

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 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
(Adjunct Professor, 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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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.
6. Denny, P., Harman, J., Abrahamsson, J. & Bryceson I. (1978). Limnochemical and phytoplankton observations on Nyumba ya Mungu reservoir, Tanzania. *Biological Journal of the Linnaean Society*, **10**(1): 29-48.
7. Bryceson, I. & Fay, P. (1979). Nitrogen fixation associated with surface blooms of *Oscillatoria (Trichodesmium) erythraea* in the coastal waters of Dar es Salaam. Paper presented at Third International Symposium on Photosynthetic Prokaryotes, Oxford, 6 pp.
8. Bryceson, I. & Mwiseje, B. (1979). An assessment of the ecological impact on the marine environment of discharges from existing and proposed sewerage systems in Dar es Salaam. Report to Howard Humphreys & Partners, 22 pp.
9. Bryceson, I. (1980). Nitrogen fixation and the autecology of *Oscillatoria erythraea* (Ehrenberg) Kützing a planktonic cyanophyte from the coastal waters of Tanzania. Proceedings of Symposium on the Coastal and Marine Environments of the Red Sea, Gulf of Aden and Tropical Western Indian Ocean, Khartoum. Volume 2: 471-494.
10. Bryceson, I. & Störmer, K.P. (1980). Recommendation for beach erosion control at Silversands Hotel, Report to University of Dar es Salaam,. 20 pp.
11. Bryceson, I. & Fay, P. (1981). Nitrogen fixation in *Oscillatoria (Trichodesmium) erythraea* in relation to bundle formation and trichome differentiation. *Marine Biology*, **61**:159-166.
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.
17. Bryceson, I. (1982). Seasonality of oceanographic conditions and phytoplankton in Dar es Salaam waters. *University Science Journal*, **8**(1):66-76.
18. Schiller, E. & Bryceson, I. (1983). Erosion protection on the beaches north of Dar es Salaam, Tanzania. Proceedings of International Conference on Coastal and Port Engineering in Developing Countries (COPEDEC), 23rd-26th March 1983, Colombo, Sri Lanka. Vol 1, pp. 721-728.
19. Paasche, E. & Bryceson, I. (1983). Dinoflagellater, nitrat og lys. Paper presented at 34th Annual Meeting of the Norwegian Marine Research Association, Øystese. (In Norwegian)
20. Bryceson, I. (1984). Phytoplankton and zooplankton production in Tanzanian coastal waters. Proceedings of the NORAD-Tanzanian Seminar to Review the Marine Fish Stocks and Fisheries in Tanzania, Mbegani, pp. 9-23.
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.
23. Bryceson, I. (1984). Vannforurensningsproblemer i forhold til utviklingsprioritering: eksempler fra Tanzania. In: Eggan, G. (ed.), "Miljøvern og Bistandarbeid", Kommit, Universitetet i Trondheim, pp. 79-83. (In Norwegian)
24. Bryceson, I. (1985). (Editor) "*Fisheries Development: the Experience of Norway and her Partner Countries in the Context of Norwegian Assistance*". Ministry of Development Cooperation, Oslo, Norway, 386 pp.
25. Bryceson, I. (1985). Tanzanian marine fisheries and the Mbegani project. In: Bryceson, I. (1985). (Editor) *Fisheries Development: the Experience of Norway and her Partner Countries in the Context of Norwegian Assistance*. Ministry of Development Cooperation, Oslo, Norway, 15 pp.
26. Bryceson, I. (1986). Environmental factors affecting salmonoid farming in Norway and a new method for control: the "Maremær" technique. Paper presented at International Conference on the Development of Fish Farming. Cork, Ireland. 10 pp.

