



NATIONAL OIL SPILL PREPAREDNESS STATUS FOR UNITED REPUBLIC OF TANZANIA

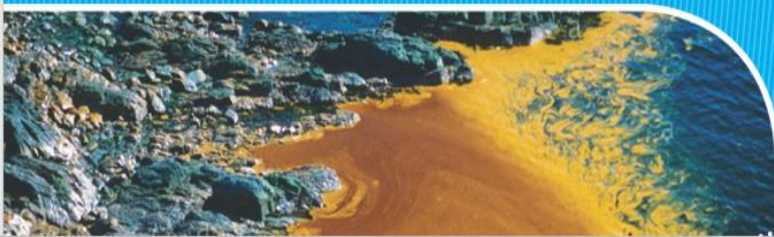


**REGIONAL WORKSHOP ON COOPERATION IN PREPAREDNESS AND
RESPONSE TO MARINE POLLUTION INCIDENTS**

3rd – 5th MARCH 2020

HOTEL VERDE, ZANZIBAR, TANZANIA

THE NATIONAL MARINE OIL SPILL RESPONSE CONTINGENCY PLAN

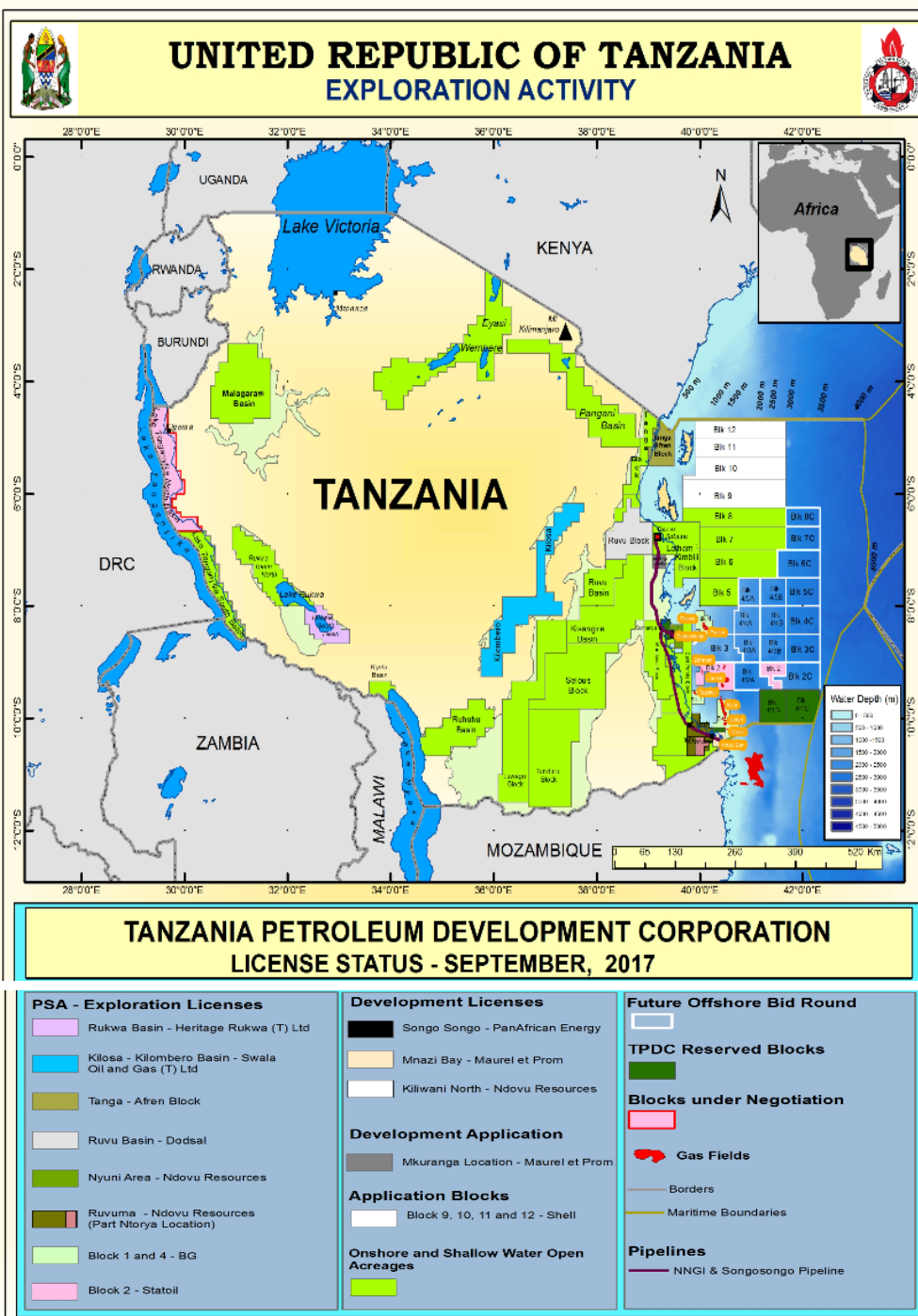


REVOLUTIONARY GOVERNMENT OF ZANZIBAR
MINISTRY OF INFRASTRUCTURE, COMMUNICATIONS AND
TRANSPORTATION



ZANZIBAR MARINE OIL SPILL RESPONSE CONTINGENCY PLAN (ZMOSRCP)

FOR THE IMPLEMENTATION OF IMO INSTRUMENTS



KEY AUTHORITIES

- Who is/are the **National Competent Authority** or authorities?

