

## Mark Stafford Smith, March 2018

### Curriculum vitae

#### Personal:

Full Name: Dr David Mark STAFFORD SMITH  
Born 6 January 1957, in Cambridge UK; married with two children.

Nationality: Dual British/Australian

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#### Academic Qualifications:

1984	Ph.D.	Australian National University	Behavioural Ecology
1983	M.A.	Cambridge University (UK)	Natural Sciences
1979	B.A. (Hons)	Cambridge University (UK)	Natural Sciences (Triple First)

#### Summary biography

Most recently prior to retiring in Sep 2018, I have been the Chief Coordinating Scientist, Adaptation in CSIRO's Land and Water business unit in Australia; in this role I oversaw a highly interdisciplinary program of research on many aspects of adapting to climate change, and I regularly interacted with national and international policy issues. I have over 30 years' experience in drylands systems ecology, management and policy, including senior roles such as CEO of the Desert Knowledge Cooperative Research Centre, and Program Leader of CSIRO Centre for Arid Zone Research in Alice Springs. My significant international roles include vice-chair of the International Geosphere-Biosphere Programme's Scientific Committee (2007-2009), and co-chair of the *Planet Under Pressure: New Knowledge towards Solutions* international global change conference (London, Mar 2012) in the lead-up to Rio+20; I completed my term as Chair (2013-2017) of the inaugural *Future Earth* Science Committee, a major new entity coordinating some 60,000 global change researchers worldwide, but continue some activities with *Future Earth* networks internationally and with *Future Earth Australia*. I continue to publish actively, adding to over 190 peer-reviewed contributions to science; I also deliver many presentations and publications for less-specialised audiences, with strong collaborative networks in the US, Europe, Africa, as well as South America and parts of Asia.

#### Professional Experience:

Sep 2018: Retired from fulltime work with CSIRO, continuing active as CSIRO Honorary Fellow and in various national and international roles.

2017 –2018 On long service leave from CSIRO, but continuing some activities in Australia and internationally.

2014 – 2017 Chief Coordinating Scientist, Adaptation, based in CSIRO Land and Water: in this half time role I maintain a coordinating oversight of adaptation research and business development in CSIRO, though without directly managing staff. I have a major role in communicating CSIRO work within Australia and internationally, and in strategic planning and partnerships, both internally through science strategy committees and linking with other Flagships, and externally with stakeholders, with a focus on national government and non-government policy and regional groups. I also maintain some active research in my own right in the area of Adaptation.

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- 2013 – 2017 Chair, Science Committee, Future Earth: one third of my time was spent in this international role, supporting the global research coordination platform of Future Earth. In this role, I helped oversee the start-up of Future Earth, supporting the implementation of a globally distributed Secretariat which is now (2016) fully operational and taking over the majority of day-to-day functions. I sat on its executive committee, provide direction leadership support to the Executive Director, and play a major role in setting strategic directions in conjunction with a very wide range of global players.
- 2008 – 2014 Science Director, Climate Adaptation Flagship, CSIRO: in this post I was responsible for the science strategy for ~150 fulltime staff equivalents (across ~250 individuals) working on adaptation to climate change in Australia and in various international projects, with a proportion of my time still in active research. I reported to and deputised for the Director, oversaw research coherence and quality through annual reviews, sought integration and synthesis, delivered Flagship review materials, and ensured the Flagship's outcomes were greater than the sum of their parts.
- 2006-2007 Principal Research Scientist, Resource Futures Program, CSIRO Sustainable Ecosystems; Research Fellow, Desert Knowledge CRC; and Senior Research Fellow, Land and Water Australia, reporting to the Deputy Chief, CSIRO Sustainable Ecosystems. During this research fellowship over two years, I consolidated my previous work on cross-scale management and governance of desert systems.
- 2003-2005 Chief Executive Officer, Desert Knowledge Cooperative Research Centre, Alice Springs, Australia. In this role I was responsible to an independent board for setting up and running a \$90m, 7-year applied research partnership among 28 organisations that I was instrumental in establishing in 2002. I recruited its secretariat, business management, and research management and (around 10 staff) and set up its business and project management systems. Once it was established, I attracted an additional \$3m external funding over 2 years.
- 2002 Senior Research Scientist, Centre for Arid Zone Research, CSIRO Sustainable Ecosystems, Alice Springs, during which time I formulated the first and successful Desert Knowledge CRC application for funding, reporting to the Program Leader, Rangelands and Savannas Program.
- 1997-2001: Program Leader and Officer in Charge, Centre for Arid Zone Research, CSIRO Sustainable Ecosystems (CSE), Alice Springs; in this role I was responsible for all research directions and site management activities at CSIRO Alice Springs Laboratory (around 18 staff, \$2m/y budget), as well as sitting on the Divisional Executive Committee for CSE, and reporting to the Chief of CSE. I continued my own research in several externally funded projects (*Land Use Change in Northern Australia, RiskHerd*, etc)
- 1984-1997 Research Scientist and Senior Research Scientist, Centre for Arid Zone Research (CAZR), CSIRO Wildlife and Ecology, Alice Springs. As an active team member of CAZR reporting to the local Program Leader, I ran a series of projects, building a small team of up to 3 staff around me, as well as leading national projects with external funding that involved collaborators from several state agencies (e.g. *DroughtPlan*).

