REGIONAL ACTIVITY CENTRE /REGIONAL MARINE POLLUTION EMERGENCY, INFORMATION AND TRAINING CENTRE - WIDER CARIBBEAN REGION

11th May 2015

Activity Report

Sensitization Workshop for Non-Governmental Organizations and the Media Corps in Oil Pollution Preparedness, Response, and Cooperation
15 April, 2015

and

International Maritime Organization Level III Oil Pollution, Preparedness, Response and Cooperation Training Workshop for Senior Managers and Decision Makers
16-17 April 2015

Belize City, Belize

Regional Activity Center / Regional Marine Pollution Emergency, Information and Training Center
Wider Caribbean Region
Seru Mahuma z/n, Aviation and Meteorology Building, Curaçao
Phone: 5999-868-4612 / 868-3409; Fax: 5999-868-4996; Email: rempeitc@cep.unep.org

REGIONAL ACTIVITY CENTRE / REGIONAL MARINE POLLUTION EMERGENCY, INFORMATION AND TRAINING CENTRE - WIDER CARIBBEAN REGION

SUMMARY SHEET

Titles of the workshops:	Sensitization Workshop for Non-Governmental Organizations and the Media Corps in Oil Pollution Preparedness, Response, and Cooperation; and International Maritime Organization (IMO) Level III Oil Pollution, Preparedness, Response and Cooperation (OPRC) Training Workshop for Senior Managers and Decision Makers
Host:	Belize Department of the Environment (DOE)
Venue:	Best Western Belize Biltmore Plaza 3 ½ MLS Phillip Goldson Highway Belize City, Belize
Date	15-17 April, 2015
Type:	National
Organized by:	RAC/REMPEITC-Caribe
Supported by:	Belize Department of the Environment
Source of Funding:	Belize
No. of participants:	34/28
Participating countries:	Belize
Point of contact:	CDR Paul Lattanzi IMO Consultant RAC/REMPEITC-Caribe Seru Mahuma z/n Aviation and Meteorology Building Willemstad, Curacao Phone: (00599-9) 868-3409 / 839-3718 Fax: (00599-9)868-4996 Email: plattanzi@cep.unep.org

Table of Content

1. Background 4
2. Workshop Objectives 5
3. Program 5
4. Logistics 7
5. Support 8
6. Findings 8
7. Recommendations 9

Annex 1 – Participants List – One day Sensitization Workshop 13
Annex 2 – Participants List – Two day IMO Level III OPRC Workshop 18
Annex 3 – Agenda – One day Sensitization Workshop 23
Annex 4 – Agenda – Two day IMO Level III OPRC Workshop 24
Annex 5 – Group Picture of IMO Level III OPRC Training 25
Annex 6 – Results of the workshop evaluation 26
Annex 7 - Course Certificate 32

1. Background

1.1. The Cartagena Convention was adopted on 24 March 1983 and entered into force on 11 October 1986 as the legal instrument for the implementation of the Caribbean Action Program. The Convention is the only legally binding environment treaty for the Wider Caribbean Region. The three protocols supporting the Convention are the Oil Spill Protocol, the Specially Protected Areas and Wildlife Protocol (SPAW), and the Land Based Spills Protocol (LBS). The Oil Spill Protocol was adopted and entered into force concurrently with the Cartagena Convention. The Protocol establishes a mechanism to respond to discharges or threats of discharges of oil that could endanger the marine environment and coastal interests of countries. The Contracting Parties to the Convention extended the Oil Spill Protocol to include hazardous or toxic substances.

1.2. The International Convention on Oil Pollution Preparedness, Response, and Co-operation (OPRC) was adopted on 30 November 1990 and entered into force on 13 May 1995. The convention facilitates international co-operation and mutual assistance in preparing for and responding to a major oil pollution incident.

1.3. Both the Cartagena Oil Spill Protocol and OPRC Convention require countries to develop and maintain an adequate capacity to effectively and promptly deal with oil pollution emergencies. This preparedness should include as a minimum:

- A National Contingency Plan
- Designated national authorities and focal points responsible for oil pollution preparedness and response
- Oil pollution reporting procedures and arrangements for handling requests for assistance
- A minimum level of pre-positioned oil spill combating equipment
- A program of exercises for oil pollution response organizations and training of personnel
- Detailed plans and communication capabilities for responding to an oil pollution incident
- A mechanism or arrangement to co-ordinate the response to an oil pollution incident with the capabilities to mobilize the necessary resources

1.4. While Belize has not ratified OPRC or OPRC HNS, they have ratified the Cartagena Convention and the following other environmental conventions:

	MARPOL 73/78 (Annex III)	MARPOL 73/78 (Annex III)	MARPOL 73/78 (Annex IV)	MARPOL 73/78 (Annex V)	MARPOL Protocol 97 (Annex VI)	CLC Convention 69	CLC Protocol 76	CLC Protocol 92	FUND Protocol 92	BUNKERS CONVENTION 01
Belize	x	x	x	x	x	d	x	x	x	x

1.5. The level of preparedness for oil spills varies greatly throughout the Wider Caribbean Region. In order to assist countries to develop their national capabilities and promote co-operation, RAC REMPEITC - Caribe, under the instruction of the IMO, has implemented numerous oil pollution preparedness, response, and co-operation activities.

2. Workshop Objectives

2.1 The objective for the Sensitization Workshop was to provide oil pollution response training to influential organizations, especially the press and stewards of Belize's natural resources to:

- Provide an understanding of the science of oil and oil spill response strategies
- Raise awareness of oil spill response techniques and the benefits and costs of each
- Explain the major regimes for oil spill response planning and preparedness
- Bring together individuals who could contribute to the nation's preparedness and influence a future oil spill response prior to a spill.

2.2 The objective for the IMO Level III OPRC workshop was to provide oil pollution response training to Administrators and Senior Managers to:

- Provide an awareness of roles and responsibilities in the management of oil spills.
- Prepare participants for the often time competing challenges presented during a spill response.
- Bring together national leaders who could be involved in a tier 3 response to learn of issues and develop national coordinating processes.

3. Program

3.1. The workshops were organized by RAC/REMPEITC-Caribe in cooperation with the Belize Department of the Environment. In a demonstration of their commitment to oil spill preparedness, the Government of Belize funded all aspects of the workshops.

3.2. Both workshops were well attended. At the request of RAC REMPEITC, the workshops were limited to 35 invited participants each. While not all confirmed representatives attended each meeting, several participants of the Sensitization Workshop expressed their wishes that more seats were made available to interested parties. The workshop was led by the Senior IMO Consultant to RAC REMPETIC-Caribe assisted by two speakers/experts, one from Polaris Applied Sciences and the other from the International Tanker Owners Pollution Federation Limited. Presentations were also given by Ms. Maxine Monsanto, the Senior Environmental Officer at Belize's Department of the Environment. The participant lists for the two workshops are included as **Annex 1** and **Annex 2**.

3.3. The Sensitization Workshop started with opening remarks by Ms. Maxine Monsanto. These remarks were followed by comments offered by CDR Lattanzi of RAC REMPEITC noting the robust attendance from the press and non-governmental organization (NGO) sectors and thanking the

Department of the Environment for their commitment to this training. Workshop objectives were reviewed and ground rules were offered to ensure a healthy, productive exchange of ideas.

Following the opening session, the course generally followed the published agenda (**Annex 3**). The lunch break offered an opportunity for members of the press to interview Ms. Monsanto, the consultants, and various participants to the workshop. The interviews were subsequently aired on television, radio and in print.

