

EMPLOYMENT

Pacific Climate Impacts Consortium , Victoria, BC, Canada <i>Hydrologist</i>	2006-present
Environment Canada , Science Division, Meteorological Services Canada, Vancouver, BC, Canada <i>Co-op Assistant</i>	2006
Ministry of the Environment , (Secondment) Pacific Climate Impacts Consortium, Vancouver, BC, Canada <i>Co-op Assistant</i>	2006
Water and Climate Impact Research Centre , Geography Department, University of Victoria, Victoria, BC <i>Research Assistant, Dr. Terry Prowse</i>	2003-2005
Living Green Project , Community Futures Development Corporation, Mission, BC, Canada <i>Program Co-ordinator</i>	2001-2003
Geography Department , University of British Columbia, Vancouver, BC, Canada <i>Research Assistant, Dr. Dan Moore</i>	2002
<i>Research Assistant, Dr. Michael Church</i>	2001
Canadian International Development Agency , Environmental and Economic Management Project, Cebu, Philippines <i>Intern, Executing Agency: SNC-Lavalin International</i>	2000 to 2001

EDUCATION

University of Victoria , Victoria, BC, Canada M.Sc., Hydrology (Dr. Terry Prowse and Dr. John Gibson)	2008
University of British Columbia , Vancouver, BC, Canada B.Sc., Environmental Science (Honours)	2000
University of Western Australia , Perth, WA, Australia International Exchange	1998

VOLUNTEER EXPERIENCE

Canadian Water Resources Association (CWRA) – BC Branch Board of Directors, Roles:	2016-present
<ul style="list-style-type: none"> Liaison to the Canadian Society for Hydrologic Sciences (CSHS) 	

JOURNAL PUBLICATIONS

1. **Werner, A.T.**, M.A. Schnorbus, R.R. Shrestha, A.J. Cannon, F.W. Zwiers, G. Dayon and F. Anslow, 2019. *A long-term, temporally consistent, gridded daily meteorological dataset for northwestern North America*. Nature Scientific Data, 6 (180299) 1-16, doi: 10.1038/sdata.2018.299.
2. Hiebert, J., A. Cannon, **A. Schoeneberg**, S. Sobie and T. Murdock, 2018: *ClimDown: Climate Downscaling in R*. Journal of Open Source Software, 3, 22, 360, doi:10.21105/joss.00360.
3. Islam S. U. and S. J. Déry and **A.T. Werner**, 2017: *Future Climate Change Impacts on Snow and Water Resources of the Fraser River Basin, British Columbia*. J. Hydrometeor., 18, 473–496, doi: 10.1175/JHM-D-16-0012.1.
4. Kumar, S., F. Zwiers, P.A. Dirmeyer, D.M. Lawrence, R. Shrestha, and **A.T. Werner**, 2016. *Terrestrial Contribution to the Heterogeneity in Hydrological Changes under Global Warming*. Water Resour. Res., 52, 3127–3142, doi:10.1002/2016WR018607.
5. **Werner, A.T.** and A.J. Cannon, 2016. *Hydrologic extremes – an intercomparison of multiple gridded statistical downscaling methods*, Hydrol. Earth Syst. Sci., 20, 1483-1508, doi:10.5194/hess-20-1483-2016, 2016.
6. Arora, V.K., Y. Peng, W.A. Kurz, J.C. Fyfe, B. Hawkins, and **A.T. Werner**, 2016. *Potential near-future carbon uptake overcomes losses from a large insect outbreak in British Columbia, Canada*. Geophys. Res. Lett., 43, 2590-2598, doi:10.1002/2015GL067532.

