(Akbari, Menon, & Rosenfeld, 2009; Angel, 2006; Barrett, 2008; Bazzaz, 1990; Blackstock & Long, 2010; Bower, Choularton, Latham, Sahraei, & Salter, 2006; Boyd, 2008; Caldeira & Wickett, 2003, 2005; Cao & Caldeira, 2008; Clarke et al., 2007; Crutzen, 2006; Cullen & Boyd, 2008; Drake, González-Meler, & Long, 1997; Elliott et al., 2001; Falkowski et al., 2000; Fleming, 2010; Fujino, Nair, Kainuma, Masui, & Matsuoka, 2006; Goldemberg & Guardabassi, 2009; Bala Govindasamy & Caldeira, 2000; B. Govindasamy, Caldeira, & Duffy, 2003; B. Govindasamy, Duffy, & Taylor, 2008; B. Govindasamy, Thompson, Duffy, Caldeira, & Delire, 2002; Hamwey, 2007; Hansen, 2005; Hare & Meinshausen, 2006; Harvey, 2008; Hibbard, Meehl, Cox, & Friedlingstein, 2007; Hijioka, Matsuoka, Nishimoto, Masui, & Kainuma, 2008; IPCC, 2005, 2007; Karl & Letelier, 2008; D. Keith, Ha-Duong, & Stolaroff, 2006; D. W. Keith, Parson, & Morgan, 2010; Kleypas et al., 1999; Knutti & Hegerl, 2008; Lampitt et al., 2008; Latham, 1990; Latham et al., 2008; Law, 2008; Timothy M Lenton, 2010; Timothy M. Lenton, 2011; Timothy M. Lenton & Schellnhuber, 2007; T. M. Lenton & Vaughan, 2009; Long, 1991; Lovelock & Rapley, 2007; Lunt, Ridgwell, Valdes, & Seale, 2008; Macintosh, 2010; Matthews & Caldeira, 2007; Meehl et al., 2007; Meinshausen et al., 2006; Meinshausen et al., 2009; Meinshausen, Raper, & Wigley, 2011; Meinshausen, Smith, & et al., in prep.; Meinshausen, Wigley, & Raper, 2011; Moss et al., 2010; Nakicenovic et al., 2000; NAS, 1992; Orr et al., 2005; Osborn, Raper, & Briffa, 2006; Pearson, Oldson, & Levin, 2006; Rajagopal, Sexton, Roland-Holst, & Zilberman, 2007; Raper, Wigley, & Warrick, 1996; Riahi, Grubler, & Nakicenovic, 2007; Ridgwell, Singarayer, Hetherington, & Valdes, 2009; Robock, 2008; Rogelj et al., 2010; Ross & Matthews, 2009; Salter, Sortino, & Latham, 2008; Scott, Vaughan, & Forster, 2011; Shepherd et al., 2009; Stenchikov et al., 2006; Stenchikov et al., 2002; Tilmes, Müller, & Salawitch, 2008; Trenberth & Dai, 2007; UN FCCC, 1992; D. van Vuuren et al., 2007; D. P. Van Vuuren et al., 2008; Vaughan & Lenton, 2011; T. Wigley et al., 2009; T. M. L. Wigley, 2006; T.M.L. Wigley, 2008; T. M. L. Wigley & Raper, 1992, 2001; Wingenter, Elliot, & Blake, 2007; Zeman, 2007; Zhou & Flynn, 2005)

Akbari, H., Menon, S., & Rosenfeld, A. (2009). Global cooling: increasing world-wide urban albedos to offset CO2. *Climatic Change, 94*(3), 275-286. doi: 10.1007/s10584-008-9515-9

Angel, R. (2006). Feasibility of cooling the Earth with a cloud of small spacecraft near the inner Lagrange point (L1). *Proceedings of the National Academy of Sciences, 103*(46), 17184-17189. doi: 10.1073/pnas.0608163103