Tanzania Shipping Agency Corporation (TASAC)

For Tanzania Zanzibar : Zanzibar Maritime Authority (ZMA)

- Who is the **Operational Authority** (if different) i.e. 24 hour contact for reporting/liaison?

Tanzania Shipping Agency Corporation (TASAC)

For Tanzania Zanzibar : Zanzibar Maritime Authority (ZMA)

- Who is the authority which can **request or render assistance** from other countries?

Ministry of Foreign Affairs and East African Cooperation on behalf of the United Republic of Tanzania.

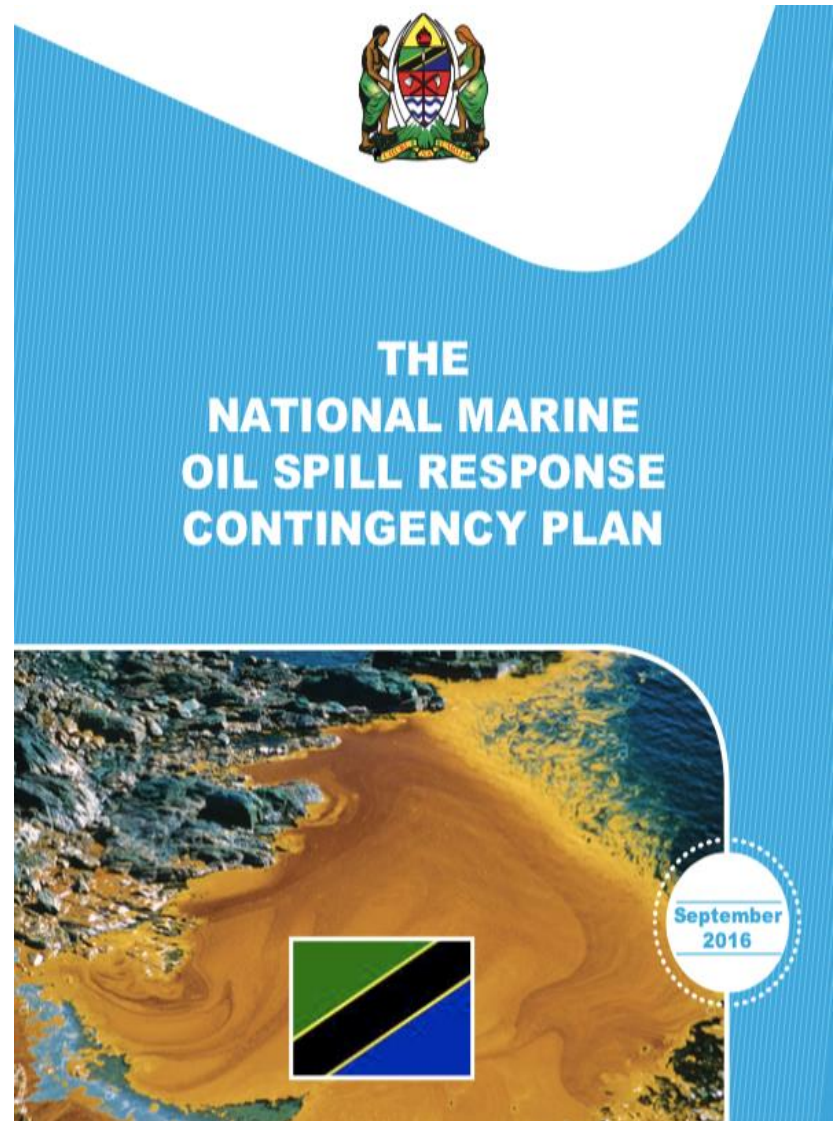
NATIONAL OIL SPILL CONTINGENCY PLAN

- **Current status: Is it drafted / finalised / approved?**
 - National Marine Oil Spill Response Contingency Plan (NMOSRCP) – Approved in 2016. Currently under Revision.
 - Zanzibar Marine Oil Spill Response Contingency Plan – (Operational Amendments to NMOSRCP) – (Draft).



Legislations and Instruments

- The Petroleum Act (2015).
- Environmental Management Act (2004).
- Disaster Management Act (2015).
- Merchant Shipping Act (2003).
- Tanzanian Shipping Agencies Act No.14 (2017).
- Merchant Shipping (Prevention of Oil Pollution) Regulations, 2012.
- Merchant Shipping (Oil Pollution Preparedness, Response and Cooperation) Regulations, 2012.
- Merchant Shipping (Small Ships, Local Cargo Ship Safety, Small Ship Safety, Surveys and Inspections for vessels engaged in Local and Coastal Voyages, Inland Waters) Amendments Regulations, 2012

