



CLIVAR IORP/POGO Regional training workshop on observing the coastal
and marginal seas in the western Indian Ocean

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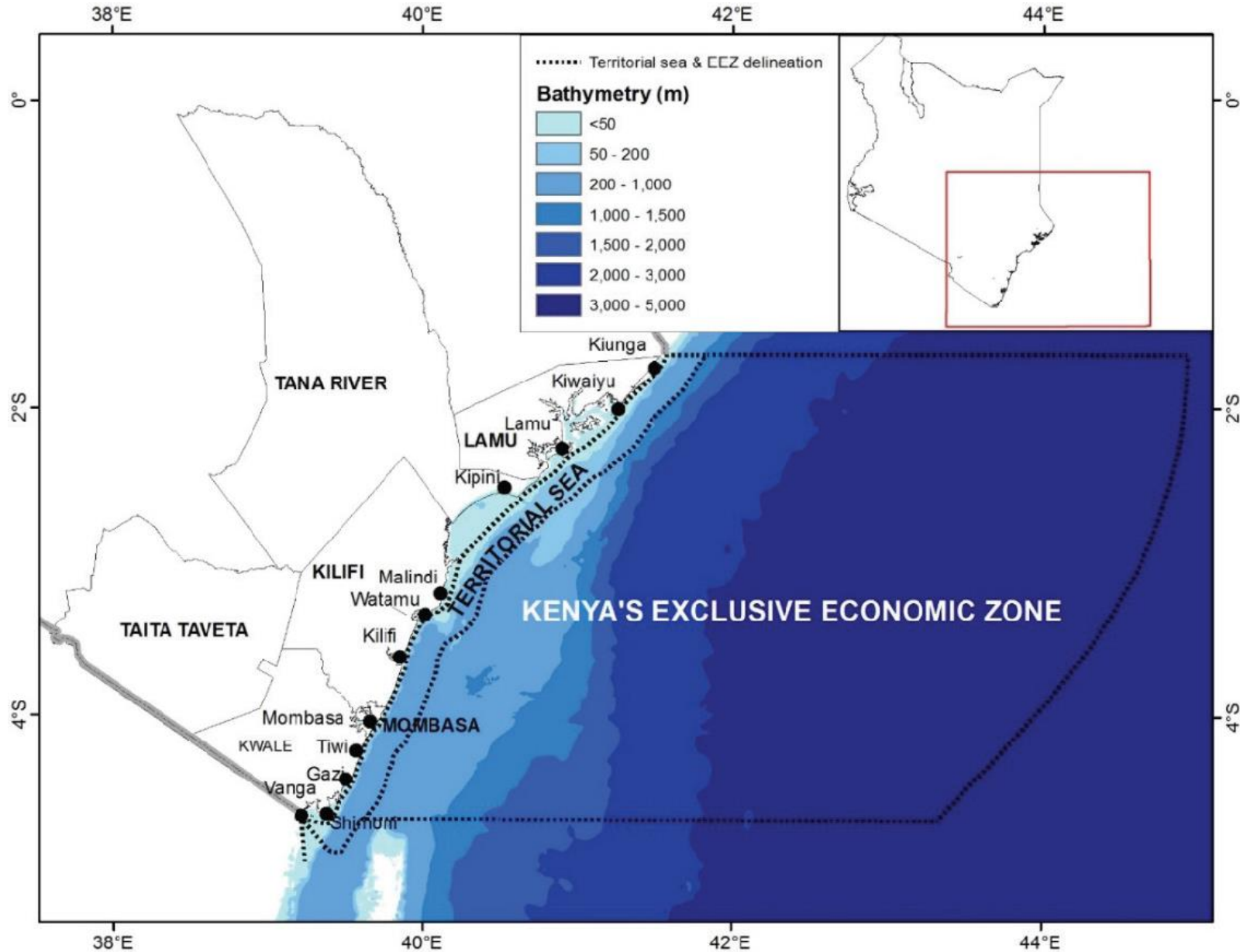
Kenya Marine & Fisheries Research Institute (KMFRI)

- ✓ Established in 1979
- ✓ Mandate:
 - ✓ undertake research in marine
 - ✓ advice the government on wise uses of aquatic resources
- ✓ Regional Centre of Excellence in Marine Research

www.kmfri.co.ke



KENYA'S MARITIME SPACE –SIZE OF THE KENYAN WATERS



Maritime:

- 370 km from the shore into the ocean;
- 600 km of coastal length;

Inland waters: 10,700 km² of navigable space

Total water surface

- 240,700 km² of country's total area of 580,367 km² (42%)

KMFRI Marine vessels

RV Mtafiti equipped with;

- Simrad EK60 multi-frequency split beam hydro acoustic echo sounder for fish acoustics and bathymetry
- Acoustic Doppler Current Profiler (ADCP) provides specific information on oceanic currents
- Sediment grab for collecting sediment samples
- Zooplankton and

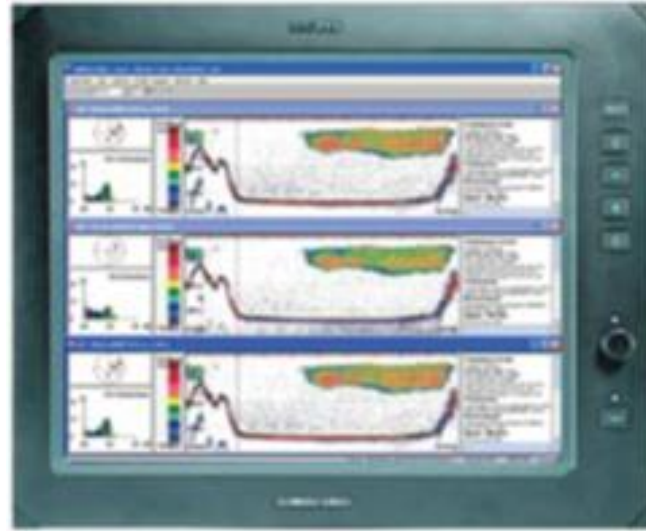


Onboard equipment

Niskin water sampler
rosette



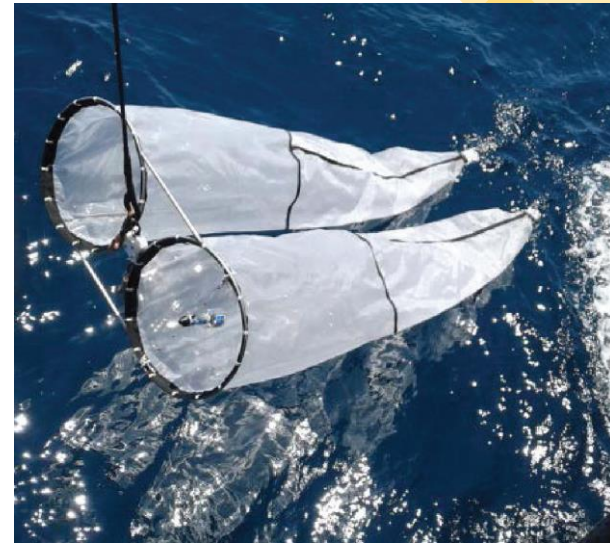
Simraf EK60 eco-sounder



(CTD)