Barrett, S. (2008). The Incredible Economics of Geoengineering. *Environmental and Resource Economics, 39*(1), 45-54. doi: 10.1007/s10640-007-9174-8

Bazzaz, F. A. (1990). The Response of Natural Ecosystems to the Rising Global CO2 Levels. *Annual Review of Ecology and Systematics, 21*(1), 167-196. doi: doi:10.1146/annurev.es.21.110190.001123

Blackstock, J. J., & Long, J. C. S. (2010). The Politics of Geoengineering. *Science, 327*(5965), 527. doi: 10.1126/science.1183877

Bower, K., Choularton, T., Latham, J., Sahraei, J., & Salter, S. (2006). Computational assessment of a proposed technique for global warming mitigation via albedo-enhancement of marine stratocumulus clouds. *Atmospheric Research, 82*(1-2), 328-336.

Boyd, P. W. (2008). Implications of large-scale iron fertilization of the oceans. *Marine Ecology Progress Series, 364*, 213-218.

Caldeira, K., & Wickett, M. E. (2003). Oceanography: Anthropogenic carbon and ocean pH. *Nature, 425*(6956), 365.

Caldeira, K., & Wickett, M. E. (2005). Ocean model predictions of chemistry changes from carbon dioxide emissions to the atmosphere and ocean. *J. Geophys. Res., 110*(C9), C09S04. doi: 10.1029/2004jc002671

Cao, L., & Caldeira, K. (2008). Atmospheric CO2 stabilization and ocean acidification. *Geophys. Res. Lett., 35*(19), L19609. doi: 10.1029/2008gl035072

Clarke, L., Edmonds, J., Jacoby, H., Pitcher, H., Reilly, J., & Richels, R. (2007). Scenarios of Greenhouse Gas Emissions and Atmospheric Concentrations. Sub-report 2.1A of Synthesis and Assessment Product 2.1 *US Climate Change Science Program and the Subcommittee on Global Change Research, Department of Energy, Office of Biological & Environmental Research* (pp. 154 pp.). Washington D.C., USA.

Crutzen, P. J. (2006). Albedo enhancement by stratospheric sulphur injections: A contribution to resolve a policy dilemma? *Climatic Change, 77*(3-4), 211–219.

Cullen, J. J., & Boyd, P. W. (2008). Predicting and verifying the intended and unintended consequences of large-scale ocean iron fertilization. *Marine Ecology Progress Series, 364*, 295-301.

Drake, B. G., González-Meler, M. A., & Long, S. P. (1997). MORE EFFICIENT PLANTS: A Consequence of Rising Atmospheric CO2? *Annual Review of Plant Physiology and Plant Molecular Biology, 48*(1), 609-639. doi: doi:10.1146/annurev.arplant.48.1.609

Elliott, S., Lackner, K. S., Ziock, H. J., Dubey, M. K., Hanson, H. P., Barr, S., . . . Blake, D. R. (2001). Compensation of atmospheric CO2 buildup through engineered chemical sinkage. *Geophys. Res. Lett., 28*(7), 1235-1238. doi: 10.1029/2000gl011572

Falkowski, P., Scholes, R. J., Boyle, E., Canadell, J., Canfield, D., Elser, J., . . . Steffen, W. (2000). The Global Carbon Cycle: A Test of Our Knowledge of Earth as a System. *Science, 290*(5490), 291-296. doi: 10.1126/science.290.5490.291

Fleming, J. R. (2010). *Fixing the sky : the checkered history of weather and climate control*. New York: Columbia University Press.

Fujino, J., Nair, R., Kainuma, M., Masui, T., & Matsuoka, Y. (2006). Multi-gas Mitigation Analysis on Stabilization Scenarios Using AIM Global Model. *Energy J., 3*(Special Issue), 343-354.

Goldemberg, J., & Guardabassi, P. (2009). Are biofuels a feasible option? *Energy Policy, 37*(1), 10-14.