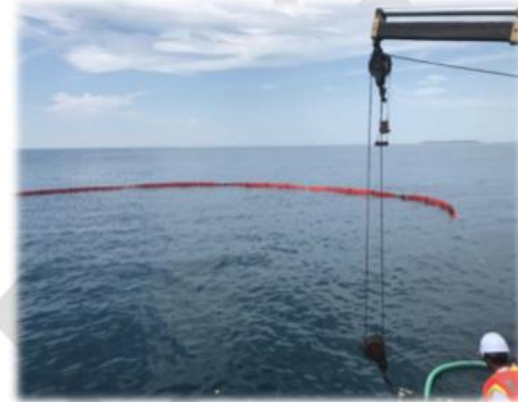


Legislations (Tanzania Zanzibar)

- Maritime Transport Act (2006)
- Maritime Authority Act (2009) – Zanzibar.
- Oil and Gas (Upstream) Act (2016)
- Environmental Management Act (2015)
- Disaster Risk Reduction & Management Act (2015)



REVOLUTIONARY GOVERNMENT OF ZANZIBAR
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OPERATIONAL AMENDMENT

**TO ZANZIBAR MARINE OIL SPILL RESPONSE CONTINGENCY PLAN
(ZMOSRCP)**



News

Posted On: 16/09/2019

WORKSHOP ON NATIONAL MARINE OIL SPILL RESPONSE CONTINGENCY PLAN- NMOSRCP



TASAC successfully held a Stakeholder Workshop on the National Marine Oil Spill Contingency Plan (NMOSRCP). The training took place at Harbor Hall from 10-12 September 2019. TASAC has been responsible for preventing pollution caused by oil spills due to Oil and Water Pollution. The Agency in conjunction with other Government Institutions developed this Plan in line with the requirements of the International Charter which Tanzania ratified. The aim of the Workshop is to teach stakeholders to prepare for the fight against oil spill in the sea or lake when this situation arises. The workshop was also opened by the Guest of the Tanga Regional Executive Secretary, Zena Said, and attended by the Director General and TASAC staff. The training was conducted theoretically through presentation of a variety of topics and in a practical way.

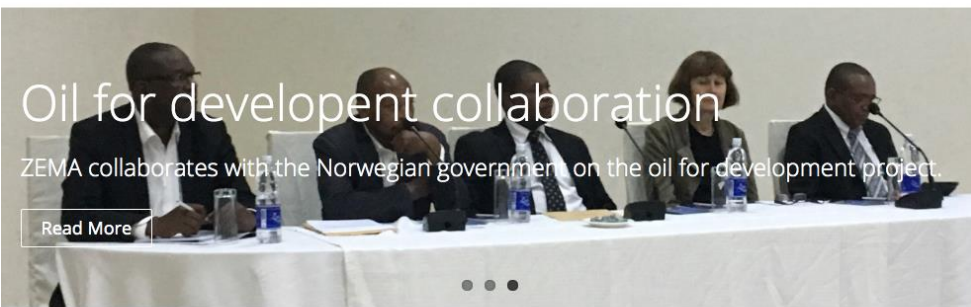
Latest News

- 31/01/2020 TASAC has prepared...
- 16/09/2019 Stakeholder Worksho...
- 24/07/2019 The celebration of A...
- 06/07/2019 TASAC has fully part...

View All News

Events

- 20/11/2019 STAKEHOLDERS MEETING ON TASAC TARIFFS.
- 23/09/2019 WORLD MARITIME DAY 2019.



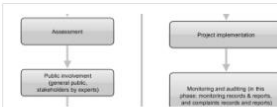
ZEMA collaborates with the Norwegian government on the oil for development project.

Read More



Welcome from the Director General!

Sheha Mjaja Juma, Director General of the Zanzibar Environment Management Authority



ZEMA and EIA processing

Read more about your options for having an environmental certificate for your planning activities.



Waste handling in Zanzibar

Waste handling in Zanzibar is important. Read more about the Plastic Bags Banning Regulations of 2011 and more here.



Zanzibar Maritime Authority

Safe, Secure and Effective Maritime Transport
For National Development

Zanzibar Maritime Authority

Launching the Vessels and Seafarer's Registration System



The Zanzibar Maritime Authority (ZMA). Monitors, Regulates and Coordinates activities in the Maritime Industry in Zanzibar

Learn more



United Republic of Tanzania National Environment Management Council



Minister of State in the Vice President's Office - Union and Environment Hon. Mussa Zungu speaks during the stakeholders meeting for the production, importation, distribution and selling of tubing and non-woven products. held at LAPF-Millennium Tower - Makumbusho in Dar es-Salaam Region. 20/2/2020



Dr. Eng. Samuel
Gwamaka Matwenga
Director General

Message



The United Republic of Tanzania
PETROLEUM UPSTREAM REGULATORY AUTHORITY



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ZPURA
ZANZIBAR PETROLEUM (UPSTREAM)
REGULATORY AUTHORITY

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ZPURA Latests **IGN - TENDER ANNOUNCEMENT TENDER NO. SMZ/NO.1/W/ICB/2019-20/30 ZANZIBAR PETROLEUM REGULATORY AUTHORITY Tender No**

Welcome to the Petroleum Upstream Regulatory Authority

The ZPURA website provides information for interested parties in the Petroleum Upstream Field. Please be advised that ZPURA is the Regulatory Authority for the Petroleum Upstream Sector.

