

Curriculum Vitae (January 2017)

Personal Information

Name **Diress Tsegaye Alemu**

Date of birth 07/11/1969

Civil status Married

Citizenship Ethiopian

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Fields of specialization Management of Natural Resources/Ecology

Employment

- 2010-present Researcher, Department of Biosciences, University of Oslo and Department of Ecology and Natural Resources Management, (INA) Norwegian University of Life Sciences, Norway.
- Involved in the research projects (from 1st July 2010 to present) focusing on potential effects on reindeer from human and development activities, and sheep and reindeer interaction. Specifically involved in data analysis (using latest software's and methodologies in the wildlife biology and management), and publication of the results in peer reviewed scientific journals.
- 2005-2010 PhD fellow at the Department of Ecology and Natural Resource Management (INA), Norwegian University of Life Sciences (UMB), Norway.
- 2002-2005
- Lecturer, Department of Animal, Rangeland and Wildlife Sciences, Mekelle University, Ethiopia.
 - Project Coordinator (2004-2005), Afar Integrated Pastoral Development Programme (a collaborative project between Mekelle University and the **Development Fund of Norway**), Ethiopia

- 1998-2003 Project Coordinator, Dryland Husbandry Project for Afar pastoralists (a research project in collaboration with SAREC/SIDA, OSSREA and Mekelle University), Ethiopia
- 1994-1995 Livestock Marketing Expert, Ministry of Agriculture and Afar Bureau of Agriculture, Ethiopia
- 1989-1993 Project Planning and Analysis Officer, Development Project Studies Authority, Ethiopia

Teaching and supervision

- 2011-2013 Teaching a chapter of a course “Tropical Ecology ”for M.sc. students at the Department of Ecology and Natural Resource Management (INA), Norwegian University of Life Sciences (UMB), Norway
- 2007-2008 Co-supervised two M.Sc. students at the Norwegian University of Life Sciences (One on Tropical Ecology and Natural Resources management and the other on Agro ecology) who have successfully defended in 2008:
- 2002-2005 Taught B.Sc. courses: Rangeland Ecology and Management, Research Methodology, Animal Nutrition at the Department of Animal, Range and Wildlife Sciences, Faculty of Dryland Agriculture and Natural Resources Management, Mekelle University
- 1998-2005 Supervised B.Sc. students for their practical attachment programme at Mekelle University

Education

- 2010 PhD in Management of Natural resources, Department of Ecology and Natural Resources Management, Norwegian University of Life Sciences, Norway
- 1999 M. Sc .in Range Management, University of Nairobi, Kenya.
- 1989 B. Sc. in Animal Science, Alemaya University of Agriculture, Ethiopia.

Other training participated

- 2016 (18-30 September) Training course on Animal Movement Analysis and Remote Sensing in Conservation and Ecology, Max Planck Institute for Ornithology, Germany.
- 2008 (May for 2 weeks) Training on decentralized resource management, Copenhagen University of Agriculture, Denmark
- 2006 (for 1 week) Training seminar in scientific paper writing, Norwegian University of Life Sciences, Norway
- 2005 (2 weeks) Training in teaching package and curriculum development, Mekelle University in collaboration with Larenstein International Agricultural College (LIAC) of the Netherlands,

2001	On job training on action oriented research for 3 weeks at Centre of Arid Zone Studies, Bangor, UK.
2000	Training in social science research methodology, Organization for Social Science Research in Eastern and Southern Africa (OSSREA), Addis ababa, Ethiopia (22-27 October 2000).
1990	Training on Agricultural Project Planning and Analysis at Ethiopian Management Institute organized by the Food and Agriculture Organization (FAO) and Development Project Studies Authority (DEPSA), (24 July - 24 to 03 November 1990), Certificate

Skills in research, statistics and other programs

Involved in various research projects on the issues related to wildlife biology and management, rangeland ecology and pastoralism in both temperate alpine and dryland areas.

Methodologically, very good skills in multivariate statistical analysis for ecological data, particularly related to spatial data analysis in relation to the recent telemetry data on animal movement and resource selection. Very good knowledge with the latest commonly used statistical software, specifically in “R” for the last few years. Good knowledge of ArcGIS software and other commonly used analytical tools.

