

# *Research Output Set - Antarctic Wilderness*

## INTRODUCTION

About ten years ago (i.e. around 2004-2005) a number of Antarctic scholars working across a range of social sciences and environmental sciences disciplines (and some of whom were also engaged in various capacities with the diplomatic meetings of the Antarctic Treaty System) began to discuss the apparently slow implementation and operationalisation of the obligations in relation to wilderness and aesthetic values contained in the Madrid Protocol.

This loose coalition of individuals set out to examine, inter alia, various aspects of the concept of “wilderness” *sensu* Madrid Protocol, to examine the case-history of its application in Antarctica post-Madrid Protocol, and to advocate for greater attention to the obligations which Parties to the Madrid Protocol had freely signed up to.

The ‘project’ thus described has been extremely productive in an intellectual and publications sense. In that it arose in response to a perceived deficiency in the implementation of legal obligations under a key Antarctic Treaty instrument, and necessarily entailed multi-disciplinary engagement, engagement with the wider Antarctic political and intellectual community, and has (arguably) indeed raised the profile of Wilderness in the Antarctic discourse, it has seemed reasonable to see in this project a potentially useful generic model for Humanities and Social Sciences (HASS) research in our community. A model, not the model.

The work covers a diverse field, and no simple summary is either possible, or likely to be helpful, here. Not all authors will necessarily agree on a particular line of argument.

Below, are listed the works produced to date (October 2014) by this research project. Where possible, links to the material are also provided. The works are categorized as **1. Academic Articles and Chapters**, **2. Theses**, and **3. Resolutions**.

Additionally a listing of the **Diplomatic Papers at Antarctic Treaty Consultative Meetings** tabled during the same period are provided. Please understand that these, whilst we hope reflecting in some measure the increased profile of Wilderness over the period should not necessarily be attributed to the project or its individuals per se. These diplomatic papers represent the positions of the Government(s) or Expert organizations under whose name they were tabled.

The listing is not a comprehensive list of everything that anybody has ever written about Wilderness in Antarctica – although it is by far the largest body of work on this issue. Earlier work includes a paper by Tierney and Johnston in 1978,<sup>1</sup> a

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<sup>1</sup> Tierney, T. J. and G. W. Johnstone (1978). In G. Mosley (Ed.). *Conserving Australia's Wilderness: Antarctica as Wilderness. Australia's Wilderness: Conservation Progress and Plans: Proceedings of the First National Wilderness*

paper by Hemmings in 1996,<sup>2</sup> single papers each by Cessford, Clarkson and Dingwall in 1997,<sup>3</sup> and a cluster by Codling between 1997 and 2001.<sup>4</sup> There is, of course, a wider and quite massive literature on Wilderness globally, including works now considered seminal tracts of environmentalism.<sup>5</sup> In the Arctic, Wilderness has a more entrenched presence in policy, scientific, First-Peoples and environmental debates than in Antarctica, and this results in large works directed to a general audience.<sup>6</sup> None of this work can be directly referenced in this ROS, although it informs the Antarctic Wilderness papers, and merits examination by any new scholars inclined to investigate Antarctic Wilderness.

Alan D. Hemmings 10 October 2014.

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*Conference, Australian Academy of Science, Canberra. 21-23 October 1977: 118-126. Melbourne: Australian Conservation Foundation.*

<sup>2</sup> Hemmings, A. D. (1996). Cumulative impact on Antarctic intrinsic, wilderness and aesthetic values. In M. De Poorter and J. C. Dalziell (Eds.) *Cumulative Environmental Impacts in Antarctica: Minimisation and Management*: 62-64. Washington, DC: IUCN.

<sup>3</sup> Cessford, G. (1997). Antarctic tourism. A frontier for wilderness management. *International Journal of Wilderness* 3 (3): 7-11. Clarkson, P. D. (1997). Antarctica: Wilderness or Wasteland? *Alpine Journal* 102 (346): 8-12. Dingwall, P. R. (1997). Environmental management for Antarctic wilderness. *International Journal of Wilderness* 3 (3): 22-26.

<sup>4</sup> Codling, R. (1997). Concepts of wilderness in the Antarctic. *International Journal of Wilderness* 3 (3): 35-39. Codling, R. (1999). *Wilderness and Aesthetic Values in the Antarctic*. Unpublished PhD thesis, Open University, UK. Codling, R. (2001). Wilderness and aesthetic values in the Antarctic. *Polar Record* 37 (203): 337-352. Codling, R. (2001). Aspects of Environmental Planning in the Antarctic. *Journal of Environmental Planning and Management* 44 (1): 129-141.