The last formal presentation of the Sensitization workshop was provided by Ms. Maxine Monsanto. Ms. Monsanto presented the results of a RETOS2 evaluation of Belize's current preparedness for an oil spill and presented future steps needed to improve the nation's preparedness. There was keen interest in this evaluation. Volunteers were called for assistance in developing Environmental Sensitivity Index maps and other preparedness measures.

3.4. The two-day IMO Level III OPRC Workshop was opened by comments by Ms. Adele Catzim-Sanchez, Chief Executive Officer (CEO) for the Ministry of Forestry, Fisheries, and Sustainable Development (MFFSD). Ms. Catzim-Sanchez expressed the MFFSD's and the Department of Environment's as well as Belize's commitment to improving preparedness for an oil spill, and noted with appreciation the robust participation in the workshop. Following a review of the objectives and ground rules, the program followed the two day agenda, which is included as **Annex 4**. The one-hour tabletop exercise assigned participants to one of four groups tasked to discuss and list spill response objectives and strategies for a vessel grounding and resulting Bunker C spill within English Channel (approx. 11 km SE of Belize City).

Prior to the closing of the workshop a group photo was taken by Paul Lattanzi, which is included as **Annex 5**. Closing remarks were provided by Ms. Monsanto and Mr. Lattanzi and evaluations (**Annex 6**) were collected. Each participant received a certificate (template attached in **Annex 7**) and a flash memory drive containing the program, the list of participants, a copy of all the presentations, as well as relevant documents and key references mentioned during the workshop.

4. Logistics

4.1. The workshop was held at:

Best Western Belize Biltmore Plaza

Address: 3 ½ MLS Phillip Goldson Highway Belize City, Belize
Phone: (501) 223-2302
Fax: (501) 223-2301
Email: Sales3@belizebiltmore.com
Website: www.belizebiltmore.com

Contact Person:

Ms. Maxine Monsanto
(AG) Senior Environmental Officer
Department of the Environment
Market Square,
Belmopan
Belize

Phone: 501-802-2816 or 2542,
Fax: 802-2862
Website: www.doe.gov.bz
Email: doe.seo@ffsd.gov.bz]

4.2. The transportation to and from airport / hotel was provided by Belize Department of the Environment.

4.3. The lunches were covered by the Belize Department of the Environment.

5. Support

5.1. The Belize Department of the Environment provided excellent support to assemble an appropriate and diverse group of participants and identified the hotel and meeting facilities, negotiated the preferential rate for the hotel and provided the meeting facility and audio/visual equipment. Ms. Maxine Monsanto, assisted by several staff members of Belize Department of the Environment did an excellent job providing all logistic support required of the ambitious training agenda. Maxine's and other's support was most helpful and highly appreciated.

6. Findings

6.1 These are the most significant observations made by the consultants

- Belize Department of Environment remains the appropriate focal point for IMO/UNEP/RAC REMPEITC. The Department of the Environment is making a vigorous attempt to update the draft National Oil Spill Contingency Plan (NOSCP). This initiative remains a priority of both the Ministry of Forestry, Fisheries, and Sustainable Development and the Department of the Environment.
- Consultants did not hear any of technical or political opposition to ratification of OPRC, in fact the development of the NOSCP is largely seen as an appropriate step toward ratification and implementation of OPRC.
- Belize recently contemplated opening offshore parcels of their EEZ for oil exploration. Concerned environmental groups led by Oceania raised significant opposition and plans for offshore exploration are currently on hold. There was a vocal opposition to this development present at the one-day sensitization training.
- The media and NGO sensitization day was successful in terms of raising awareness of existing risks and calling for the support and assistance of NGOs in developing the National Oil Spill Contingency Plan. Given the nature of discussions following the talks, it was clear that the issue of offshore drilling (rather than existing shipping-related risks) was the primary concern for a number of those in attendance. As could be expected, the event was seen by some as an opportunity to voice these concerns, which deviated discussions away from the day's intended scientific, technical and organizational focus.
- It was encouraging to see the level of interest of the media in the event and the objective nature of the resultant news pieces produced. Unfortunately, many of the participants representing the media departed soon after interviews were conducted during lunch break and in doing so missed one of the key presentations intended for them. This presentation was subsequently provided to Ms. Monsanto to provide to those that departed early. The presentation was subsequently distributed via email to all Media and NGOs that attended the one-day sensitization workshop.

- The ARPEL RETOS2 application was perceived as a great tool to assist governments and companies in assessing their level of oil spill response planning and readiness management in relation to commonly agreed pre-established criteria considering international best management practices and was important in identifying gaps in preparedness as well as providing a suggested prioritized mechanism to move forward with planning and preparedness.
- There are various levels of awareness about the incident command system (ICS) but ICS has not officially been established as the standard way to manage contingencies in Belize. Large scale incident management is the responsibility of the National Emergency Management Organization (NEMO).
- There are influential organizations that are vocal in their opposition to the development of offshore drilling in Belize waters. Opponents to offshore drilling wanted assurances that their support for improving oil spill preparedness was not to be construed as support for offshore drilling. They were assured that it would not and that their efforts to improve preparedness would be helpful in addressing risks that currently exist.

7. Recommendations

7.1 These are the most significant recommendations for IMO/RAC REMPEITC and/or Belize:

- Legislative/regulatory clarity: Belize has ratified a number international conventions relating to oil spill liability and compensation (CLC 92, FUND 92, BUNKER); however, the extent to which these instruments have been transcribed into national law is unclear. It is recommended therefore that the status of the conventions in terms of their national implementation is reviewed to assess their applicability at the time of an incident.
- The ratification of the OPRC convention and subsequent implementation into national law appears to be a logical step towards enhancing preparedness in Belize. This would provide a formal basis for developing notification procedures and planning requirements, as well as improving Belize's access to international expertise and resources.
- Joint government-industry training and exercises: It is understood that Belize's two major oil handling facilities run oil spill response exercises at their facilities. Promoting the involvement of all relevant government organisations (including first responders) in such events would be beneficial in terms of maintaining/enhancing knowledge and expertise.
- Updating the National Contingency Plan: It is clear that much work needs to be done in this respect, which will require the commitment of industry, government organisations, and NGO's.
- In order to maintain momentum, perhaps the Department of Environment could consider establishing smaller working groups to address certain aspects of the plan, inviting relevant organisations to participate in regular meetings and develop a suitable work schedule. In this regard, the RETOS tool provides a simple and effective means of identifying gaps and tracking the development of key actions. On the basis of discussions during the workshop, initial actions could include:
    - The development of ESI mapping (including bathymetric data if feasible) for the Belizean coast to help identify priorities for protection and the feasibility of response measures.

- Review and allocation of roles and responsibilities of industry and government personnel during a response in order to develop a suitable and scalable Incident Management System. Once these roles and responsibilities have been established, organisation of regular meetings/training/exercises through which all organisations and agencies are kept abreast of their roles.
- Review equipment requirements based on risks/oil type etc. Identify opportunities to develop mechanisms by which specialised equipment/materials stockpiled abroad can be effectively obtained in the event of an incident. Sources of auxiliary equipment (e.g. aircraft, excavators, tanks, pumps) should also be identified.
- Identify potential stumbling blocks to implementing effective response, e.g. the window of opportunity for dispersant application/ in-situ burning vs. time taken to mobilise resources to site or the availability of waste disposal facilities to accommodate recovered oil. Explore strategies to overcome these challenges.