7. **Werner, A.T.** and Cannon, A.J., 2015. *Hydrologic extremes – an intercomparison of multiple gridded statistical downscaling methods*, Hydrol. Earth Syst. Sci. Discuss., 12, 6179-6239, doi:10.5194/hessd-12-6179-2015.
8. **Werner, A.T.**, Prowse, T.D., Bonsal, B.R. *Characterizing the Water Balance of the Sooke Reservoir, British Columbia over the Last Century*. *Climate* 2015, 3, 241-263.
9. Shrestha, R.R., M.A. Schnorbus, **A.T. Werner** and F.W. Zwiers, 2014. *Evaluating hydro-climatic change signals from statistically and dynamically downscaled GCMs and hydrologic models*. *Journal of Hydrometeorology*, 15, 844-860. doi: <http://dx.doi.org/10.1175/JHM-D-13-030.1>.
10. Peng, Y., Arora, V. K., Kurz, W. A., Hember, R. A., Hawkins, B. J., Fyfe, J. C., and **Werner, A. T.**, 2014. *Climate and atmospheric drivers of historical terrestrial carbon uptake in the province of British Columbia, Canada*. *Biogeosciences*, 11, 635-649, doi:10.5194/bg-11-635-2014.
11. Schnorbus, M., **A. Werner**, and K. Bennett, 2014. *Impacts of climate change in three hydrologic regimes in British Columbia, Canada*. *Hydrological Processes*, 28(3): 1170-1189, DOI: 10.1002/hyp.9661.
12. **Werner, A.T.**, M.A. Schnorbus, R.R. Shrestha and H.D. Eckstrand, 2013. *Spatial and temporal change in the hydro-climatology of the Canadian portion of the Columbia River Basin under multiple emissions scenarios*. *Atmosphere-Ocean*, 51(4): 357-379.
13. Bürger, G., S. Sobie, A. Cannon, **A. Werner**, and T. Murdock, 2012. *Downscaling extremes - an intercomparison of multiple methods for future climate*. *Journal of Climate*, 25(12): 4366-4388.
14. Shrestha, R.R., M.A. Schnorbus, **A.T. Werner**, and A.J. Berland, 2012. *Modelling spatial and temporal variability of hydrologic impacts of climate change in the Fraser River basin, British Columbia, Canada*. *Hydrological Processes*, 26(12): 1840-1860.
15. Bennett, K.E., **A.T. Werner** and M.A. Schnorbus, 2012. *Uncertainties in hydrologic and climate change analyses in headwater basins of British Columbia*, *Journal of Climate*, 25(17): 5711-5730.
16. Bürger, G., T.Q. Murdock, **A.T. Werner**, S.R. Sobie, and A.J. Cannon. 2012. *Downscaling extremes - an inter-comparison of multiple statistical methods for present climate*. *Journal of Climate*, 25(12): 4366-4388.
17. Picketts, I.M., **A.T. Werner**, T.Q. Murdock, J. Curry, S.J. Dery and D. Dyer, 2012. *Planning for climate change adaptation: lessons learned from a community-based workshop*. *Environmental Science & Policy*, 17: 82-93.
18. Bürger, G., J. Schulla and **A.T. Werner**, 2011. *Estimates of future flow, including extremes, of the Columbia River headwaters*. *Water Resources Research*, 47(W10520): 1-18.
19. Allen, D., P.H. Whitfield and **A. Werner**, 2010. *Groundwater Level Responses in Temperate Mountainous Terrain: Regime Classification, and Linkages to Climate and Streamflow*. *Hydrologic Processes*, 24(23): 3392-3412.
20. Beckers, J., B. Smerdon, T. Redding, A. Anderson, R. Pike and **A.T. Werner**, 2009. *Hydrologic Models for Forest Management Applications: Part 1: Model Selection*. *Streamline*, 13(1): 35-44.
21. Beckers, J., R. Pike, **A.T. Werner**, T. Redding, B. Smerdon, and A. Anderson, 2009. *Hydrologic Models for Forest Management Applications: Part 2: Incorporating the Effects of Climate Change*. *Streamline*, 13(1): 45-54.
22. Dawson, R., **A.T. Werner**, and T.Q. Murdock, 2008, *Cariboo-Chilcotin: Climate Change Analysis*, LINK - FORREX Forum for Research and Extension in Natural Resources, Volume 10 – Issue 3, Fall 2008.

