

Adrian de Groot

MSc., R.P.Bio.
Vegetation Ecologist

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Academic Training

Master of Science (Ecology)

University of Otago
Dunedin, New Zealand
1999

Bachelor of Science (Ecology)

Massey University
Palmerston North, New Zealand
1997

Diploma in Natural Resource Management; Fish, Wildlife, and Recreation Option

British Columbia Inst. Technology
Burnaby, B.C.
1991

Professional History

Drosera Ecological Consulting

Owner/Ecologist
Smithers, B.C.
2000 to present

Johnson-Schwarz Forest Mgmt.

Forestry Technician
Smithers, B.C.
1994/95

D. Bustard and Associates and SKR Environmental Services

Fisheries Technician
Smithers, B.C.
1994/95

Oikos Ecological Services Ltd

Ecological Technician
Smithers, B.C.
1994

Professional Work Summary

Adrian de Groot is a Vegetation Ecologist who has worked on a wide variety of vegetation inventory, management and research projects over many years. His work covers areas from southern to northern British Columbia, Yukon and Arctic regions. He has experience in many different ecosystem types including floodplains, wetlands, forests, grasslands and alpine, from coastal to interior areas. Adrian's work has included rare and sensitive ecosystem mapping and inventory, vegetation classification – including Arctic ecosystems, floodplain dynamics research, Terrestrial Ecosystem Mapping, SIBEC sampling, terrestrial lichen sampling, grassland restoration, and writing park and vegetation management plans.

Adrian has completed hundreds of ecosystem field plots; completing the site, vegetation, soils and terrain information. This range of projects requires Adrian to have a good understanding of ecological patterns and processes, plant species and the Biogeoclimatic Ecosystem Classification system.

Adrian is also competent at compiling information from many sources, and writing comprehensive documents using that information. This information is used in vegetation classification, planning projects, literature reviews, status reports or research reports. He has written, in whole or in part, Park Management Plans, Vegetation Management Plans, Recreation Management Plans or Background Reports for over 70 protected areas in BC.

Adrian has extensive experience working with the BC Conservation Data Centre and their Biotics database, including writing ecosystem Characterization Abstracts and Element Occurrence Specifications, mapping and ranking element occurrences, and assigning status ranks to ecosystems.

Adrian has training and experience in airphoto interpretation and ArcMap GIS software. He can effectively work with large datasets.

Adrian is well organized and able to manage field crews and fieldwork. He is able to analyze and interpret the data collected, and write technical reports that clearly communicate the results of the project. Adrian strives to meet the needs of clients through regular communication.

Publications

- MacKenzie, W.H., C. Kennedy and **A. de Groot**. 2014. Arctic Vegetation Associations of the Yukon Territory (draft). Yukon Government, Whitehorse, YT.
- Lawrence Lodge, R.H.E., B.J. Anderson, **A. de Groot**, A. Bill, A.A.M. McQueen, J.B. Steel, M. Mistral, N.W.H. Mason and J.B. Wilson. 2007. Spatial autocorrelation in plant communities: vegetation texture versus species composition. *Ecography* 30:801–811.
- **de Groot, A.** and Haeussler S. 2006. Knowledge of the past helps plan for the Skeena River’s future. *LINK* 7(3):10-11.
- Kranabetter, J.M., A. Banner and **A. de Groot**. 2005. An assessment of phosphorus limitations to soil nitrogen availability across forest ecosystems of north coastal British Columbia. *Can. J. of For. Res.* 35:530-540.
- Banner, A., P. LePage, J. Moran and **A. de Groot** (editors). 2005. The HyP³ Project: Pattern, Process and Productivity in Hypermaritime Forests of Coastal British Columbia – a synthesis of 7-year Results. BC Ministry of Forests, Victoria, BC. *Special Report 10*.
- Emili, L.A., S.L. Lortie, **A. de Groot**, A. Banner and P. LePage. 2004. Soil Biogeochemical Dynamics in Hypermaritime Ecosystems of North Coastal British Columbia. BC Ministry of Forests, Smithers, BC. *Extension Note 54*.
- Banner, A., **A. de Groot**, P. LePage and J. Shaw. 2002. The Blanket Bog – Upland forest complex of north coastal British Columbia: succession, disturbance and implications for management. BC Ministry of Forests, Smithers, BC. *Extension Note 52*.
- Fitzgerald, D.F., J.S. Price, **A. de Groot**, A. Banner and P. LePage. 2002. Surface water discharge and groundwater storage patterns in a hypermaritime bog near Prince Rupert, B.C. BC Ministry of Forests, Smithers, BC. *Extension Note 51*.
- Asada, T., A. Banner and **A. de Groot**. 2002. Moss growth, moss production, and paludification in the hypermaritime north coast of British Columbia. BC Ministry of Forests, Smithers, BC. *Extension Note 50*.
- Maloney, D., S. Bennett, **A. de Groot** and A. Banner. 2002. Canopy interception in a hypermaritime forest on the north coast of British Columbia. BC Ministry of Forests, Smithers, BC. *Extension Note 49*.
- LePage, P., A. Banner and **A. de Groot**. 2002. The Oona River Operational Trial. BC Ministry of Forests, Smithers, BC. *Extension Note 48*.