NEWS



The United Republic of Tanzania

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Makutibu Wakuu wenye dhamana ya maafa katika ukanda wa nchi wanachama wa Jumuiya ya Maendeleo Kusini mwa Afrika (SADC), wakiwa katika picha ya pamoja mara baada ya ufunguzi wa mkutano huo, leo tarehe 18, 2020, ambapo kauli mbiu ya mkutano huo ni "Ushiriki wa kisekta kwenye Kupunguza madhara ya maafa ni njia bora ya kujenga Uhimili katika ukanda wa nchi wanachama wa Jumuiya ya Maendeleo Kusini mwa Afrika (SADC)"

IS THERE A NATIONAL INCIDENT RESPONSE ORGANIZATION AND MANAGEMENT SYSTEM?

2.5 The National Marine Pollution Control organizational set up is shown in Figure 1. Parties to the organization will work closely together to ensure that the objectives of the NMOSRCP are met in a timely and efficient manner.

- National Disaster Management Authority (Prime Minister's Office; Second Vice President's Office)
- Marine Oil Spill Response Coordinating Committee (NMOSCC)
- Maritime Rescue Coordination Center – TASAC.
- Levels of Responses (e.g Tiered, At Sea, Port, operational, tactical, strategic)
- Assessment, Monitoring, Media, Finance, Salvage, Disposal.



Figure 1. National Marine Pollution Control organizational set up.

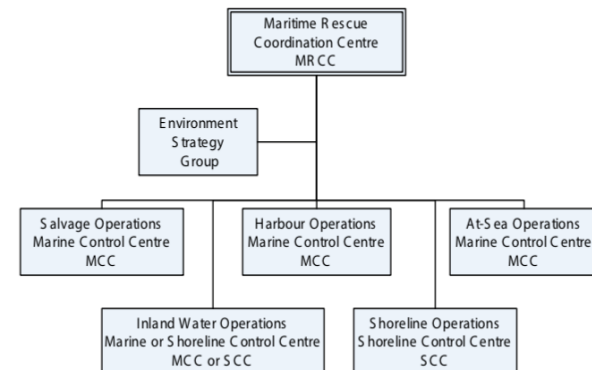
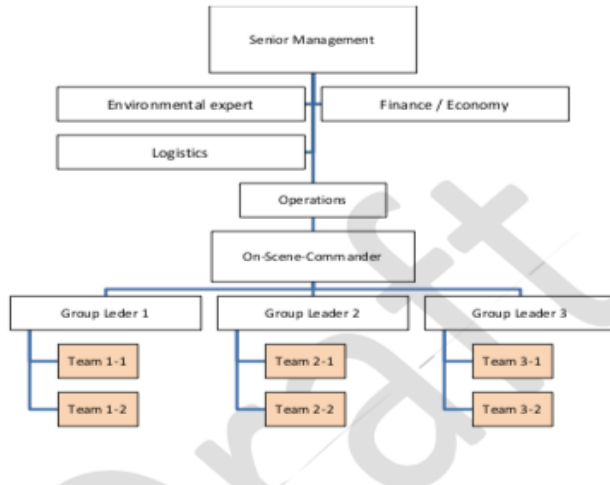


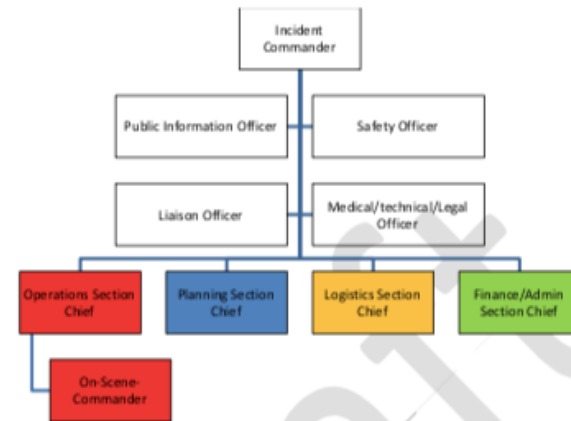
Figure 2. Response Centres

LOCAL LEVEL RESPONSE CONFIGURATIONS

Response Organization #1



Response organization #2 (according to ICS – Incident Command System)



The Oil for Development programme in Tanzania

The programme agreement for phase II (2017–2020) was signed in July 2018.

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Massive discoveries in recent years have raised the estimated gas resources in Tanzania to more than 55 trillion cubic feet. Two minor fields are producing gas for the domestic market.

Oil for Development has been engaged in Tanzania since 2013 and is currently in its second phase. The programme agreement for phase II (2017–2020) was signed in July 2018. The delayed signing of the agreement has affected programme implementation.

Key achievements of programme activities

Increased institutional capacity

- The Norwegian Environmental Agency assisted the Government of Zanzibar in conducting a Strategic Environmental Assessment (SEA) of the Pemba-Zanzibar block.
- A regional training conducted by the Norwegian Coastal Administration in

Key facts

Tanzanian implementing institutions: Ministry of Energy, Petroleum Upstream Regulatory Authority, Prime Minister's Office (Labour and Employment), Occupational Safety and Health Agency, Vice President's Office – Environmental Division, National Environment Management Council, Surface and Marine Transport Regulatory Authority, Ministry of Lands, Housing, Water and Energy (Zanzibar), Zanzibar Petroleum Regulatory Authority, Zanzibar Department of Environmental and Occupational Health, Zanzibar Environmental Management Authority, and Zanzibar Maritime Authority

MARINE SPILL RISKS

- Is there recent information on maritime risks?
 - Shipping (tankers and general shipping)
 - Offshore exploration / production

No recent marine spill incidents

- Has environmental sensitivity mapping been carried out?