Serves as a regular reviewer for various scientific journals including European Journal of Wildlife Research, Agriculture Ecosystem and Environment, Journal of Arid Environments, Landscape Ecology, Biodiversity and Conservation, Basic and Applied Ecology, and Journal of Environmental Planning and

Publications

Peer-reviewed scientific journal publications (#23)

1. Colman, J.E., Bergmo, T, **Tsegaye, D.**, Flydal, K., Reimer, E., Eftestøl, S., Lilleeng, M:S, Moe, S.R. 2016. Wildlife response to infrastructure: the problem with confounding factors. Polar Biology. “In press”. DOI: 10.1007/s00300-016-1960-8
2. Eftestøl, S, **Tsegaye, D.**, Flydal, K., Colman, J.E. 2016. From high voltage (300 kV) to higher voltage (420 kV) power lines: reindeer avoid construction activities. Polar Biology, 39:689-699 Doi:10.1007/s00300-015-1825-6
3. Meaza, H, **Tsegaye, D.**, Nyssen, J. 2016. Allocation of degraded hillsides to landless farmers and improved livelihoods in Tigray, Ethiopia. NORSK GEOGRAFISK TIDSSKRIFT-NORWEGIAN JOURNAL OF GEOGRAPHY 70: 1-12 . DOI: 10.1080/00291951.2015.1091033
4. Colman, J.E., **Tsegaye, D.**, Flydal, K., Rivru, I.M., Reimer, E., Eftestøl, S. 2015. High-voltage power lines near wild reindeer calving areas. European Journal of Wildlife Research 61:881-893. Doi:10.1007/s10344-015-0965-x
5. Reimer, E., Flydal, K., Korslund, L., Eftestøl, S., Colman, J.E., **Tsegaye, D.** 2015. Power lines, reindeer and UV. Biological Conservation 184: 471. Doi: 10.1016/j.biocon.2014.12.025
6. Rannestad, O.T., **Tsegaye, D.**, Munishi, P.K.T, Moe, S.R. 2015. Bird Abundance, Diversity and Habitat Preferences in the Riparian Zone of a Disturbed Wetland Ecosystem – the Kilombero Valley, Tanzania. Wetlands (in Press). <http://link.springer.com/article/10.1007/s13157-015-0640-8>
7. Eftestøl, S., **Tsegaye, D.**, Herfindal, I., Flydal, K., Colman, J.E. 2014. Measuring effects of linear obstacles on wildlife movements: accounting for the relationship between step length and