**Professional Appointments:**

- 2018– Special advisor to the chair, Scientific and Technical Advisory Panel, Global Environment Facility (Washington)
- 2018– Co-chair, Future Earth Australia, Steering Committee
- 2017– Co-chair, (China CAS) Global Dryland Ecosystem Programme Scientific Committee

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- 2017– Co-chair, International Geographical Union Commission on Coupled Human-Earth Systems for Sustainability
- 2017–2018 Member of 3-person Essential Environmental Measures for Australia Expert Panel, Commonwealth Department of Environment & Energy
- 2015–2016 Member of 3-person Expert Panel for the Review of the Australian Biodiversity Conservation Strategy
- 2014– International Advisory Board, Inter-Sectoral Impact Model Intercomparison Project (ISI-MIP) globally
- 2013–2017 Chair, *Future Earth* Science Committee
- 2013– Associate Editor, *Global Environmental Change*
- 2012–2014 Judge, International Green Awards
- 2012– Advisory Board, Center for Sustainability Science, Taiwan Academia Sinica
- 2010–2012 Co-chair of the ‘*Planet Under Pressure*’ Conference 2012 in London, UK
- 2008– Associate Editor, *The Rangelands Journal*
- 2007–2009 Member ‘High-level Expert Working Group on Biodiversity and Climate Change’, Australian Greenhouse Office.
- 2003–2009 ICSU-appointed member of Scientific Committee of International Geosphere-Biosphere Programme (IGBP) (vice-chair 2007-2009), and IGBP-appointed member of Executive Committee for Global Environmental Change and Food Security Joint Project (GECAFS) of the Earth System Science Partnership (ESSP).
- 2002–2011 Ministerially-appointed member of Scientific Advisory Panel, Lake Eyre Basin Ministerial Forum
- 1996–1999 Independent scientific advisor to Southern Rangelands Sustainable Regional Development Board for Agriculture WA, appointed by WA Minister
- 1992–2000 International Co-Task Leader, Pastures and Rangelands, Global Change in Terrestrial Ecosystems Core Project of the IGBP
- 1990–1994 Scientific advisor to Regional Adjustment subcommittee of federal RASAC.

**Students supervised as formal associate supervisor:**

Seona Meharg, ANU, PhD in progress 2015-: *Can you make it stick? A comparative study evaluating adaptation pathways in international development – from theory and practice*

Fiona Walsh, U Western Australia, PhD 2009: *To hunt and to hold: Martu Aboriginal people’s uses and knowledge of their country, with implications for co-management in Karlamilyi (Rudall River) National Park and the Great Sandy Desert, Western Australia*

Christine Schlesinger, Charles Darwin U, PhD 2008: *Lizards in mulga shrublands*

Melinda Hillery, Macquarie U, PhD 2002: *Testing capacity and allocation rules for species diversity of termites in mulga woodlands of central Australia*