- A comprehensive risk assessment of existing threats, taking into account spill scenarios including sources and properties of oils likely to be spilled (e.g. releases of refined products vs. releases of crude/residual fuel oils).
- Belize is urged to ratify and implement OPRC 92 and become an active member of the Caribbean and Central America OPRC Regional Plans.
- Multiple participants expressed concern and urgent need to update nautical charts and navigation aids for Belize waters. Nautical Charts should be updated with the most recent bathymetric data available (need to identify sources of best data available).
- Laboratory resources should be identified for analysing any oil samples taken during an oil spill response.
- Complete the compilation of oil spill response equipment located within Belize as well as any response resources that can be provided by contract providers for Type II and III oil spills.
- Provide air monitoring equipment and training to first responders, especially fire fighters that might respond to a fire at Puma, or any truck spills of refined products.
- Ensure there is good/clear communications between the agencies in Belize and Belize's representative at the International Maritime Organization.
- The Cruise Ship Industry may be a willing partner in oil spill preparedness. It is recommended that Belize DOE contacts parent companies of vessels that call upon Belize City to explore possible exercise opportunities.
- Legislation needs to be drafted for spill prevention and mitigation measures (multi-department issue). Legislation should consider all oil transport, storage (cargo or fuel), tankage, pipeline and gathering lines, road transport, barge transport (i.e., fuel barges to the cayes)
- Environmental Compliance Plans are required for all industries maintaining oil/ fuel storage operations and conducting drilling & exploration operations for oil. Plan requires minimum equipment levels for spill response but unclear what the criteria are for:
  - Minimum oil spill quantities for planning
  - Assessment process for adequate equipment
  - Response times

- Recommend that tiered spill planning levels consider oil type and weathering, response times, planned containment and recovery performance, and environmental conditions.
- Recommend sources for salvage, offloading and lightering, and offshore firefighting capabilities be identified in the region and a process established to expedite delivery in country.
- Clarify with BNE the arrangements for access to OSRL Tier 3 equipment.
- Continue BNE and Puma exercises jointly with staff from DOE. Consider Tier 2 tabletop exercises to pull in NEMO, Coastal Zone, Fisheries, and other players.
- Recommendation was made for Media Training for First Responders, which should include Police and Fire. First responders should understand how to direct media to a formal PIO or JIC.
- As DOE acquires oil spill response equipment, the group should carefully consider maintenance requirements, storage, inspection, and pre-positioning. Logistical support must be identified at each pre-staged equipment location so that deployment can be immediate. Define roles and expectations of DOE staff vs contractor or other agencies for deployment of the government equipment.
- Ensure that the revised National Oil Spill Contingency Plan (NOSCP) clearly identifies the National Competent Authority. There appears a lack of clarity of roles shared by NEMO and DOE. One agency or department should be identified to fill the role of Incident Commander in the case of a spill.
- Belize has completed a RETOS evaluation of their NOSCP and, as a result, has a Global Improvement Plan. The prioritized list should be reviewed, validated, and be used to prioritize work efforts to improve preparedness.
- Review Belize's policies on dispersant use and in situ burning of oil. Both are valuable response options that should not be summarily excluded, and both work best when their use has been contemplated prior to a spill. Ideally, pre-approved or streamlined approval processes ensure their effective use.
- The following recommendations were provided at the conclusion of the October 2014 OPRC Level II Workshop, and are still valid:
    - Complete assignments and define timelines for Global Improvement Program (results from RETOS2 analysis)
    - Continue to seek opportunities for joint government, industry, and NGO engagement on spill response prevention and emergency preparedness.
    - Identify plan (or opportunities) to conduct joint fire-police-DOE and industry training for initial responders.
    - Continue joint industry-DOE, and Coast Guard spill response training and exercises (consider adding Port Authority)
    - Define formal notification procedure for spills (from public, responsible parties, or others), to DOE and NEMO (as appropriate) likely through a pre-existing emergency call center or similar (i.e., 936 as NEMO emergency). Define minimum spills requiring notification and time requirement for initial notifications to assigned number or DOE.
    - Obtain data layers available through Coastal Zone Mgmt, Fisheries, NGOs, and other for base sensitivity mapping (in progress).

- Obtain best data available for bathymetry to be used in maps
- Consolidate geographic response plans (GRPs, or site detailed tactical plans) into a National Contingency Plan annex.
- Review and evaluate existing primary regulations and guidelines that apply to spill response.
- Identify the basic regulatory requirements for the National Contingency Plan (NCP).
- As a cost effective means of developing Environmental Sensitivity Maps and associated response strategies, consider using Google Earth and readily (free) data already available to DOE. This technique was successfully developed in the Bahamas and Costa Rica and these could be used as a reference.
- Consider developing an agreement of cooperation between DOE, Belize National Coast Guard, BNE, and Puma Energy in order to facilitate the response organization & operations in case of an Tier 2 or 3 incident
- Encourage BNE to share data on current & wind they have measured in different points of the coast with DOE to better predict oil spill trajectories and define the areas to be protected in priority.
- Add BNE crude to ADIOS2 oils database for Belize responders' reference

---

Annex 1 – Participants List – One day Sensitization Workshop

PARTICIPANTS LIST
Oil Spill Pollution Preparedness,Response & Co-operation Basic Training
Belize City, Belize
April 15, 2015

Number	Country	Name	Title and Organization	Email and Phone
1	Belize	Adele Ramos	Assitant Editor Amandala Press	adele@amandala.com.bz 202-4703
2	Belize	Aaron Zuniga	Ranger Southern Environmental Association	info@seabelize.org 523-3377
3	Belize	Walter Garbutt	Protected Areas Director Southern Environmental Association	info@seabelize.org waltergarbutt1@yahoo.com 523-3377
4	Belize	Ralna Lewis	Replenshiment Zone Expansion Project Coordinato Wildlife Conservation Society	rlewis@wcs.org rk_lamb@hotmail.com 223-3271
5	Belize	Tanya Williams	Executive Director Belize Coalition to Save our Natural Heritage	executivedirector@belizecoalition.org 223-2970
6	Belize	Ryne Lizarraga	General Manager The National Channel	thenationalchannelbelize@gmail.com 670-4460
7	Belize	Janelle Chanona	Vice President Oceana Belize	jchanona@oceana.org 822-2792

PARTICIPANTS LIST

Oil Spill Pollution Preparedness,Response & Co-operation Basic Training

Belize City, Belize

April 15, 2015

Number	Country	Name	Title and Organization	Email and Phone
8	Belize	Dr. Isani Chan	Marine Scientist Oceana Belize	ichan@oceana.org 822-2792
9	Belize	Talia Tillett	Membership Officer Belize Toursim Industry Association (National)	membership@btia.org 227-1144
10	Belize	Roberto Pott	Belize Coordinator Healthy Reef for Healthy People	pott@healthyreefs.org hripott@gmail.com 223-4898
11	Belize	Amanda Burgos Acosta	Executive Director Belize Audubon Society	executivedirector@belizeaudubon.org 223-4988
12	Belize	Melvin Dawson	Reporter Star Newspaper	starnewspaper@gmail.com 626-8822
13	Belize	Marcial Alamina III	President Friends of Swallow Caye	maria@swallowcayemanatees.org alaminabz@gmail.com 626-8724
14	Belize	Janelle Cowo	Staff Reporter San Pedro Sun Newspaper	janelle@sanpedrosun.com 226-2070

PARTICIPANTS LIST
Oil Spill Pollution Preparedness,Response & Co-operation Basic Training
Belize City, Belize
April 15, 2015

Number	Country	Name	Title and Organization	Email and Phone
15	Belize	Edilberto Romero	Executive Director Programme for Belize	execdirector@pfbelize.org 227-5616
16	Belize	Shalini Cawich	Operations Manager Turneffe Atoll Sustainability Association	shalini@tasabelize.com 670-8272
17	Belize	Froyla Tzalam	Executive Director Starstoon Temash Institute for Indigenious Management	froyla@satiim.org.bz 722-0103
18	Belize	Major Lloyd Jones	Institute for Marine Studies	ims.belize@gmail.com 677-7618
19	Belize	Sharon Marin Lewis	Krem News Reporter	kremnews@yahoo.com 202-4409 668-0502
20	Belize	Ivanna Waight-Cho	Monitoring Officer University of Belize Environmental Research Institute	iwaight@ub.edu.bz 822-2701
21	Belize	Dennis Garbutt	Vice Chairman BTIA Belize Tourism Industry Association (Toldeo)	btiatoledo@btl.net 722-2531