Yes: TANSEA & ZANSEA SENSITIVITY ATLASES WERE DEVELOPED.

- Is there any identification/prioritization of vulnerable areas in the National Plan?
- TANSEA and ZANSEA Atlases have identified Environmentally Sensitive Areas to be prioritized in case of an oil spill incident.
- Also in the Draft Operational Amendments there are some identified sites specific for response measures (Norway OfD Program)

1. Moa, Tanga
2. Msuka, NW Pemba Island
3. Ras Kiuyu, NE Pemba Island
4. Tanga City
5. Misali Island, W Pemba Island
6. Kojani Island and Chake Chake, E Pemba Island
7. Tongani to Pangani Bay
8. Mkoani, SW Pemba Island
9. Chambani, SE Pemba Island
10. Maziwe Island to Kipumbwi
11. Nungwi to Mkokotoni, N Unguja Island
12. Saadani
13. Zanzibar Stone Town
14. Chwaka Bay, Unguja Island
15. Wami River to Ruvi Estuary
16. Uzi Island and Menai Bay, Unguja Island
17. Jambiani to Makunduchi, SE Unguja Island
18. Bagamoyo to Lazy Lagoon
19. Ras Kiromoni and Dar es Salaam Marine Reserve
20. Dar es Salaam and Sinda Island Marine Reserve
21. Ras Dege to Buyuni
22. Ras Pembarnazi to Kisiju
23. Koma Island to Simba Uranga
24. Northern Mafia Island
25. Nyamisati to Kiechuru
26. Kilindoni and SW Mafia Island
27. Kilindoni and SE Mafia Island
28. Jaja to Somanga
29. Somanga Funga to Matandu River
30. Songo Songo and Fanjove Islands
31. Kilwa Kivinje to Kilwa Kisiwani
32. Songo Mnara to Roango Bay
33. Kiswere to Kuvu Bay
34. Machinga Bay to Lindi
35. Lindi to Mtoka River Estuary
36. Sudi Bay to Mtwara Port
37. Mtwara Harbour and Mnazi Bay


Tanzania Sensitivity Atlas (TanSEA)

This is the first version of the GIS Based Sensitivity Mapping of the Tanzania Coastal zone - SAMAKI Consultants/IMS/OBSCOM and is hosted by the University of Dar es Salaam, Institute of Marine Sciences which is the Tanzania National Oceanographic Data Centre (TzNODC)


Objective

The long term goals of the Tanzania Sensitivity Atlas (TanSEA) project are to establish a comprehensive and accurate coastal GIS data system for Tanzania, for oil spill contingency planning and research. It may also be used for education, as promotional material and for use by other institutions in Tanzania that require detailed geo-referenced data on the coastal zone. Exploration drilling for oil and gas along the Tanzania coast is occurring in waters between 300-3,000 m deep, 10-100 km offshore. Tanzania authorities require oil and gas exploration companies to have an oil spill contingency plan whilst conducting drilling offshore. Geographic Information System ("GIS") maps showing sensitivity of the coastline are a vital component in the development of oil spill contingency planning and management.


Project Sponsors



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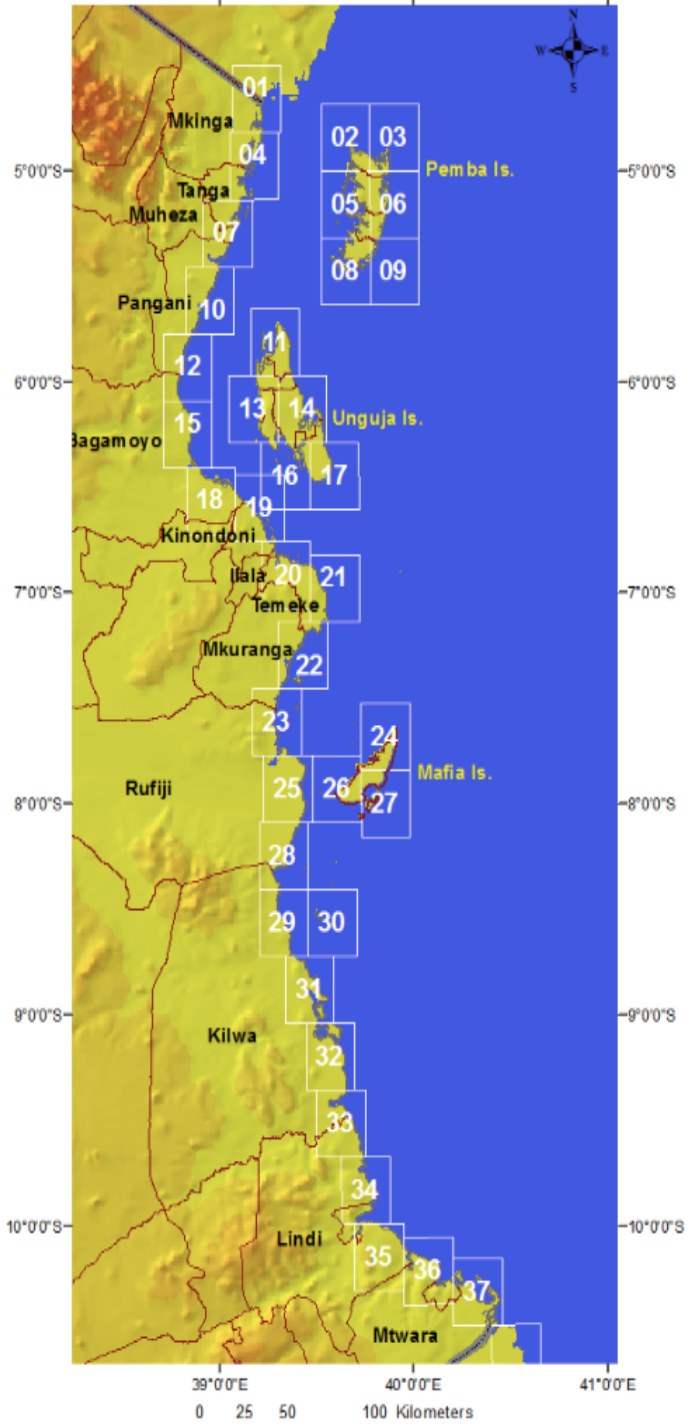