<sup>5</sup> e.g. Nash, R. (1967) *Wilderness and the American Mind*. New Haven: Yale University Press.

<sup>6</sup> Recent examples include: Brinkley, D. (2011) *The Quiet World: Saving Alaska's Wilderness Kingdom 1879-1960*. New York: Harper and Banerjee, S. (2012) *Arctic Voices: Resistance at the Tipping Point*. New York: Seven Stories Press.

# ***Research Output Set - Antarctic Wilderness***

Authors:

Bastmeijer, Bishop, Carver, Hemmings, Keys, Neufeld, O'Reilly, Maher, Roura, Summerson, Tin

## **1. Academic Articles & Chapters**

1. Bastmeijer, K. (2005) Managing human activities in Antarctica: Should wilderness protection count? *New Zealand Yearbook of International Law* 2: 335-353.
2. Maher, P.T. (2007) Advocating for Antarctic Wilderness: Short-term visits and Human Values. In A. Watson and J. Sproull (Eds.) *Science and Stewardship to Protect and Sustain Wilderness Values: Eighth World Wilderness Congress Symposium: September 30 – 6 October, 2005, Anchorage, Alaska USA: 170-177*. Fort Collins: Rocky Mountain Research Station. <http://eleaf.wild.org/Books/web8WWCScienceSymp.pdf>
3. Tin, T., Hemmings, A.D. and Roura, R. (2008) Pressures on the Wilderness Values of the Antarctic Continent. *International Journal of Wilderness* 14(3): 7-12. [http://www.wilderness.net/library/documents/IJWDec08\\_Tin.pdf](http://www.wilderness.net/library/documents/IJWDec08_Tin.pdf).
4. Bastmeijer, K. (2009) Protecting Polar Wilderness: Just a Western Philosophical Idea or a Useful Concept for Regulating Human Activities in the Polar Regions? *The Yearbook of Polar Law* 1: 73-99. [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1295430](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1295430)
5. Tin, T. and Hemmings, A.D. (2011) Challenges in Protecting the Wilderness of Antarctica. In: A. Watson, J. Murrieta-Saldivar and B. McBride (Eds.), *Science and Stewardship to Protect and Sustain Wilderness Values: Ninth World Wilderness Congress Symposium: November 6-13, 2009, Merida, Yucatan, Mexico: 147-152*. Fort Collins: Rocky Mountain Research Station. [http://www.fs.fed.us/rm/pubs/rmrs\\_p064/rmrs\\_p064\\_147\\_152.pdf](http://www.fs.fed.us/rm/pubs/rmrs_p064/rmrs_p064_147_152.pdf).
6. Tin, T., Bastmeijer, K., O'Reilly, J. and Maher, P. (2011) Public Perception of the Antarctic Wilderness: Surveys from an Educated, Environmentally Knowledgeable European Community. In: A. Watson, J. Murrieta-Saldivar and B. McBride (Eds.), *Science and Stewardship to Protect and Sustain Wilderness Values: Ninth World Wilderness Congress Symposium: November 6-13, 2009, Merida, Yucatan, Mexico: 109-117*. Fort Collins: Rocky Mountain Research Station. [http://www.fs.fed.us/rm/pubs/rmrs\\_p064/rmrs\\_p064\\_109\\_117.pdf](http://www.fs.fed.us/rm/pubs/rmrs_p064/rmrs_p064_109_117.pdf).
7. Summerson, R. and Tin, T. (2011) Protection of the Wilderness and Aesthetic Values of Antarctica: Geographical Information Systems (GIS) as a Tool. In A. Watson, J. Murrieta-Saldivar and B. McBride (Eds.), *Science and Stewardship to Protect and Sustain Wilderness Values: Ninth World Wilderness Congress Symposium: November 6-13, 2009, Merida, Yucatan, Mexico: 178-181*. Fort Collins: Rocky Mountain Research Station. [http://www.fs.fed.us/rm/pubs/rmrs\\_p064/rmrs\\_p064\\_178\\_181.pdf](http://www.fs.fed.us/rm/pubs/rmrs_p064/rmrs_p064_178_181.pdf)
8. Summerson, R. and Bishop, I. (2011) Aesthetic value in Antarctica: beautiful or sublime? *The Polar Journal* 1(2): 225-250. <http://www.tandfonline.com/doi/full/10.1080/.U3RbGygwJFI>