Zooplankton net



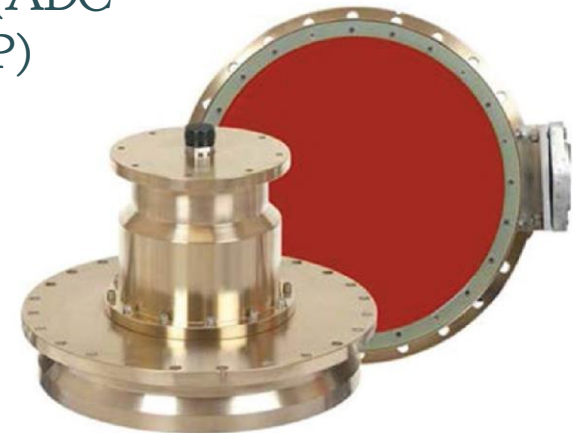
Van Veen grab



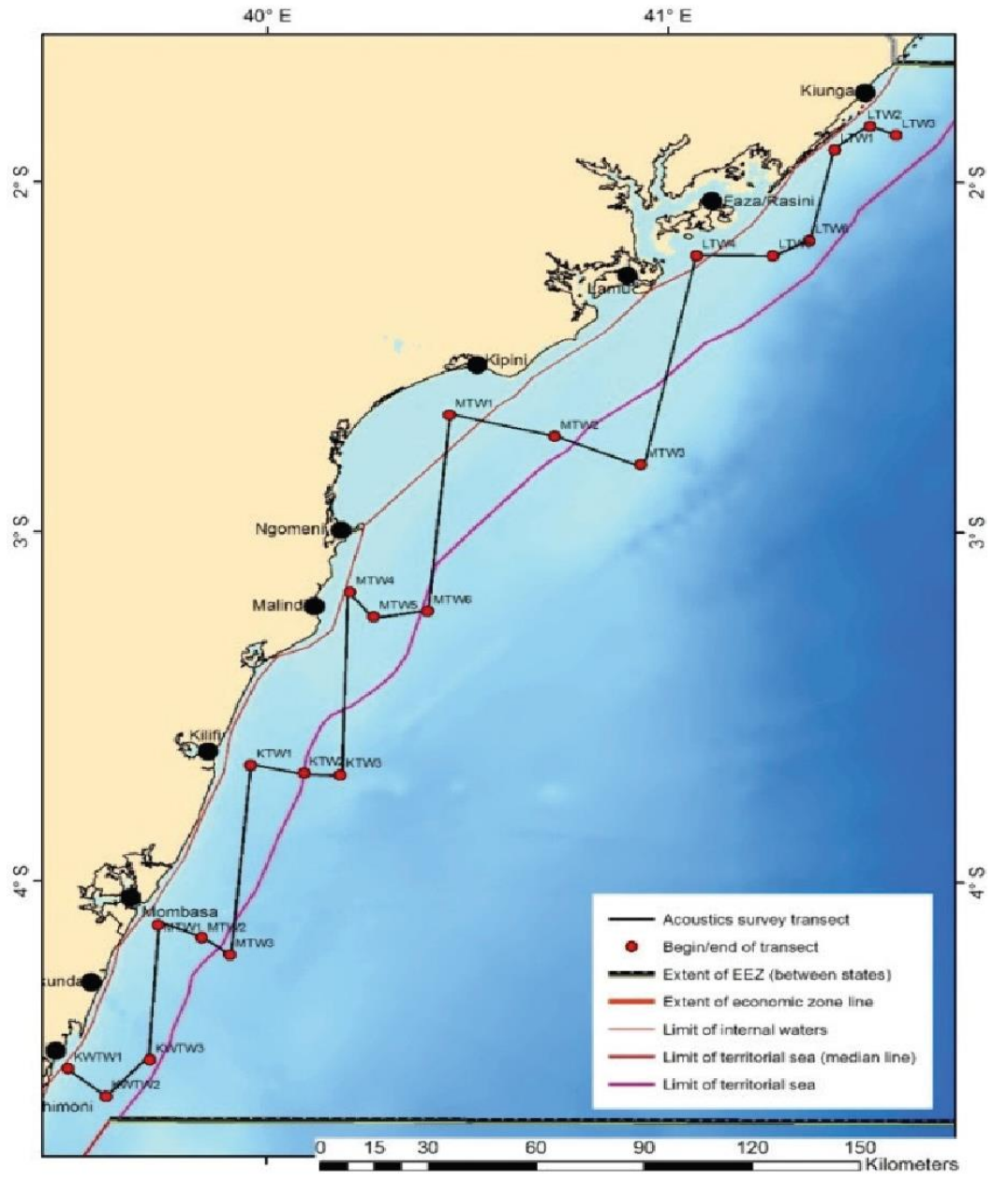
Piston Corer



(ADC
P)



Territorial waters cruise transects and sampling stations



Sea level monitoring

- Global Sea Level Observing System (GLOSS) program developed by Intergovernmental Oceanographic Commission (IOC) of UNESCO in 1985, Kenya is party
- Kenya Marine & Fisheries Research Institute (KMFRI) manages two sea level monitoring stations along the Kenyan coast: Mombasa and Lamu
- Program useful in Tide predictions, World Oceans Circulation Experiment (WOCE) and Tsunami warning

2022 HIGH-LOW AND HOURLY TIDE PREDICTIONS FOR MOMBASA AND LAMU



Intergovernmental
Oceanographic
Commission



Produced by
KENYA MARINE AND FISHERIES
RESEARCH INSTITUTE (KMFRI)

ISO 9001:2015
CERTIFIED

- Gaps:
 - Few trained specialist in use of the equipment
 - Few ocean monitoring campaigns
- Future plans
 - Install Argo float
 - Purchase of marine robotics



THAN YOU