



## SHORT TRAINING INITIATIVE 2016

TRAINING ON SCIENTIFIC CRUISE PLANNING, OCEANOGRAPHIC SAMPLING, FISHERIES AND DATA MANAGEMENT  
18 – 27 APRIL, 2016 AT KMFRI, MOMBASA, KENYA

### PROGRAMME

Monday 18 April 2016

#### OPENING SESSION

08:30 – 09:00 REGISTRATION

09:00 – 10:30 OPENING SESSION

**Welcome remarks by** Dr. Renison Ruwa, director KMFRI

**Speech by** Mr. Mika Odido, IOC Africa

**Opening speech by** Mr. Vincent Willekens, Embassy of Belgium in Nairobi

**Speech by** dr. Delphine Vanhaecke, Flanders Marine Institute (VLIZ)

**Presenting VLIZ and the trainers:** Dr. Andre Cattrijsse, Mr. Francisco Hernandez, Mr. Klaas Deneudt and dr. Harrison Ong'anda

**Aims and objectives of the training by** Dr. Delphine Vanhaecke

10:30 – 11:00

Coffee break

11:00 – 13:00 **Meet the participants:** sharing experiences and expectations  
(pitch presentation of 5 minutes by each participant)

13:00 – 14:00

LUNCH

#### SESSION 1: INTRODUCING RV MTAFITI

14:00 – 17:30 **RV Zeeleeuw (now RV Mtafiti): sharing experiences by** Andre Cattrijsse (VLIZ, Belgium)

- Overview of research conducted with RV Zeeleeuw in the North Sea
- How VLIZ managed RV Zeeleeuw

**RV Mtafiti: Maiden Voyage and strategy plan by** Enock Wakwabi (KMFRI, Kenya)

**Opportunities for RV Mtafiti in the Second International Indian Ocean Expedition (IIOE2) by** Mika Odido (IOC Africa, Nairobi, Kenya)

(+coffee break)



Tuesday 19 April 2016

**SESSION 2: OPERATING A RESEARCH VESSEL (ANDRE CATTRIJSE AND FRANCISCO HERNANDEZ)**

**09:00 – 12:30 Planning a scientific cruise – dr. Andre Cattrijsse (VLIZ)**

- marry scientific wishes with financial constraints
- marry different research disciplines on one cruise
- launching ship call requests and making a sailing schedule
- cruise reporting/debriefing
- setting up an (inter)national network
- conduct onboard of scientific and naval crew: tasks and responsibilities – campaign leader and captain

**Budgeting:** crew, fuel, maintenance and repair, insurance, harbor and pilot taxes, certification/inspection, shore staff, telecommunication, ...)

**Calculating daily rates or rate per cruise**

**Introduction to Data management – CTD data and monthly cruises** by Mr. Francisco Hernandez (VLIZ)

**Introduction to Data management – collecting data on monthly cruises** by Mr. Francisco Hernandez (VLIZ)

**Introduction to Data management plan** by Harisson Ong’anda (KMFRI)

(+coffee break)

**12:30 – 13:30 LUNCH**

**SESSION 3. SAMPLING EQUIPMENT**

**13:30 – 17:30 Overview of available sampling equipment on board or at KMFRI** by dr. Edward Kimani (KMFRI)

**Sampling equipment onboard RV Mtafiti: use, maintenance and research opportunities** by Mr. Francisco Hernandez (VLIZ)

- DGPS, PC's, Single-beam echosounder, underway data acquisition system, Van Veen grab, Niskin bottle, water purification system, conductivity temperature depth profiler (CTD), fume hood, thermosalinograph, plankton net

**General overview of fisheries techniques and application** by dr. Andre Cattrijsse (VLIZ)



**Overview of fisheries techniques applied in Kenya EEZ and WIO region at large by  
dr. Edward Kimani (KMFRI)**

**Group discussion for fisheries research in WIO region: opportunities and  
challenges (led by dr. Harisson Ong'anda (KMFRI))**

**(+coffee break)**

**Reception provided by KMFRI**

**Wednesday 20 April 2016**

**SESSION 3. PRACTICAL EXERCISE**

**09.00 – 11:00 Operating a research vessel: practical exercise**

- What type of research can be done with RV Mtafiti: discussion with trainers
- Trainers propose a scientific research question and develop a cruise plan accordingly

**EARLY LUNCH AT KMFRI**

- Trip of approx. 2.5 hours to Port of Shimoni where RV Mtafiti is docked – minibus (KENATCO)
- Visit onboard RV Mtafiti – preparing for two-day cruise – meeting captain and crew Mtafiti

(dinner and sleeping onboard RV Mtafiti)

**Thursday and Friday 21-22 April 2016**

**SESSION 4. TRAINING ONBOARD RV MTAFITI**

**07:00 – 17:00**

- Carrying out the developed cruise plan
- Demonstrating the use of all sampling equipment on board
- Communication with naval crew on board
- Conduct and responsibilities on board (for navy crew and scientists)
- RV Mtafiti as a training platform (educational purposes)

Thursday evening: sleeping onboard RV Mtafiti in Port of Shimoni

Friday evening: return to Mombasa by minibus (KENATCO) at 18:00

(weekend break 23-24 April)



### Monday 25 April 2016

#### **SESSION 5. DEBRIEFING AND ROUNDTABLE DISCUSSION**

**9:00 – 12:00**

##### **Debriefing**

(participants make a cruise report and lead the debriefing)

##### **Roundtable discussion:**

- explore opportunities for joint research
- explore opportunities for training/education onboard RV Mtafiti

**12:00 – 13:00**

**LUNCH**

**SOCIAL ACTIVITY: VISIT TO SOME OF THE NATURAL RESOURCE MANAGEMENT PROJECTS AROUND MOMBASA**

### Tuesday 26 April 2016

#### **SESSION 6. DATA MANAGEMENT – STORAGE AND PROCESSING OF COLLECTED DATA**

Trainers (Klaas Deneudt (VLIZ) and dr. Harrison Ong'anda (KMFRI))

**09:00 – 12:30 Underway data**

- Storage and file organization
- Data processing and QC
- Documenting and archiving

**12:30 – 13:30**

**LUNCH**

**13:30 – 16:30 CTD data**

- Storage and file organization
- Data processing and QC
- Documenting and archiving

### Wednesday 27 April 2016

#### **SESSION 6. DATA MANAGEMENT – STORAGE AND PROCESSING OF COLLECTED DATA**

Trainers (Klaas Deneudt (VLIZ) and dr. Harrison Ong'anda (KMFRI))

**09:00 – 12:30 Station data**

- Storage and file organization
- Data processing and QC
- Documenting and archiving

**12:30 – 13:30**

**LUNCH**

**13:30 – 16:30 Data analysis and visualization**

**Discussion (+ training evaluation: filling in the forms)**