9. Bastmeijer, K. (2011) Intergenerational Equity and the Antarctic Treaty system: Continued Efforts to Prevent 'Mastery'. *The Yearbook of Polar Law* 3: 635-682.  
[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1762039](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1762039)
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11. Summerson, R. & Bishop, I. (2012) The impact of human activities on wilderness and aesthetic values in Antarctica. *Polar Research* 31: 10858.  
<http://dx.doi.org/10.3402/polar.v31i0.10858>
12. Tin, T. & Summerson, R. (2013) Growing Human Footprint, Diminishing Wilderness in Antarctica. *International Journal of Wilderness* 19(3): 10-13 & 36.  
[http://ijw.org/wp-content/uploads/2013/03/Dec-2013a-IJW\\_web.pdf](http://ijw.org/wp-content/uploads/2013/03/Dec-2013a-IJW_web.pdf)
13. Carver, S. & Tin, T. (2013) *Mapping and Modelling Wilderness Values in Antarctica*. Leeds: Wildland Research Institute.
14. Summerson, R. (2013). Wilderness and Aesthetic Values of Antarctica. In Daniela Liggett and Alan D. Hemmings (Eds.) *Exploring Antarctic Values: 22-47*. Christchurch: Gateway Antarctica. <http://antarctica-ssag.org/wp-content/uploads/2013/05/SSAG-proceedings-2013.pdf>
15. Tin, T. (2013) Environmental advocacy in the Antarctic Treaty System – a personal view from the 2000s. *The Polar Journal* 3(2): 415-430.  
<http://dx.doi.org/10.1080/2154896X.2013.861264>
16. Neufeld, E., O'Reilly, J., Summerson, R. & Tin, T. (2014) Valuing Antarctica: emerging views from international studies. 233-252 in Tin, T., Liggett, D., Maher, P.T. & Lamers, M. (eds.) *Antarctic Futures: Human engagement with the Antarctic environment*. Dordrecht: Springer.  
<http://www.springer.com/environment/environmental+management/book/978-94-007-6581-8>
17. Roura, R.M. & Tin, T. (2014) Strategic Thinking and the Antarctic Wilderness: Contrasting Alternative Futures. In: T. Tin, D. Liggett, P. Maher, and M. Lamers (Eds.) *Antarctic Futures: Human Engagement with the Antarctic Environment*. 253–271. Dordrecht: Springer.  
<http://www.springer.com/environment/environmental+management/book/978-94-007-6581-8>
18. Bastmeijer, K. & Tin, T. (2014) Antarctica – A Wilderness Continent for Science: The 'Public's Dream as a Mission Impossible? *The Yearbook of Polar Law* 6: ...-...  
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19. Bastmeijer, K. (2014) Addressing Weak Legal Protection of Wilderness: Deliberate Choices and Drawing Lines on the Map. In: Steffen Fritz and Steve Carver (Ed.), *Mapping Wilderness: Concepts, Techniques and Applications of GIS*, Heidelberg/Dordrecht/New York: Springer.  
[https://www.researchgate.net/publication/262378973\\_Addresssing\\_Weak\\_Legal](https://www.researchgate.net/publication/262378973_Addresssing_Weak_Legal)

[Protection of Wilderness Deliberate Choices and Drawing Lines on the Map ?ev=prf\\_pub](#)

20. Tin, T. (2014) Looking into the future of the Antarctic wilderness. *International Journal of Wilderness*, 20(3). [www.ijw.org](http://www.ijw.org)

## **2. Theses**

1. Summerson, R.M.V. (2013) The Protection of Wilderness and Aesthetic Values in Antarctica. PhD thesis, The University of Melbourne.

## **3. Resolutions**

1. Resolutions from WILD9, the 9<sup>th</sup> World Wilderness Congress. Resolution 14: Protection of Antarctica's wilderness values.  
<http://www.wild.org/blog/resolution-14-protection-of-antarcticas-wilderness-values>