OBSCOM

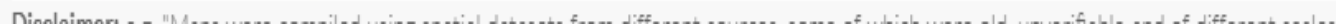


SAMAKI
CONSULTANTS



▼

- **Essential baseline information:** administrative layers, hydrological information (rivers, ponds), roads, railway, populated places, land elevation
- **Oceanic information available:** bathymetry
- **Oil and gas information:** wells, pipelines
- **Coastal resources:** coastal types, biological and human-use resources
- **The Coastline Sensitivity Index Line**
- **A master map sheet** of the GIS layer to locate maps easily.



Welcome to Zansear GeoNode

Zanzibar Social and Environmental Atlas for coastal and marine areas



380 Layers

Click to search for geospatial data published by other users, organizations and public sources. Download data in

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47 Maps

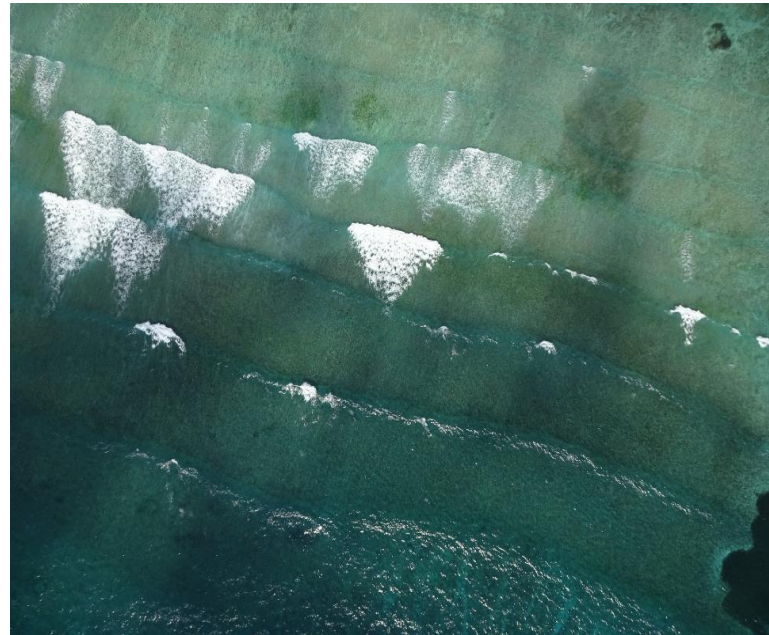
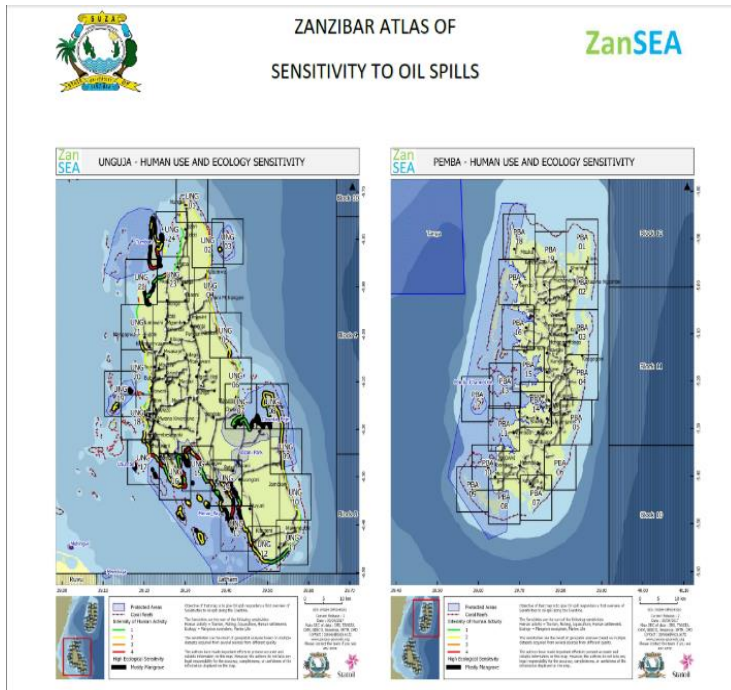
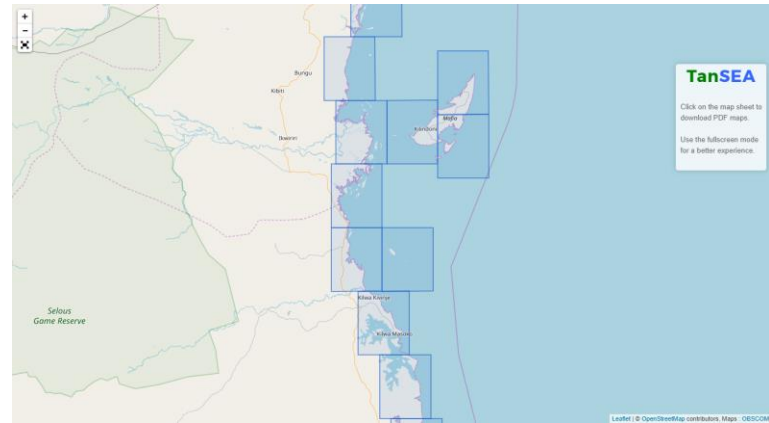
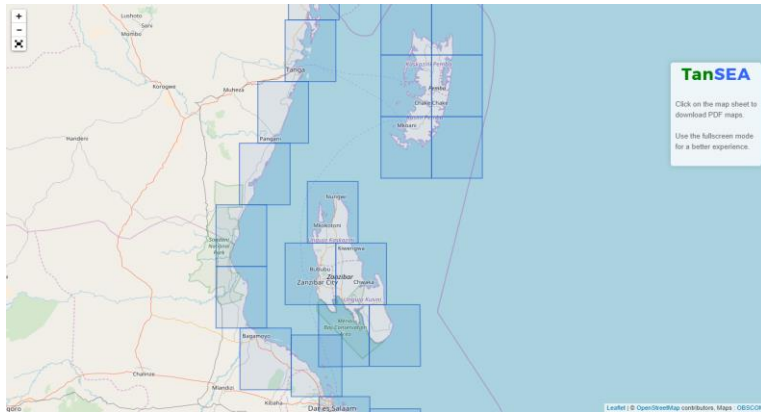
Data is available for browsing, aggregating and styling to generate maps which can be shared publicly or restricted to specific users only.