- crossing probability. *European Journal of Wildlife Research* 60:271-278.
<http://link.springer.com/article/10.1007%2Fs10344-013-0779-7#page-1>
8. Reimers, E., **Tsegaye, D.**, Colman, J.E., Eftestøl, S. 2014. Activity patterns in reindeer with domestic vs. wild ancestry. *Applied Animal Behaviour Science* 150, 74-84.
[http://www.appliedanimalbehaviour.com/article/S0168-1591\(13\)00258-X/abstract](http://www.appliedanimalbehaviour.com/article/S0168-1591(13)00258-X/abstract)
 9. Reimers, E., Nieminen, M., **Tsegaye, D.** 2013. Antler casting in relation to parturition in semi-domesticated female reindeer. *Rangifer* 33(1): 17-24.
<http://septentrio.uit.no/index.php/rangifer/article/view/2722>
 10. **Tsegaye, D.**, Vedeld, P. & Moe, S.R. 2013. Pastoralists and livelihoods; a case study from Northern Afar, Ethiopia. *Journal of Arid Environments* 91:138-146.
<http://dx.doi.org/10.1016/j.jaridenv.2013.01.002>
 11. Colman J. E., Eftestøl, S., **Tsegaye, D.**, Flydal, K. & Myrsterud, A. 2013. Summer distribution of semi-domesticated reindeer relative to a new wind-power plant. *European Journal of Wildlife Research* 59:359–370. Doi: 10.1007/s10344-012-0682-7
 12. Colman J. E., Eftestøl, S., **Tsegaye, D.**, Flydal, K. & Myrsterud, A. 2012. Is a wind-power plant acting as a barrier for reindeer movements? *Wildlife Biology* 18:439-445. . DOI: 10.2981/11-116.
 13. Colman, J.E., Lilleeng, M.S., **Tsegaye, D.**, Vigeland, M.D., Reimers, E. 2012. Responses of wild reindeer (*Rangifer tarandus tarandus*) when provoked by a snow-kiter or skier: A model approach. *Applied Animal Behaviour Science* 142:82-89. DOI: 10.1016/j.applanim.2012.08.009
 14. Colman, J.E., **Tsegaye, D.**, Pedersen, C., Eidesen, R., Arntsen, H., Holand, Ø., Mann, A., Reimers, E., Moe, SR. 2012. Behavioral interference between sympatric reindeer and domesticated sheep in Norway. *Rangeland Ecology & Management* 65:299-308. DOI: 10.2111/REM-D-11-00094.1
 15. Abebe, S., Lye, K., **Tsegaye, D.** 2012. Functional distances of woody species, proxy of ecological elasticity and provision for forest management. *Journal of Horticulture and Forestry* 4:136-147.
www.academicjournals.org/jhf/contents/2012cont/May.htm
 16. Aynekulu, E., Denich, M., **Tsegaye, D.**, Aerts, R., Neuwirth, B. & Boehmer, H.J. 2011. Dieback affects forest structure in a dry Afromontane forest in northern Ethiopia. *Journal of Arid Environments* 75:499-503. DOI: 10.1016/j.jaridenv.2010.12.013
 17. **Tsegaye, D.**, Moe, S.R. & Haile, M. 2011. Seed predation and moisture limit germination of recalcitrant *Dobera glabra* (Salvadoraceae) seeds in the Afar rangelands, Ethiopia. *Journal of Arid Environments* 75:903-908. DOI: 10.1016/j.jaridenv.2011.04.031
 18. **Tsegaye, D.**, Moe, S.R., Vedeld, P. & Aynekulu, E. 2010. Land-use/cover dynamics in Northern Afar rangelands, Ethiopia. *Agriculture Ecosystems & Environment* 139:174-180. DOI: 10.1016/j.agee.2010.07.017
 19. **Tsegaye, D.**, Haile, M. & Moe, S.R. 2010. The effect of land use on the recruitment and population structure of the important food and fodder plant, *Dobera glabra* (Forssk.) Poir., in northern Afar. *Journal of Arid Environments* 74:1074-1082. DOI: 10.1016/j.jaridenv.2010.03.003.
 20. **Tsegaye, D.**, Moe, S.R. & Haile, M. 2009. Livestock browsing, not water limitations, contributes to recruitment failure of *Dobera glabra* in Semi-arid Ethiopia. *Rangeland Ecology & Management* 62:540-549. DOI: 10.2111/08-219.1
 21. Aynekulu, E. Denich, M. & **Tsegaye, D.** 2009. Regeneration response of *Juniperus procera* and *Olea europaea* subsp *cuspidata* to Exclosure in a Dry Afromontane Forest in Northern Ethiopia. *Mountain Research and Development* 29:143–152. DOI: 10.1659/mrd.1076
 22. **Diress T. Alemu**, Nyariki, D.M. & Farah, K.O. 2000. Changing Land-use Systems and Socio-economic Roles of Vegetation in Semi-arid Africa: The case of the Afar and Tigray of Ethiopia. *Journal of Social Science* 4:199-206. <http://www.krepublishers.com/02-Journals/JSS/JSS-04-0-000-000-2000-Web/JSS-04-02-03-117-2000-Abst-PDF/JSS-04-02-03-199-206-2000.pdf>
 23. **Diress T. Alemu**, Farah, K.O. & Nyariki, D.M. 1999. Influence of Settlements on Land Use and Vegetation in the Rangelands of Northeastern Ethiopia: Application of Aerial Photographic

