

Species Conservation - 3rd year option **REFERENCE LIST LECTURE 5/16**

Adams et al (2004) *Biodiversity and the eradication of poverty* Science **306** p1146 - a classic paper & still relevant

Alford, R. (2011) *Bleak future for amphibians* Nature **480** p461 looks at the relative effects of climate change, changes in land use and disease

Angelo (2012) *Brazil's forests lose key species* Nature News 15 August 2012 - mammals are disappearing twice as fast as thought but protected areas are working better than privately owned land

Balmford, A. et al. (2005) *The Convention on Biological Diversity's 2010 target* Science **307** p212 An early paper on the use of pre-set indicators and long term benefits vs. short term benefits - very interesting with hindsight

Balmford (2012) *Wild Hope - on the front lines of Conservation Successes* Sciences **337** p1455 - a new and inspirational book on optimism in conservation

Bapna (2012) *Sustainability is key to development goals* Nature **489** p367 more on the debate between conservation and poverty

Barbier (2012) *The Green Economy post Rio+20* some interesting ideas on what is easy to achieve and what is more difficult and what are the trade offs?

Biermann et al (2012) *Navigating the Anthropocene: improving the Earth system governance* Science **335** p1306 - a preview of Rio+20 and the politics of conservation

Bloom, D. (2011) *7 billion and counting* Science **333** p562 An interesting take on the relationship between wealth and population growth

Nature News (2012) *One-fifth of invertebrate species at risk of extinction* Nature News 3 September 2012 - despite the poor recording of inverts it has been extrapolated that 20% are threatened by IUCN criteria

Brodie, J. et al. (2010) *How to conserve the tropics as they warm* Nature **468** p634 Fire awareness is important

Brosi & Biber (2012) *Citizen involvement in the US Endangered Species Act* Science **337** p802 local people are better at identifying where the threats are than scientists

Callmander, M.W. et al. (2005) *IUCN Red List assessment and the Global Strategy for Plant Conservation: taxonomists must act now* Taxon **54(4)** p1047 Taxonomists can provide good data quickly if asked

Cardelus (2012) *Uniting church and the science for conservation* Science **335** p916 - the role of the church in Ethiopia in conservation and the value of biodiversity

Chase, M. et al. (2011) *Science and development of government policy post-Global Strategy for Plant Conservation: lessons for the future* Botanical Journal of the Linnean Society **166(3)** p213 There are lots of important papers in this special edition of the Bot J Linn Soc. at <http://onlinelibrary.wiley.com/doi/10.1111/boj.2011.166.issue-3/issuetoc>

Cressey, D. (2011) *Commercially valuable fish species hit the red list* Nature Published online 7 July 2011 | Nature | doi: 10.1038/news.2011.398 over fishing of tuna

Cressey (2012) *Global biodiversity priced at \$76 billion* Nature News 11 October 2012 interesting based on McArthur

Davidson, E.A. (2012) *The Amazon basin in transition* Nature **481** p321 Nice work on the various pressures and how they interact.

Editorial (2011) *Seeing REDD* Nature **472** p390 The rights of indigenous people

Editorial (2011) *A paler shade of green* Nature **477** p249 The failure of President Obama to protect conservation

Editorial (2012) *Social dimensions to biodiversity* Nature **488** p429 - the work of the **NEW** Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES) - science *and* sociology are needed

Editorial (2012) *Back to Earth* Nature **486** p5 - looking at how the world has changed in the 20 years since the CBD was signed in Rio

Ehrlich (2012) *Securing natural capital and expanding equity to rescale civilisation* Nature **486** p68 - Interesting overview and the conservation of ecosystem services in China