75 Users

GeoNode allows registered users to easily upload geospatial data in several formats including shapefile and GeoTiff.

ATLAS OF SENSITIVITY MAPS (TANSEA AND ZANSEA)



RESPONSE POLICY / STRATEGY

- Are response strategies identified?
 - Are there in-situ burning or dispersant product approval and authorization for use regulations/policies?
 - NMOSRCP has “Counter Pollution Operation at Sea” Chapter – Appendix E which authorizes use of dispersants.
 - Dispersants use is contained in Draft ZMOSRCP.
 - There is a need of having specific regulations/policies.
 - Is Shoreline Clean-up and Assessment Technique (SCAT) adopted?
 - Yes. E.g. Mafia Island Marine Park (OSRL, UK). Process of mainstreaming “SCAT” across Tanzania is ongoing. Training by OSRL and also by NCA.



**SUMMARY OF SOME OF EXERCISES/TRAININGS/MEETINGS DONE
UNDER NMOSRCP**

+

DATE	ACTIVITY	FACILITAT ORS/COORI NATORS
3 to 5 March 2020	Regional Workshop on Cooperation in Preparedness and Response To Marine Spills In Zanzibar	IMO, Nairobi Convention and Indian Ocean Commission
04 -06 Dec. 2019	Training on Oil Pollution Preparedness, Response and Cooperation IMO Model Course - Level 3 (Strategic) Nairobi –Kenya	UNEP, and Norway's Oil for Development (OfD) and NovuMare
6- 9/11/201 8	Regional full-scale exercise on oil pollution shoreline assessment for eastern Africa Countries (Mainland Tanzania, Zanzibar, Kenya, Uganda, Somalia, Madagascar, Mauritius, Madagascar, Seychelles, and south Africa.	UN environment, Oil for development Program (OFD), International Tanker Owners Pollution Federation (ITOPF), NEMC and TASAC
12- 13/12/20 17	Table top on oil spill response and contingency planning held at Slip way hotel. Tanzania stakeholders attended	Norwegian Coast Agency (NCA) under OFD programme, NEMC and SUMATRA
21- 23/11/20 17	Full Scale exercise in Zanzibar invited stakeholders from mainland Tanzania and Zanzibar attended	Norwegian Coast Agency (NCA) under