Technique. Journal of Human ecology 10: 349-356. <http://www.krepublishers.com/02-Journals/JHE/JHE-10-0-000-000-1999-Web/JHE-10-5-6-329-099-Abst-PDF/JHE-10-05-06-349-099.pdf>

Book chapters, conference proceedings and research reports (#6)

1. Mitiku, H., **Tsegaye, D.** & Tegegene, T. (eds.). 2004. Research and development experiences of the Dryland Husbandry Project in Ethiopia. Dryland Husbandry Project, Mekelle University, Mekelle, Ethiopia. ISBN: 9781904855408. Pp. 174.
2. Ahmed, A.G.M., Alemayehu, A., Babiker, M. & **Tsegaye, D.** 2002. Post-drought recovery strategies among the pastoral households in the horn of Africa: A review. - Development Research Report Series no.3, Organization for Social Science Research in Eastern and Southern Africa (OSSREA) and Institute for Development Anthropology (IDA), Broadening Access and Strengthening Input Market Systems-Collaborative Research Support Program (BASIS-CRSP), USA. Addis Ababa. ISBN 1608-8875. Pp. 80.
3. **Tsegaye, D.**, B. Mulubrhan, G. Kindeya, H. Mitiku, G. Girmay, T. Mohammed, and A. Ermias. 2007. The role of 'Garsa' (*Dobera glabra*) for household food security at times of food shortage in Aba'ala Wereda, North Afar: Ecological adaptation and socio-economic value, a study from Ethiopia. Norway: Dryland Coordination Group, Report No. 49. Pp. 54. <http://www.drylands-group.org/noop/page.php?p=Articles/1246.html&d=1>
4. Dereje Assefa, Maru Belay, **Diress Tsegaye** and Mitiku Haile. Transplanting Sorghum as a Means of Ensuring Food Security: Study conducted in low rainfall sorghum growing areas of Northern Ethiopia. Dryland Coordination Group, Report No. 48. Pp. 49. <http://www.drylands-group.org/Articles/1198.html>
5. Fasil, K., **Tsegaye, D.** & Synvanng, G. 2001. Traditional coping strategies of the Afar and Borana pastoralists in response to drought. - Dryland Coordination Group Report No. 17, Centre for International Environment and Development Studies (NORAGRIC). Pp. 74. <http://www.drylands-group.org/noop/page.php?p=Articles/303.html&d=1>
6. **Tsegaye, D.**, Haile, M., Yifter, F. Tamene, L., 2003. Assessment of rangeland condition and mobility pattern in north eastern Ethiopia: field survey and application of GIS. In: N. Allsopp, A.R. Palmer, S.J. Milton, K.P. Kirkman, G.I.H. Kerley, C.R. Hurt, C.J. Brown (Eds.). Proceedings of the VIIth International Rangelands Congress 26th July - 1st August 2003, Durban, South Africa. ISBN: 0-958-45348-9.

PhD and M.Sc. Theses (#2)

1. **Diress Tsegaye.** 2010. Afar pastoralists in a changing rangeland environment. PhD thesis, Department of Ecology and Natural Resources Management, Norwegian University of Life Sciences, Norway.
2. **Diress T. Alemu,** Kassim O. Farah, and Dickson M. Mbuvi. 1999. Impact of land use on vegetation resources with emphasis on woody vegetation in the semi-arid area of Aba'ala district, North Afar, Ethiopia. M.Sc. thesis, Department of Range management, University of Nairobi, Kenya.

Project coordination

- 2004-2005 Coordinator for the Afar Integrated Pastoral Development Programme (AIPDP), collaboration program between Development Fund of Norway (DF) and Mekelle University. Implemented in Afar pastoral area , Ethiopia
Responsible for coordinating Dryland Coordination Group (DCG) funded research projects at Mekelle University, Ethiopia.
Collaborative researcher on the “The role of garsa (dobera glabra) for household food security at times of food shortage in Aba'ala Wereda, North Afar: ecological adaptation and socio-economic value: a study from Ethiopia” between Mekelle University and Dryland Coordination Group (DCG). Funded by DCG Norway
- 2003-2004 Collaborative researcher on “Transplanting Sorghum as a Means of Ensuring Food Security in northern Ethiopia” between Mekelle University and Dryland Coordination Group (DCG). Funded by DCG Norway
- 1998-2002 Involved in the research activities of Dryland Husbandry Project (DHP) in North Afar pastoral area (particularly on rangeland condition assessment, water harvesting, plant identification, etc.), Ethiopia
Project Manager for DHP, collaborative research project between Mekelle University and OSSREA. Funded by Sida-SAREC