Pauline Dube, U. Queensland, PhD 2000: *Monitoring human-induced change in communal and leasehold rangelands of Botswana*

Nathaniel Last, U. Adelaide, Honours 1992: *Development of a land unit map for Fregon and assessment of the implications on current Aboriginal land use*

Enrique Jurado, Macquarie U, PhD 1990: *Seed and seedling biology of central Australian plants*

I have provided less formal but substantial support also to the PhDs of Josephine Caffery, Charles Darwin U (2008): *Linguistics training in Indigenous adult education and its effects on endangered*

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languages, and Karen Gardner, ANU (2011): *Sustaining quality improvement in indigenous primary health care: an actor network analysis*. I have also examined numerous theses over the years, including: Abel (U.East Anglia) 1992, Hatch (U.Pietermaritzburg) 1991, Leishman (U.Macquarie) 1993, Hunt (U.Adelaide) 1995.

### Recent Awards:

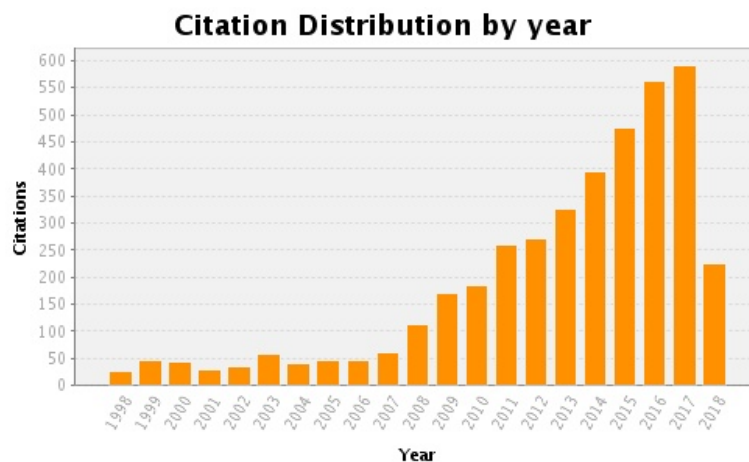
- Nov 2017      Lifetime Achievement Award, CSIRO
- Jul 2009      Sustainability Science Award of the Ecological Society of America for scholarly work that most advances sustainability science (shared)
- Oct 2007      One of many international scientists sharing the 2007 Nobel Peace Prize for work on the Intergovernmental Panel for Climate Change.
- Nov 2005      Awarded a one-year Land and Water Australia Senior Research Fellowship
- May 2005      Winner of Inaugural NT Research and Development Innovation Award

### Main career research areas

Systems analysis and modelling. Arid zone ecology; life history strategies in response to climate variability and sparse resources; modelling of spatial and temporal variability in diverse systems. Drought management, economic strategies and sustainability implications in rangeland grazing; distribution of grazing animals and grazing impact; conservation planning in arid zones. Decision Support Systems, management decision tools; policy instruments for sustainable natural resource management. Regional planning, and typologies; cross-scale emergent properties; implications of variability for small businesses, settlement service delivery, and governance; a science of remote areas. Planning under uncertainty, adapting to climate change.

### Publications

**Overall statistics.** In ISI's ResearcherID at Jun 2018, 121 of the following publications from the last 20y are retrieved with 93 having citation data. For these, total citations are ~4140 (averaging 44.5/article), with an H-index of 30 (see note at end of bibliography).



### Refereed writings

#### 2019

1. Shrivastava, P., Zsolnai, L., Wasieleski, D., **Stafford-Smith, M.**, Walker, T., Weber, O., Krosinsky, C. & Oram, D. (2019) Finance and Management for the Anthropocene. *Organization & Environment* **32**, 26-40.

#### 2018

2. Leach, M., Reyers, B., Bai, X., Brondizio, E.S., Cook, C., Díaz, S., Espindola, G., Scobie, M., **Stafford-Smith, M.** & Subramanian, S.M. 2018 Equity and sustainability in the Anthropocene: a social-ecological systems perspective on their intertwined futures. *Global Sustainability* **1**, e13.