		OFD programme and ZMA
14- 16/10/20 15	Table top, Full Scale exercise, done at new Africa hotel in Dar es salaam. invited stakeholders from mainland Tanzania and Zanzibar attended. Nomination of focal persons on oil spill from various institutions done	Norwegian Coast Agency (NCA) under OFD programme, NEMC and SUMATRA
04- 05/03/20 15	Meeting of Tanzania stakeholders on implementation of National Marine Oil Spill Contingency Plan was conducted at Kilimanjaro Hotel	Norwegian Coast Agency (NCA) under OFD programme, NEMC and SUMATRA
27/10/20 14	Table top on oil spill response and contingency planning held at Giraffe Ocean View way hotel. Tanzania stakeholders attended	Norwegian Coast Agency (NCA) under OFD programme, NEMC and SUMATRA
20- 23/11/20 12	Full Scale exercise was done at Dar port invited stakeholders from mainland Tanzania and Zanzibar attended	Indian Ocean Commission and SUMATRA
18- 20/7/201 2	Table top on oil spill response and contingency planning held at port control tower board room. Tanzania stakeholders attended	Indian Ocean Commission and SUMATRA

NATIONAL WASTE MANAGEMENT PLAN

- Is there a national waste management plan?
Not specific to Marine Oil Spill Response Plan.

The current OfD support activities for 2020 focus on development of petroleum related hazardous waste management.

WILDLIFE RESPONSE PLAN

- Is there a wildlife response plan?

There are resources related to Wildlife Response Plan, but there isn't a nationwide-adopted WRP.

There is a need to develop and adopt a nation-wide WRP to be implemented under NEMC and ZEMA regulations.

RESPONSE RESOURCES

- What information is available on equipment?
 - Stockpile locations / ownership / availability
Dar es Salaam Port/TASAC/ limited resources & time constraints
 - Types e.g. specialized (booms, skimmers, dispersant...)
Limited resources & availability; Bay oriented and not open ocean oriented.
 - versus non-specialized (vacuum trucks, civil plant, hand tools...)
Limited availability – not dedicated to Oil Spill Response.
 - Supporting logistics / airports / ports

Available airports/port – limited resources
- What information is held on personnel?
 - Training records (TABLE TOP, FULL SCALE)
 - Workshops – national, regional (UNEP, IMO, NCS, OfD, Sweden, etc.)



TRANS-BOUNDARY ASPECTS

- National perspective on regional cooperation in preparedness and response to marine pollution incidents:
 - is it required? YES (Marine Pollution is transboundary)
 - in what ways would it be beneficial?
 - Sharing limited resources/experts/logistics
 - Enhance operationalization system within the WIO Region.
 - Promote a range of updated response and contingency systems.
 - Share knowledge, know-how, exchange, between varied levels of areas of expertise in the region.
 - Feed into SDG14 targets and Regional Ocean Governance priorities
- Are there specific customs and immigration procedures for facilitating trans-boundary support?

General customs and immigration procedures

TRANS-BOUNDARY ASPECTS

- Do you have any bilateral agreements?
 - It is documented in NMOSRCP but not yet implemented.
- What is the envisaged mechanism for implementing the *Agreement on the Regional Contingency Plan for Preparedness for and Response to major Marine Pollution Incidents in the Western Indian Ocean*
 - - a pathway towards establishment and operationalization of a regional oil spill response center
 - - revitalize a draft regional plan to combat marine oil pollution.
 - Funding mechanism on combating marine oil pollution in the WIO region

WHY HAS ENHANCED WIO REGIONAL COOPERATION NOT PROGRESSED?

- *Sustainability in Financing an OSCRP Center*

It is proposed to have a center in South Africa and Madagascar. But who will fund the Regional OSRCP Center?

- *Ship-based Oil Spill Preparedness.*

Existing oil spill preparedness at the national level is often left to shipping companies under existing MARPOL obligations.

- *Monitoring mechanism (Maritime Domain Awareness)*

Who commits to a region-wide monitoring mechanism? How will the monitoring be achieved under separate national priorities and protocols? Resources?

- *Prioritizing Maritime Security vs Marine Spill Preparedness*

WHAT ARE THE CHALLENGES WITHIN YOUR COUNTRY?

- Putting in place an integrated, inter-sectoral, multi-disciplinary approaches in response and management system.
- Ensuring availability of adequate human, physical, technological, infrastructure, financial and knowledge resources to establish multi-response levels to operationalize an OSCRP.
- Fast-Tracking Communications, Assessment, Monitoring, Observation, Data infrastructure, and surveillance capacities in our ocean.
- Putting in place an effective OSCP System with continuous M&E Data
- Oil Spill related Hazardous Wastes Management and Disposal Framework
- Inadequate Equipment at Tier 1; We need equipment for Tier 2; and to present at each substantive port.
- Due to limited equipment, full scale exercises are limited, therefore we have not prepared response team at each port.

HOW MIGHT THESE CHALLENGES BE OVERCOME?

- Fast tracking operationalization of the WIO instrument.
- Mainstream Indian Ocean Maritime Safety and Security support and expertise (COI).
- Enhance inter-linkages between NCS and RECs on Disaster Preparedness Plans and Strategic Systems.
- Strengthen periodic Audit systems between IMO & partners and the WIO countries.
- Continue to collaborate with Norway OfD under bilateral and regional platform to enhance national and regional capacity.
- Assistance in acquiring equipment at each substantive port



THANK YOU