

## CURRICULUM VITAE (CV) AS OF JULY 2004



### A. PERSONAL DATA

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|---------------------|---|
| 1. Name:            | Dr. Musse Gabobe Hassan   |
| 2. Date of Birth:   | 31/12/1964  |
| 3. Place of Birth:  | Mogadishu   |
| 4. Sex:             | Male  |
| 5. Nationality:     | Somalia   |
| 6. Profession:      | Fisheries Management  |
| 7. Languages        | English, Arabic & Malay   |
| 8. Current Address: | Department of Environmental Sciences<br>Faculty of Science and Environmental Studies<br>University Putra Malaysia (UPM)<br>3400 UPM Serdang Selangor, Malaysia<br>Telephone (O): 603 89 466 761<br>Telephone (M): 601 73 998 832<br>Facsimile: 603 89 438 109 |
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### C. EDUCATIONAL QUALIFICATION

#### 1. ACADEMIC QUALIFICATION

Degree	PhD
Field	Coastal Zone Management
Year	Sept. 2000- July 2004
Institution attended	University of Putra Malaysia
Degree	Master of Science
Field	Fisheries Management
Year	Nov. 1997-Feb. 1999
Institution attended	University of Putra Malaysia

Degree	Bachelor of Science
Field	Marine Science
Year	1986-1989
Institution attended	Technical & Commercial Teachers' College, Somali National University
Certificate	GCS
Field	Fisheries Management
Year	1981-1985
Institution attended	Maritime and Fishery Institute, Mogadishu Somalia

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## **2. PROFESSIONAL WORK EXPERIENCE**

- A) Ministry of Fisheries & Marine Resources Transitional National Government of Somalia, Mogadishu, Somalia      Special Advisor to the Minister  
Date of Appointment  
From 20 May, 04 to Present
- B) Employer- Name and Address      Functional title  
JICA/MASDEC      Research Fellow  
Putra Environmental Laboratory      (Earth Observation Lab.)  
Faculty of Science and Environment      Date of Employment  
University of Putra Malaysia,      From: 01. Jan. 2000  
43400, Selangor, Malaysia      Till: 01. July 2004
- C) Employer-Name and Address      Functional title  
AQK Aquaculture Co. Ltd      Consultant  
No. 23-1A, Jalan Industry PBP 1/2      (Marine Fisheries Unit)  
Industry Park      Date of Employment  
Pusat Bandar Puchung      From : 02 Feb. 2001  
Selangor, Malaysia      Till : 30 Dec. 2003
- D) Employer-Name and Address      Functional title  
Faculty of Applied Science and Technology      Research Fellow  
University of Putra Malaysia, Terengganu      (Fish Biosensor Unit)  
Malaysia      Date of Employment  
From : 30 Jan. 1999  
Till : 30 Dec. 1999

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| E) | Employer- Name and Address<br>Faculty of Applied Science and Technology<br>University of Putra Malaysia,<br>Terengganu<br>Malaysia | Functional title<br>Research Fellow<br>(Marine Research Unit)<br>Date of Employment<br>From : 01. 07. 96<br>To : 30 Jan. 1999 |
| F) | Employer- Name and Address<br>Saudi Libher Co. Ltd<br>Jeddah, Saudi Arabia   | Functional title<br>(Salesman: Marine products)<br>Date of Employment<br>From: April 1992<br>Till: Nov. 1995                  |
| G) | Maritime and Fishery Institute<br>Abdul Aziz District,<br>Mogadishu,<br>Somalia  | Functional title<br>(Teacher: Fishery Section)<br>Date of Employment<br>From: Dec. 1989<br>Till: Jan. 1991                    |
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### 3. INTERNATIONAL AWARDS