PEER REVIEWED REPORTS

1. Northern Rockies Regional Municipality, *Climate Projections for the BC Northeast Region, (in prep)* 2019.
2. White, T., J. Wolf, F. Anslow, **A. Werner**, *Indicators of Climate Change for British Columbia 2016 Update, Indicators: Timing and Volume of River Flow*. British Columbia. Ministry of Water, Land and Air Protection, 57 pgs.
3. D. W. van der Kamp, G. Bürger and **A. T. Werner**, 2013: *Evaluation of the monthly drought code as a metric for fire weather in a region of complex terrain, and uncertainties in future projections*. The Pacific Climate Impacts Consortium, Victoria, British Columbia, Canada, 16 pp.
4. Hamlet, A.F., M. Schnorbus, **A. Werner**, M. Stumbaugh and I. Tohver, 2013. *A Climate Change Scenario Inter-comparison Study for the Canadian Columbia River Basin: Summary Overview*, 13 pp.
5. Hamlet, A.F., M. Schnorbus, **A. Werner**, M. Stumbaugh and I. Tohver, 2013. *A Climate Change Scenario Inter-comparison Study for the Canadian Columbia River Basin: Technical Report*, 66 pp.
6. **Werner, A.T.**, 2011. *BCSD Downscaled Transient Climate Projections for Eight Select GCMs over British Columbia, Canada*. Pacific Climate Impacts Consortium, University of Victoria, Victoria, BC, 63 pp.
7. Schnorbus, M.A., K.E. Bennett, **A.T. Werner** and A.J. Berland, 2011. *Hydrologic Impacts of Climate Change in the Peace, Campbell and Columbia Watersheds, British Columbia, Canada*. Pacific Climate Impacts Consortium, University of Victoria, Victoria, BC, 157 pp.
8. Murdock, T.Q. and **A.T. Werner**, 2011. *Canadian Columbia Basin Climate Trends and Projections: 2007-2010 Update*. Pacific Climate Impacts Consortium, University of Victoria, Victoria, BC, 43 pp.

9. Schnorbus, M., K. Bennett and **A.T. Werner**, 2010. *Quantifying the water resource impacts of mountain pine beetle and associated salvage harvest operations across a range of watershed scales: Hydrologic modelling of the Fraser River basin*. Information Report: BC-X-423, Natural Resources Canada, Canadian Forestry Service, Pacific Forestry Centre, Victoria, BC, 64 pp.
10. **Werner, A.T.**, H.K. Jaswal and T.Q. Murdock, 2009. *Climate Change in Dawson City, YT: Summary of Past Trends and Future Projections*. Pacific Climate Impacts Consortium, University of Victoria, Victoria BC, 40 pp.
11. Picketts, I.M., **A.T. Werner** and T.Q. Murdock, 2009. *Climate change in Prince George: summary of past trends and future projections*. Pacific Climate Impacts Consortium, University of Victoria, Victoria BC, 48 pp.
12. Rodenhuis, D.R., K.E. Bennett, **A.T. Werner**, D. Bronaugh and T.Q. Murdock, 2009. *Climate Overview 2007: Hydro-Climatology and Future Climate Impacts in British Columbia*, July 2009.
13. Bennett, K.E., **Werner, A.T.** and M. Schnorbus, 2009, *Uncertainties in Hydrologic and Climate Change Impact Analyses in a Headwater Basin of the Peace River Watershed*, Hydrology Research, Special Issue from the 17th NRB Conference, 15 pp.
14. Dawson, R., **A.T. Werner**, and T.Q. Murdock, 2008, *Preliminary Analysis of Climate Change in the Cariboo-Chilcotin Area of BC*, Integrated Land Management Bureau, Pacific Climate Impacts Consortium, University of Victoria, Victoria, BC.
15. **Werner, A.T.**, 2007. *Seasonality of the Water Balance of the Sooke Reservoir, BC, Canada*. Masters of Science Thesis, Water and Climate Impacts Research Centre, Department of Geography, University of Victoria, Victoria, BC, Canada.
16. **Werner, A.T.** and T.Q. Murdock, 2007. *Summary Report: Changes in Past Hydro-climatology and Projected Future Changes – For the City of Whitehorse*, Pacific Climate Impacts Consortium, University of Victoria, Victoria, BC.
17. Murdock, T.Q., D. Bronaugh and **A.T. Werner**, 2007. *Preliminary Analysis of BC Climate Trends for Biodiversity*, Pacific Climate Impacts Consortium, University of Victoria, Victoria, BC.
18. Bennett, K.E., T.Q. Murdock and **A.T. Werner**, 2007. *Greater Vancouver Regional District Historical and Future Rainfall Analysis Update*, Pacific Climate Impacts Consortium, University of Victoria, Victoria, BC.
19. Murdock, T., J. Fraser, and C. Pearce (Editors), 2007. *Preliminary Analysis of Climate Variability and Change in the Canadian Columbia River Basin: Focus on Water Resources*. Contributing authors: **Werner, A.**, K. Bennett, J. Runnells, R. Lee, D. Rodenhuis, and B. Menounos.