Species Conservation - 3rd year option **REFERENCE LIST LECTURE 5/16**

- Florens (2013) *Going to bat for an endangered species* Science **336** p1101 - how protection for threatened bats in Mauritius is being lifted so that the bats can be culled for eating fruit
- Foley, J.A. *et al.* (2011) *Solutions for a cultivated planet* Nature **478** p337 A big paper on how to change agricultural output to solve the gap between need and production of food
- Gilbert, N. (2010) *Can conservation cut poverty?* Nature **467** p264 Asks more questions than it answers
- Gilbert, N. (2010) *Biodiversity hope faces extinction* Nature **467** p764 - the interface between economics and conservation
- Gilbert (2012) *Green protests on the rise in China* Nature **488** p261 - prosperity is helping conservation
- Gilbert (2012) *World governments establish biodiversity panel* Nature News 23 April 2012 - the IPBES is established in Bonn with \$13M
- Gilbert (2012) *Indonesian deforestation ban makes slow progress* Nature News 31 May 2012 - the heart of Borneo project is making slow progress
- Gong, P. (2011) *China needs no foreign help to feed itself* Nature **474** p7. The Chinese can be self sufficient in food which gives them a huge competitive advantage and this is due to population control and economic growth
- Gong *et al* (2012) *Limits to religious conservation efforts* Science **338** p740 Buddhists and conservation in Burma
- Hertwich (2012) *Remote responsibility* Nature **486** p36 - a summary of Lenzen *et al.* linking extinctions with trade by several different routes
- Hof, C. *et al.* (2011) *Additive threats from pathogens, climate and land-use change for global amphibian diversity* Nature **480** p516
- HM Government (2011) *The Natural Choice: securing the value of nature* Government White Paper - important ideas with which to beat Governments in the future.
- Ives, A.R. and Carpenter, S.R. (2007) *Stability and diversity of ecosystems* Science **317** p58 Important paper on this controversial area with interesting definitions and examples of stability, perturbations and how numbers of individuals and taxonomic diversity are affected
- Jepson, P. *et al.* (2011) *Entertainment Value: should the media pay for nature conservation?* Science **334** p1351 A strange idea that if you raise awareness of the beauty of nature you should have to pay back some of your earnings
- Kew (2010) *Plants under pressure - global assessment* - the first report of the IUCN sampled red list index for plants with some reliable figures for extinction rates
- Kinzig, A.P. *et al.* (2011) *Paying for ecosystem services - promise and peril* Science **334** p603 Payment mechanisms for conserving ecosystem services - interesting ideas
- Laurance, W. (2010) *Better governance to save rain-forests* Nature **467** p789 Foreign businesses can create problems
- Ledford, H. (2011) *US plant scientists seek united front* Nature **477** p259 better planning for research priorities and sticking to them
- Lenzen *et al.* (2012) International trade drives biodiversity threats in developing nations Nature **486** p109 - despite CITES trade is still a major threat to native and exotic species
- Leslie, H.M. (2011) *A roadmap to nature's benefits* Science **332** p1264 Review of new book on valuing ecosystem services
- Marshall (2012) *Protected sea lions gorge on threatened salmon* Nature News 22 August 2012 - nice example of how biology is not black and white and that difficult decisions have to be made
- Martinelli, L.A. and Moutinho, P. (2010) *Commodities for export still threaten rain-forests in Brazil* Nature **467** p271 A practical example of the tension between farming and conservation
- McCarthy *et al.* (2012) *Financial costs of meeting global biodiversity conservation targets: current spending & unmet needs* Science **338** p946 Real data based on the conservation of birds - conservation is expensive. There is a follow-up correspondence about this paper in Science **339** p270-272