1. Graduate Research Assistance Award under IRPA Research Grant, University of Putra Malaysia – 1997-1999
  2. Islamic Development Bank (IDB) Merit Scholarship for Science and Technology for 2000-2004.
  3. The Best Paper Oral Presenter for Young Scientists Category of the Second International Conference on the Straits of Malacca “Tropical Marine Environment” Charting Strategies for the Millennium. 15-18<sup>th</sup> October 2001, Penang, Malaysia.
  4. Golden Award for the Exhibition & Award for Research and Innovation 13-14 August 2002, University of Putra Malaysia.
  5. Bronze Award for the Exhibition & Award for Research and Development 19-20, August, 2004, Institute of Biosciences, University of Putra Malaysia.
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#### 4. TEACHING EXPERIENCES

At maritime and fishery institute in Mogadishu, Somalia, I taught several subjects including oceanography and fishing technology. During my MSc and Ph.D. programmes, I taught on ad hoc many subjects such as application of Remote Sensing (RS) and Geographical Information Systems (GIS) for marine environment to undergraduate students. I also engaged in many intensive programmes for students from Open University, Malaysia. The following are the subjects which I have ability to teach.

1. Physical and biological Oceanography
  2. Environmental Monitoring
  3. Marine biological biodiversity
  4. Marine Ecology
  5. Marine Fisheries
  6. Natural Resources Management
  7. Application of RS and GIS for Marine Environment
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#### 5. RESEARCH INTEREST

My research interest is Fisheries Management in Tropical Waters. The following are some of research which I already engaged into:

1. Hydroacoustic Assessment of Pelagic Fishery Resources & Target Strength of Several Pelagic Species and Its Application to Fish Stock Assessment, 1999. Master of Sciences (MSc.) Thesis.
  2. Distribution of Pelagic Fishery Resources and their Relations to Oceanographic Variability Using Geographical Information Systems (GIS), 2004. Doctoral of Philosophy (Ph.D.) Thesis
  3. Marine Fish and Fisheries of Somalia and Neighboring Western Indian Ocean Waters
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#### 6. BUBLICATIONS

##### A. DISSERTATIONS

1. **Musse G.H.** 1999. Hydroacoustic Assessment of Pelagic Fish around Bidong Island, Teregganu, Malaysia. MSc. Thesis, Universiti Putra Malaysia, Serdang, Malaysia, 110 pp.
  2. **Musse G.H.** 2004. Distribution of Pelagic Fishery Resources in the Straits of Malacca and their Relations to Oceanographic Variability. Ph.D. Thesis, Universiti Putra Malaysia, Serdang, Malaysia, 294 pp.
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**B. JOURNALS**

1. **Musse, G.H.**, H.M. Ibrahim, M.A. Ambak, M.S. Abdul Rashid, Takaya, N. and Yanagawa, H. 2002. Distribution and abundance of small pelagic fishery resources in the SOM and their relationship with oceanographic changes using GIS analysis. *Sci. Int. (Lahore)*, 14 (2): 129-141.
  2. **Musse, G.H.**, Samo, K., Ambak, M.A., Ibrahim, S. and Zakaria, M.Z. 1998. In situ, Target Strength Measurement of Pelagic Fish Species around Bidong Island using Split beam Echo sounder. *Garing Fish. Journal*. 7 (2): 42-53.
  3. **Musse, G.H.** 1998. The Importance of Hydroacoustics for Fisheries Management. *Zenith Bulletin* 1:1 25-27.
  4. Samo, K., Hermawan, M. Ambak, M.A., Ibrahim, S. and Zakaria, M.Z., Shahardin, Z. **Musse, G. H.**, 1998. Target Strength Measurements on Scads (*Decapterus maruadsi*, *Selar boops Selaroides Leptolepsis*) Caught in Terengganu Waters. In proceeding: *Sci. Int. (Lahore)*, 10(2): 185-187.
  5. **Musse, G.H.**, H. M. Ibrahim, M. A. Ambak, M. S. Abdul Rashid and H. Yanagawa 2003. The impacts of spatio-temporal oceanographic phenomenon on the small pelagic fishery in the Straits of Malacca. Sent to *Fisheries Research*. (Editors).
  6. **Musse, G.H.**, H.M. Ibrahim, M.S. Abdul Rashid and M.A. Ambak, 2003. The Influence of SST and ENSO Variations on Pelagic Fishery Resources in the Straits of Malacca. Sent to *Ocean & Coastal Management* (Editors).
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**C. CHAPTER OF BOOKS**

