

# **Curriculum Vitae - Ian Bryceson**

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## **EDUCATION:**

1977 Ph.D. (Marine Biology) University of Dar es Salaam  
1971 B.Sc. (Oceanography) University of Washington  
  
1973-1977 University of Dar es Salaam, Tanzania  
1969-1971 University of Washington, U.S.A.  
1967-1969 Atlantic College, Wales, U.K.  
1963-1967 Glenalmond College, Scotland, U.K.  
1960-1963 Lushoto School, Tanzania  
1957-1960 Southern Highlands School, Tanzania

## **QUALIFIED FOR FULL PROFESSOR STATUS:**

2002 Norwegian University of Life Sciences – Development & Environment  
1996 Norwegian University of Life Sciences – Ecology  
1993 University of Bergen – Tropical Aquatic Ecology

## **EMPLOYMENT:**

1996-now Noragric, Dept of International Environment and Development Studies,  
Norwegian University of Life Sciences, Ås, Norway  
(Professor)  
1993-2003 Dept of Fisheries and Marine Biology, University of Bergen, Norway  
(Professor-level 20% parallel position)  
1990-1996 Norwegian Agency for Development Cooperation (NORAD), Norway  
(Senior Environmental Adviser)  
1987-1990 Scanaqua a.s, Norway  
(Bio-Technical Director)  
1985-1987 Marenor a.s, Norway  
(Senior Scientist)  
1983-1990 Part-time consultancy work for NORAD, Norway  
(Fisheries, Research and Evaluation, Courses)  
1982-1984 Department of Marine Botany, University of Oslo, Norway  
(Guest Scientist)  
1973-1982 Dept. of Zoology and Marine Biology, Univ. of Dar es Salaam,  
Tanzania  
(Senior Lecturer, 1980-1982)  
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(Assistant Lecturer, 1975-1977)  
(Tutorial Assistant, 1973-1975)  
1972-1973 Kunduchi Fisheries Institute, Tanzania  
(Fisheries Officer, Head of Training)

## PUBLICATIONS (thesis, papers, articles, reports, etc.):

1. Bryceson, I. (1977). An ecological study of the phytoplankton of the coastal waters of Dar es Salaam. Ph.D. thesis, University of Dar es Salaam. 560 pp.
2. Bryceson, I. (1978). Tanzanian coral reefs at risk. *New Scientist*, **80**(1124): 115.
3. Schiller, E. & Bryceson, I. (1978). Coastal erosion in the Dar es Salaam area. *University Science Journal*, **4**: 101-119.
4. Bryceson, I. (1978). Observations on the anticipated environmental impact of building ferry terminals at Mbegani and at Gerezani Creek. Report to Bish & Partner, 6 pp.
5. Bryceson, I. (1978). Ecological aspects of marine conservation: the Tanzanian case. Proceedings of the Fourth East African Wildlife Symposium, Arusha.
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10. Bryceson, I. & Störmer, K.P. (1980). Recommendation for beach erosion control at Silversands Hotel, Report to University of Dar es Salaam,. 20 pp.
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12. Bryceson, I. (1981). A review of some problems of tropical marine conservation with particular reference to the Tanzanian coast. *Biological Conservation*, **20**(3):163-171.
13. Bryceson, I. & Manja, B.A. (1982). A brief recommendation for beach erosion control at Rungwe Oceanic Hotel. Report to Rungwe Oceanic Hotel, 4 pp.