Reports

- **de Groot, A.** and S. Casley. 2016. Ecosystem integrity analysis tool description and user’s manual. *for* B.C. Conservation Data Centre, Victoria, BC.
- Philip, E., E. Hillier and **A. de Groot**. 2015. Element Occurrence Ecological Assessment Pilot Project. Cloverpoint Cartographics *for* Conservation Data Centre, Victoria, BC
- Ciarniello, L. and **A. de Groot**. 2014. Decision-making support for management of the proposed Tl’o ba Wildlife Habitat Area. *for* Ministry of Forests, Lands and Natural Resource Operations, Fort St. James, BC.
- **de Groot, A.** and N. Flynn. 2014. Predictive Ecosystem Map of the Yukon North Slope Planning Part 1 -Technical Specifications. *for* Wildlife Management Advisory Council – North Slope, Whitehorse, Yukon.
- **de Groot, A.** 2014. Babine Watershed Indicator Data Summary Report. *for* Babine Watershed Monitoring Trust, Smithers, BC.
- **de Groot, A.**, A. Banner and J. Pojar. 2013. Ecosystem Classification Rationale and Gap Analysis Component for the Northwest Cumulative Effects Demonstration Pilot Project. Bulkley Valley Research Centre, Smithers, BC *for* Ministry of Forests, Lands and Natural Resource Operations, Smithers, BC.
- **de Groot, A.** 2012. Ecosystem Status Report for Douglas-fir/ dull Oregon-grape ecosystem. *for* Conservation Data Centre, Victoria, BC
- **de Groot, A.**, W.H. MacKenzie, R. Klassen, and I. Ronalds. 2011. Classification and Description of Vegetation Associations in Arctic Regions; Phase 1: Data Acquisition and Data Entry, Phase 2: Data Analysis and Classification and Phase 3: Classification and Association Descriptions. Bulkley Valley Research Centre, Smithers, BC *for* Environment Yukon, Whitehorse, Yukon.
- Iverson, K., **A. de Groot** and A. Haney. 2011. Final Report for the Ecology Element Occurrence Creator Contract. *for* B.C. Conservation Data Centre, Victoria, BC.
- **de Groot, A.** 2011. Babine River Watershed Recreation Opportunity Spectrum Analysis. Bulkley Valley Research Centre, Smithers, BC *for* Babine Watershed Monitoring Trust, Smithers, BC.