Govindasamy, B., & Caldeira, K. (2000). Geoengineering Earth's radiation balance to mitigate CO2-induced climate change. *Geophys. Res. Lett., 27*(14), 2141-2144. doi: 10.1029/1999gl006086

Govindasamy, B., Caldeira, K., & Duffy, P. B. (2003). Geoengineering Earth's radiation balance to mitigate climate change from a quadrupling of CO2. *Global and Planetary Change, 37*(1-2), 157-168.

Govindasamy, B., Duffy, P. B., & Taylor, K. E. (2008). Impact of geoengineering schemes on the global hydrological cycle. *Proceedings of the National Academy of Sciences, 105*(22), 7664-7669. doi: 10.1073/pnas.0711648105

Govindasamy, B., Thompson, S., Duffy, P. B., Caldeira, K., & Delire, C. (2002). Impact of geoengineering schemes on the terrestrial biosphere. *Geophys. Res. Lett., 29*(22), 2061. doi: 10.1029/2002gl015911

Hamwey, R. (2007). Active Amplification of the Terrestrial Albedo to Mitigate Climate Change: An Exploratory Study. *Mitigation and Adaptation Strategies for Global Change, 12*(4), 419-439. doi: 10.1007/s11027-005-9024-3

Hansen, J. E. (2005). A slippery slope: how much global warming constitutes ‘dangerous anthropogenic interference’? *Climatic Change, 68*, 269-279.

Hare, B., & Meinshausen, M. (2006). How Much Warming are We Committed to and How Much can be Avoided? *Climatic Change, 75*(1), 111-149. doi: 10.1007/s10584-005-9027-9

Harvey, L. D. D. (2008). Mitigating the atmospheric CO2 increase and ocean acidification by adding limestone powder to upwelling regions. *J. Geophys. Res., 113*(C4), C04028. doi: 10.1029/2007jc004373

Hibbard, K. A., Meehl, G. A., Cox, P., & Friedlingstein, P. (2007). A strategy for climate change stabilization experiments. *Eos, 88*(20), 217, 219, 221.

Hijioka, Y., Matsuoka, Y., Nishimoto, H., Masui, M., & Kainuma, M. (2008). GlobalGHG emissions scenarios under GHG concentration stabilization targets. *J. Glob. Environ. Eng., 13*, 97-108.

IPCC. (2005). IPCC Special Report on Carbon Dioxide Capture and Storage *Prepared by Working Group III of the Intergovernmental Panel on Climate Change [Metz, B., O. Davidson, H. C. de Coninck, M. Loos, and L. A. Meyer (eds.)]*. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, 442 pp.

IPCC. (2007). Climate Change 2007: Synthesis Report. In P. Core Writing Team, R.K. and Reisinger, A. (eds.) (Ed.), *Contribution of Working Groups I, II and III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* (pp. 104pp). Geneva, Switzerland: IPCC.

Karl, D. M., & Letelier, R. M. (2008). Nitrogen fixation-enhanced carbon sequestration in low nitrate, low chlorophyll seascapes. *Marine Ecology Progress Series, 364*(257-268).

Keith, D., Ha-Duong, M., & Stolaroff, J. (2006). Climate Strategy with CO2 Capture from the Air. *Climatic Change, 74*(1), 17-45. doi: 10.1007/s10584-005-9026-x

Keith, D. W., Parson, E., & Morgan, M. G. (2010). Research on global sun block needed now. *Nature, 463*(7280), 426-427.

Kleypas, J. A., Buddemeier, R. W., Archer, D., Gattuso, J.-P., Langdon, C., & Opdyke, B. N. (1999). Geochemical Consequences of Increased Atmospheric Carbon Dioxide on Coral Reefs. *Science, 284*(5411), 118-120. doi: 10.1126/science.284.5411.118

Knutti, R., & Hegerl, G. C. (2008). The equilibrium sensitivity of the Earth's temperature to radiation changes. *Nature Geoscience, 1*(11), 735-743.