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.
29. Bryceson, I., De Souza, T.F., Jehangeer, I., Ngoile, M.A.K., & Wynter, P. (1987). The Marine Environment in the East African Region. Report presented to GESAMP Working Group 26. Geneva, Switzerland. 63 pp.
30. Unpublished: feasibility studies, technical reports and computerised monitoring systems of environmental and productive parameters of prawn aquaculture development potential and problems in western and eastern Africa.
31. Bryceson, I. (1988). Anticipated impacts of a Norwegian-proposed dam at Stiegler's Gorge, Tanzania. Paper presented at Hearing on Third World Environmental Perspectives on the Brundtland Commission Report, Oslo, November 1988 and published as Chapter 3 in FIVAS's book "*Når Norge legger verden i rør*".
32. Bryceson, I. (1988). Environmental problems in the East African region. *The Siren* **36**:18-19
33. Portmann, J.E., Bryceson, I., & Halim, Y. (1988). The state of Africa's marine environment. *UNEP News Africa*, pp. 22-24.
34. Bryceson, I. (1989). Marine pollution problems in developing countries. Paper presented at Ecology-89 Conference, Gothenburg, Sweden. 29th August 1989.
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.
37. Bryceson, I., De Souza, T.F., Jehangeer, I., Ngoile, M.A.K. & Wynter, P. (1990). The State of the Marine Environment in the East African Region. UNEP Regional Seas Report, 66 pp.
38. Unpublished: numerous internal NORAD reports, appraisals, etc. on matters related to environment and development in the context of Norwegian development cooperation.
39. Bryceson, I. (1993). The role of a development agency in environmental conservation. *In*: Rusten, C. & Wøien, H. (ed.) *The Politics of Environmental Conservation*, Report 6/93 Centre for Environment and Development, University of Trondheim, pp 98-105.

40. Bryceson, I. (1993). Appraisal of Programme Document for a Sectoral Agreement between MNTRE and NORAD on Management of Natural Resources and Environmental Planning in Tanzania. 29 pp.
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42. Bryceson, I. (1994). NORAD's environmental policy on support to hydropower projects in developing countries. *In: Proceedings of International Conference on Nordic Dam-building in the South, Stockholm, 3-4 August, 1994.*
43. Bryceson, I. (1995). Appraisal of Kasur Tanneries Pollution Control Project Proposal. Report to Norwegian Embassy / NORAD, Islamabad, Pakistan. 15 pp.
44. Bryceson, I. (1995). De marine biotopene utenfor kystene av Afrika. *In: Stenseth, N.C., Paulsen, K. & Karlson, R. (ed.) Afrika - natur, samfunn og bistand, pp 50-53. (In Norwegian)*
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52. Sandlund, O.T., Bryceson, I., Larsen, K., Maro, W.E. & Kulindwa, K. (1997). Mid-Term Review of NORAD-funded Programme for Environmental Cooperation. Report to Ministry of Natural Resources and Tourism, Tanzania and Norwegian Embassy / NORAD, Tanzania. 80 pp.

