

CURRICULUM VITAE

1.0 PERSONAL DETAILS

Full Name: Julius Francis
Date of Birth: 23rd October, 1962
Place of Birth: Moshi Kilimanjaro
Nationality: Tanzania
Marital Status: Married, two children
Contact address: Department of Aquatic Sciences and Fisheries Technology
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2.0 ACADEMIC PROFESSIONAL QUALIFICATION

2.1 Ph.D(Oceanography), March, 1995, at Flinders University of South Australia, Australia.

3.0 POST HELD

AT THE UNIVERSITY OF DAR ES SALAAM

ACADEMIC

Department of Aquatic Sciences and Fisheries

- Senior Lecturer: March 2004 – to date

ADMINISTRATION

- Director, Institute of Marine Sciences: October, 1996 – July 2000

4.0 RESEARCH AND PROGRAMMES CO-ORDINATION AND CONSULTANCIES

- 4.1 Co-ordinator of the Eastern African Coastal and Marine Environment Resource Database and Atlas (EAF/14) – Tanzanian component
- 4.2 Preparation of an overview on land-based sources and activities affecting marine, coastal and associated freshwater environment, as well as a regional programme of action for the protection of the marine, coastal and associated freshwater environment from land-based activities.
- 4.3 Preparation of the regional Transboundary Diagnostic Analysis (TDA) on land-based and marine activities affecting coastal and marine and associated freshwater environment. Also prepared the Strategic Action Programme (SAP) for the coastal,

marine and associated freshwater environmental problems of the WIO region.

- 4.4 Development and implementation of public awareness through production of educational materials for the FAO through the project on Protection and Management of the Marine and Coastal Areas of the Eastern African region (EAF/5)
- 4.5 Project for capacity building in Marine Protected Areas management in the Western Indian Ocean region.
- 4.6 Co-ordinated the development of the training manual and the organisation of training courses in MPA management in WIO region
- 4.7 Implementation in Eastern Africa of the UNEP/GPA Strategic Action Plan on Sewage.
- 4.8 FAO/UNEP project for International Coral Reef Action Network (ICRAN) on analysis of successful approaches to management of Marine Protected Areas in Tanzania
- 4.9 Coordinates the production of the Western Indian Ocean Journal of Marine Science
- 4.10 Coordinated the implementation of the UNEP/GPA-funded project on Physical Alterations and Destruction of Habitats in the Eastern African region
- 4.11 Coordinates a competitive research grant program, the Marine Science for Management (MASMA) Program
- 4.12 Coordinator of the WIOMSA's component in the European Union-funded project "Transboundary Networks of Marine Protected Areas for Integrated Conservation and Sustainable Development: Biophysical, Socio-economic and Governance Assessment in East Africa (TRANSMAP)"
- 4.13 Coordinator of the Tanzania's component of the USAID-funded Sustainable Coastal Communities and Ecosystems (SUCCESS)
- 4.14 Training and Educational Needs Assessment for different categories of stakeholders for the WIO-LaB project
- 4.15 Coordinator, Project on "Climate Change in coastal and marine environment of the Western Indian Ocean region: Assessment of Impacts and Adaptation Options", July 2009 – December 2012
- 4.16 Coordinator, the Western Indian Ocean Certification of Marine Protected Areas Professionals (WIO-COMPAS), 2007 – todate
- 4.17 Coordinator, the development of a proposal for a GEF-funded project, "Implementation of the Strategic Action Programme for the protection of the Western Indian Ocean from land-based sources and activities (**WIO-SAP**). 2014-2016.