PARTICIPANTS LIST
Oil Spill Pollution Preparedness,Response & Co-operation Basic Training
Belize City, Belize
April 15, 2015

Number	Country	Name	Title and Organization	Email and Phone
22		Carmen Silva	Political / Economic Assistant US Embassy	SilvaC@state.gov
23	Belize	Mike Heusner	Belize Tourism Industry Association	piampiam127@gmail.com 227-1144
24	Belize	Cristina Coc	Public Relations Mayan Leaders Alliance	mayaleadersbelize@gmail.com 637-5611
25	Belize	Briony Ysaguirre	Director Friends of Swallow Caye	brionyysaguirre@yahoo.com 624-9536
26	Belize	Joe Villafranco	Program Manager Toledo Institute for Development and Environmen	info@tidebelize.org 722-2274
27	Belize	Mano Muschamp	Protected Areas Manager Toldedo Institue for Development and Environmen	mmuschamp@tidebelize.org 722-2274
28	Belize	Celi Cho	Environmental Officer Public Awareness Unit Department of Environment	doe.publicawarenessunit@ffsd.gov.bz 822-2819

PARTICIPANTS LIST

Oil Spill Pollution Preparedness,Response & Co-operation Basic Training

Belize City, Belize

April 15, 2015

Number	Country	Name	Title and Organization	Email and Phone
29	Belize	Kenrick Gordon	Environmental Technican Department of Environment	doe.enforcement@ffsd.gov.bz 822-2819
30	Belize	Maxine Monsanto	Senior Environmental Officer Department of Environment	doe.lawunit@ffsd.gov.bz 822-2819
31	Belize	Christian Winsdor	Environmental Officer Information Management and Research Unit Department of Environment	doe.info@ffsd.gov.bz 822-2819
32	Belize	Aldo Cansino	Environmental Officer Project Execution Unit Department of Environment	doe.projects@ffsd.gov.bz 822-2819
33	Belize	Doreth Young-Flowers	Administrative Department of Environment	envirodept@ffsd.gov.bz 822-2819
34	Belize	Deslie Pinelo	Administrative Department of Environment	envirodept@ffsd.gov.bz

Annex 2 – Participants List – Two day IMO Level III OPRC Workshop

PARTICIPANTS LIST
IMO Level III Oil Spill Pollution Preparedness,Response & Co-operation Training
Belize City, Belize
16-17 April 2015

Number	Country	Name	Title and Organization	Email and Phone
1	Belize	Adele Catzim-Sanchez	Chief Executive Officer Ministry of Forestry, Fisheries, and Sustainable Development	ceo@ffsd.gov.bz
2	Belize	Mandela Wade	Geologist Geology and Petroleum Department	geologist3.gpd@estpu.gov.bz 802-2178
3	Belize	Andre Cho	Director Geology and Petroleum Department	director.gpd@estpu.gov.bz 802-2178
4	Belize	Rudolph Gentle	Senior Budget Analyst Ministry of Finance	rudolph.gentle@mof.gov.bz rudolphgentlebze@yahoo.com 828-4109
5	Belize	Francisco Daniel Gutierez	Belize Natural Energy	dgutierez@bne.bz 823-0354
6	Belize	Kevin Gonzalez	Director of Special Projects Belize Tourism Board Ministry of Tourism, Culture, & Civil Aviation	kevin@travelbelize.org 227-2420
7	Belize	John Paul Bodden	Principal Public Health Inspector Environmental Health Ministry of Health	jbodden@health.gov.bz 822-0809

PARTICIPANTS LIST
IMO Level III Oil Spill Pollution Preparedness,Response & Co-operation Training
Belize City, Belize
16-17 April 2015

Number	Country	Name	Title and Organization	Email and Phone
8	Belize	Beverly Wade	Fisheries Administrator Fisheries Department	fa@ffsd.gov.bz fisheries_department@fisheries.gov.bz 203-2623
9	Belize	Enrique Carballo	Executive Secretary Belize Mayor's Association	bmabze9@gmail.com wicocarballo@yahoo.com 227-1596
10	Belize	Maxine Monsanto	Acting Senior Environmental Officer Department of Environment	doe.lawunit@ffsd.gov.bz envirodept@ffsd.gov.bz 822-2819
11	Belize	Kenrick Gordon	Environmental Technican Department of Environment	doe.enforcement@ffsd.gov.bz kenrickgordondoe@yahoo.com 822-2819
12	Belize	Edgar Ek	Deputy Chief Environmental Officer Department of Environment	doe.dceo@ffsd.gov.bz 822-2819
13	Belize	Shermaine Gillett	Deputy Solicitor General International Legal Affairs Attorney General's Ministry	shermaine.gillett@agm.gov.bz 822-0519 624-4426
14	Belize	Christian Windsor	Environmental Officer Department of Environment	doe.info@ffsd.gov.bz 822-2819

PARTICIPANTS LIST
IMO Level III Oil Spill Pollution Preparedness,Response & Co-operation Training
Belize City, Belize
16-17 April 2015

Number	Country	Name	Title and Organization	Email and Phone
15	Belize	Idelso Iman Leslie	Foreign Service Officer (Grade I) Ministry of Foreign Affairs	idelso.leslie@mfa.gov.bz 822-2167
16	Belize	Victor Recinos	Customs and Excise Department	deputycomptrollerczce@customs.gov.bz 670-4780
17	Belize	Alden Dawson	Senior Superintendent Police Department Ministry of National Security	alden.dawson@policenet.bz 207-4933 610-2756
18	Belize	Lumen Cayetano	Senior Solid Waste Technician Solid Waste Management Authority Natural Resources and Agriculture	sw.seniortech@mnra.gov.bz 802-1527 601-6202
19	Belize	Gregory Soberanis	Commander 1st Fleet Belize National Coast Guard Ministry of National Security	gregorysoberanis@yahoo.com 225-5260 626-2631
20	Belize	Al Westby	Regional Coordinator National Emergency Management Organization	al.west@nemo.org.bz 822-2054 630-3224
21	Belize	Tirso Galvez	Operations Officer Department of Transport Ministry of Works and Transport	tegalvez001@yahoo.com departmentoftransport@yahoo 802-2038 625-7163

PARTICIPANTS LIST
IMO Level III Oil Spill Pollution Preparedness,Response & Co-operation Training
Belize City, Belize
16-17 April 2015

Number	Country	Name	Title and Organization	Email and Phone
22	Belize	Audibaldo Monima	Logistics Officer	audibaldo8@gmail.com coastguard@bncg.gov.bz
			Belize National Coast Guard	222-5260
			Ministry of National Security	601-2218
23	Belize	James Garay	Airport Supervisor/ Deputy Manager	jamesgaray.pumaenergy.com
			Operations Department	225-2156
			Puma Energy S.A. Ltd.	610-2094
24	Belize	Godwin Oshon	Senior Transport Officer	donmanoshon@yahoo.com dotbelizedistrict@yahoo.com
			Department of Transport	626-6915
			Ministry of Works and Transport	207-6802
25	Belize	Alicia Pastrana Leslie	Assistant Financial Analyst	apastrana@mof.gov.bz
			Supervisor of Insurance Office	822-3808
			Ministry of Finance	622-2661
26	Belize	Luis Enrique Verde	Foreign Service Officer	luis.verde.gov.bz
			Cooperation Unit	riquagreen@gmail.com
			Ministry of Foreign Affairs	822-8226
27	Belize	Maritza Canto	GIS Specialist	mcanto@hotmail.com
			Coastal Zone Management Authority &	223-0719
			Institute	
28	Belize	Benisford Matura	Operations Officer	bzenatfireser@yahoo.com
			National Fire Service	207-2579
			Ministry of Labor, Local Gov, Rural Development.	602-1220