53. Gleditsch M., Lunøe, B., Bryceson, I. & Rao, A.L. (1997). Joint NORAD/IUCN Review of National Conservation Strategy Implementation Project. Report to Ministry Environment and Forests, Bangladesh and Norwegian Embassy / NORAD, Bangladesh. 45 pp.
54. Bryceson, I. (1998). Open letter to the Tanzanian government urging rejection of Rufiji prawn project. *Samudra* **19**: 54-56
55. Bryceson, I. & Wijayadasa, K.H.J. (1998). Review of Strategy and Programmes I and II of South Asian Cooperative Environment Programme (SACEP). Report to SACEP, UNEP and NORAD. 64 pp.
56. Bryceson, I. (1998). "The dual characters of donors and recipients in the context of development cooperation". Editorial. *NFU-Nytt* **98**(1): 6-8.
57. Bryceson, I. (1998). Integrated coastal zone management in eastern Africa: a critical assessment. A report to the Environment Section, NORAD, Oslo. 108 pp.
58. Bryceson, I. (1999). Studies on phytoplankton and nitrogen-fixing cyanobacteria in Tanzanian coastal waters over 25 years. Paper presented at "Sida / SAREC Regional Course on Biology of Marine Phytoplankton and Cyanobacteria" held at Institute of Marine Sciences, Zanzibar, Tanzania. 18-23 March 1999.
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60. Bryceson, I. (1999). Reflections on the history of marine sciences development in Tanzania and some ideas on future challenges. Keynote paper presented at Conference for 20th Anniversary of Institute of Marine Sciences, Zanzibar, Tanzania. 28 June-2 July 1999 and published in the Proceedings "Marine Science Development in Tanzania and Eastern Africa" pp. 45-50.
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62. Bryceson, I. (2000). Introduction to the Programme Concept. Presentation to Workshop on Development of a Partnership Programme with IUCN for Implementing the Jakarta Mandate in the Western Indian Ocean, Mombasa, February 2000. 5 pp.
63. Francis, J. & Bryceson, I. (2000). *Tanzanian coastal and marine resources: some examples illustrating questions of sustainable use*. Poster presented at the 5th Conference of Parties (COP) of the Convention on Biological Diversity, Nairobi, May 2000.
64. Bryceson, I., Andreassen, L., Nho, N.T. & Tang, V.T. (2000). Mid-term Review of project "*Building advanced research, education and extension capacity at the Research Institute for Aquaculture No. 1, Vietnam*". Report to Ministry of Fisheries, Vietnam and NORAD. 51 pp.

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66. Sandlund, O.T., Bryceson, I., Carvalho, D., Rio, N., Silva, J. & Silva, M.I. (2001). *Assessing Environmental Needs and Priorities in East Timor*. Report to UNDP, Dili. 73 pp.
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69. Bryceson, I. (2001). Coastal aquaculture developments in Tanzania: sustainable and non-sustainable experiences. Keynote paper presented at 2nd WIOMSA Scientific Symposium, 22nd-26th October, 2001 in Dar es Salaam, Tanzania.
70. Bryceson, I. & Kurien, J. (2002). Mid-term Review of International Collective in Support of Fishworkers (ICSF) and NORAD's support to project GLO-440/99 in 1999-2002. 40 pp.
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>
74. Lugomela, C., Lyimo, T.J., Bryceson, I., Semesi, A.K. & Bergman, B. (2002). *Trichodesmium* in coastal waters of Tanzania: diversity, seasonality, nitrogen and carbon fixation. *Hydrobiologia* 477:1-13
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. 29th-31st 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. 5th-7th 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. 15th-17th October 2003.
82. Bryceson, I. (2004). "Fisken i havet – viktig og konfliktylt". I Nærstad, A. og Randen, O. (red.) *Kampen om maten*. Boksmia Forlaget, Utviklingsfondet og Norsk Bonde- og Småbrukarlag, Oslo. Pages 100-111. (In Norwegian)
83. Bryceson, I. (2004). "Er oppdrettsnæringen bærekraftig?" Intervjuet av Aase Vallevik Hjukse. <http://www.forskning.no/Artikler/2004/juli/1088427808.5> (In Norwegian)
84. Bryceson, I. (2004). "Hva skal oppdrettsfisken spise?" Intervjuet av Guro Tarjem, NRK P2 Verdt å Vite. http://www.nrk.no/programmer/radio/verdt<alfa>_vite/4100640.html (In Norwegian)
85. Bryceson, I. (2004). Linkages and interactions between fisheries, aquaculture, aquatic ecosystems health, human poverty/wealth and human health. Plenary paper presented at 7th Asian Fisheries Forum, Penang, Malaysia. 30th November - 4th December, 2004.
86. Bryceson, I. (2004). Stock enhancement and aquaculture of *Anadara granosa* (blood cockles) in relation to other coastal activities in Penang, Malaysia. Technical paper presented at 7th Asian Fisheries Forum, Penang, Malaysia. 30th November - 4th December, 2004.
87. Bryceson, I., Svennevig, N., Sandlund, O.T. (2005). Desk-study on the Potential Effects of Nile Tilapia Introductions on Biodiversity with Special Reference to Vietnam. Report to NORAD, 25 pages.
88. Bryceson, I., Havnevik, K., Isinika, A., Jørgensen, I., Melamari, L., Sønvisen, S. (2005). Management of Natural Resources Programme, Tanzania. Mid-term Review of TAN-092 Phase III (2002-2006). Ministry of Natural Resources and Tourism and Royal Norwegian Embassy, Tanzania. 176 pages.