BOOKS

1. Pike, R.G, K.E. Bennett, T. Redding, A.T. Werner, D. Spittlehouse, R.D. Moore, T.Q. Murdock, J. Beckers, B. Smerdon, K. Bladon, V. Foord, D. Campbell, and P. Tschaplinski. 2010. *Chapter 19: Climate Change Effects on Watershed Processes in BC*. In Compendium of Forest Hydrology and Geomorphology in British Columbia. R.G. Pike et al. (editors). B.C. Ministry of Forests and Range, Research Branch, Victoria, B.C. and FORREX Forum for Research and Extension in Natural Resources, Kamloops, B.C. Land Management Handbook 66, pgs 699-747.
2. Beckers, J., B. Smerdon, and M. Wilson. (A.T. Werner Reviewer) 2009. *Review of hydrologic models for forest management and climate change applications in British Columbia and Alberta*. FORREX Forum for Research and Extension in Natural Resources, Kamloops, BC FORREX Series 25.
3. Werner, A.T. contributing author in: Walker, I.J. and Sydneysmith, R. (2008): British Columbia; in *From Impacts to Adaptation: Canada in a Changing Climate 2007*, edited by D.S. Lemmen, F.J. Warren, J. Lacroix and E. Bush; Government of Canada, Ottawa, ON, p. 329-386.
4. Werner, A.T., J.J. Gibson, D. Hutchinson, M.L. Lacroix, D.L. Peters, and T.D. Prowse. 2006. *Estimating Inflows to the Sooke Reservoir, Victoria, BC*. Canadian Water Resources Association 2006 BC Branch Conference "Water Under Pressure: Balancing Values, Demands and Extremes", presented October, 25-27, Vancouver, BC, CA.

CONFERENCES AND WORKSHOPS

1. M. H. Mahoudi, M.R. Najafi, **A. (Werner) Schoeneberg** and M.A. Schnorbus. Changes in extreme daily temperature and precipitation over Western Canada based on a large ensemble of climate change simulations, Joint Meeting of the CGU-CSSS-CIG-CSAFM-ESSSA, Niagara Falls, Canada, 2018.
2. M. H. Mahoudi, M.R. Najafi, **A. (Werner) Schoeneberg** and M.A. Schnorbus. Changes in extreme daily temperature and precipitation over Pacific Northwest based on a large ensemble of climate change simulations and their relations to teleconnection signals, AGU Fall Meeting, Washington, D.C., 2018.
3. **A. (Werner) Schoeneberg**, M.A. Schnorbus and M.R. Najafi. Assessment of Climate Change Impact on Streamflow Extremes in Mountainous Regions using a Coupled Hydrology-Glacier Model, Session H54A: Advances in Process-Based Hydrologic Modeling III. AGU Fall Meeting, San Francisco, 2016.