14. Bryceson, I. (1982). Pollution of Dar es Salaam coastal environments by industrial and domestic effluents. Paper presented at Workshop on Development of Marine Sciences in Tanzania. Zanzibar, 12 pp.
15. Bryceson, I. (1982). Coral reefs: an overview and a description of Mbudya Island. Paper presented at Workshop on Development of Marine Sciences in Tanzania. Zanzibar, 13 pp.
16. Bryceson, I., Mainoya, J.R. & Mwiseje, B. (1982). A critical appraisal of the development of marine sciences in Tanzania. In: Mainoya, J.R. (ed.) *Status and Problems of Marine Resources Development in Tanzania*, University of Dar es Salaam Press, Dar es Salaam. pp. 15-22.
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21. Paasche, E., Bryceson, I & Tangen, K. (1984). Interspecific variation in dark nitrogen uptake by dinoflagellates. *Journal of Phycology*, **20**(3):394-401.
22. Bryceson, I. (1984). Marine fisheries of Tanzania. HODI (Norge-Tanzania Foreningen) 1:2-28.
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27. Unpublished: technical reports on environmental control systems for salmon and trout aquaculture, and design for water treatment system and hatchery constructed at Slemmestad, Norway.
28. Bryceson, I. (1987). Aquaculture: biological and ecological principles. Compendium for a two-day intensive course held for NORAD/MDC personnel.
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35. Bryceson, I. (1989). Monsoon-driven seasonality in the Western Indian Ocean. Paper presented at IMS/SAREC Regional Workshop on Marine Sciences, 14-17 November 1989, Dar es Salaam, Tanzania.
36. Bryceson, I. (1989). Prawn aquaculture in east Africa: development potential and environmental dangers. Paper presented at IMS/SAREC Regional Workshop on Marine Sciences, 14-17 November 1989, Dar es Salaam, Tanzania.
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[https://www.iucn.org/about/union/commissions/sustainable\\_use\\_and\\_livelihoods\\_specialist\\_group/resources/lessons\\_learned/](https://www.iucn.org/about/union/commissions/sustainable_use_and_livelihoods_specialist_group/resources/lessons_learned/)
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69. Bryceson, I. (2001). Coastal aquaculture developments in Tanzania: sustainable and non-sustainable experiences. Keynote paper presented at 2<sup>nd</sup> WIOMSA Scientific Symposium, 22<sup>nd</sup>-26<sup>th</sup> October, 2001 in Dar es Salaam, Tanzania.
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71. Bryceson, I. (2002). Appraisal of the Project Document for SRV-033 - Phase II "Building advanced research, education and extension capacity at the Research Institute for Aquaculture No. 1, Vietnam". 12 pp.
72. Bryceson, I., Abrahamsen, J. & Arnesen, O.E. (2002). Appraisal of Programme Document "Management of Natural Resources Programme", Tanzania TAN 092 – Phase III (July 2002 to June 2006) for NORAD. 15 pp.
73. Bryceson, I. (2002). Coastal aquaculture developments in Tanzania: sustainable and non-sustainable experiences. *Western Indian Ocean Journal of Marine Science* 1(1):1-10 <http://www.wiomsa.org/download/Journal/Bryceson.pdf>
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75. Bryceson, I. & Massinga, A. (2002). Coastal resources and management systems influenced by conflict and migration: Mecúfi, Mozambique. *Ambio* 31(7-8): 512-517
76. Rönnbäck, P., Bryceson, I. & Kautsky, N. (2002). Coastal aquaculture in east Africa: prospects for sustainable development? *Ambio* 31(7-8): 537-542
77. Sharma, C.M., Sharma, S., Jha, B.R., Borgström, R. & Bryceson, I. (2003). Assessing Biotic Integrity of Streams: Effects of Dam Building on Benthic

Macroinvertebrates in the Tinau River, Nepal. Paper presented at Conference on Recent Trends in Aquatic Biology, Hyderabad, India. 29<sup>th</sup>-31<sup>st</sup> January 2003.