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3. Sun, X., Gao, L., Ren, H., Ye, Y., Li, A., **Stafford-Smith, M.**, Connor, J.D., Wu, J. & Bryan, B.A.. (2018) China's progress towards sustainable land development and ecological civilization. *Landscape Ecol* **33**: 1647-1653. <https://doi.org/10.1007/s10980-018-0706-0>
  4. **Stafford Smith, M.**, Cook, C., Sokona, Y., Elmqvist, T., Fukushi, K., Broadgate, W. & Jarzebski, M.P. 2018 Advancing sustainability science for the SDGs. *Sustainability Science* **13**, 1483-1487. <https://doi.org/10.1007/s11625-018-0645-3>
  5. Nilsson, M, Chisholm, E, Griggs, D, Howden-Chapman, P, McCollum, D, Messerli, P, Neumann, B, Stevance, A-S, Visbeck, M, **Stafford-Smith, M.** (2018) Mapping interactions between the Sustainable Development Goals - lessons learned and ways forward. *Sustainability Science* **13**, 1489-1503
  6. Bryan, BA, Gao, L, Ye, Y, Sun, X, Connor, JD, Crossman, ND, **Stafford-Smith, M**, Wu, J, He, C, Yu, D, Liu, Z, Li, A, Huang, Q, Ren, H, Deng, X, Zheng, H, Niu, J, Han, G, and Hou, X. (2018) China's integrated response to a national land-system sustainability emergency. *Nature* **559**, 193-204.
  7. Webb, R., Rissik, D., Petheram, L., Beh, J.-L., **Stafford Smith, M.** (2018) Co-designing adaptation decision support: meeting common and differentiated needs. *Climatic Change* (on-line): <https://doi.org/10.1007/s10584-018-2165-7>
  8. Webb, R., Bai, X., **Stafford Smith, M.**, Costanza, R., Griggs, D., Moglia, M., Neuman, M., Newman, P., Newton, P., Norman, B., Ryan, C., Schandl, H., Steffen, W., Tapper, N., Thomson, G. (2018) Sustainable urban systems: Co-design and framing for transformation. *Ambio* **47**, 57-77. DOI: 10.1007/s13280-017-0934-6
- 2017**
9. Rosenzweig, C., Arnell, N.W., Ebi, K.L., Lotze-Campen, H., Raes, F., Rapley, C., **Stafford Smith, M.**, Cramer, W., Frieler, K., Reyer, C.P.O., Schewe, J., van Vuuren, D., Warszawski, L. (2017) Assessing inter-sectoral climate change risks: the role of ISIMIP. *Environmental Research Letters* **12**, 010301.
  10. Reyers, B., **Stafford-Smith, M.**, Erb, K.-H., Scholes, R.J., Selomane, O. (2017) Essential Variables help to focus Sustainable Development Goals monitoring. *Current Opinion in Environmental Sustainability* **26–27**, 97-105.
  11. Polley, H.W., Bailey, D.W., Nowak, R.S., **Stafford-Smith, M.**, (2017) Ecological Consequences of Climate Change on Rangelands, in: Briske, D.D. (Ed.), *Rangeland Systems: Processes, Management and Challenges*. Springer Open, pp. 229-260.
  12. **Stafford-Smith, M.**, Griggs, D., Gaffney, O., Ullah, F, Reyers, B., Kanie, N., Stigson, B., Shrivastava, P., Leach, M., O'Connell, D. (2017). Integration: the key to implementing the Sustainable Development Goals. *Sustainability Science* **12**, 911-919. doi:10.1007/s11625-11016-10383-11623
- 2016**
13. Bai, X., Surveyer, A., Elmqvist, T., Gatzweiler, F.W., Güneralp, B., Parnell, S., Prieur-Richard, A.-H., Shrivastava, P., Siri, J.G., **Stafford-Smith, M.**, Toussaint, J.-P., Webb, R. (2016) Defining and advancing a systems approach for sustainable cities. *Current Opinion in Environmental Sustainability* **23**, 69-78.
  14. Caffery, J., **Stafford Smith, M.**, (2016) Linguistic and cultural factors that affect the documentation and maintenance of Australia's traditional languages, in: Austin, P.K., Koch, H., Simpson, J. (Eds.), *Language, Land and Song*. SOAS, London, pp. 503-513.
  15. van Vuuren, D.P., Lucas, P.L., Häyhä, T., Cornell, S.E., **Stafford-Smith, M.** (2016). Horses for courses: analytical tools to explore planetary boundaries. *Earth System Dynamics* **7**, 267-279.
  16. **Stafford Smith, M.** (2016) Desertification: Reflections on the Mirage (Chapter 20), in: Behnke, R.H.J., Mortimore, M. (Eds.), *The End of Desertification? Disputing Environmental Change in the Drylands*. Springer Earth System Sciences, Berlin, pp. 539-560.
  17. Wang, C.-H., Baynes, T., McFallan, S., West, J., Khoo, Y.B., Wang, X., Quezada, G., Mazouz, S., Herr, A., Beaty, R.M., Langston, A., Li, Y., Wai Lau, K., Hatfield-Dodds, S., **Stafford-Smith, M.**, Waring, A. (2016). Rising tides: adaptation policy alternatives for coastal residential buildings in Australia. *Structure and Infrastructure Engineering* **12**, 463-476.
- 2015**
18. Pinho, P. F., Marengo, J. A., and **Stafford Smith, M.** (2015). Complex socio-ecological dynamics driven by extreme events in the Amazon. *Regional Environmental Change* **15**, 643-655
  19. Hatfield-Dodds, S., McKellar, L., Brinsmead, T.S., Bryan, B.A., Graham, P., Grundy, M., Harwood, T., Newth, D., Schandl, H., Wonhas, A., Adams, P., Cai, Y., Ferrier, S., Finnigan, J., McCallum, R., Nolan, M., Prosser, I., **Stafford Smith, M.**, Battaglia, M., Baynes, T., Chiew, F., Connor, J., Geschke, A., Grigg, N., Harman, I., Hayward, J., Keating, B., King, D., Lenzen, M., Lonsdale, M., McCrae, R.,