4. M.R. Najafi, A. Cannon, M. Schnorbus, **A. Werner**, F. Zwiers. Coauthor: Future Changes in Precipitation and Temperature Extremes in Western Canada. 50th CMOS Congress and Joint CGU Annual Meeting, 2016.
5. **A. (Werner) Schoeneberg**, M.A. Schnorbus and R.R. Shrestha. Presented: Hydrologic Modelling over Large Spatial Scales and Long Time Horizons: Future Streamflow in the Columbia River Basin, Session #222: Advances in Hydrologic Modelling. CWRA 69th National Conference.
6. **A. (Werner) Schoeneberg**, M.A. Schnorbus and M.R. Najafi. Presented: Assessment of Climate Change Impact on Streamflow Extremes in Mountainous Regions using a Coupled Hydrology-Glacier Model, Session H54A: Advances in Process-Based Hydrologic Modeling III. AGU Fall Meeting, 2016.
7. **A.T. Werner**, S. Dery and E. Wood. Hosted Session: Quantifying and Communicating Uncertainties in Changes to Hydrologic Extremes – H42B Oral Session and H34E Posters, AGU / CGU Joint Assembly 2015.
8. **A.T. Werner**, A. Cannon, M. Schnorbus and R. Shrestha. Oral Presentation: Sources of Uncertainty in Replicating Hydro-climatic Extremes Presented – H34E-0172, AGU / CGU Joint Assembly 2015.
9. **A.T. Werner** and K. Whan. Hosted Session: Hydro-climatic Extremes at Regional Scales: Effects of Climate Variability and Change, and Land Surface Processes, CMOS Whistler 2015.
10. **A.T. Werner**, S. Kumar, M.A. Schnorbus and R.R. Shrestha. Presented: Trends in Hydrological Extremes as Modelled Using Two Gridded-Climatological Datasets, CMOS Whistler 2015.
11. S. Kumar, F.W. Zwiers, P. Dirmeyer, D.M. Lawrence, R.R. Shrestha and **A.T. Werner**, 2015. Robust and Heterogeneous Hydrological Changes under Global Warming, AGU, San Francisco, Abstract #60102, Final Paper##: GC53B-1199.
12. M.R. Najafi, S. Kumar, F. Zwiers, N. Gillet, M. Schnorbus, A. Cannon, R. Shrestha and **A. Werner**. Anthropogenic Influence on Multi-Decadal Changes in Hydrology of Western Canada. Poster AGU, San Francisco, US, December 2014.
13. S. Kumar, M.R. Najafi, M. Schnorbus, R. Shrestha and **A. Werner**. Asymmetry in hydrologic response to climate change in Western North America: A Land-Atmosphere Interaction Perspective. Poster GC11D-0589 AGU, San Francisco, US, December 2014.
14. **Werner, A.T.**, M.A. Schnorbus, R.R. Shrestha and A.J. Cannon. Session 2C9.5 ID 6583: Uncertainty in simulating hydrologic extremes using statistically downscaled climate data. CGU, Saskatoon, Saskatchewan, May, 28 2013.
15. **Werner, A.T.**, M.A. Schnorbus, and A.J. Cannon. Session GC34B: Uncertainty in downscaling extremes from multiple gridded observations and statistical methods. AGU, San Francisco, California, December, 5 2012.