89. Bryceson, I (2005). Recent and prospective aquaculture developments in Tanzania. Paper presented at Annual Meeting of Fishery Forum for Development Cooperation, Bergen, 31st March -1st April 2005.
90. Bryceson, I. (2005). Specialist Desk Review Report as input towards Evaluation of DFID's ten Renewable Natural Resources Research Programmes. Assessments of: 1) Aquaculture and Fish Genetics Research Programme, 2) Fisheries Management Science Programme, 3) Post-harvest Fisheries Research Programme. Report to DFID, London, England. 22 pages.
91. L. Lindström and I. Bryceson (2005) "Participatory workshops, institutions and narratives", in M. de la Torre-Castro and N.S. Jiddawi (eds.) Seagrass Related Research and Community Participation: fishermen, fisheries and seagrasses. Zanzibar: WIOMSA.
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93. Bryceson, I. (2005). Trends in aquaculture: where are the challenges for future development in education and research? Paper presented at International Aquaculture Education Network Seminar, Oscarsborg, Drøbak, Norway, 7th-8th August 2005.
94. Bryceson, I., Jiddawi, N., Semesi, S.I. (2005). Recent developments in aquaculture in Tanzania in relation to the struggle of coastal peoples against poverty. Paper presented at the Fourth WIOMSA Scientific Symposium, Mauritius, 29th August - 3rd September, 2005.
95. Sharma, C.M., Sharma, S., Borgstrøm, R., Bryceson, I. (2005). Impacts of a small dam on macroinvertebrates: a case study in the Tinau river, Nepal. *Aquatic Ecosystem Health and Management Journal* 8(3): 267-275.
96. Bryceson, I. (2005). Seaweed aquaculture in Tanzania: ecological and socio-economic effects of monopolised market control in the era of globalisation. Paper presented at Conference on "Biodiversity and biosafety: toward a broader vision of conservation" at University of Copenhagen, Denmark, 12th-14th December 2005.
97. Bryceson, I. (2006). Coastal Aquaculture in Tanzania. Presentation at ICSF-WIOMSA Workshop on Fishing Communities and Sustainable Development in Eastern and Southern Africa, in Dar es Salaam, Tanzania, 13th-17th March 2006. <http://www.icsf.net/icsf2006/ControllerServlet?handler=OTHERPUB&code=viewPubn&language=EN&subsiteId=2&pubnType=proceeding>
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99. Bryceson, I. (2006). MPAs in developing countries: how do they contribute to, or detract from social-ecological resilience? Presentation at Conference on Marine Protected Areas, Forum for Fisheries Development Research on board "Trollfjord" Trondheim to Bergen, Norway, 23rd-24th October 2006.
100. Bryceson, I. (2006). Tanzanian fisheries development potentials and challenges in relation to sustainability and equity: and an example of collaborative research conducted under the MNRP. Paper presented at Workshop on preparation of a new Management of Natural Resources Programme Bagamoyo, 2nd - 3rd October 2006
101. Barbosa, M., Attia, F., Audouze, J., Benabdellah, R., Bernal, P., Boksenberg, A., Bryceson, I., D'Orville, H., Erdelen, W., Huang, P., Jhunjhunwala, A., Kante, B., Gandasegui M., Mihneva, R., Olsen, K., Petrov, R., Sane, P., Quevedo, L., Yamamoto, S. (2007). Overall Review of UNESCO's Major Science Programmes. <http://unesdoc.unesco.org/images/0015/001502/150264e.pdf>
102. Othman, W., Jiddawi, N., Bryceson, I. (2007). Social-ecological resilience of Pete and Maruhubi mangrove ecosystems in Zanzibar, Tanzania. Paper presented at Tanzanian Coastal and Marine Forum, Dar es Salaam, 1st-4th June 2007.
103. Razack, L., Kulindwa, K., Bryceson, I. (2007). Marine and coastal livelihoods and conservation in the era of globalisation. Paper presented at Tanzanian Coastal and Marine Forum, Dar es Salaam, 1st-4th June 2007.
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105. Bryceson, I. (2008). Tanzania's Fisheries Sector: input to the Inception Report for a new Natural Resources Management Programme of cooperation between Tanzania and Norway. Report to Government of United Republic of Tanzania and Royal Norwegian Embassy. 12 pages.
106. Bryceson, I., Jiddawi, N., Kamukuru, A., Kulindwa, K., Mwaipopo, R. (2008). Utafiti wa Uvuvi katika Mwambao wa Tanzania: athari za uuzaji wa samaki kwa majaribio nje ya nchi kutoka kisiwa cha Mafia juu ya ikolojia—uhimilivu wa kijamii na uathirikaji. Paper presented to eight villages on Mafia Island and to Mafia District authorities in a series of seminars held in the villages. 12 pages.
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108. Bryceson, I. Mwaipopo, R. (2008). Coastal fisheries of Mafia: the challenges of globalisation to ecosystem management, livelihood security and people's rights: is "Seascape" a useful concept in this context? Paper presented at IFS-WIOMSA Workshop, Zanzibar, Tanzania, 29th October 2008.