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Navarro Garcia, J., Owen, A., Raison, J., Reedman, L., Rodriguez, M.C., Smith, M.H., Summers, D., Whetton, P. (2015) *Australian National Outlook 2015 – Technical Report: Economic activity, resource use, environmental performance and living standards, 1970–2050*. CSIRO, Canberra.

**2014**

20. Griggs, D., **Stafford Smith**, M., Rockström, J., Öhman, M.C., Gaffney, O., Glaser, G., Kanie, N., Noble, I., Steffen, W., Shyamsundar, P. (2014). An integrated framework for sustainable development goals. *Ecology and Society* **19**, On-line Article 49.
21. Leadley, P., Proenca, V., Fernandez-Manjarres, J., Pereira, H.M., Alkemade, R., Biggs, R., Bruley, E., Cheung, W., Cooper, D., Figueiredo, J., Gilman, E., Guenette, S., Hurtt, G., Mbow, C., Oberdorff, T., Revenga, C., Scharlemann, J.P.W., Scholes, R., **Stafford Smith**, M., Sumaila, U.R., Walpole, M. (2014). Interacting Regional-Scale Regime Shifts for Biodiversity and Ecosystem Services. *Bioscience* **64**, 665-679.
22. **Stafford-Smith**, M. (2014) Worldview: UN sustainability goals need quantified targets. *Nature* (London) **513**, 281.
23. Maru, Y.T., **Stafford Smith**, M. (2014). GEC special edition – Reframing adaptation pathways. *Global Environmental Change* **28**, 322-324
24. Wise, R. M., Fazey, I., **Stafford Smith**, M., Park, S. E., Eakin, H. C., Archer Van Garderen, E. R. M., and Campbell, B. (2014). Reconceptualising adaptation to climate change as part of pathways of change and response. *Global Environmental Change* **28**, 325-336
25. Maru, Y. T., **Stafford Smith**, M., Sparrow, A., Pinho, P. F., and Dube, O. P. (2014). A linked vulnerability and resilience framework for adaptation pathways in remote disadvantaged communities. *Global Environmental Change* **28**, 337-350
26. Leonard, M., Westra, S., Phatak, A., Lambert, M., van den Hurk, B., McInnes, K., Risbey, J., Schuster, S., Jakob, D., and **Stafford-Smith**, M. (2014). A compound event framework for understanding extreme impacts. *Wiley Interdisciplinary Reviews: Climate Change* **5**, 113-128. (<http://dx.doi.org/10.1002/wcc.252>)
27. **Stafford Smith**, M. and Mbow, C. (2014). Agroforestry from the past into the future. *Current Opinion in Environmental Sustainability* **6**, 134-137.