16. Van Der Kamp, D. G. Bürger, and **A.T. Werner**. On the use of a simple monthly fire weather index as a metric for both historical and future wildfire severity in British Columbia. PCIC Program Advisory Committee, May 24 2012.
17. Y. Peng, V. Arora, B. Hawkins, J. Fyfe, W. Kurz, and **A. Werner**, Predicting carbon storage for British Columbia on seasonal to decadal timescales, PICS Forum, Victoria, BC, June 2012.
18. Schnorbus, M.A., **A.T. Werner** and R.R. Shrestha, 2011. Impact of projected climate change within two hydrologic regions in British Columbia, Canada. AGU Fall Meeting, 5-9 December 2011, San Francisco, California
19. **Werner, A.T.**, M.A. Schnorbus, G. Burger, R. Shrestha, J. Schulla, K.E. Bennett and A.J. Berland, 2011. Streamflow projection uncertainties in the major watersheds of British Columbia, Canada. WCRP Open Science Conference 2011, Denver, Colorado, Session C43: Water Resources and the Hydrological Cycle Over Land, Th234A.
20. **Werner, A.T.** and R.R. Shrestha, "From climate change scenarios to streamflow projections: multiple pathways for predicting change." Canadian Society for Hydrologic Sciences, August 23, 2011.
21. **Werner, A.T.**, Session Chair: Application of Climate Model Results to Regional Adaptation. CMOS June 2011.
22. **Werner, A.T.**, H. Eckstrand, A. Berland and G. Bürger, BCSD Downscaled Transient Climate Projections for Eight Select GCMs over British Columbia, Canada. Session 4C2: Validation of empirical-statistical downscaling methods in a varying climate system. CMOS, Victoria, BC, Canada, June 9 2011.
23. **Werner, A.T.**, T.Q. Murdock, G. Bürger, H. Eckstrand and J. Hiebert, Regional Climate Model projections for decision-making in the upper Columbia Basin, presented at the 2011 American Meteorological Society (AMS) Meeting, Seattle, USA, 22-27 Jan.
24. **Werner, A.T.**, K.E. Bennett, M.A. Schnorbus and A.J. Berland, 2011. Sensitivity of Projected Streamflow Changes to Future Scenarios in Three Hydrologic Regimes in BC, (poster) presented at the 2011 American Meteorological Society (AMS) Meeting, Seattle, USA, 22-27 Jan.
25. Schnorbus, M.A., K.E. Bennett and **A.T. Werner**, 2011. Quantifying the Hydrologic Impacts of Mountain Pine Beetle and Salvage Harvest in the Fraser River Basin, British Columbia, Canada, (poster) presented at the 2011 American Meteorological Society (AMS) Meeting, Seattle, USA, 22-27 Jan.
26. Bürger, G., T. Murdock and **A.T. Werner**, *Downscaling extremes with EDS, TreeGEN, and BCSD*, GC51A-0748 Poster presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.