PARTICIPANTS LIST
IMO Level III Oil Spill Pollution Preparedness,Response & Co-operation Training
Belize City, Belize
16-17 April 2015

Number	Country	Name	Title and Organization	Email and Phone
28	Belize	Benisford Matura	Operations Officer	bzenatfireser@yahoo.com
			National Fire Service	207-2579
			Ministry of Labor, Local Gov, Rural Development.	602-1220
29	Belize	Mark Bernard	Senior Public Health Inspector	RHM@WHR.health.gov.bz mebernard30@yahoo.com
			Public Health	802-0501
			Ministry of Health	627-8736
30	Belize	Ted Smith	Fire Chief	bzenatfireser@yahoo.com
			National Fire Service	207-2579
			Ministry of Labor, Local Gov, Rural Development.	610-0585

Annex 3 – Agenda – One day Sensitization Workshop

RAC-REMPEITC Caribe

CTIVITY CENTRE / REGIONAL MARINE POLLUTION EMERGENCY,
RMATION AND TRAINING CENTRE - WIDER CARIBBEAN REGION

AGENDA
Belize - Oil Spill Training
15 April 2015

Wednesday, April 15th 2015		**Facilitator**
08:30 – 09:00	Registration of participants	
09:00 – 09:30	Welcoming remarks and introduction to agenda	Monsanto / Lattanzi
09:30 – 10:00	1. Causes, fate and effects of spilled oil	Dr. Patel
10:00 – 10:45	2. Spill response strategies (mechanical & alternate technologies)	Dr. Taylor
10:45 – 11:00	*Tea/Coffee Break*	
11:00 – 11:30	3. Contingency planning, ESI maps, NEBA	Lattanzi
11:30 – 12:00	4. Spill response objectives	Dr. Taylor
12:00 – 12:30	5. Communications and media issues	Lattanzi
12:30 – 13:30	*Lunch Break*	
13:30 – 14:00	7. International co-operation & legal frameworks	Dr. Taylor
14:00 – 14:30	8. Spill management: roles and responsibilities	Lattanzi
14:30 – 14:45	*Tea/Coffee Break*	
14:45 – 15:15	9. Belize prevention and response protocols and RETOS evaluation results	Monsanto
15:15 – 15:45	Q&A session	All
15:45 – 16:00	Closing remarks	Lattanzi/Monsanto

Annex 4 – Agenda – Two day IMO Level III OPRC Workshop

RAC-REMPEITC Caribe
REGIONAL ACTIVITY CENTRE / REGIONAL MARINE POLLUTION EMERGENCY, INFORMATION AND TRAINING CENTRE - WIDER CARIBBEAN REGION

AGENDA

Belize - IMO Level III Oil Spill Training

16-17 April 2015

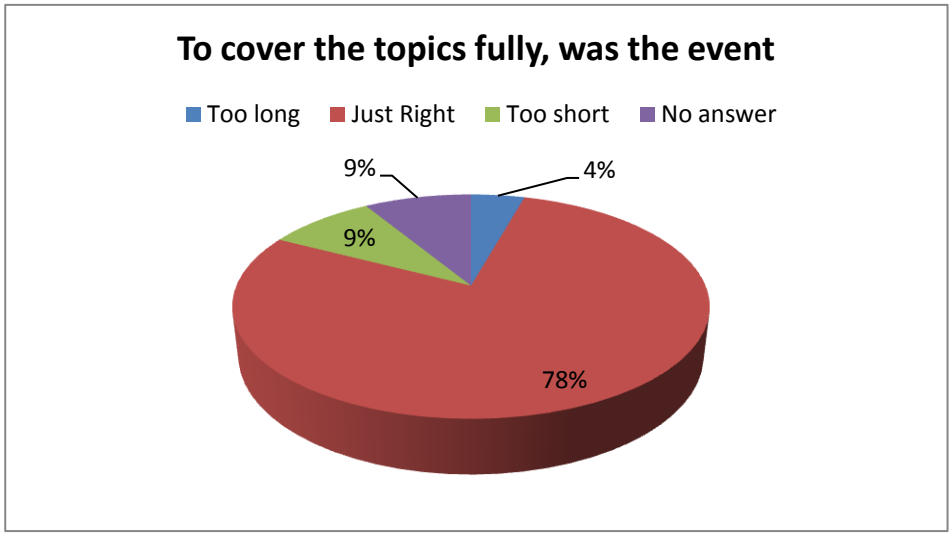
Day 1: Thursday, April 16th 2015		**Facilitator**
08:00 – 08:30	Registration of participants	
08:30 – 09:00	Welcoming remarks	CEO Adele Catzim Sanchez
09:00 – 09:15	Introduction of the training	Lattanzi
09:15 – 10:15	1. Causes, fate and effects of spilled oil	Patel
10:15 – 10:30	*Tea/Coffee Break*	
10:30 – 11:30	2. Spill response strategies	Taylor
11:30 – 12:30	3. Contingency planning, ESI maps, NEBA	Lattanzi
12:30 – 13:30	*Lunch Break*	
13:30 – 14:15	4. Liability and compensation	Patel
14:15 – 15:00	5. International co-operation & legal frameworks	Taylor
15:00 – 15:15	*Tea/Coffee Break*	
15:15 – 16:00	6. Spill management: roles and responsibilities	Lattanzi
16:00 – 16:15	Q&A session	All
16:15 – 16:30	Group photo	All

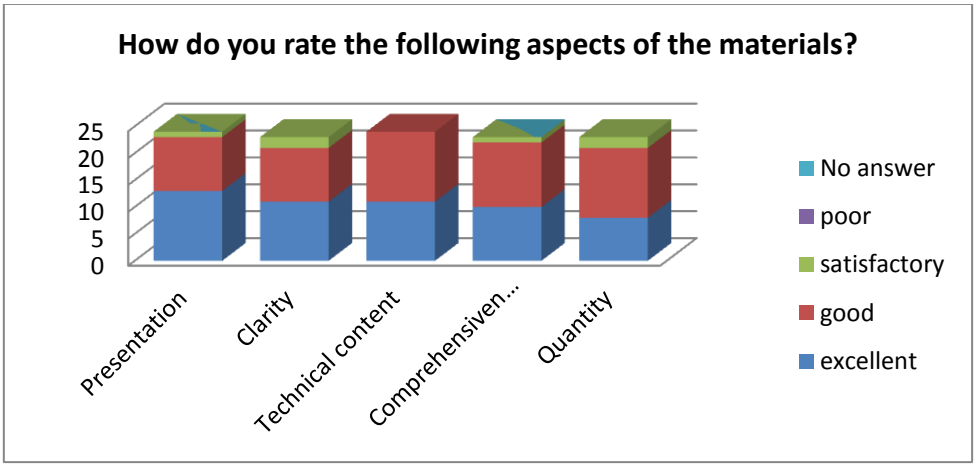
Day 2: Friday 17 April, 2015		**Facilitator**
08:30 – 09:30	7 Communications and media issues	Lattanzi
09:30 – 10:30	8. Spill response objectives	Taylor
10:30 – 10:45	*Tea/Coffee Break*	
10:45 – 11:15	9. Termination of response	Patel
11:15 – 12:00	10. Belize prevention and response protocols and RETOS evaluation results	Monsanto
12:30 – 13:30	*Lunch Break*	
13:30 – 14:30	11. Simulation exercise	Taylor
14:30 – 14:45	*Tea/Coffee Break*	
14:45 – 15:45	12. Action list development	All
15:45 – 16:00	Q&A session	All
16:00 – 16:30	13. Closing remarks, presentation of certificates	All