109. Bryceson, I. (2009). Hård kritik mot svenska sockerplantager i Tanzania. Interview in Sveriges Radio, Sweden, 28th January 2009.
<http://www.sr.se/cgi-bin/p1/program/artikel.asp?ProgramID=406&Nyheter=1&artikel=2595073>
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http://www.cdcf.no/fishery_forum
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140. Bryceson, I. (2012). Coastal Fisheries of Mafia Island, Tanzania: Resources, Livelihoods and Governance in relation to Conservation. UMB and NINA seminar on "Nature Conservation in Africa – Green Grabbing or Sustainable Use?" held at Litteraturhuset, Oslo, 16th February 2012.
141. Bryceson, I., Hall, S., Short, K. & Sanchez, R. (2012). Expert Panel Assessment of the Evaluation of FAO's Support to the Implementation of the Code of Conduct for Responsible Fisheries. Report to FAO, Rome.

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145. Moshy, V.H., Beymer-Farris, B. & Bryceson, I (2012). Seeing through fishers' lenses: Exploring marine ecological changes within Mafia Island Marine Park, Tanzania. Paper presented at International Conference on Fisheries and Marine Sciences, Negombo, Sri Lanka. 24th August 2012.
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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 general administration 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 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 SIU-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 conducted on the Mafia Island with the active involvement of six Tanzanian and three Norwegian scientists, two PhD students and seven MSc students.

Recent and current supervision of PhD students:

Betsy Beymer-Farris – completed May 2011
Hege Wallevik – completed January 2013
Victoria Moshy – expected completion 2013
Lydia Gaspare – expected completion 2013
Marianne Karlsson – expected completion 2013
Kjersti Thorkildsen – expected completion 2014

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-now Steering Committee, Fishery Forum for Development Cooperation, Norway,
2004-now Marine Science for Management (MASMA), Western Indian Ocean, Programme Committee
2005-now Editorial Board, Aquatic Ecosystem Health and Management Journal, Canada
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-now Founding member of the Akademisk Kollegium of Norwegian University of Life Sciences
2010-now Programme and Research Council, 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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