WESTERN INDIAN OCEAN REGIONAL INITIATIVE IN MARINE SCIENCE AND EDUCATION (WIO–RISE) NETWORK

ACCOMPLISHMENTS AND CHALLENGES

ALFONSE M. DUBI - ACADEMIC DIRECTOR
ANTONIO M. HOGUANE
CHRIS REASON
1. WIO-RISE NETWORK PARTNERS

UNIVERSITY OF DAR ES SALAAM,
Institute of Marine Sciences, ZANZIBAR, TANZANIA

EDUARDO MONDLANE UNIVERSITY
School of Marine and Coastal Studies, Quelimne,
MOZAMBIQUE

UNIVERSITY OF CAPE TOWN
Oceanography Dept., SOUTH AFRICA
2. WIO-RISE OBJECTIVES

2.1 Main Objective:

To build scientific and technological capacity and to catalyze excellence in research and training in marine science in the WIO- region for sustainable development, utilization of coastal and marine resources; and protection of the coastal and marine environment.
2. WIO-RISE OBJECTIVES

2.2 Specific Objectives:
• To provide graduate training in the WIO –Region
• To provide specialized field and laboratory facilities;
• To provide opportunities to visiting faculty from outside the WIO-Region region;
• To provide research funding and opportunities for WIO-Regional faculty and students
• To enhance communication between the network partners
• To enhance regional collaboration in marine sciences and technology: education, research and development
3. ACHIEVEMENTS

3.1 POSTGRADUATE TRAINING

- Scholarship announcements and dissemination of information on WIO-RISE:
  - Scholarships were announced in the Institute’s and WIOMSA’s websites
  - Visits were made in Kenya (UoN) and Mauritius taking advantage of other meetings
  - Emails were circulated to contacts in Madagascar, Seychelles and the Comoros
  - Received 30 applications from Tanzania, Kenya, Mauritius, Mozambique and South Africa

- Selection
3.1 POSTGRADUATE TRAINING cont’d

• Selection of students: 12 students were selected

Selection was done based on the following criteria; (1) academic merits of the applicant (2) geographic distribution in the region and (3) gender and (4) institution from which they come and (5) recommendation from their home university. and awarded WIO-RISE scholarship.
<table>
<thead>
<tr>
<th>Serial no.</th>
<th>Names</th>
<th>Gender/COUNTRY</th>
<th>Degree</th>
<th>Research topic</th>
<th>University admitted</th>
<th>Academic advisor</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Francis M. Mwonjoria</td>
<td>Male KENYA</td>
<td>PhD</td>
<td>Composition, structure and dynamics of ichyoplankton communities and their simulation model in Kenyan coastal mangrove creeks</td>
<td>UDSM</td>
<td>Dr. Narriman S. Jiddawi</td>
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<tr>
<td>2</td>
<td>Grace M. Mutia</td>
<td>Female KENYA</td>
<td>PhD</td>
<td>Variations in nutritional value, biochemical composition, fatty acid profiles and heavy metal accumulation in selected seaweeds along Kenyan coast</td>
<td>UDSM</td>
<td>Prof A. N. N. Muzuka</td>
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<tr>
<td>3</td>
<td>Salum S. Hamed</td>
<td>Male TZ</td>
<td>PhD</td>
<td>Population structure, connectivity and reproductive biology of spinner dolphins of coastal waters</td>
<td>UDSM</td>
<td>Dr. Narriman S. Jiddawi &amp; Prof Per Begren</td>
</tr>
<tr>
<td>4</td>
<td>Avelino A. Langa</td>
<td>Male MZ</td>
<td>MSc</td>
<td>Marine Biology and Resource Management</td>
<td>UDSM</td>
<td>Coursework</td>
</tr>
<tr>
<td>5</td>
<td>Fialho P. Nehama</td>
<td>Male MZ</td>
<td>PhD</td>
<td>Numerical Modelling of the river plume</td>
<td>UCT</td>
<td>ProfS. C. Reason D D. Bowers UCT</td>
</tr>
<tr>
<td>6</td>
<td>Siajali Pamba</td>
<td>Male TZ</td>
<td>PhD</td>
<td>The potential use of numerical modelling for impact assessment of sewage dispersion on coastal waters</td>
<td>UDSM</td>
<td>Prof. Alfonse Dubi</td>
</tr>
<tr>
<td>7</td>
<td>Bibi S. Sadally</td>
<td>Female MAUR</td>
<td>PhD</td>
<td>Mapping genetic diversity of microalgae in the lagoons of the</td>
<td>UCT</td>
<td>UCT (TBD)</td>
</tr>
<tr>
<td>8</td>
<td>Jayshree S. Persand</td>
<td>Female MAUR</td>
<td>PhD</td>
<td>Spatio-temporal distribution and genetic characterisation of some macroalgae of the</td>
<td>UCT</td>
<td>UCT (TBD)</td>
</tr>
<tr>
<td>9</td>
<td>Pramod K. Chumun</td>
<td>Male MAUR</td>
<td>MSc</td>
<td>Marine Biology and Resource Management</td>
<td>UDSM</td>
<td>Coursework</td>
</tr>
<tr>
<td>10</td>
<td>Joseph J. Ravina</td>
<td>Male MAUR</td>
<td>MSc</td>
<td>Marine Biology and Resource Management</td>
<td>UDSM</td>
<td>Coursework</td>
</tr>
<tr>
<td>11</td>
<td>Kathryn A. Jolly</td>
<td>Female SA</td>
<td>MSc</td>
<td>Aspects of the biology and fishery of the blue shark (prionace glauca) in waters</td>
<td>UCT</td>
<td>Dr. Colin G. Attwood (UCT)</td>
</tr>
<tr>
<td>12</td>
<td>Lightness E. Mrema</td>
<td>Female TZ</td>
<td>MSc</td>
<td>Modelling of hydrodynamics</td>
<td>UDSM</td>
<td>Prof. Alfonse M. Dubi</td>
</tr>
</tbody>
</table>
3.2 PROCUREMENT OF FIELD AND LAB EQUIPMENT

- **UDSM:** (1) Workstation
  (2) Secretariat facilities (desktop computer, printer/scanner, office furniture)
  (3) Internet connection support
- **UEM:** (1) coastal water survey fiberglass boat, a desktop computer (HP BX 2300 80 GB), a laptop computer and a CTD standard set.
3.3 RESEARCH FUND

• Each of the network nodes has received US$20K to support multidisciplinary research in WIO-RISE themes
4. CHALLENGES

(1) Getting students from Island States is not easy. It was difficult to get candidates from Madagascar, during which time there was a political instability. There is a chance of getting a student from the COMOROS.

(2) Some students preferred to register in their home Universities and did not see the reason why they should register at UDSM, UEM or UCT only, e.g. UoN and UoMauritius.

(3) Some Universities a ‘waiting’ list of academic for training. One must have the prerequisite qualifications before being offered a job. The Universities therefore recommend potential candidates for scholarships, e.g. UoN and UoMauritius.
WIO-RISE IS SHOWING THE WAY TO MARINE SCIENCE EDUCATION!

THANK YOU