78. Bryceson, I. (2003). Akvakulturutvikling i sør - er noe av norsk ekspertise relevant for utviklingssamarbeid? Seminar arrangerte av Havforskningsinstituttet og Fiskeridirektoratet, Bergen, 23.-24. januar 2003. (In Norwegian).
79. Massinga, A. & Bryceson, I. (2003). Changes in coastal resources and management systems in the context of conflict, migration and post-conflict periods in Mecúfi district, northern Mozambique. *In* N. Shanmugaratnam, R. Lund and K.A. Stølen (eds.) "In the Maze of Displacement: conflict, migration and change". Høyskoleforlaget Norwegian Academic Press, pp 201-228.
80. Bryceson, I. (2003). Coastal aquaculture systems in Malaysia, Tanzania and Norway: ecological and social scenarios. Plenary lecture at Conference on Interdisciplinary Marine Sciences arranged by Swedish Society for Marine Sciences (SHF) in Kalmar, Sweden. 5<sup>th</sup>-7<sup>th</sup> October 2003.
81. Bryceson, I. (2003). A comparative interdisciplinary study of coastal aquaculture systems in Malaysia, Norway and Tanzania: some useful methodologies. Paper presented at Third WIOMSA Scientific Symposium, Maputo, Mozambique. 15<sup>th</sup>-17<sup>th</sup> October 2003.
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"Seascape" a useful concept in this context? Paper presented at IFS-WIOMSA Workshop, Zanzibar, Tanzania, 29<sup>th</sup> October 2008.

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164. Yanda, P.Z., Bryceson, I., Mwevura, H. & Mung'ong'o, C.G. (2019). *Climate Change and Coastal Resources in Tanzania: Studies on Social-Ecological Systems' Vulnerability, Resilience and Governance*. Springer, Cham, Switzerland. 216 pages.
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## PROFESSIONAL EXPERIENCES

1972-1982: Teaching and research at the Marine Biological Station, Department of Zoology and Marine Biology of University of Dar es Salaam (1973-1982). Served as member of Tanzania National Committee for Effluent Standards and the Inter-Ministerial Environmental Board (1975-1982). Consultancies on various pollution and conservation problems, environmental impact studies, and beach erosion control measures for private and public institutions in Tanzania (1978-1982). Participated in UNESCO-sponsored Marine Science Course at Malindi, Kenya (1974), FAO-sponsored Oceanographic and Fishery Research Expedition in the Indian Ocean (East Africa, Mauritius and Seychelles) (1976), ICTP-sponsored Workshop on Physical Oceanography at Trieste, Italy (1980), and UNESCO-sponsored visit to the Open University at Milton Keynes, England (1981).

1983-1985: Guest Scientist at the Institute of Marine Biology, University of Oslo, Norway, doing post-doctoral research on strategies for combined-nitrogen uptake by different species of dinoflagellates in unialgal cultures using isotopic tracers ( $N^{15}$  and  $C^{14}$ ). Assisted in the establishment of an institutional cooperative link between the University of Oslo and the University of Dar es Salaam for marine biological research. Participated in the UNESCO/SCOR/NORAD-sponsored International Phytoplankton Course at Drøbak, Norway (1983).

1985-1987: Senior Scientist for Marenor a.s, a Norwegian company involved in research and development in aquaculture with special attention to environmental control systems. Developed a technological innovation in the form of a semi-closed system for fish enclosure which enhanced growth of the fish (salmon and trout), reduced stress and vulnerability to disease, and provided better control over pollution and environmental factors. Designed, constructed and operated a hatchery for salmon and trout. Conducted research and monitoring on water quality and pollution control.

1985-1990: chosen as member of GESAMP (Joint Group of Experts on Scientific Aspects of Marine Pollution - IMO/FAO/UNESCO/WMO/IAEA/UN/UNEP) with special responsibility as the coordinator for the east African and western Indian Ocean region.



1987-1989: worked as Bio-Technical Director in Scanaqua a.s., with responsibility for biological and technical matters and aspects of Scanaqua's involvement in international aquaculture (especially prawn/shrimp farming). Responsible for project identification, planning and design, implementation and back-up, computerised monitoring services, recruitment of technical personnel for a 217 hectare prawn-farm and hatchery project in Gambia, and feasibility studies for a similar project in Tanzania.