1. **Musse G.H.** & H.T. Mahamud 1999. Current Status of Somali Marine Fisheries. In Assessment & Monitoring of Marine System. S. Lokman, M.S.N. Azhar, M.S. Nasir & M.A. Borowitzka (eds.), Universiti Putra Malaysia Terengganu, Kuala Terengganu, Malaysia (p 255 - 264).
2. **Musse, G.H.**, H.M. Ibrahim, M. A. Ambak, M. S. Abdul Rashid and H. Yanagawa. 2002. Distribution of pelagic fish resources and relationships with oceanographic features in the Straits of Malacca using GIS. In *Tropical Marine Environment: Charting Strategies for the Millennium*. F.M. Yusoff, M. Shariff, H.M. Ibrahim, S.G. Tan & S.Y. Tai (eds.), p. 775-791. Malacca Straits Research and Development Centre (MASDEC), Universiti Putra Malaysia, Serdang, Malaysia.
3. **Musse, G.H.**, H.M. Ibrahim, M.A. Ambak, M.S. Abdul Rashid and H. Yanagawa. 2003. Are the Implications of Spatio-temporal Oceanographic Phenomenon on Small Pelagic Fishery in the Straits of Malacca Significant? In *Investing in Innovation 2003*, Vol. 1: Agriculture, Food and Forestry, eds. Zaharah A. R. *et al.*, pp 51-58. Universiti Putra Malaysia Press, Serdang, Selangor, Malaysia.

4. H.M. Ibrahim, T. Namba and **Musse, G.H.** 2000. Integrating Rational Geographical Information Systems Database Structure for the JICA-MASDEC Malacca Straits. *In Aquatic Resources and environmental studies of the Straits of Malacca: Current Research and Reviews.* B. Japar Sidik, A. Arshad, S. G. Tan, S. K. Daud, H. A Jamabri and S. Sugiyama (eds.). p. 211-218. Malacca Straits Research and Development Centre (MASDEC), Universiti Putra Malaysia, Serdang, Malaysia.
5. H.M. Ibrahim, T. Namba, S. Nasir and **Musse, G.H.** 2000. Seasonal Variation of Oceanic and Atmospheric Properties in the Strait of Malacca and Adjacent Seas *In Aquatic Resources and environmental studies of the Straits of Malacca: Current Research and Reviews.* B. Japar Sidik, A. Arshad, S. G. Tan, S. K. Daud, H. A Jamabri and S. Sugiyama (eds.). p. 11-25 Malacca Straits Research and Development Centre (MASDEC), Universiti Putra Malaysia, Serdang, Malaysia.

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#### D. CONFERNECE PROCEEDINGS