5.0 TRAINING COURSES ORGANIZED

- 5.1 Lead Trainer, Regional Training Course in Marine Protected Areas Management in the Western Indian Ocean Region in 2000 (Malindi, Kenya); 2002 (St Lucia, South Africa), 2004 (Malindi, Kenya) and 2012 (Mombasa, Kenya)
- 5.2 Co-organizer of the Learning and Performing: Developing Skills for Coastal Management Practitioners course in the Western Indian Ocean region in 2001. Organized jointly with the Coastal Resource Center of the University of Rhode Island
- 5.3 Co-organizer of the refresher course “Governance for Responsible Fisheries” with the International Agricultural Centre of the Netherlands
- 5.4 Co-organizer of the **“Environmental Journalism Course – focusing on coastal management”**, with Institute of Further Education for Journalists (FOJO) of Kalmar, Sweden. The course was held in November 2008 and April/May 2009.
- 5.5 Lead Trainer in the National Short Course in Integrated Coastal Zone Management (ICZM) for Mauritius in March 2009. Organized jointly with the EU-funded Regional Programme for the Sustainable Management of the Coastal Zones of the Countries of the Indian Ocean (ReCoMaP) and Department of Environment, Mauritius
- 5.6 Resource person, Sustainable Ocean Initiative (SOI) Training of Trainers Workshop, Yeosu, South Korea, 18-22 June 2016.

6.0 STUDENTS SUPERVISED

Mbije Nsajigwe – MSc, University of Dar es Salaam (1996)
Shigalla Mahongo – PhD, University of Dar es Salaam (2014)
Daudi S. Mukaka – MSc, Open University of Tanzania (2014)

7.0 SCIENTIFIC REPORTS AND PUBLICATIONS

A: Books & Papers in international journals

- A1: Francis, J. (1992) Physical Processes in the Rufiji Delta and their Possible Implications on the Mangrove Ecosystem. *Hydrobiologia* 247:173-179.
- A2: Dubi, A. M. and J. Francis (1990). Wave climate Prediction in the Zanzibar Channel. *Uhandisi Journal*. Faculty of Engineering, University of Dar es Salaam Vol. 14 No.2, 51-60.
- A3: Moffat, D., M.A.K. Ngoile, O. Linden, and J. Francis (1998) The Reality of the Stomach: Coastal Management at the Local Level in Eastern Africa. *AMBIO*. Vol. 27, No. 8, 590-598.
- A4: Johnstone, R., C.A. Muhando, and J. Francis (1998) The Status of the Coral Reefs of Zanzibar: One Example of a Regional Predicament. *AMBIO*. Vol. 27, No. 8, 700-707.
- A5: Semesi, A.K., Y.D. Mgaya, M.H.S. Muroke, J. Francis, M. Mtolera and G. Msumi (1998) Coastal Resources Utilization and Conservation Issues in Bagamoyo, Tanzania. *AMBIO*. Vol. 27, No. 8, 635-644.
- A6: Kyewalyanga, M., J. Francis, and R. Johnstone (1998) The Development of a Scientific Forum in the Western Indian Ocean Region. *AMBIO*. Vol. 27, No. 8, 774-778.
- A7: Francis, J. and Lundgren, P. 2000. The Marine Science for Management (MASMA) Programme: Building on past experiences and facing new challenges. *Currents* Vol:

23/24: 26-30

- A8: Francis, J., Nilsson, A., and Waruinge, D. 2002. Marine Protected Areas in Eastern African Region: How Successful are they? *Ambio*, Vol XXXI, No 7-8, 503-511
- A9: Berg, H., Francis, J. and Souter, P. 2002. Support to Marine Research for Sustainable Management of Marine and Coastal Resources in Western Indian Ocean. *Ambio*, Vol XXXI, No 7-8, 597-601
- A10: Mbije, N.E., Wagner, G.M., Francis, J. Ohman, M.C., and Bergman, K.C. 2002. Patterns in the Distribution and Abundance of Hard Corals Around Zanzibar Island. *Ambio*, Vol XXXI, No 7-8, 609-611.
- A11: Francis, J. and Torell, E. 2004. Human dimensions of coastal management in the Western Indian Ocean region. *Ocean and Coastal Management*, Vol 47, No 7-8, 299 – 307
- A12: J. Francis, J. Tobey, and E. Torell 2006. Balancing Development and Conservation Needs in the Western Indian Ocean Region. *Ocean and Coastal Management* Volume 49(11):789-791
- A13 : Nguli M M., Rydberg, L. and Francis, J. Francis. 2006. Estimate of water residence times in Tudor Creek, Kenya based on sea surface heat fluxes and observations of the horizontal temperature gradient during different seasons. *Western Indian Ocean Journal of Marine Science* 5(2): 163-178
- A14: Chircop, A., Francis, J.; Van Der Elst, R., Pacule, H., Guerreiro, J., Grilo, C., and Carneiro, G. 2010. Governance of Marine Protected Areas in East Africa: A Comparative Study of Mozambique, South Africa, and Tanzania, *Ocean Development & International Law*, 1521-0642, Volume 41, Issue 1, 2010, 1 – 33
- A15: Squillante, L.J., Ricci, G., Francis, J. and Sisitka. 2010. Innovations in Capacity Building: Certification of Marine Protected Area Professionals. *Coastal Management*, 38:272–290
- A16: Haws, M., Crawford, B., Portella, M.C., Ellis, S., Jiddawi, N., Mmochi, A., Gaxiola-Camacho, E., Rodriguez-Dominguez, G., Rodriguez, G., Francis, J., Leclair, C., Coze, A.S., Hernandez, N., Sandoval, E., Jaroszewska, M. and Dabrowski, K. 2010. 'Aquaculture Research and Development as an Entry-Point and Contributor to Natural Resources and Coastal Management. *Coastal Management*, 38: 3, 238 — 261
- A17: Mahongo, S.B. and Francis, J. 2010. Monthly Variations of Sea Level at the Island of Zanzibar. *Western Indian Ocean Journal of Marine Science*: 9(1): 1-16
- A18: Mahongo, S.B., Francis, J. and Osima, S.E. 2012. Wind patterns of coastal Tanzania: Their variability and trends. *Western Indian Ocean Journal of Marine Science*: 10(2): 107-120
- A19: Mahongo, S.B. and Francis, J. 2012. Analysis of Rainfall Variations and Trends in Coastal Tanzania. *Western Indian Ocean Journal of Marine Science*: 11(2): 121-133
- A20: Jambeck, J., Hardesty, B.D. Brooks, A.L., Friend, T., Teleki, K., Fabres, J., Beaudoin, Y., Bamba, A., Francis, J., Ribbink, A.J., Baleta, T., Bouwman, H., Knox, J., & Wilcox, C. 2017. Challenges and emerging solutions to the land-based plastic waste issue in Africa. *Marine Policy*. <https://doi.org/10.1016/j.marpol.2017.10.041>.

B: Chapters in a book, Conference Proceedings & Research Reports

- B1: Brault, Jean-Francis, J. Francis, C. Pegus (1988). Transfer of Marine Technology to

- Developing Countries. In *Development and Transfer of Marine Technology in Developing Countries with Special Reference to the Development of Human Resources*, Proceeding of the Pacem in Maribus XVI - 1988 in Halifax Canada, pp.435-440.
- B2: Francis J. (1989), *Large Dams and Marine Environment*. A Diploma Thesis Submitted in Partial Fulfilment for Postgraduate Course in Marine Affairs at the University of Dalhousie, Canada.
- B3: Francis, and A. M. Dubi, 1992 *Seasonal Variation in Mean Sea Level at Zanzibar* IOC Workshop Report No.77 for the IOC-SAREC-KMFRI Regional Workshop on "The Causes and Consequences of Sea Level Changes on the Western Indian Ocean Coast and Islands". Mombasa, Kenya 24th - 28th June, 1991.
- B4: Francis, J., 1995. *The Seasonal Variation in Coastally-Trapped Wave Energy Along the Coast of Australia*. Ph.D Thesis, Flinders University of South Australia.
- B5: Humphrey, S. and J. Francis (1997). *Sharing Coastal Management Experience in the Western Indian Ocean*. Proceedings of the Experts and Practitioners Workshop on Integrated Coastal Area Management for Eastern Africa and Island States. 142pp.
- B6: Francis, J., A.K. Semesi, and J. Daffa (1997). *Integrated Coastal Zone Management in Tanzania*. In: Linden and Lundin, C.G. *The Journey From Arusha to Seychelles. Successes and Failures of Integrated Coastal Zone Management Eastern Africa and Island States*. 195-211.
- B7: Ngoile, M.A.K., J. Francis and M. Mtolera (1998) *Advances in Marine Science in Eastern Africa: Application of Scientific Knowledge in Marine and Coastal Resources Management*. Proceedings of the First WIOMSA Scientific Symposium. 80pp.
- B8: Francis, J. 1998. *Analysis and evaluation of Integrated coastal management initiatives in Eastern and Southern Africa region*. IMS/1998/06. 55pp.
- B9: Kyewalyanga, M., M.J. Wood and J. Francis (1999) *Needs Assessment for Capacity Building in Integrated Coastal Management in Tanzania*. Tanzania Coastal Management Partnership Working Document 5023: Dar es Salaam.
- B10: Nyika, E. and J. Francis (Compilers). 1999. *Bibliography of the Coastal and Marine Environment of the Western Indian Ocean Region*. Institute of Marine Sciences, University of Dar es Salaam. 192pp.
- B11: Francis, J., van Zwol, C., Sadacharan, D., and Mohamed, S. (1999). *Marine Protected Areas Management: A framework for capacity building in the Western Indian Ocean Region*. Proceedings of the Regional Planning Workshop on the Training Needs for Marine Protected Areas Management, Zanzibar, Tanzania, 31 May- 3 June 1999. Coastal Zone Management Centre, The Netherlands, Institute of Marine Sciences, University of Dar es Salaam and World Bank. 49pp.
- B12: Francis, J., M.D. Richmond and S. Mwinuka (2000) *A School Teacher's Guide to Marine Environmental Education in the Western Indian Ocean Region*. Prepared for the project on Protection and Management of the Marine and Coastal Areas of the Eastern African region (EAF/5). 47pp.
- B13: Francis, J. and Rumisha, C. 2001. *Proceedings of the Planning Workshop on the Development of Dar es Salaam Marine Reserves*. 21 August 2000, Dar es Salaam, Tanzania. Prepared for the International Coral Reef Action Network (ICRAN)-Eastern African Sub-project 1. Institute of Marine Sciences, University of Dar es Salaam, United Nations Environment Programme and Marine Parks and Reserves. 26pp.
- B14: Ngoile, M.A.K., Francis, J. and Mndeme, Y.E.S. (2001) *The status of marine protected areas and coastal management initiatives in Tanzania*. Prepared for the