Consultancies

- 2008 MU-VILIR and IFS (One week in September 2008): Training on research proposal writing and statistical analysis for Mekelle and Jimma University Junior researchers, Ethiopia
- 2002 OSSREA: post-drought recovery strategies among the pastoral households in the Horn of Africa: a review
- 2001 DCG (September-October 2001): Drought coping strategies of the Afar and Borana Pastoralists in Ethiopia

Seminars, workshops and conferences attended

- 2015 (16-21 Aug.) 14th Arctic Ungulate Conference, Røros, Norway
- 2012 (24-28 Sept.) Participated in the “14th North American Caribou Workshop”
- 2010 (18-25 July) Participated in the “Annual Conference of the Grassland Society of Southern Africa)
- 2009 (8-10 Oct.) Participated and oral presentation at a conference on “Forest Based Sector- Towards progressive Future” organized by Faculty of Forestry and wood Technology, Mendel University of Agriculture and Forestry Brno, Czezech Republic
- 2003 (26 Jul. -02 Aug.) Presented a poster paper on the International Rangeland Congress held in Durban South Africa
- 2002 (18-23 Feb.) Participated a Regional Workshop on Indigenous Range Resource Assessment and Monitoring Techniques. Organized by Regional Land Management Unit (RELMA), Arusha, Tanzania
- 2001 (28-30 Dec.) Participated a workshop on the experience of water harvesting in the drylands of Ethiopia: principles and practices. Organized by Dryland Coordination Group (NORAGRIC) and Mekelle University, Mekelle, Ethiopia.
- 2000 (18-19 Nov.) Participated (as organizer) a national workshop on gender, resource and conflict management in the context of pastoral indigenous institution organized by Dryland Husbandry Project (DHP)-Ethiopia and Mekelle University, Aba'ala, Afar Region.
- 2000 (16-19 Oct.) Participated the 6th Dryland Husbandry Project (DHP) workshop on Impacts and Sustainability of the DHP programme, organized by the Regional Project Office (OSSREA), Kassala, Sudan

2000 (April)	Regional workshop on wet land management in North Eastern Ethiopia and South Western Djibouti organized by UNEP and Environmental Protection Authority for 5 days
2000 (March)	Workshop on pastoral/agro-pastoral extension system for 3 days organised by the Nomadic Pastoral Extension Team of Ministry of Agriculture
2000 (6-11 Feb.)	Participated an Anglophone Regional Workshop on Farmer Innovation in Land Husbandry, organized by Mekelle University College, Mekelle, Ethiopia.
1999 (25-29 Nov.)	Participated a conference on resource competition and sustainable development in Eastern Africa organized by Organization for Social Science Research in Eastern and Southern Africa (OSSREA), Addis Ababa.
1999 (November)	Seminar on natural resource management organized by Hope for the Horn in Dire Dawa for 5 days (November 1999)
1999 (25-29 April)	Participated the 5 th Dryland Husbandry Project (DHP) workshop on participatory research and development organized by the Regional Project Office, of OSSREA, Addis Ababa.
1998 (16-18 Dec.)	Participated (as organizer) a national workshop on challenges and opportunities for research and development in pastoral and agropastoral areas organized by Organization for Social Science Research in Eastern and Southern Africa (OSSREA), Mekelle University College and Dryland Husbandry Project-Ethiopia.
1989 (20 Nov.- 05 Dec.)	Attended workshop on project planning and analysis, organized by Development Project Authority (DEPSA), Organization record.

Languages

Amharic	Fluent
English	Fluent
Norwegian	Basic knowledge

Referees

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