1. **Musse, G.H.**, H.M. Ibrahim, M.A. Ambak, M.S. Abdul Rashid and H. Yanagawa. 2003. Spatio-temporal characteristics of pelagic fisheries in the Straits of Malacca and their relations to physical oceanographic variations using GIS analysis. *In R&D at Universiti Putra Malaysia, Part 1: Creating New Frontiers of Innovation Research*, ed. Nayan, D.S.K., pp 56-57. Universiti Putra Malaysia, Selangor, Malaysia.
2. **Musse, G.H.**, H.M Ibrahim, M.A. Ambak, M.S. Abdul Rashid and H. Yanagawa, 2002. Spatio-temporal variations of oceanographic features and their influences on pelagic fishery in the straits of Malacca using GIS analysis. *In Second International Symposium on GIS/Spatial Analysis in Fishery and Aquatic Science*, 3-6 September 2002, University of Sussex, Brighton, United Kingdom. (Editors)
3. **Musse, G.H.**, H.M Ibrahim, M.A. Ambak, M.S. Abdul Rashid, K.C.A. Jalal and H. Yanagawa, 2003. The effect of Spatio-temporal Oceanographic Phenomenon on Small Pelagic Fishery in the Straits of Malacca. Extended abstract in *International Conference on Advancement in Science and Technology (iCAST 2003)*. Wahiddin, M. R., Ridwan, H., Mualib, S.A., Umarov, B., Noorbacha, I.A., Aman, A., Abdul Hadi, M.S. and Taib, I.A. (eds.), p. 171-173. Faculty of Science, International Islamic University Malaysia.
4. **Musse, G.H.**, H.M. Ibrahim, M.A. Ambak, M.S. Abdul Rashid & H. Yanagawa. Spatio-temporal characteristics of pelagic fisheries in the Straits of Malacca and their relations to physical oceanographic variations. *In Asia-Pacific Conference on Marine Science and Technology (APCMST)*, Istana Hotel, Kuala Lumpur, 12 – 16 May 2002. (Editors)
5. **Musse, G.H.**, H.M. Ibrahim, M.A. Ambak, M.S. Abdul Rashid & H. Yanagawa 2002. Spatio-temporal sea surface temperature characteristics and their relation to availability of pelagic

- fisheries in the Straits of Malacca using GIS analysis. *In* Third Malaysian remote sensing society conference & exhibition on spatial information technologies in the new millennium: legend hotel, Kuala Lumpur, Malaysia. April 8-9, 2002.
6. H.M. Ibrahim & **Musse, G.H.** 2001. Geographical Information System for Sustainable Marine Resources Management of the Straits of Malacca. *In* Proceeding: East Asia Hydrographic Symposium & Exhibition 12 -14 June, 2001 at Legend Hotel, Kuala Lumpur.
  7. **Musse, G.H.** and Tako, 1999. Illegal Fishing and Dumping Hazardous Wastes Threaten the Development of Somali Fisheries and the Marine Environments. *In* Tropical Aquaculture and Fisheries Conference, 7th-9th Sept 1999 at the Park Royal Hotel, Terengganu. Malaysia.
  8. **Musse, G.H.**; Sakri I.; Khalid, S.; Ambak, M.A. and Hermawan, M. 1999. Target Strength Strength and its Applications for Fish Stock Assessment in Coastal Waters. *In* Proceeding, Tropical Fisheries and Aqua-culture Conference 5-7 Sept. 1999 in Kuala Terengganu, Malaysia.
  9. Samo, K., Ambak, M.A. and **Musse, G.H.** Assessment of Pelagic Fish Species near Teregganu Waters Using Split Beam Echo Sounder. *In* p. 229-239, the 9th JSPS Joint Seminar on Marine Science Bali, Indonesia 7-9 December 1998.
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## 7. WORKSHOP/SEMINAR/SYMPOSIUM/CONFERENCES ATTENDED:

1. Research & Development Exposition, IPTA 9<sup>th</sup> – 11<sup>th</sup> October 2003, Putra World Trade Centre, Kuala Lumpur, Malaysia.
2. International Conference on Advancement in Science and Technology (iCAST), 5-7<sup>th</sup> August 2003 to be held at Hotel Nikko, Kuala Lumpur.
3. Second International Symposium on GIS/Spatial Analysis in Fishery and Aquatic Science, 3<sup>rd</sup>-6<sup>th</sup> September 2002, University of Sussex, Brighton, United Kingdom.
4. Asia-Pacific Conference on Marine Science and Technology (APCMST), 12-16<sup>th</sup> May 2002 Istana Hotel, Kuala Lumpur, Malaysia.
5. Exhibition & Award for Research and Innovation “Creating New Frontiers of Innovation” 13-14<sup>th</sup> August 2002, University of Putra Malaysia.
6. Third Malaysian remote sensing society conference & exhibition on spatial information technologies in the new millennium, 8-9<sup>th</sup> April, 2002. Legend Hotel, Kuala Lumpur, Malaysia.
7. 10<sup>th</sup> ESRI South East Asia Users’ Conference 5-8<sup>th</sup> September, 2001, Penang, Malaysia.

8. Satellite Fish Forecasting Seminar on 19<sup>th</sup> June 2001 MASDEC Conference Room. UPM Serdang, Selangor Malaysia (*Organizing Committee*).
  9. East Asia Hydrographic Symposium & Exhibition 12-14<sup>th</sup> June, 2001, Legend Hotel, Kuala Lumpur, Malaysia.
  10. MASDEC-JICA WORKSHOP on Strategic Planning for Straits of Malacca 2001-2006 'Project on Aquatic Resource and Environmental Studies of the Straits of Malacca', 30-31<sup>st</sup> October, 2000, University of Putra Malaysia.
  11. International Conference on the Red Sea Environmental Issues 10-12<sup>th</sup> November, 1999, King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia.
  12. Malaysian Science and Technology Congress. Research and Development Priorities in The new Millennium. 25-27<sup>th</sup> Oct, 1999", Mingcourt, Kuala Lumpur.
  13. Tropical Aquaculture and Fisheries" Conference, 99, 7-9<sup>th</sup> September, Park Royal Hotel, Terengganu. Malaysia.
  14. National Conference on "Malaysian Science and Technology, Congress, 98, Update R & D Findings and Commercialization", 7-9<sup>th</sup> Nov, 1999, Primula Park Royal Beach Resort, Kuala Terengganu.
  15. Fifth Asian Fisheries Conference '98, 11<sup>th</sup>-14<sup>th</sup> Nov, 1998, Chengmai, Thailand.
  16. International Science Conference Kuala Lumpur '98 Malaysia, 7-9<sup>th</sup> May 1998, Universiti Putra Malaysia Serdang, Selangor.
  17. International Marine Science Conference - "Assessment of Monitoring of Marine Systems" 25-27<sup>th</sup> August, Primula Park Royal Beach Resort, Kuala Terengganu University Putra Malaysia Terengganu.
  18. South East Asian Fisheries Development Center (SEAFDEC) Workshop on Acoustic Survey Design and Data Analysis, 24<sup>th</sup>-27<sup>th</sup> August Chendering, Kuala Terengganu, Malaysia.
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## **8. PROFESSIONAL SOCIETIES**

1. Founding Member and the President of Somali Fisheries Society
2. Member of Somali Professionals Association
3. Member of Somali Seaman's Association



4. Member of the International Advisory Council of the Fourth World Fisheries Congress Vancouver, BC, Canada 2<sup>nd</sup> -6<sup>th</sup> May, 2004
  5. Member of Malaysian Fisheries Society
  6. Malaysian Society of Marine Sciences
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## **9. OTHER ACTIVITIES**

1. Executive Member and Secretary General (2002/2003) International Students' Association, University of Putra Malaysia
  2. Executive Member and Vice-president (1996/1998) of University of Putra Malaysia Terengganu Postgraduate Students' Association
  3. Executive Member and President (1999/2000) of University of Putra Malaysia Terengganu Postgraduate Students' Association
  4. Executive Member and Academic Secretary (2001/2002) of International Students' Association, University of Putra Malaysia
  5. Chairman of University of Putra Malaysia International Students' Association (UPMISA) Organizing Committee for UPM 70<sup>th</sup> Anniversary (Cultural/Food Exhibition - 2002)
  6. Chairman (2000-2004) of Somali Students' Association University of Putra Malaysia
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## 10. PROFESSIONAL REFEREES

### 1. Professor Mohd. Ibrahim Hj Mohamed, Ph.D.

Director  
Malacca Straits Research and Development Centre (MASDEC)  
Faculty of Science and Environmental Studies  
Universiti Putra Malaysia  
43400 Serdang, Selangor, Malaysia  
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### 2. Professor Mohd. Azmi Ambak, Ph.D.

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Faculty of Science and Technology  
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Formerly known as Universiti Putra Malaysia Terengganu  
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### 3. Hiroyuki Yanagawa, Ph.D.

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