- International Coral Reef Action Network (ICRAN)-Eastern African Sub-project 1. Institute of Marine Sciences, University of Dar es Salaam, United Nations Environment Programme and Marine Parks and Reserves.
- B15: Francis, J., S. Mahongo, and A.K. Semesi. (2001). The Coastal Environment. In: UNEP/DGIC/URT/UDSM (eds), *Eastern Africa Atlas of Coastal Resources: Tanzania*. United Nations Environment Programme, Nairobi, Kenya, pp 9-47.
- B16: Ngoile, M.A.K. and J. Francis (2001). Management of the Coastal and Marine Environment: Legal and Institutional Framework. In: UNEP/DGIC/URT/UDSM (eds), *Eastern Africa Atlas of Coastal Resources: Tanzania*. United Nations Environment Programme, Nairobi, Kenya, pp 77-104.
- B17: Francis, J. and I. Bryceson (2001). Tanzanian Coastal and Marine Resources: Some Examples Illustrating Questions of Sustainable Use. In: Ahmed, J. et. al. (eds), *Lessons Learned: Case Studies in Sustainable Use*. IUCN. pp. 74-100.
- B18: Richmond, M.D. and Francis, J. (Editors)(2001). Marine Science Development in Tanzania and Eastern Africa. Proceedings of the 20th Anniversary Conference on Advances in Marine Science in Tanzania. 28 June – 1 July 1999, Zanzibar, Tanzania. IMS/WIOMSA. 569pp.
- B19: Kiambo, R. C. Coley, J. Francis, M. Amaral, and L. Hale. (2001) Coastal Management in the Western Indian Ocean Region. A Capacity Needs Assessment. Western Indian Ocean Marine Science Association (WIOMSA) and Coastal Resources Center, University of Rhode Island. 62pp.
- B20: Francis, J. and S. Mohammed (editors). 2001. Consultative Meeting on Municipal Wastewater for the Eastern Africa region. Report of the Meeting. United Nations Environment Programme (UNEP), UNEP/GPA Coordination Office, National Environment Management Council (NEMC) and Western Indian Ocean Marine Science Association (WIOMSA).
- B21: Roxburgh, T., Morton, I., Rumisha, C., and Francis, J. 2002. An Assessment of Stakeholders and Resource Use in Dar es Salaam Marine Reserve System. ICRAN and WIOMSA. 102pp.
- B22: Coley, C., Squillante, L. Hale, L., Kiambo, R., Francis, J. and Mbarouk, F. 2002. Learning and Performing: developing Skills for Coastal Management Practitioners. Final Report on the First Course on building Capacity for Sustainable Integrated Coastal Management in the Western Indian Ocean Region. WIOMSA/CRC. 46pp.
- B23: Francis, J., R. Johnstone, T. van't Hof, C. van Zwol, and D. Sadacharan (2003) Training for the sustainable management of Marine Protected Areas. A training manual for MPA managers. The Coastal Zone Management Center, the Netherlands, The World Bank, UDSM and WIOMSA. 209pp.
- B24: Wells, S., J. Francis, and N. Muthiga. 2003. Marine Protected Area Management in Western Indian Ocean. In: Carabias, J., J. de la Maza, and R. Cadena (eds), *Capacity needs to manage protected areas: Africa, Mexico, 2003*, pp 97-103.
- B25. Uku, J. and J. Francis. 2007. Report on Educational Needs Assessment for the Western Indian Ocean Region. An assessment study undertaken by WIOMSA on behalf of the UNEP-GEF WIO-LaB Project entitled 'Addressing land-based activities in the Western Indian Ocean Region'
- B26. Uku, J. and J. Francis. 2007. Report on Training Needs Assessment for the Western Indian Ocean Region. An assessment study undertaken by WIOMSA on behalf of the UNEP-GEF WIO-LaB Project entitled 'Addressing land-based activities in the Western Indian Ocean Region'
- B27. Payet, R., J. Francis and K. Koranteng. 2009. AoA Region: Eastern African Seas. In:

- UNEP and IOC-UNESCO. 2009. An Assessment of Assessments, Finding of the Group of Experts. Start-up Phase of a Regular Process for Global Reporting and Assessment of the State of the Marine Environment including Socio-economic Aspects. 91-102
- B28. Francis, J. and E.M. Machumu. Marine Protected Areas on Mainland Tanzania. What is their future? In: Bryceson, I and Francis, J. (eds). Marine Protected Areas (MPAs) in relation to Fisheries Management Challenges and Experiences from Developing Countries. Pages 153-179.
- B28. B29. Francis, J. 2015. Mandate and Methodology. In UNEP-Nairobi Convention and WIOMSA (2015). The Regional State of the Coast Report: Western Indian Ocean. UNEP and WIOMSA, Nairobi, Kenya. 25-30
- B30. Francis, J., L. Celliers and S. Rosendo. 2015. Coastal and Marine Research and Capacity Building. In UNEP-Nairobi Convention and WIOMSA (2015). The Regional State of the Coast Report: Western Indian Ocean. UNEP and WIOMSA, Nairobi, Kenya, 473-494.
- B31. Groeneveld, J., Koranteng, K. & Francis, J. (2017) The Nansen – more than just a research ship. In Groeneveld, J.C. and Koranteng, K.A. (Eds): *The RV Dr Fridtjof Nansen in the Western Indian Ocean: Voyages of marine research and capacity development. FAO, Rome, Italy.* 1-7
- B32. Francis, J., Koranteng, K., Ngoile, M., Strømme, T., & Waruinge, D. (2017) Impact on science, capacity development, policy & fisheries management. In Groeneveld, J.C. and Koranteng, K.A. (Eds): *The RV Dr Fridtjof Nansen in the Western Indian Ocean: Voyages of marine research and capacity development. FAO, Rome, Italy.* 125-141
- B33. Groeneveld, J., Koranteng, K., Francis, J. & Bianchi, G. (2017) The Nansen Programme in the Western Indian Ocean – a synthesis of results. In Groeneveld, J.C. and Koranteng, K.A. (Eds): *The RV Dr Fridtjof Nansen in the Western Indian Ocean: Voyages of marine research and capacity development. FAO, Rome, Italy.* 143-159
- B34. Francis, J., Koranteng, K., Bianchi, G. & Groeneveld, J. (2017) The way forward – where the Nansen Programme should focus in future. In Groeneveld, J.C. and Koranteng, K.A. (Eds): *The RV Dr Fridtjof Nansen in the Western Indian Ocean: Voyages of marine research and capacity development. FAO, Rome, Italy.* 161-171