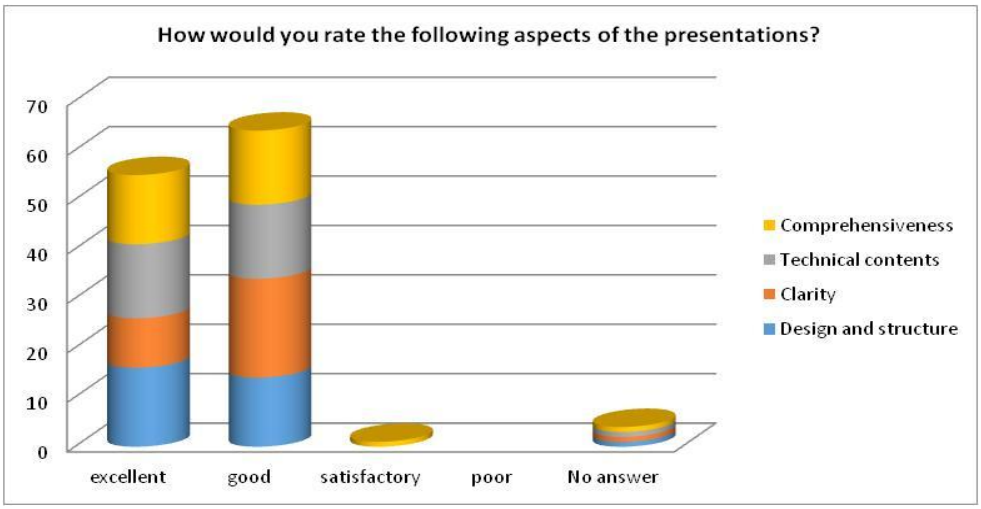
Annex 5 – Group Picture of IMO Level III OPRC Training

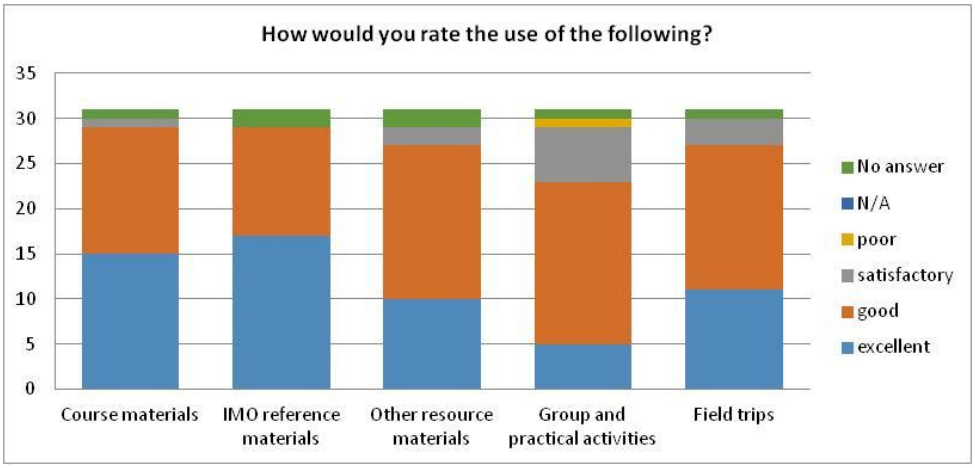
Regional Activity Center / Regional Marine Pollution Emergency, Information and Training Center
Wider Caribbean Region
Seru Mahuma z/n, Aviation and Meteorology Building, Curaçao
Phone: 5999-868-4612 / 868-3409; Fax: 5999-868-4996; Email: rempeitc@cep.unep.org

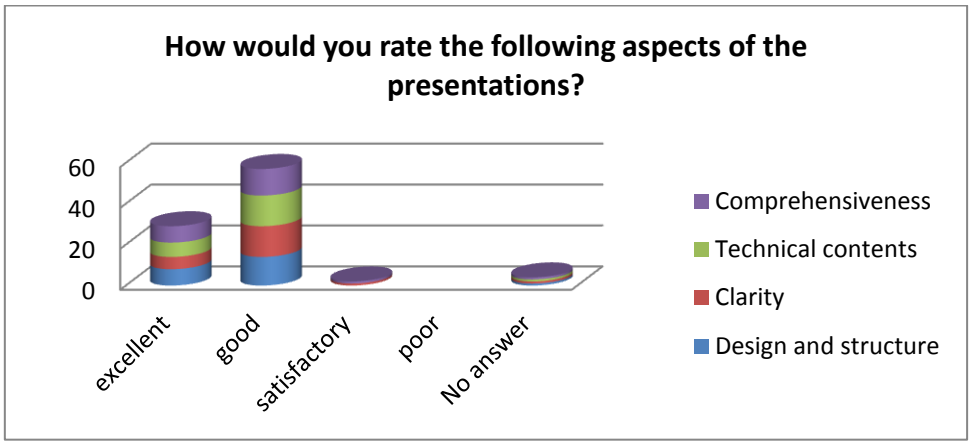
Annex 6 – Results of the workshop evaluation