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- McKenna, K., T. Braumandl, R. Rosie, R.C. Albicht, K. Stehle, **A. de Groot** and P. Dykstra. 2010. Bioclimate, Ecodistrict and Ecologically Significant Features Mapping for the Dawson Planning Region, Yukon. Silvatech Consulting, Salmon Arm, BC. *for* Environment Yukon, Whitehorse, YT.
 - Cichowski, D. and **A. de Groot**. 2010. The Response of Caribou Terrestrial Forage Lichens to Fire in Entiako Provincial Park: Annual Report – 2009-10 – Year 3. *for* Ministry of Environment, Prince George, B.C
 - **de Groot, A.** and J. Pojar. 2009. Sensitive Ecosystems of the Atlin-Taku Planning Area. Bulkley Valley Research Centre, Smithers, BC. *for* Integrated Land Management Bureau, Smithers, BC
 - Haeussler, S. and **A. de Groot**. 2009. Effects of Grassland Restoration Treatments on Ungulate Use of Northwest BC Grasslands. Bulkley Valley Research Centre, Smithers, BC.
 - **de Groot, A.** and S. Haeussler 2009. Uncha Mountain Red Hills Provincial Park Grassland Restoration Prescribed Fire: Results of First Year Vegetation Monitoring. Bulkley Valley Research Centre, Smithers, BC.
 - **de Groot, A.** 2008. Hyland Post Prescribed Fire Vegetation Monitoring. *for* Ministry of Environment, Smithers, BC.
 - **de Groot, A.** 2008. Uncha Mountain Red Hills Provincial Park: Grassland Description and Restoration. Bulkley Valley Research Centre, Smithers, BC.
 - Haeussler, S. and **A. de Groot**. 2008. Effects of Prescribed Burning on Aspen Mortality and Vigour. Bulkley Valley Research Centre, Smithers, BC.
 - **de Groot, A.** 2006. Element Occurrence Specifications for 12 coastal ecosystems. *for* Conservation Data Centre, Victoria, BC.
 - **de Groot, A.,** S. Haeussler and D. Yole. 2005. Landscape and Stand Scale Structure and Dynamics, and Conservation Ranking, of the Skeena River Floodplain Forests. Bulkley Valley Research Centre, Smithers, BC.
 - **de Groot, A.** 2005. Review of the Hydrology, Geomorphology, and Ecology of the Skeena River Floodplain Downstream of Terrace. Bulkley Valley Centre for Natural Resource Research and Management, Smithers, BC.
 - **de Groot, A.** 2004. The Babine River Watershed: An Annotated Bibliography of Monitoring, Inventory, Research and Planning Reports. Bulkley Valley Research Centre, Smithers, BC.

Protected Area Management Projects

- **de Groot, A.** 2016. Ecosystem Overview Assessments for Ne’ah Conservancy and Boya Lake Park. *for* Ministry of Environment, Prince George, BC.
- **de Groot, A.** 2015. Ecosystem Overview Assessments for Indian Lake Hitchcock Creek / Àt Ch’ini Shá, Upper Gladys River / Watsix Deiyi and Taku River / T’aku Téix conservancies. *for* Ministry of Environment, Prince George, BC.
- **de Groot, A.** 2013. Draft management plan for Monashee Provincial Park. *for* Ministry of Environment, Penticton, BC.
- **de Groot, A.** 2013. Management plan information compilation for Hanna-Tintina Conservancy. *for* Ministry of Environment, Terrace, BC.
- **de Groot, A.** 2012. Draft management plans for two North Coast LRMP conservancies. *for* Ministry of Environment, Terrace, BC.
- Cichowski, D. and **A. de Groot**. 2010. Management plans for six Morice LRMP protected areas – Atna River, Burnie-Shea, Morice Lake, Nadina Mountain, Nanika – Kidprice and Old Man Lake provincial parks. *for* Ministry of Environment, Smithers, BC.
- **de Groot, A.** 2010 - 2011. Draft management plans for 11 North Coast LRMP conservancies. *for* Ministry of Environment, Terrace, BC.
- **de Groot, A.** 2008. Tunkwa Provincial Park Vegetation Management Plan. *for* Ministry of Environment, Kamloops, BC.
- **de Groot, A.** and K. Price. 2007. Babine River Corridor Park Background Information Summary. *for* Ministry of Environment, Smithers, BC.
- **de Groot, A.** and B. Armitage. 2007. Uncha Mountain Red Hills Provincial Park: Vegetation Management in a Post-mountain Pine Beetle Landscape. *for* Ministry of Environment, Prince George, BC.
- **de Groot, A.** and D. Cichowski. 2006. Conservation and Recreation Risk Assessments for Morice LRMP protected areas. *for* Ministry of Environment, Smithers, BC.
- **de Groot, A.** and D. Cichowski. 2006. Conservation Risk Assessments for 31 Coastal Protected Areas. *for* Ministry of Environment, Terrace, BC.
- **de Groot, A.** 2003. Toboggan Creek Sensitive Area Management Plan. *for* Ministry of Sustainable Resource Management, Smithers, BC.