**2013**

28. Steffen, W. and **Stafford Smith**, M. 2013. Planetary boundaries, equity and global sustainability: why wealthy countries could benefit from more equity. *Current Opinion in Environmental Sustainability* **5**, 403–408.
29. Griggs, D., **Stafford-Smith**, M., Gaffney, O., Rockstrom, J., Ohman, M. C., Shyamsundar, P., Steffen, W., Glaser, G., Kanie, N., and Noble, I. 2013. Sustainable development goals for people and planet. *Nature* **495**, 305-307.
30. Palutikof, J., Parry, M., **Stafford Smith**, M., Ash, A. J., Boulter, S. L., and Waschka, M. 2013. The past, present and future of adaptation: setting the context and naming the challenges (Chapter 1). In: *'Climate Adaptation Futures'*. (Eds. J. Palutikof, S. L. Boulter, A. J. Ash, M. Stafford Smith, M. Parry, M. Waschka and D. Guitart.) pp. 3-29. (Wiley Publishing: Oxford.)
31. Ash, A. J. and **Stafford Smith**, M. 2013. Adaptation research: community, science or discipline? (Chapter 3). In: *'Climate Adaptation Futures'*. (Eds J. Palutikof, S. L. Boulter, A. J. Ash, M. Stafford Smith, M. Parry, M. Waschka and D. Guitart.) *in press*. (Wiley Publishing: Oxford.)
32. **Stafford Smith**, M. 2013. Scenarios for picturing a future adapted to +4°C (Chapter 11). In: *'Climate Adaptation Futures'*. (Eds J. Palutikof, S. L. Boulter, A. J. Ash, M. Stafford Smith, M. Parry, M. Waschka and D. Guitart.) pp. 119-125. (Wiley Publishing: Oxford.)

**2012**

33. Challinor, A., **Stafford Smith**, M., and Thornton, P. 2012. Use of agro-climate ensembles for quantifying uncertainty and informing adaptation. *Agricultural and Forest Meteorology* **170**, 2-7.
34. Seitzinger, S. P., Svedin, U., Crumley, C., Steffen, W., Abdullah, S. A., Alfsen, C., Broadgate, W. J., Biermann, F. H. B., Bondre, N. R., Dearing, J. A., Deutsch, L., Dhakal, S., Elmqvist, T., Farahbakhshazad, N., Gaffney, O., Haberl, H., Lavorel, S., Mbow, C., McMichael, A. J., Morais, J., Olsson, P., Pinho, P., Seto, K. C., Sinclair, O., **Stafford-Smith**, M., and Sugar, L. 2012. Planetary stewardship in an urbanising world: beyond city limits. *Ambio* **41**, 787-794.
35. **Stafford Smith**, M. 2012. Change the approach to sustainable development. *Nature* **483**, 375-375.