# Diplomatic Papers at Antarctic Treaty Consultative Meetings

1. New Zealand (2011) Understanding concepts of Footprint and Wilderness related to protection of the Antarctic environment. Working Paper 35. XXXIV ATCM [CEP XIV – 7d], Buenos Aires.  
English: [http://www.ats.aq/documents/ATCM34/wp/ATCM34\\_wp035\\_e.doc](http://www.ats.aq/documents/ATCM34/wp/ATCM34_wp035_e.doc)  
French: [http://www.ats.aq/documents/ATCM34/wp/ATCM34\\_wp035\\_f.doc](http://www.ats.aq/documents/ATCM34/wp/ATCM34_wp035_f.doc)  
Russian: [http://www.ats.aq/documents/ATCM34/wp/ATCM34\\_wp035\\_r.doc](http://www.ats.aq/documents/ATCM34/wp/ATCM34_wp035_r.doc)  
Spanish: [http://www.ats.aq/documents/ATCM34/wp/ATCM34\\_wp035\\_s.doc](http://www.ats.aq/documents/ATCM34/wp/ATCM34_wp035_s.doc)
2. New Zealand / Netherlands (2012) Concepts for Wilderness protection in Antarctica using tools in the Protocol. Working Paper 50. XXXV ATCM [CEP XV – 7d], Hobart.  
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French: [http://www.ats.aq/documents/ATCM35/wp/ATCM35\\_wp050\\_f.doc](http://www.ats.aq/documents/ATCM35/wp/ATCM35_wp050_f.doc)  
Russian: [http://www.ats.aq/documents/ATCM35/wp/ATCM35\\_wp050\\_r.doc](http://www.ats.aq/documents/ATCM35/wp/ATCM35_wp050_r.doc)  
Spanish: [http://www.ats.aq/documents/ATCM35/wp/ATCM35\\_wp050\\_s.doc](http://www.ats.aq/documents/ATCM35/wp/ATCM35_wp050_s.doc)
3. New Zealand / Netherlands (2012) Further information about wilderness protection in Antarctica and use of tools in the Protocol. Information Paper 60. XXXV ATCM [CEP XV – 7d], Hobart.  
[http://www.ats.aq/documents/ATCM35/ip/ATCM35\\_ip060\\_e.doc](http://www.ats.aq/documents/ATCM35/ip/ATCM35_ip060_e.doc)
4. New Zealand (2013) Possible guidance material to assist Parties to take account of wilderness values when undertaking environmental impact assessments. Working Paper 35. XXXVI ATCM [CEP XVI - 9d], Brussels.  
English: [http://www.ats.aq/documents/ATCM36/wp/ATCM36\\_wp035\\_e.doc](http://www.ats.aq/documents/ATCM36/wp/ATCM36_wp035_e.doc)  
French: [http://www.ats.aq/documents/ATCM36/wp/ATCM36\\_wp035\\_f.doc](http://www.ats.aq/documents/ATCM36/wp/ATCM36_wp035_f.doc)  
Russian: [http://www.ats.aq/documents/ATCM36/wp/ATCM36\\_wp035\\_r.doc](http://www.ats.aq/documents/ATCM36/wp/ATCM36_wp035_r.doc)  
Spanish: [http://www.ats.aq/documents/ATCM36/wp/ATCM36\\_wp035\\_s.doc](http://www.ats.aq/documents/ATCM36/wp/ATCM36_wp035_s.doc)
5. New Zealand (2013) Intersessional report on the provision of guidance material to assist Parties to take account of wilderness values when undertaking environmental impact assessments. Information Paper 39. XXXVI ATCM [CEP XVI - 9d], Brussels.  
[http://www.ats.aq/documents/ATCM36/ip/ATCM36\\_ip039\\_e.doc](http://www.ats.aq/documents/ATCM36/ip/ATCM36_ip039_e.doc)
6. ASOC [Antarctic and Southern Ocean Coalition] (2013). Mapping and modelling wilderness values in Antarctica. Contributions to CEP's work in developing guidance material on Wilderness Protection using Protocol tools. Information Paper 60. XXXVI ATCM [CEP XVI - 9d], Brussels.  
[http://www.ats.aq/documents/ATCM36/ip/ATCM36\\_ip060\\_e.doc](http://www.ats.aq/documents/ATCM36/ip/ATCM36_ip060_e.doc)
7. ASOC [Antarctic and Southern Ocean Coalition] (2014). Antarctic Resolution at the 10<sup>th</sup> World Wilderness Conference. IP 69. XXXVII ATCM [CEP XVII – 9d], Brasilia. [http://www.ats.aq/documents/ATCM37/ip/ATCM37\\_ip069\\_e.doc](http://www.ats.aq/documents/ATCM37/ip/ATCM37_ip069_e.doc)
8. ASOC [Antarctic and Southern Ocean Coalition] (2014). Managing Human Footprint, Protecting Wilderness: A Way Forward. Information Paper 71 rev.1. XXXVII ATCM [CEP XVII – 9d], Brasilia.  
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