

I VERIFY HERE MY CURRICULUM VITAE

August 25, 2011

1 General information

Name	Mogese Wassai
Sex	Male
Nationality	Ethiopian
Language	Amharic and English (Excellent in writing, speaking, listening and reading)
Religion	Orthodox christian
Date of Birth	19 FEB 83
e-mail	timo_99@yahoo.com
Telephone	(+251)918783735
Institutional address	Virtual and Real Physics Laboratory second floor , Room 2

2 General Educational Background

Year	Name of the academic Institution	Type of award	CGPA
1998 - 2000	Fasiledes General Secondary High School	E.S.L.C.E	3.64
2001 - 2002	Gondar Teacher's Training College	Diploma in PHYSICS	2.96
2004 - 2008	Addis Ababa University	B.Sc Degree in PHYSICS	3.15
2007 - 2008	Africa Virtual Unibversity	A+ core of Hardware maintenance	Certificate
2008 - 2009	Bahir Dar University	M.Sc in SPACE PHYSICS	3.54

3 General Work Experience

- 3.1 Teacher in High School in different regions of the Federal Republic of Ethiopia.**
- 3.2 Technical assistant at the department of Physics Laboratory, Bahir Dar University, Ethiopia.**
- 3.3 Washera GeoSpace and Radar Science Laboratory System Administrator, Bahir Dar University, Ethiopia.**
- 3.4 System Administrator of Virtual Physics Laboratory, Bahir Dar University, Ethiopia.**
- 3.5 Lecturer and Technical assistant at graduate school program in Computational Physics Bahir Dar University, Ethiopia.**
- 3.6 E - Learning Expert at Bahir Dar University, Ethiopia.**

4 Abstract

My research presents the characteristics of the ionosphere over Bahir Dar ($11.8^{\circ}N, 37.1^{\circ}E$). This is done by using ground-based GPS satellite receiver observations and the *NeQuick* model, which is an empirical model, driven by the flux of $F10.7cm$ radiation for the corresponding dates. We have found out that this simple empirical model is capable of reproducing the observed *TEC* measurements during geomagnetic quiet conditions. It is interesting to mention that the *NeQuick* model seems to get worse in reproducing the observed *TEC* when there is appreciable solar activities. The performance of the *NeQuick* model can be improved further by means of the data ingestion into it. We have observed that the *TEC* values varies substantially from season to season and the maximum value is observed during equinoctial months.

5 Research interest

- 5.1 Monitoring ionospheric TEC and Scintillation Using GPS and VHF receiver ground observed data over Ethiopia.**
- 5.2 Monitoring Space Weather Effects on the magnetosphere-ionosphere system over Ethiopia during Solar cycle 27.**
- 5.3 Validation of ionospheric parameters from local and global ionospheric models, ground observations and Satellite measurements.**
- 5.4 Provide near real time TEC maps for application in communication and Civilian aviation.**

6 Computer Skill

Computer language	Application software	Potential
Computer operating system	Window, Ubuntu linux and Mac OS	Excellent
Computer programming (Computing)	MATLAB	Excellent

7 Maintenance skill

Type	Specification	Efficiency
Computer	PC and Laptop Hardware	Excellent
Educational electronics apparatus	Power supply, oscilloscope, digital multi-meter and etc	Excellent

8 Reference

8.1 Dr. Baylie Damtie

(Supervisor)

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- Bahir Dar, Bahir Dar University, Ethiopia, P.O.Box: 79
- e-mail: bayliedamtie@yahoo.com
- Phone: (+251-918340164)

Educational background and working experience

- PhD in Physics from University of Oulu, Finland, May 12, 2004.
- MSc in Physics from University of Tromsø, Norway, July 16, 1999.
- Adj. Professor of Physics, Addis Ababa University, Ethiopia: Sept. 2004-present.
- Ass. Professor of Physics, Bahir Dar University, Ethiopia: Sept. 2004-present.
- Research Scientist, University of Oulu, Finland: Apr. 2004-present.
- Researcher, University of Oulu, Finland: Jan. 2000-Apr. 2004.
- Researcher, EISCAT (European Incoherent SCATter) Radar data Laboratory, Finland: Sept. 1999-Dec. 1999.
- Research assistant, University of Tromsø, Norway, July 16, 1999-Aug. 1999.

8.2 Dr. Endawoke Yizengaw

(Co-supervisor)

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Educational background and working experience

- Senior Research Scientist, Boston Collage, ISR, Boston, Massachusetts (July 2009-present)
- Assistant Research Professor, (UCLA), IGPP, Los Angeles, California (July 2009-present)
- **UCLA, IGPP, Los Angeles, California** (May 2004-July 2006)
- Postdoctoral Researcher: At **UCLA** and **JPL/NASA** coordinated research project.
- Postdoctoral Advisor: Prof. Mark Moldwin
- **La Trobe University, Melbourne, Australia** (September 2000-May 2004).
- Postdoctoral research assistant: At the cooperative Research Center (CRC) for Satellite System research group, support form the commonwealth of Australia.
- PhD thesis Advisors: Prof Peter Dyson and Dr. Elizabeth Essex
- **Course taught (Laboratory demonstration and tutorial):** General Physics I and II
- **Tromso University, Tromso, Norway (August 1996-September 2000).**
- Graduate research Assistant
- MSc thesis Advisors: Prof Chris Hall and Prof Asgeir Brekke

8.3 Mr. Zinaye Tefera

Address:

- **Bahir Dar, Bahir Dar University, Ethiopia, P.O.Box: 79**
- **e-mail: zinaye401@yahoo.com**
- **Phone: (+251-918760874)**

Educational background and working experience

- MSc in Physics from Norwegian University of Science Technology (NTNU), sept 2003.
- B.Ed in Physics from Bahir Dar University, Ethiopia, Aug. 2000-Sept. 2003.
- Diploma in Physics from Bahir Dar Teachers Collage, Ethiopia, Dec. 1991.
- Senior lecturer at department of Physics in Bahir Dar University, Ethiopia, May 2005-present
- Department head of Physics at Bahir Dar University, Ethiopia, May 2005-present.
- Dean of students, Bahir Dar University: Dec. 2003-May 2005.