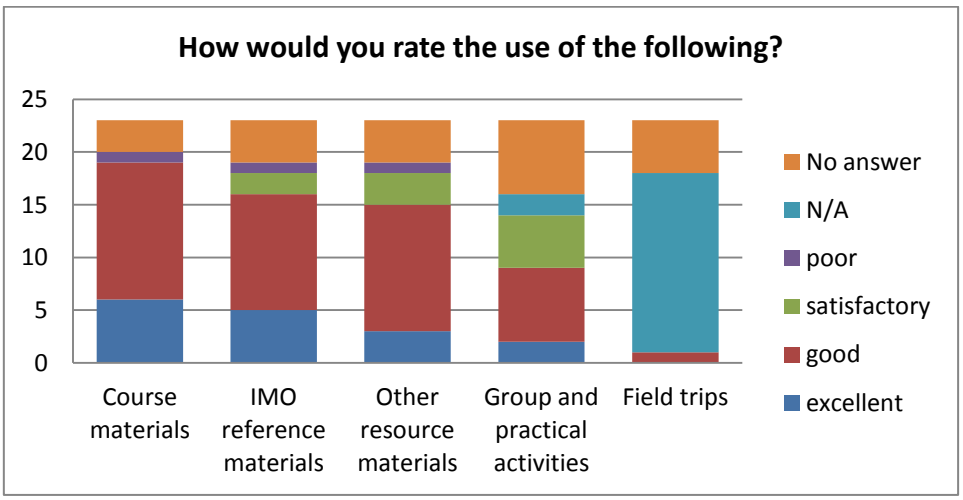




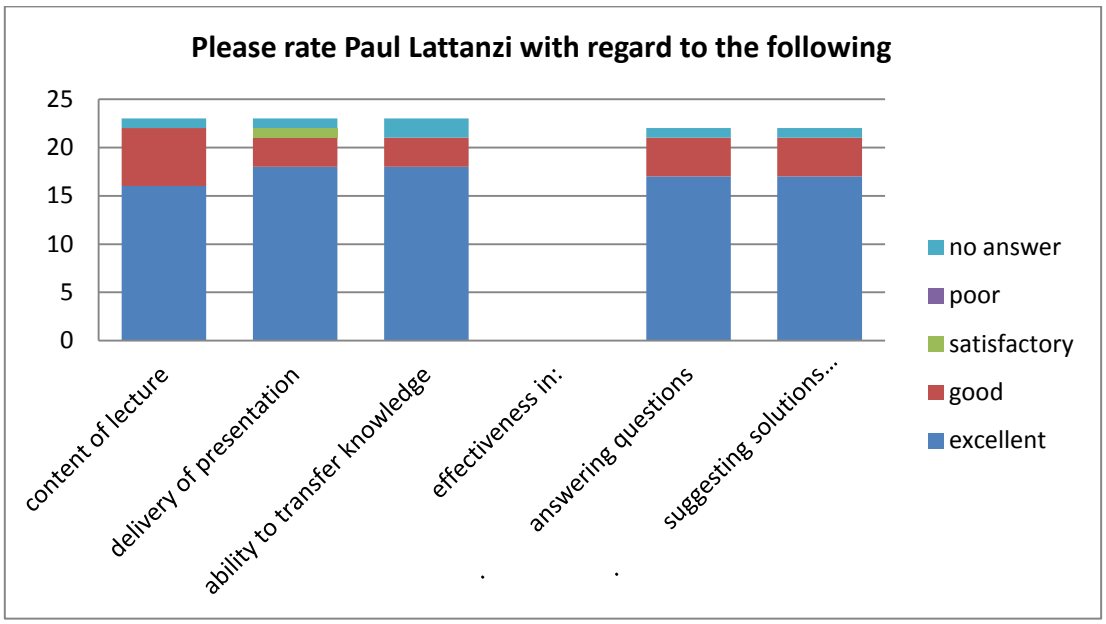


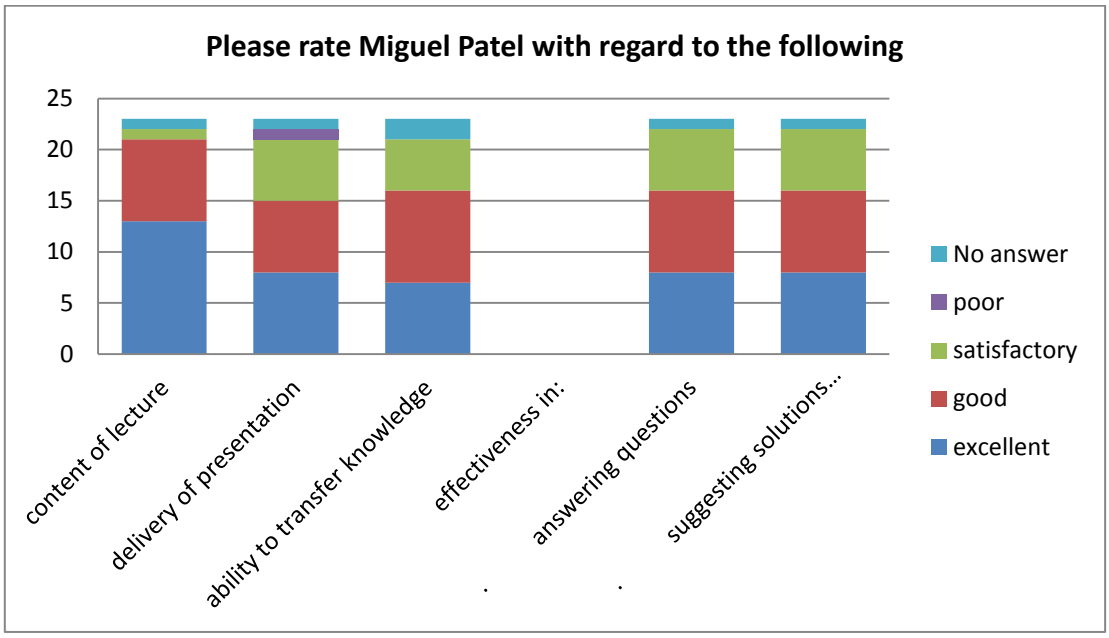


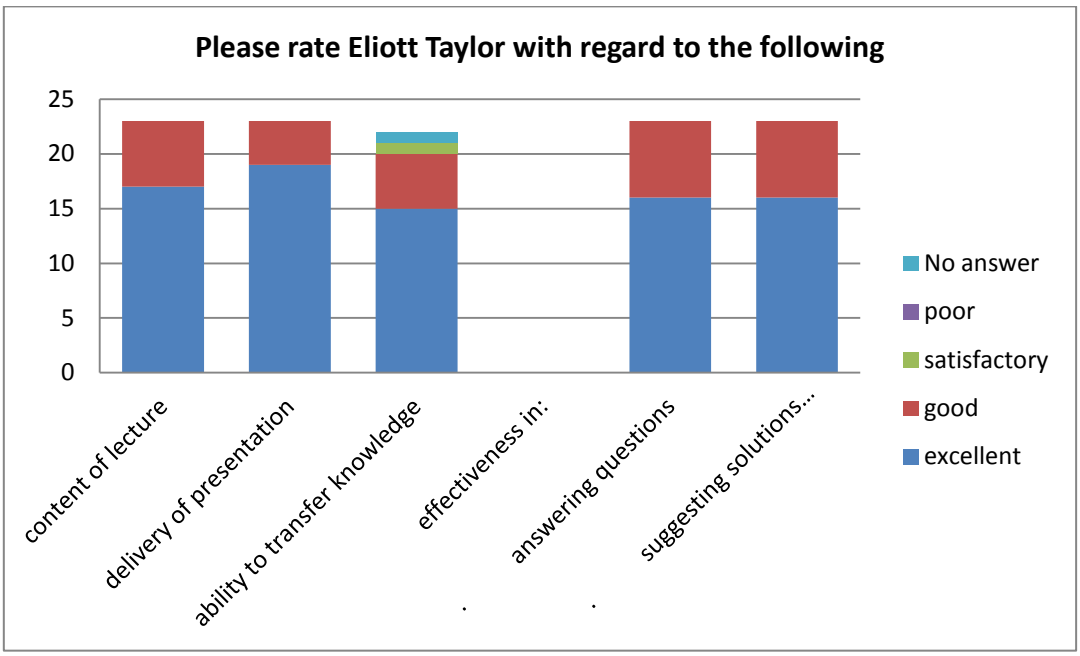


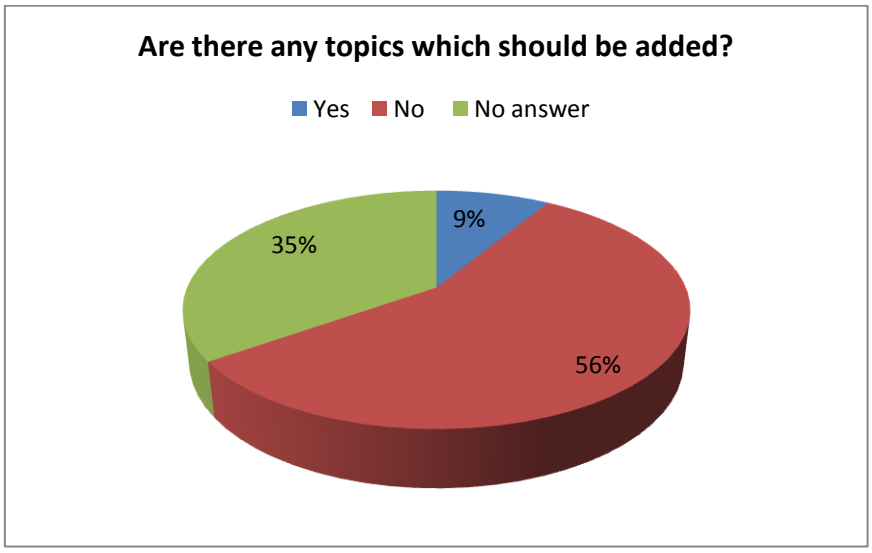


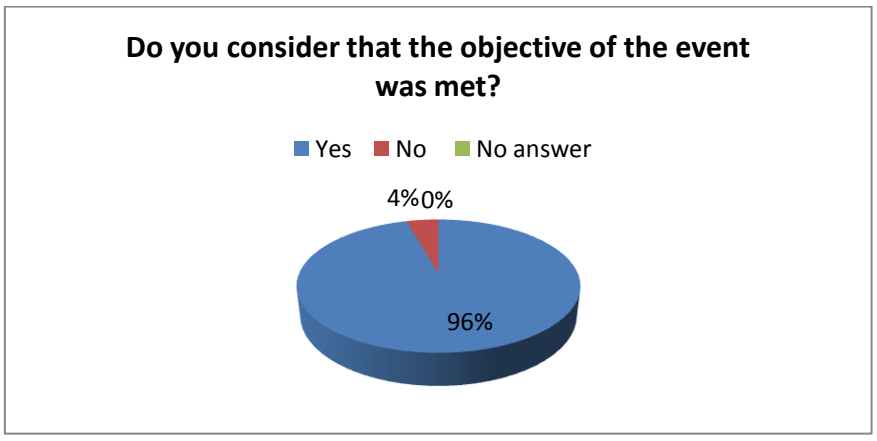
Regional Activity Center / Regional Marine Pollution Emergency, Information and Training Center
Wider Caribbean Region
Seru Mahuma z/n, Aviation and Meteorology Building, Curaçao
Phone: 5999-868-4612 / 868-3409; Fax: 5999-868-4996; Email: rempeitc@cep.unep.org

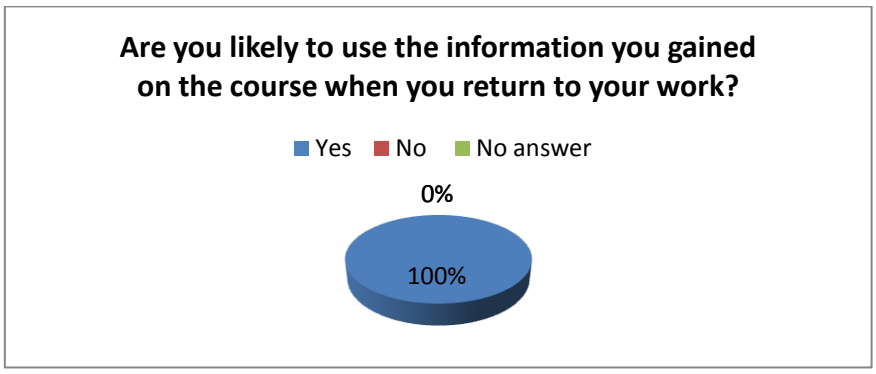

Please rate Paul Lattanzi with regard to the following
25
20
15
10
5
0
content of lecture
delivery of presentation
ability to transfer knowledge
effectiveness in:
answering questions
suggesting solutions...
no answer
poor
satisfactory
good
excellent

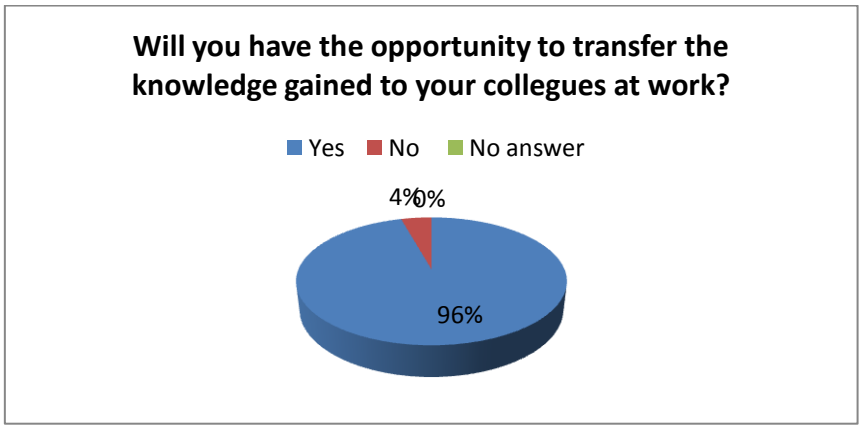

Please rate Miguel Patel with regard to the following
25
20
15
10
5
0
content of lecture
delivery of presentation
ability to transfer knowledge
effectiveness in:
answering questions
suggesting solutions...
No answer
poor
satisfactory
good
excellent


Please rate Eliott Taylor with regard to the following
25
20
15
10
5
0
content of lecture
delivery of presentation
ability to transfer knowledge
effectiveness in:
answering questions
suggesting solutions...
No answer
poor
satisfactory
good
excellent


Are there any topics which should be added?
Yes
No
No answer
9%
35%
56%


Do you consider that the objective of the event was met?
Yes
No
No answer
4%
0%
96%





Comments given

- Course was very good, presentations were clear and transparent
- Time factor needs to be improved
- Very excellent presentations overall. Very informative.
- Must be continued in regards to developing the National Oil Spill Contingency Plan.
- The information presented was of great interest and very timely since Belize is in the early stages of oil exploration and interest against offshore oil exploration. Belize has a lot to lose if there should ever be any oil spill offshore. One of the most on major economy earner of Belie is in the tourism and fishing industry. An oil spill could mean total disaster for Belize.
- The workshop was excellent. I think we (Belize) should proceed with establishing our Oil Spill Response Plan immediately since some of the information to be included needs legislative approval; which will take some time.