27. Moore, R.D., G. Jost, V. Radic, F. Anslow, A. Jarosch, G.K.C. Clarke, B. Menounos, R. Wheate, T. Murdock, and **A.T. Werner**, *Past and future contributions of glacier melt to Columbia River streamflow*, C14B-05 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
28. Bennett, K.E., M. Schnorbus, **A.T. Werner**, and A.J. Berland. *Climate Change Impacts to Hydro Power Reservoir Systems in British Columbia, Canada: Modelling, Validation and Projection of Historic and Future Streamflow and Snowpack*, Abstract C13C-07 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
29. Beckers, J., T. Redding, A. Anderson, R. Pike and **A. Werner**, *Review of Hydrologic Models for Forest Management Applications*, 2010, CSHS 3 session, presented at the 2010 63rd Annual CWRA Conference, Vancouver, BC, 15-18 June.
30. **Werner, A.**, Bennett, K. and M. Schnorbus, *2050 Streamflow Impacts in Coastal vs. Interior Basins, British Columbia, Canada, 2010*, CSHS 4 session, presented at the 2010 63rd Annual CWRA Conference, Vancouver, BC, 15-18 June.
31. Fleming, S., R. Moore, G. Clarke, **A.Werner** and F. Weber, *Projections of Columbia River inflows to Mica dam under potential future trajectories of climate and glacier change*, 2010, CSHS 4 session, presented at the 2010 63rd Annual CWRA Conference, Vancouver, BC, 15-18 June.
32. Moore, R.D., G. Jost, V. Radic, F. Anslow, A. Jarosch, G.K.C. Clarke, B. Menounos, R. Wheate, T. Murdock, and **A.T. Werner**, *Past and future contributions of glacier melt to Columbia River streamflow*, presented CMOS-CGU Congress, Ottawa, Ontario, May 31 – June 4, 2010.
33. **Werner, A.T.**, Bennett, K.E. and M.A. Schnorbus, *Sensitivity of Projected Streamflow Changes in a Small Coastal Hybrid Watershed to Selected GCMs, Emissions Scenarios, Model Runs and Downscaling Approaches*, presented CMOS-CGU Congress, Ottawa, Ontario, May 31 – June 4, 2010.
34. Bennett, K.E., **A.T. Werner**, M. Schnorbus, *Uncertainties in Hydrologic and Climate Change Impact Analyses in Headwater Basins of British Columbia*, presented CMOS-CGU Congress, Ottawa, Ontario, May 31 – June 4, 2010.
35. Whitfield, P.H., D. Allen, and **A.T. Werner**, 2010. *Climate, Streamflow, and Groundwater Interactions in the Canadian Cordillera*, presented CMOS-CGU Congress, Ottawa, Ontario, May 31 – June 4, 2010.
36. Rodenhuis, D.R., A.T. Werner, Picketts, I.M., and T.Q. Murdock, *Community Climate Change Adaptation Based on Past Trends and Future Projections*, poster - AGU Conference, December 2009, San Francisco, USA.
37. Bennett, K.E., A.T. Werner, and M. Schnorbus, 2009. *Uncertainties in Hydrologic and Climate Change Impact Analyses in Major Watersheds in British Columbia, Canada*, poster - AGU Conference, December 2009, San Francisco, USA.
38. Bennett, K.E., M. Schnorbus and **A.T. Werner**, *PCIC Hydrologic Modelling Program: 2050s Projections of Snow Water Equivalent for the Fraser River Basin*, CHSH/CWRA Discussion Group Meeting, December 8, 2009, Pacific Climate Impacts Consortium (PCIC), University of Victoria, Victoria, BC.
39. Bennett, K.E., **A.T. Werner**, M. Schnorbus, P. Nienaber, D. Bronaugh and A.R.J. Berland, *Uncertainties in Hydrologic and Climate Change Impact Analyses in a Headwater Basin of the Peace River Watershed*, CCCma Luncheon Seminar, November 12, 2009.
40. Schnorbus, M.A., K.E. Bennett and **A.T. Werner**, 2009. *Climate change, bark beetles, the dieback of the pine forest, and Fraser River stream flows*. 8th University of Washington Program on Climate Change (PCC) Summer Institute, Climate Impacts on the Pacific Northwest: Present, Past, and Future, Friday Harbor Laboratories, San Juan Island, WA, September 14-17, 2009.
41. Schnorbus, M., K. Bennett and **A.T. Werner**, 2009. *Quantifying the peak flow impacts of mountain pine beetle and salvage harvest in the Fraser River drainage*, pp. 22-23 in Mountain Pine Beetle and Water Management. Workshop Proceedings of the Forum for Research and Extension in Natural Resources Society (FORREX), Kelowna, BC, June 2, 2009.
42. Schnorbus, M.A., K.E. Bennett and **A.T. Werner**, 2009. *Quantifying the hydrologic impacts of mountain pine beetle and salvage harvest in the Fraser River basin, British Columbia, Canada*. EOS Trans. AGU, 90(22), Jt. Assem. Suppl., Abstract CG21A-23.
43. **Werner, A.T.** *Climate Change and the Whitehorse Region*, McBride Museum, Whitehorse, YT, February 10, 2009.
44. **Werner, A.T.** *Past Hydro-climatology and Trends, and Future Climate in Dawson City, YT, Whitehorse, YT*, February 10, 2009.
45. Rodenhuis, D.R., **A.T. Werner**, and T.Q. Murdock. *Climate Overview – Hydroclimatology and Climate Impacts in BC, Part 1 Bridging the Gap with PCIC*, IESVic, University of Victoria, Victoria, BC, February 6, 2009.
46. **Werner, A.T.** *Assessment of Climate Change*. Parks Canada, Victoria, BC, December 10, 2008.
47. **Werner, A.T.** *Summary: Changes in Past Hydro-climatology and Projected Future Change in the Prince George Region*, Arelia Werner, City of Prince George, BC, November 26, 2008.