- **de Groot, A.** and P. Bartemucci. 2003. Vegetation Inventory Analysis for Protected Areas in the Skeena Region. *for* Ministry of Water, Land, and Air Protection, Terrace BC.
- Cichowski, D. and **A. de Groot**. 2003. Management Plan for Stikine Country Protected Areas. *for* Ministry of Water, Land, and Air Protection, Smithers, BC.
- **de Groot, A.** 2002. Management Direction Statements for nine protected areas in Northern Skeena Region. *for* Ministry of Water, Land, and Air Protection, Smithers, BC.
- Cichowski, D. and **A. de Groot**. 2001. Swan Lake Kispiox River Provincial Park Hunting Regulation and Harvest Summary – 1975-1999. *for* Ministry of Environment, Lands and Parks, Smithers, BC.
- **de Groot, A.**, D.W. Wellwood and C. Schell. 2001. Commercial Canoeing and Bear – Human Interaction Management in Swan Lake Kispiox River Provincial Park. *for* Ministry of Environment, Lands and Parks, Smithers, BC.
- **de Groot, A.** 2000. Management Direction Statements for ten protected areas in the Skeena Region. *for* Ministry of Water, Land, and Air Protection, Smithers, BC.
- Cichowski, D. and **A. de Groot**. 2000. Technical Background Information Summary for Stikine Country Protected Areas. *for* Ministry of Environment, Lands and Parks, Smithers, BC.

Posters

- Flynn, N., C. Kennedy, W.H. MacKenzie, **A. de Groot** and K. Baldwin. 2014. Ecological Land Surveys in Northern Yukon Past, Present and Future.
- **de Groot, A.** and S. Haeussler. 2006. Processes and structures of the lower Skeena River.

Conferences And Courses

2015 - Natural Resource Connections, Annual Conf. of the Assoc. of Professional Biologists, Prince George, BC

2012 - Adding It All Up: Balancing Benefits and Effects of Resource Development conference, Smithers, BC

2010 - Water, Wind and Wildlife, Annual Conference of the Assoc. of Professional Biologists, Kelowna, BC

2007 - Innovative Monitoring and its Influence on Resource Decision Making conference, Smithers, BC

2006 - BC Protected Area Research Forum - Fostering Connections between Protected Areas and Research, Victoria, BC

2004 - Species at Risk: Pathways to Recovery Conference, Victoria, BC

- Managing Ecological Integrity in BC's Parks and Protected Areas Course – BCIT, Burnaby, BC.

2001 - Disturbance and Recovery in Northwest British Columbia Forests Course – Northwest Field School

2000 - Field Identification of Forest Soil Properties and Classification Course – Northwest Field School

1999 - New Zealand Ecological Society Annual Conference

- Statistical Methods for Environmental Management Workshop – presented by Prof. B.J.F. Manly

1998 - New Zealand Limnological Society Annual Meeting

- New Zealand and Australian Ecological Societies Joint Conference

Memberships

- College of Applied Biologists of British Columbia
- Association of Professional Biologists of British Columbia
- Bulkley Valley Centre for Natural Resource Research and Management, Director 2012-2016

References

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