Lampitt, R. S., Achterberg, E. P., Anderson, T. R., Hughes, J. A., Iglesias-Rodriguez, M. D., Kelly-Gerreyn, B. A., . . . Yool, A. (2008). Ocean fertilization: a potential means of geoengineering? *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences, 366*(1882), 3919-3945. doi: 10.1098/rsta.2008.0139

Latham, J. (1990). Control of global warming? *Nature, 347*(6291), 339-240.

Latham, J., Rasch, P., Chen, C.-C., Kettles, L., Gadian, A., Gettelman, A., . . . Choularton, T. (2008). Global temperature stabilization via controlled albedo enhancement of low-level maritime clouds. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences, 366*(1882), 3969-3987. doi: 10.1098/rsta.2008.0137

Law, C. S. (2008). Predicting and monitoring the effects of large-scale ocean iron fertilization on marine trace gas emissions. *Marine Ecology Progress Series, 364*, 283-288.

Lenton, T. M. (2010). The potential for land-based biological CO2 removal to lower future atmospheric CO2 concentration. *Carbon Management, 1*(1), 145-160. doi: doi:10.4155/cmt.10.12

Lenton, T. M. (2011). Beyond 2°C: redefining dangerous climate change for physical systems. *Wiley Interdisciplinary Reviews: Climate Change, 2*(3), 451-461. doi: 10.1002/wcc.107

Lenton, T. M., & Schellnhuber, H. J. (2007). Tipping the scales. *Nature Publishing Group*(0712), 97-98.

Lenton, T. M., & Vaughan, N. E. (2009). The radiative forcing potential of different climate geoengineering options. *Atmos. Chem. Phys. Discuss., 9*(1), 2559-2608.

Long, S. P. (1991). Modification of the response of photosynthetic productivity to rising temperature by atmospheric CO2 concentrations: Has its importance been underestimated? *Plant, Cell & Environment, 14*(8), 729-739. doi: 10.1111/j.1365-3040.1991.tb01439.x

Lovelock, J. E., & Rapley, C. G. (2007). Ocean pipes could help the Earth to cure itself. *Nature, 449*(403), 403.

Lunt, D. J., Ridgwell, A., Valdes, P. J., & Seale, A. (2008). ‘‘Sunshade World’’: A fully coupled GCM evaluation of the climatic impacts of geoengineering. *Geophys. Res. Lett., 35*(12), L12710. doi: 10.1029/2008gl033674

Macintosh, A. (2010). Keeping warming within the 2ºC limit after Copenhagen. *Energy Policy, 38*(6), 2964-2975.

Matthews, H. D., & Caldeira, K. (2007). Transient climate-carbon simulations of planetary geoengineering. *Proceedings of the National Academy of Sciences, 104*(24), 9949-9954. doi: 10.1073/pnas.0700419104

Meehl, G. A., Stocker, T. F., Collins, W., Friedlingstein, P., Gaye, A., Gregory, J., . . . Co-authors. (2007). Global climate projections. In D. Q. S. Solomon, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller, Eds. (Ed.), *Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* (pp. 747-846). Cambridge.

Meinshausen, M., Hare, B., Wigley, T., Van Vuuren, D., Den Elzen, M., & Swart, R. (2006). Multi-gas Emissions Pathways to Meet Climate Targets. *Climatic Change, 75*(1), 151-194. doi: 10.1007/s10584-005-9013-2

Meinshausen, M., Meinshausen, N., Hare, W., Raper, S. C. B., Frieler, K., Knutti, R., . . . Allen, M. R. (2009). Greenhouse-gas emission targets for limiting global warming to 2ºC. *Nature, 458*(7242), 1158-1162.

Meinshausen, M., Raper, S. C. B., & Wigley, T. M. L. (2011). Emulating coupled atmosphere-ocean and carbon cycle models with a simpler model, MAGICC6 – Part 1: Model description and calibration. *Atmos. Chem. Phys., 11*(4), 1417-1456.

Meinshausen, M., Smith, S., & et al. (in prep.). The RCP greenhouse gas concentrations and their extension from 1765 to 2500. *Climate Change*(Special RCP Issue).