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36. **Stafford-Smith, M., Gaffney, O., Brito, L., Ostrom, E., and Seitzinger, S.** 2012. Interconnected risks and solutions for a planet under pressure — overview and introduction. *Current Opinion in Environmental Sustainability* **4**, 3-6.
37. **Stafford-Smith, M. and Russell, L.** 2012. A resilience view on reframing geoengineering research and implementation. *Carbon Management* **3**, 23-25. (<http://dx.doi.org/10.4155/cmt.11.71>)
- 2011**
38. **Stafford Smith, D.M., Horrocks, L., Harvey, A., and Hamilton, C.** 2011. Rethinking adaptation for a four degree world. *Phil.Trans.Roy.Soc.* 369: 196-216.
39. Morton, S.R., **Stafford Smith, D.M., Dickman, C.R. Dunkerley, D.L., Friedel, M.H., McAllister, R.R.J., Reid, J.R., Roshier, D.A., Smith, M.A., Walsh, F.J., Wardle, G.M., Watson, I.W., and Westoby, M.** 2011. A fresh framework for the ecology of arid Australia. *Journal of Arid Environments* **75**: 313-329.
40. Verstraete, M. M., Hutchinson, C. F., Grainger, A., **Stafford Smith, M., Scholes, R. J., Reynolds, J. F., Barbosa, P., Léon, A. and Mbow, C.** 2011. Towards a global drylands observing system: observational requirements and institutional solutions. *Land Degradation and Development* **22**(2): 198-213.
41. Reynolds, J. F., Grainger, A., **Stafford Smith, D. M., Bastin, G., Garcia-Barríos, L., Fernández, R. J., Janssen, M. A., Jürgens, N., Scholes, R. J., Veldkamp, A., Verstraete, M. M., Von Maltitz, G., and Zdruli, P.** 2011. Scientific concepts for an integrated analysis of desertification. *Land Degradation and Development* **22**(2): 166-183.
42. **Stafford Smith, M. and Ash, A.** (2011). Adaptation: reducing risk, gaining opportunity. In: '*Climate Change*'. (Eds H. Cleugh, M. Stafford Smith, M. Battaglia and P. Graham.) pp. 59-72. (CSIRO Publishing: Collingwood, Vic.)
43. **Stafford Smith, M., Fernandez, R. and Reynolds, J.F.** 2011. Looking back on a decade of the Dryland Development Paradigm. In: *Proceedings of IXth International Rangelands Congress, Rosario, Argentina, April 2011*. 6pp.
- 2010**
44. Chapin, F. Stuart III, Carpenter, Stephen R., Kofinas, Gary P., Folke, Carl, Abel, Nick Clark, Per Olsson, William C., **Stafford Smith, D. Mark, Walker, Brian, Young, Oran R., Berkes, Fikret, Biggs, Reinette, Grove, J. Morgan, Naylor, Rosamond L., Pinkerton, Evelyn, Steffen, Will, and Swanson, Frederick J.** 2010. Ecosystem stewardship: sustainability strategies for a rapidly changing planet. *TREE* **25**(4): 241-249.
45. Marshall, Graham R., and **Stafford Smith, D. Mark.** 2010. Natural resources governance for the drylands of the Murray–Darling Basin. *The Rangelands Journal* **32**: 267–282.
46. Obersteiner, M., **Stafford Smith, M., Hiepe, C., Brklacich, M., and Rudder, W.** 2010. Green food systems for 9 billion. In: 'Food Security and Global Environmental Change '. (Eds J. Ingram, P. Ericksen and D. Liverman.) pp. 301-317. (Earthscan: London.)
47. Lahsen, Myanna, Sanchez-Rodriguez, Roberto, Romero Lankao, Patricia, Dube, Pauline, Leemans, Rik, Gaffney, Owen, Mirza, Monirul, Pinho, Patricia, Osman-Elasha, Balgis, **Stafford Smith, Mark.** 2010. Impacts, adaptation and vulnerability to global environmental change: challenges and pathways for an action-oriented research agenda for middle- and low-income countries. *Current Opinion in Environmental Sustainability* **2**: 364-374
48. McAllister, R.R.J., Holcombe, S., Davies, J., Cleary, J., Boyle, A., Tremblay, P., **Stafford Smith, D.M., Rockstroh, D., LaFlamme, M., Young, M., and Rola-Rubzen, M.F.** 2010. Desert networks: a conceptual model for the impact of scarce, variable and patchy resources. *Journal of Arid Environments* **75**: 164-173.
49. **Stafford Smith, M and Mbow, C,** contributing authors to: Leadley, P., Pereira, H.M., Alkemade, R., Fernandez-Manjarres, J.F., Proenca, V., Scharlemann, J.P.W., Walpole, M.J. (2010) *Biodiversity Scenarios: Projections of 21st century change in biodiversity and associated ecosystem services*. Secretariat of the Convention on Biological Diversity, Montreal. Technical Series no. 50, 132 pages. (<http://www.cbd.int/ts/>)
- 2009**
50. **Stafford Smith, D. M., N. O. Abel, B. H. Walker, and F. S. Chapin, III.** 2009. Drylands: coping with uncertainty, thresholds, and changes in state. Pp.171-195 in F. S. Chapin, III, G. P. Kofinas, and C. Folke, editors. *Principles of Ecosystem Stewardship: Resilience-Based Natural Resource Management in a Changing World*. Springer-Verlag, New York.
51. Klein, C., Wilson, K., Watts, M., Stein, J. , Berry, S., Carwardine, J., **Stafford Smith, M., Mackey, B., and Possingham, H.** 2009. Incorporating ecological and evolutionary processes into continental-scale conservation planning. *Ecological Applications* **19**: 206-217.

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52. Verstraete, M.M., Scholes, B., and **Stafford Smith**, M. 2009. Climate and desertification: looking at an old problem through new lenses. *Frontiers in Ecology and the Environment* 7(8): 421-428 (eview doi: 10.1890/080119).
  53. McAllister, R.R.J., **Stafford Smith**, D.M., Stokes, C.J. and Walsh, F.J. 2009. Patterns of accessing variable resources across time and space: Desert plants, animals and people. *Journal of Arid Environments* 73: 338-346. doi:10.1016/j.jaridenv.2008.10.007
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**Footnote on citations (April 2011):** the diverse ways in which my double-barrelled surname is cited and mis-cited has a significant impact on citations in ISI, although this is hard to precisely quantify. It is even hard to locate many of the publications due to name differences, but this is assisted by searching for titles. More problematic is that citations in other papers do not match how the paper is recorded in ISI, and this cannot be corrected in ISI. For example:

- (i) Foran & Stafford Smith (1991) and Stafford Smith and Foran (1992) were papers on a similar topic at the same time in similar journals, which seem casually to have been noticed similarly. In ISI they receive 23 and 2 citations respectively; when the title is entered in Google Scholar (which generally finds more, but often some spurious, references), approximately the same number of citations are found for each (31, 25 respectively, both including around 5 self-citations).
- (ii) The following Table reports a brief comparison of the ISI statistics with GoogleScholar for the 10 articles just below the ISI H-index cut-off (as at 6<sup>th</sup> Apr 2011); doubling or more is highlighted. It can be seen that the major disparities occur in 'Stafford Smith' first authorships, though not completely consistently ('informal' in comments refers to citations in non-refereed sources or bibliographies, etc):

<i>Article</i>	<i>ISI cites</i>	<i>Google Scholar</i>	<i>Comments</i>
Lavorel <i>et al.</i> 1999	15	24	
Stafford Smith & Pickup 1993	15	35	(~3 informal)
Ash & Stafford Smith 2003	14	16	
Reid <i>et al.</i> 1990	14	23	(significant foreign language cases)
Stafford Smith <i>et al.</i> 1985	14	19	
Sparrow <i>et al.</i> 1997	13	10	??!
Stafford Smith <i>et al.</i> 2007	13	30	
Nelson <i>et al.</i> 2008	13	26	(significant informal policy citations)
Norton & Stafford Smith 1999	12	16	
Reid & Stafford Smith 2000	11	13	

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- (iii) A few notable articles in Australian journals have had considerable impact according to GoogleScholar but have not been abstracted by ISI at the time of writing, for example: Buxton and Stafford Smith (1996) *The Rangelands Journal*: 30 citations (~8 informal); Ash and Stafford Smith (1996) *The Rangelands Journal*: 41 citations (~9 informal); Stafford Smith *et al.* (2000) *Australian J. Environmental Management*: 24 citations (~4 informal). Any of these would probably add to the H-index, though this is an issue that anyone publishing for local impact will face.

It seems reasonable to conclude that my H-index and total citations under a correct ISI count (i.e. still imperfect but comparable to what most other authors would achieve) would be 20% or so higher than shown.