Species Conservation - 3rd year option REFERENCE LIST LECTURE 5/16

- Michalski, F. (2010) *No return from biodiversity loss* Nature **329** p1282 The problem of legislating for the conservation and preservation of privately owned woodlands
- Mooney, H. and Mace G. (2009) *Biodiversity policy challenges* Science **325** p1474 Conservation needs an international panel of experts like the one for climate change
- Nature Special Edition (2012) *Rio+20* 26th June 2012 lots of information and 7th June 2012 with much data
- Nature Special Edition (2012) *After Kyoto* Nature **491** p658 Very interesting data on emissions and many many other factors related to climate change
- Nayar, A. (2010) *World gets 2020 vision for conservation* Nature **468** p14 An interesting comparison with Normile
- Normile, D. (2010) *UN biodiversity summit yields welcome and unexpected progress* Science **330** p742 An interesting report that begrudgingly accepts that the CBD meetings do make change happen
- Osoimehin, B. (2011) *Population and development* Science **333** p499 Human rights, poverty and conservation
- Pereira et al. (2013) *Essential Biodiversity values* Science **339** p277 - how to deliver regular, up to date, accurate data on biodiversity parameters
- Perrings, C. et al. (2010) *Ecosystem services for 2020* Science **330** p323 The 20 CBD targets of 2020 and number one is public awareness
- Perrings, C. et al. (2011) *The biodiversity and ecosystem services science-policy interface* Science **331** p1139 Research priorities should follow agreements like the UN millennium development goals.
- Plantlife (2012) *Wild plant horizons* on line from Plantlife website. where the GSPC 20 is going up to 2020 in the UK
- Qui, J. (2011) *China to spend billions cleaning up groundwater* Science **334** p745 90% of China's shallow groundwater is polluted costing \$23B in illness per annum
- Rahbek & Colwell (2011) *Species loss revisited* Nature **473** p288 a summary of a paper in the same issue that tries to find the link between habitat loss and species extinctions
- Rands, M. et al. (2010) *Biodiversity conservation: challenges beyond 2010* Science **329** p1298 and important paper for all the lectures in this course
- Reid, W.V. et al. (2010) *Earth system science control for global sustainability: grand challenges* Science **330** p916
- Sachs, J.D. et al. (2009) *Biodiversity conservation and the millennium development goals* Science **325** p1502 A classic short paper making a big point that wealth does not result in conservation
- Science News (2012) *Doubling Biodiversity Aid* Science **338** p448 \$10 billion for conservation
- Schindel, D. (2010) *Biology without borders* Nature **467** p779 The reality of commitment to benefit sharing
- Schmidt (2012) *As isolation ends, Myanmar faces new ecological risks* Science **796** there is some good news from Burma despite the political situation
- Simons, C. (2011) *Uncertain future for tropical ecology* Science **332** p298 Using less qualified field workers can boost the amount of good data - using volunteers & locals and fewer post docs
- Stokstad, E. (2010) *Despite progress, biodiversity declines* Science **329** p1272 Some good and bad news and nice graphics
- Stokstad, E. (2011) *Appraising UK ecosystems, report envisions greener horizon* Science **332** p1139 The UK ecosystem assessment based on the UN Millennium Development Goals. It puts prices on millennium services. There are other important papers cited in this one
- Soule, M.E. and Sanjayan, M.A. (1998) *Ecology: Conservation Targets: Do they help?* Science **279** p2060 - interesting but depressing and provocative
- Togtokh, C. (2011) *Time to stop celebrating the polluters* Nature **479** p269 Including sustainability in a measure of quality of life brings developed countries out of the top 10

Species Conservation - 3rd year option **REFERENCE LIST LECTURE 5/16**

Tollefson (2011) *A new eye on Biodiversity* Nature **474** p13 - remote sensing to analyse vegetation changes

Tollefson (2012) *What's at stake in Doha climate talks* Nature News 23 November 2012. Latest on climate change talks

Tollefson & Gilbert (2012) *Rio Report Card* Nature **486** p20 - looking at how legislation has developed since 1992 and how much progress has been made in form of a school report.

Turnhout et al (2012) *Listen to the voices of experience* Nature **488** p454 the rules of engagement for the new IPBES and information about this new group

Vance (2012) *Mexico passes climate-change law* Nature News 23 April 2012 - Like the UK Mexico now has legally binding targets for emissions 35% of energy from renewables by 2024 and reduction in CO₂ emissions by 30% by 2020 & by 50% by 2050

Vorosmarty, C.J. et al. (2010) *Global threats to human water security and river biodiversity* Nature **467** p555 The link between the threat to water security and biodiversity loss

Weaver, A.J. (2011) *Toward the second commitment period of the Kyoto protocol* Science **332** p795 This looks at the role of "black-carbon" which is the soot released from burning

Weins (2012) *Time to accept conservation triage* Nature **488** p281 - 80% of endangered spp in USA are threatened by threats that cannot be removed, only controlled

White, A. (2011) *Cash alone will not slow forest carbon emissions* Nature **471** p267 More money goes into farming subsidies than conservation & so land is worth more for farming than conservation

Zakaib, G.D. (2011) *Smart-REDD plan targets causes of deforestation* Nature Published online 29 May 2011 | Nature | doi:10.1038/news.2011.331 Realistic prices have to be paid to conserve virgin woodland