48. **Werner, A.T.** *Changes in Past Hydro-climatology and Projected Future Change in the Prince George Region*, Adapting to Climate Change in Prince George Workshop, Prince George, BC, November 25, 2008.
49. **Werner, A.T.** *Available Data for Assessing Vulnerability to Climate Change*, Planning Institute of BC Conference, Prince George, BC, June 11, 2008.
50. **Werner, A.T.** *Community Level Assessments of Climate Change and Variability*. Climate Impacts Group Seminar Series, University of Washington, WA, June 5, 2008.
51. **Werner, A.T.** *Responses of Streamflow in BC to Climate Trends and Variability*, Canadian Meteorological and Oceanographic Society Conference, Kelowna, BC, May 29, 2008.
52. **Werner, A.T.** *Community Level Assessments of Climate Change and Variability*, Canadian Meteorological and Oceanographic Society Conference, Kelowna, BC, May 27, 2008.
53. **Werner, A.T.** and T.Q. Murdock. *High-Resolution Climate Change Projections*. Water Supply Assessment – Climate Change Workshop. Sponsored by Alberta Environment. Held by Golder Associates Ltd. Edmonton, Alberta, February 25-26 2008.
54. **Werner, A.T.** and T.Q. Murdock. *General Introduction to Climate Change Projections*. Water Supply Assessment – Climate Change Workshop. Sponsored by Alberta Environment. Held by Golder Associates Ltd. Edmonton, Alberta, February 25-26 2008.
55. Rodenhuis, D.R. and **Werner, A.T.** *Hydro-Climatology and Future Climate Impacts in British Columbia*. CCCma Lunchtime Seminar Series, November 15 2007.
56. **Werner, A.T.** and T.Q. Murdock. *Biodiversity-Related Climate & Hydrological Trends & Projections*. Central Interior Ecoregional Assessment Meeting, November 19 2007.
57. **Werner, A.T.** *Past Hydroclimatology and Future Climate Impacts for the City Of Whitehorse*, City Of Whitehorse Sustainability Charrette, October 23rd 2007.
58. **Werner, A.T.** *Climate Change Impacts on the Greater Victoria Area Water Supply: An Historical Analysis of Sooke Lake Reservoir's Hydro-climatology*. Canadian Geophysical Union Annual Scientific Meeting, Banff, AB, May 2005.
59. **Werner, A.T.** *Climate Change Impacts on the Greater Victoria Area Water Supply: An Historical Analysis of Sooke Lake Reservoir's Hydro-climatology*. North American Lake Management Society 24 International Symposium, Victoria, BC, November 2004.
60. **Werner, A.T.** *Living Green a Watershed Pledge Program: Influencing Behavioural Change to Reduce Non Point Source Pollution*. Georgia Basin/ Puget Sound Research Conference, Vancouver, BC, April 2003.

REVIEWS FOR

- Atmosphere-Ocean
- Canadian Water Resources Journal
- Hydrologic Sciences Journal
- International Journal of Climatology
- Journal of Hydrology
- Stochastic Environmental Research and Risk Assessment

SOFTWARE DEVELOPMENT

- **GitHub:** <https://github.com/pacificclimate/routomotor>
- **GitHub:** <https://github.com/pacificclimate/ClimDown>
- **GitHub:** <https://github.com/pacificclimate/streamflow-trends-on-multi-stats>
- **CRAN:** 'ClimDown' R package, released December 2016
- **CRAN:** 'zyp' R package, released 2013, updated 2015

SKILLS

- **Operating Systems:** Linux OS, Microsoft Windows, Mac OS X
- **Software:** Microsoft Word, Excel and PowerPoint; ArcGIS; Adobe Acrobat; GitHub
- **Programming:** R, C-Shell (CSH), NCO, CDO, UNIX, Python, ArcPy
- **Version Control:** git, darcs, mercurial
- **High Performance Computing:** submitting batch jobs with qsub scripts, monitoring jobs, optimizing performance

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