1990-1996: Senior Environmental Adviser in NORAD (Norwegian Agency for Development Cooperation). Jointly formulated environmental strategy and action plans for NORAD's support to developing countries. Was responsible for monitoring environmental aspects of NORAD's involvement in development programmes and projects in Africa, Asia and Central America. Gave technical advice to NORAD's departments and representations/embassies abroad on matters pertaining to the environment. Advised the Foreign Ministry on environmental aspects of projects funded through multilateral funds. Reviewed various applications for funding of environmentally oriented programmes and projects.

1993-2003: part-time (20%) position as Adjunct Professor at the University of Bergen, Department of Fisheries and Marine Biology. I taught and supervised postgraduate students from various developing countries and Norway in tropical aquatic ecology and international aquaculture. I took postgraduate students on two-week marine ecological field courses to Zanzibar annually.

2003: on Sabbatical I conducted a comparative study of coastal aquaculture systems in Malaysia, Tanzania and Norway funded by the Norwegian Research Council (NFR). I was hosted by WorldFish Center in Penang, Malaysia (February-June), University of Bergen, Norway (July-September) and Western Indian Ocean Marine Science Association, Zanzibar, Tanzania (October-December).

2006-2007: I led an interdisciplinary fisheries study on the effects of trial export of finfish on ecological-social resilience and vulnerability in Tanzanian coastal waters, households and communities.

1996-now: full-time position as Professor at Department for International Environment and Development Studies, Noragric, Norwegian University of Life Sciences at Ås working on issues related to natural resource management and community development (especially focusing on coastal and marine ecology, aquaculture, aquatic resource management and integrated coastal zone management) in developing countries. Conduct research on marine and coastal issues, including fisheries, aquaculture, conservation, tourism, governance and people's rights. Teach postgraduate students on tropical ecology, linking ecological-social resilience and aquatic resource management. Supervised 41 MSc and 6 PhD theses. Examined multiple PhD students in Norway, Sweden, Tanzania, South Africa, Australia, USA and England, and also MSc students in both Norway and Sweden. Carried out research projects, consultancy assignments for public institutions, and held multiple positions of academic leadership responsibility.

Some recent consultancy assignments: led review of NORAD support to coastal zone management project implemented by Ministry of Environmental Cooperation in Mozambique (1996), review of NORAD support to Environmental Programme of Sri Lanka's Ministry of Environment (1996), participated in the team for reviewing NORAD's support to Tanzania's Ministry of Natural Resources and Tourism (1997), Bangladesh's Ministry of Environment and Forests (1997), South Asia Cooperative Environment

Programme (1998), cooperation between Sokoine University of Agriculture in Tanzania and Agricultural University of Norway (1999), environmental assessment in East Timor for UNDP (2000), led review of NORAD support to Research Institute for Aquaculture No. 1, Vietnam (2001), and review of the International Collective in Support of Fishworkers, ICSF (2002), Appraisal of Tanzania's Management of Natural Resources Programme Document Phase III (2002), Specialist for Evaluation of DFID's support to Fisheries Management Science Programme, Aquaculture and Fish Genetics Research Programme and Post-Harvest Fisheries Research Programme (2004), led a Desk-study for NORAD on Potential Effects of Nile Tilapia Introductions on Biodiversity in Vietnam (2005), team-leader for Mid-term Review of Natural Resources Management Programme in Tanzania (2005), Overall Review of UNESCO's Major Science Programmes (2006-2007), Planning Team for Natural Resources Management Programme in Tanzania (2007), and a NORAD study on Climate Change in Tanzania: Trends, Policies and Initiatives (2008).

2007-2013: led a NUFU-funded project on *“Coastal fisheries of Tanzania: the Challenges of Globalisation to Resource Management, Livelihoods and Governance”*. This was a cooperative research project between the Norwegian University of Life Sciences and the University of Dar es Salaam on Mafia Island with active involvement of six Tanzanian and two Norwegian scientists, two PhD students and seven MSc students.