Meinshausen, M., Wigley, T. M. L., & Raper, S. C. B. (2011). Emulating atmosphere-ocean and carbon cycle models with a simpler model, MAGICC6 – Part 2: Applications. *Atmos. Chem. Phys., 11*(4), 1457-1471.

Moss, R. H., Edmonds, J. A., Hibbard, K. A., Manning, M. R., Rose, S. K., van Vuuren, D. P., . . . Wilbanks, T. J. (2010). The next generation of scenarios for climate change research and assessment. *Nature, 463*(7282), 747-756.

Nakicenovic, N., Alcamo, J., Davis, G., de Vries, B., Fenhann, J., Gaffin, S., . . . Dadi, Z. (2000). Special Report on Emissions Scenarios. In N. Nakicenovic & R. Swart (Eds.), *Cambridge Univ. Press*. Cambridge.

NAS. (1992). *Policy Implications of Greenhouse Warming: Mitigation, Adaptation, and the Science Base*. Washington, D.C: National Academy Press.

Orr, J. C., Fabry, V. J., Aumont, O., Bopp, L., Doney, S. C., Feely, R. A., . . . Yool, A. (2005). Anthropogenic ocean acidification over the twenty-first century and its impact on calcifying organisms. *Nature, 437*(7059), 681-686.

Osborn, T., Raper, S., & Briffa, K. (2006). Simulated climate change during the last 1,000 years: comparing the ECHO-G general circulation model with the MAGICC simple climate model. *Climate Dynamics, 27*(2), 185-197. doi: 10.1007/s00382-006-0129-5

Pearson, J., Oldson, J., & Levin, E. (2006). Earth rings for planetary environment control. *Acta Astronautica, 58*(1), 44-57.

Rajagopal, D., Sexton, S. E., Roland-Holst, D., & Zilberman, D. (2007). Challenge of biofuel: filling the tank without emptying the stomach? *Environmental Research Letters, 2*(4), 044004.

Raper, S. C. B., Wigley, T. M. L., & Warrick, R. A. (1996). Global Sea- level Rise: Past and Future. In J. Milliman & B. Haq (Eds.), *Sea-level rise and coastal subsidence: causes, consequences, and strategies* (pp. 11-45). Dordrecht, The Netherlands: Kluwer Academic Publishers.

Riahi, K., Grubler, A., & Nakicenovic, N. (2007). Scenarios of long-term socio-economic and environmental development under climate stabilization. *Technological Forecasting and Social Change, 74*(7), 887-935.

Ridgwell, A., Singarayer, J. S., Hetherington, A. M., & Valdes, P. J. (2009). Tackling Regional Climate Change By Leaf Albedo Bio-geoengineering. *Current Biology, 19*(2), 146-150.

Robock, A. (2008). 20 reasons why geoengineering may be a bad idea. *Bulletin of the Atomic Scientists, 64*(2), 14-59.

Rogelj, J., Nabel, J., Chen, C., Hare, W., Markmann, K., Meinshausen, M., . . . Hohne, N. (2010). Copenhagen Accord pledges are paltry. *Nature, 464*(7292), 1126-1128.

Ross, A., & Matthews, H. D. (2009). Climate engineering and the risk of rapid climate change. *Environ. Res. Lett., 4*(4), 045103.

Salter, S., Sortino, G., & Latham, J. (2008). Sea-going hardware for the cloud albedo method of reversing global warming. *Phil Trans R Soc A, 366*(1882), 3989-4006.

Scott, C., Vaughan, N., & Forster, P. (2011). *Potential temperature induced carbon-cycle feedbacks from solar radiation management geoengineering*. Paper presented at the EGU General Assembly 2011. <http://meetingorganizer.copernicus.org/EGU2011/EGU2011-718.pdf>

Shepherd, J., Cox, P., Haigh, J., Keith, D., Launder, B., Mace, G., . . . Watson, A. (2009). Geoengineering the Climate: Science, Governance and Uncertainty. In The Royal Society (Ed.). London.

