Plenary discussion (review and editing of master documents) | Roché Mahon, CIMH/All | | |
| 1500 - 1515 | COFFEE BREAK | | | | |
| 1515 - 1645 | Session 3 Continued | Plenary discussion (review and editing of master documents) | Roché Mahon, CIMH/All | | |
| 1645 - 1700 | Session 4: Next Steps | Way Forward and Close | Adrian Trotman/Roché Mahon, CIMH | | |















CARIBBEAN HOTEL & TOURISM ASSOCIATION

APPENDIX B: Participant List

| | Last | First Name | Organization | Email | Day | Day |
|----|-----------------|------------|--------------|--------------------------------|----------|----------|
| | Name | | | | 1 | 2 |
| 1 | Flemming | Kistian | CARDI | kflemming@cardi.org | √ | ✓ |
| 2 | Clauzel | Shermaine | CARPHA | clauzesh@carpha.org | √ | √ |
| 3 | Jones | Albert | CCCCC | ajones@caribbeanclimate.bz | √ | √ |
| 4 | Duffy Mayers | Loreto | CHTA | loreto.duffy-mayers@un.org | √ | ✓ |
| 5 | Whyte | Felicia | CSGM | felicia.whyte02@uwimona.edu.jm | √ | √ |
| 6 | Browne | Claude | AACARI | jugobrowne@gmail.com | √ | √ |
| 7 | Isaac | Cornelius | OECS | cornelius.isaac@oecs.int | √ | √ |
| 8 | Bodley | Charlin | CCREEE | charlin@ccreee.org | √ | √ |
| 9 | Charles | Amanda | СТО | acharles@caribtourism.com | √ | √ |
| 10 | Riley | Elizabeth | CDEMA | elizabeth.riley@cdema.org | √ | √ |
| 11 | Lewis | Simone | GWP-C | simone.lewis@gwp-caribbean.org | √ | √ |
| 12 | Williams | Wayne | CWWA | wwilliams@cwwa.net | √ | |
| 13 | Laing | Arlene | СМО | alaing@cmo.org.tt | √ | |
| 14 | Maharaj | Anuradha | CWWA | amaharaj@cwwa.net | √ | √ |
| 15 | Wheeler | Erica | PAHO/WHO | wheeler.eri@paho.org | √ | |
| 16 | Mahon | Roché | CIMH | rmahon@cimh.edu.bb | √ | √ |
| 17 | Petrie | Jodi-Ann | CIMH | jpetrie@cimh.edu.bb | √ | √ |
| 18 | Trotman | Adrian | CIMH | atrotman@cimh.edu.bb | √ | ✓ |