2013-2019: leading Norwegian-based participation in a NORHED-funded project titled *“Vulnerability, Resilience, Rights and Responsibilities: Capacity Building on Climate Change in Relation to Coastal Resources, Gender and Governance in Coastal Tanzania and Zanzibar”* between the University of Dar es Salaam, State University of Zanzibar and Norwegian University of Life Sciences.

Recently completed supervision of PhD students:

- Betsy Beymer-Farris – completed May 2011
- Hege Wallevik – completed January 2013
- Marianne Karlsson – completed September 2015
- Lydia Gaspare – completed January 2016
- Kjersti Thorkildsen – completed June 2016
- Victoria Moshy – completed January 2017
- Dara Sands – commenced 2017

#### **MEMBERSHIPS AND COMMITTEES (selected):**

- |           |   |
|-----------|---|
| 1985-now  | Amnesty International (AI), Norway, supporting member                                       |
| 1988-1998 | Wildlife Conservation Society of Tanzania (WCST), Dar es Salaam, Tanzania                   |
| 1988-now  | Norwegian Society for the Conservation of Nature (NNV), member                              |
| 1988-now  | Norwegian Association for Water and Forest Studies (FIVAS), Steering Committee (1988-98)    |
| 1993-now  | Western Indian Ocean Marine Scientists Association (WIOMSA), Zanzibar, Tanzania             |
| 1996-now  | Roster of Experts on Marine and Coastal Biodiversity, CBD, Montreal, Canada                 |
| 1997-now  | Norwegian Association for Development Research (NFU), Steering Committee, Chair (1997-8)    |
| 1997-1999 | North-South Committee, (Idégruppen Nord-Sør), Steering Committee                            |
| 1997-2002 | FAO Advisory Committee on Fishery Research (ACFR), Rome, Italy                              |
| 1998-2001 | Research Council of Norway (NFR) “Development Paths in the South”, Programme Committee      |
| 1998-2003 | Sida Research Council (Forskningsnämnden), Stockholm, Sweden                                |
| 1998-2003 | SAREC Reference Group on Natural Resources and Environment, Stockholm, Sweden               |
| 1999-2002 | IUCN programme on Marine Biodiversity, NODE coordinator and Task Force member               |
| 2000-2004 | Norwegian National Commission for UNESCO (and member of Committee on Science)               |
| 2001-2011 | Editorial Board, Western Indian Ocean Journal of Marine Sciences                            |
| 2002-2004 | FAO International Reference Group - Impact of Trade in Fishery Products on Food Security    |
| 2003-2015 | Fishery Research Forum for Development Cooperation, Norway, Steering Committee              |
| 2004-now  | Marine Science for Management (MASMA), Western Indian Ocean, Programme Committee            |
| 2005-2011 | Aquatic Ecosystem Health and Management Journal, Canada, Editorial Board                    |
| 2005-2008 | International Foundation for Science (IFS), Aquatic Resources Scientific Advisory Committee |
| 2006-2007 | Review Committee of UNESCO's Major Science Programmes                                       |
| 2008-now  | Marine Science for Management (MASMA-WIOMSA), Chairperson of Programme Committee            |

2009-now Honorary Life Member of WIOMSA  
2009-2014 Founding member of the Det Akademiske Kollegium of the Norwegian University of Life Sciences  
2010-2013 IPCC Expert Reviewer for the Fifth Assessment Report (AR5)  
2010-now Programme and Research Council member, Nordic Africa Institute (NAI), Uppsala, Sweden  
2010-now Ethics Committee of the Norwegian University of Life Sciences  
2011-2012 FAO Expert Panel on Evaluation of the International Code of Conduct for Responsible Fisheries

**LANGUAGES:**

English - fluent  
Swahili - fluent  
Norwegian - fluent

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