Stenchikov, G., Hamilton, K., Stouffer, R. J., Robock, A., Ramaswamy, V., Santer, B., & Graf, H.-F. (2006). Arctic Oscillation response to volcanic eruptions in the IPCC AR4 climate models. *J. Geophys. Res., 111*(D7), D07107. doi: 10.1029/2005jd006286

Stenchikov, G., Robock, A., Ramaswamy, V., Schwarzkopf, M. D., Hamilton, K., & Ramachandran, S. (2002). Arctic Oscillation response to the 1991 Mount Pinatubo eruption: Effects of volcanic aerosols and ozone depletion. *J. Geophys. Res., 107*(D24), 4803. doi: 10.1029/2002jd002090

Tilmes, S., Müller, R., & Salawitch, R. (2008). The Sensitivity of Polar Ozone Depletion to Proposed Geoengineering Schemes. *Science, 320*(5880), 1201-1204. doi: 10.1126/science.1153966

Trenberth, K. E., & Dai, A. (2007). Effects of Mount Pinatubo volcanic eruption on the hydrological cycle as an analog of geoengineering. *Geophys. Res. Lett., 34*(15), L15702. doi: 10.1029/2007gl030524

UN FCCC. (1992). *United Nations Framework Convention on Climate Change*. Retrieved from <http://unfccc.int/essential_background/convention/background/items/2853.php>.

van Vuuren, D., den Elzen, M., Lucas, P., Eickhout, B., Strengers, B., van Ruijven, B., . . . van Houdt, R. (2007). Stabilizing greenhouse gas concentrations at low levels: an assessment of reduction strategies and costs. *Climatic Change, 81*(2), 119-159. doi: 10.1007/s10584-006-9172-9

Van Vuuren, D. P., Meinshausen, M., Plattner, G.-K., Joos, F., Strassmann, K. M., Smith, S. J., . . . Reilly, J. M. (2008). Temperature increase of 21st century mitigation scenarios. *Proceedings of the National Academy of Sciences, 105*(40), 15258-15262. doi: 10.1073/pnas.0711129105

Vaughan, N., & Lenton, T. (2011). A review of climate geoengineering proposals. *Climatic Change*, 1-46. doi: 10.1007/s10584-011-0027-7

Wigley, T., Clarke, L., Edmonds, J., Jacoby, H., Paltsev, S., Pitcher, H., . . . Smith, S. (2009). Uncertainties in climate stabilization. *Climatic Change, 97*(1), 85-121. doi: 10.1007/s10584-009-9585-3

Wigley, T. M. L. (2006). A Combined Mitigation/Geoengineering Approach to Climate Stabilization. *Science, 314*(5798), 452-454. doi: 10.1126/science.1131728

Wigley, T. M. L. (2008). MAGICC/SCENGEN 5.3: user manual (Version 2). Retrieved 18/02/2011, 2011, from <http://www.cgd.ucar.edu/cas/wigley/magicc/UserMan5.3.v2.pdf>

Wigley, T. M. L., & Raper, S. C. B. (1992). Implications for climate and sea level of revised IPCC emissions scenarios. *Nature, 357*(6376), 293-300.

Wigley, T. M. L., & Raper, S. C. B. (2001). Interpretation of High Projections for Global-Mean Warming. *Science, 293*(5529), 451-454. doi: 10.1126/science.1061604

Wingenter, O. W., Elliot, S. M., & Blake, D. R. (2007). New Directions: Enhancing the natural sulfur cycle to slow global warming. *Atmospheric Environment, 41*(34), 7373-7375.

Zeman, F. (2007). Energy and Material Balance of CO2 Capture from Ambient Air. *Environmental Science & Technology, 41*(21), 7558-7563. doi: 10.1021/es070874m

Zhou, S., & Flynn, P. (2005). Geoengineering Downwelling Ocean Currents: A Cost Assessment. *Climatic Change, 71*(1), 203-220. doi: 10.1007/s10584-005-5933-0