- The workshop was great. I especially like that the NGOs have been educated. We all hope that actionable items come from this.
- Strategic objectives require strategic actions. Much of the discussion revolved around tactical and operational level operations. More could have been achieved/gained through higher level of discussion.

- Just a general observation, that most of the presentations focused mainly on oil spills of aquatic nature. It would have been a more balanced workshop had the content of the presentation focused on land spills as well.
- I believe that the topics is very useful as the incident of oil spills are likely to occur in our waters and even on land, although we have not had any such major oil spills here before. But it is good to prepare.
- The workshop was very informative and provided useful information. The ?? was good and the presentations were knowledgeable.
- Is important to have the knowledge and what to do in case there is an impacting oil spill. Not knowing would b a disaster.
- Excellent workshop in the event an oil spill DOEs occur.
- This was a very informative work shop for me cuz I never study anything on oil spill before.
- Very good information and presentation the lecturers were very experienced and informative.

Annex 7 - Course Certificate

Regional Activity Center/ Regional Marine Pollution Emergency

Information And Training Center - Caribbean (RAC/REMPEITC-Caribe)

Certifies that

Adele Catzim-Sanchez

has completed

IMO LEVEL III OIL SPILL PREPAREDNESS AND RESPONSE TRAINING

Belize City, Belize, 16-17 April 2015

Under the auspices of the International Maritime Organization and with the cooperation of the Government of Belize.

CDR Paul R. Lattanzi Senior IMO Consultant **RAC/REMEPTIC - Caribe**	**Dr. Elliott Taylor** IMO Consultant **Polaris Applied Science**	**Mr. Miguel Patel** Technical Advisor **ITOPF**	**Mr. Martin Alegria** Chief Environmental Officer **Department of the Environment**

Regional Activity Center / Regional Marine Pollution Emergency, Information and Training Center
Wider Caribbean Region
Seru Mahuma z/n, Aviation and Meteorology Building, Curaçao
Phone: 5999-868-4612 / 868-3409; Fax: 5999-868-4996; Email: rempeitc@cep.unep.org