C: Consultancy reports

- C1: Francis, J. and C. A. Muhando 1995. Coastal Biodiversity and Conservation Strategy for the Fisheries Sector. A part of World Bank funded Consultancy on the Development of a Strategy for Conservation of Coastal Biodiversity, Tanzania Mainland. 47 pp.
- C2: Francis, J., N. Nyandwi and F.E. Msuya (1997). Interdisciplinary Survey on the Status and Socio-economic Impacts of Coastal Erosion Along the Tanzanian Coastline and Islands. Report for the UNESCO Nairobi Office, Report No. IMS 1997/02, 51pp.
- C3: Mwandosya, M.J., A.K. Semesi, S. Pamba, and J. Francis (1997) Towards a Strategy for the Conservation of Coastal Biological Diversity of Mainland Tanzania. Centre for Energy Environment, Science and Technology (CEEST). ISBN 9987 612 06 7. 102pp.
- C4: Coccossis, H., J. Francis, M. Ngoile and T. Orekoya, (1998) Assessment of Integrated Coastal Management in Africa. Study Commissioned by the United Nations Environment Programme and Government of Finland.

- C5: Francis, J. (1997). Tanzania: Marine Science Country Profile. Report Prepared for the Intergovernmental Oceanographic Commission (IOC) and the Western Indian Ocean Marine Science Association (WIOMSA).
- C6: Odido, M. and J. Francis (1999) Sea Level Measurement and Analysis in the Western Indian Ocean. Regional Report prepared for the Intergovernmental Oceanographic Commission of UNESCO. 59pp.
- C7: Francis, J. and Ngoile, M.A.K., 2000. In-depth evaluation of Project EA/1100-98-03: Eastern African Coordinating Unit for the East African Action Plan of the Nairobi Convention and its Protocols. United Nations Environment Programme. 55pp.
- C8: Francis, J., G.M. Wagner, A. Mvungi, J.J. Ngwale, and R. Salema (2001). Tanzania National Report: Integrated Problem Analysis. A Report Prepared For The ACOPS, IOC/UNESCO And UNEP as part of implementation of the GEF MSP Sub-Saharan Africa Project (GF/6010-0016): Development and Protection of the Coastal and Marine Environment in Sub-Saharan Africa. 67pp.
- C9: Ngusaru, A.S., Y.D. Mgaya, J. Francis, and H. Sosovele (2001). Root causes of biodiversity loss in Rufiji-Kilwa-Mafia and Mnazi Bay-Ruvuma Estuary in Tanzania. A report prepared for the WWF East African Marine Ecoregion (EAME) Programme. 63pp.
- C10: Francis, J. and Koranteng, K. (2004). Regional Overview of Physical Alteration and Destruction of Habitats (PADH) in the Western Indian Ocean region. A report prepared for UNEP
- C11: Momanyi, A. and Francis, J. (2005). Towards the Development of Integrated Coastal Zone Management (ICZM) in Kenya. A Report Prepared for IUCN/EARO
- C12: Mohammed, S. and Francis, J. (2005). An Evaluation of Coastal Zone Management Practices in the Eastern African Region. A Report Prepared for IUCN/EARO
- C13: Francis, J., J. Balarin, K.K. Bhattbhatt and A.F. Andreasen (Re-evaluation team). 2007. Re-Evaluation of the Mafia Island Marine Park (MIMP). Report Prepared for Ministry of Natural Resources and Tourism and Royal Norwegian Embassy, Dar es Salaam, Tanzania
- C14: Francis, J. 2008. Evaluation report of the Eastern African Marine Ecoregion (EAME). Report prepared for WWF-UK and WWF-EAME
- C15: Francis, J. 2008. Evaluation report of the Rufiji Mafia Kilwa Seascape Programme (RUMAKI). Report prepared for WWF-UK and RUMAKI Programme

D: Guest Editor in International Journals

- D1: Ambio, 2002 Volume XXXI, Number 7-8.
- D2: Ocean and Coastal Management, Volume 47 Number 7-8
- D3: Ocean and Coastal Management, Volume 49 Number 11

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Signature:

