



Climate Change and Global Tourism: A Research Compendium

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ACSBD Working Paper No. 3 Climate Change and Global Tourism

Climate Change and Global Tourism: A Research Compendium

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1. Climate Change and Global Tourism: Review of Key Events and Research *Heather Zeppel*

'Tourism is a significant contributor to climate change' (Simpson et. al., 2008: 66)

This research compendium lists all current publications in English relevant to climate change and global tourism. It covers articles, books and reports published from 1985 through to July 2011. The articles were located through keyword searches (i.e. climate change; carbon emissions/footprint) of tourism journals; major tourism organisations (e.g. WTC, WTTC, PATA, ETC); academic publishers; key databases (i.e. Google Scholar, OAlster, Scopus); environmental agencies; and research centres. This comprehensive review of published research about tourism and climate change provides a wide range of global case studies about the impacts of climate change on key tourism sectors and regions. These cover both adaptation and mitigation responses to climate change by the tourism industry.

This research compendium follows the UNEP and World Tourism Organization definitions of climate change keywords relevant to global tourism (Table 1). This includes climate change itself ('any change in climate over time'); adaptation ('adjustment in natural or human systems'); mitigation ('intervention to reduce greenhouses gases'); carbon neutrality and carbon offsetting. This research review of climate change and tourism also highlights 'both adaptation and mitigation measures are essential to ensure the sustainable development of tourism' (Simpson et. al., 2008: 110).

Table 1. Definitions of climate change keywords relevant to global tourism (UNEP & WTO)

Adaptation: <i>Adjustment in natural or human systems in response to actual or expected climatic stimuli or their effects, which moderates harm or exploits beneficial opportunities.</i> (p. 123)
Carbon Neutrality: <i>The entire set of policies that an institution or business uses when it estimates its known greenhouse gas emissions, takes measures to reduce them, and purchases carbon offsets to "neutralize" those emissions that remain.</i> (p. 67)
Carbon Offsetting: <i>The process by which an amount of greenhouse gas emissions equal to that caused by a certain activity, e.g. a flight, is reduced, or offset, elsewhere.</i> (p. 124)
Climate Change: <i>Climate change refers to any change in climate over time, whether due to natural variability or as a result of human activity.</i> (p. 124)
Mitigation: <i>An anthropogenic [human] intervention to reduce the output or enhance the sinks of greenhouse gases.</i> (p. 126)

Source: Simpson et. al. 2008 *Climate change adaptation and mitigation in the tourism sector: Frameworks, tools and practices*. UNEP, WTO

This research compendium profiles 25 years of research about climate change and global tourism. Part 2 lists key studies about climate change in international tourism; responses by tourism organisations; climate change impacts and issues for accommodation and aviation, carbon footprints and carbon offsetting; and tourist perceptions. Part 3 lists research about climate change impacts on key tourism sectors such as alpine tourism, coral reef tourism, events, protected areas, summer recreation, and wildlife tourism. Part 4 lists climate change research for key tourism destinations by geographic region (i.e. Africa, Caribbean, Central America, Europe, Mediterranean, South America, South Asia, South East Asia, South Pacific); or country (i.e. Australia, Canada, China, NZ, USA etc).

Global awareness about the impacts of climate change has been growing since the early 1990s (Table 2). The Intergovernmental Panel on Climate Change (IPCC) has issued four global assessment reports (1990, 1995, 2001 & 2007). The United Nations Framework Convention on Climate Change (UNFCCC) was created in 1992 with the Kyoto Protocol for reducing emissions coming into force in 2005. Europe's Emission Trading Scheme (ETS) also began in 2005, with aviation to/from/within Europe to be included from 2012. The World Tourism Organization (WTO) has also hosted two international conferences on climate change and tourism, leading to the Djerba Declaration (2003) and Davos Declaration (2007). Other WTO climate initiatives include an expert team on climate issues (2006), a Resolution (2007), minister's summits (2007/08), and a Climate Commitment (2009).

Table 2. Major events related to climate change and global tourism, 1990-2012

<i>Climate change-related events</i>	<i>Tourism & climate change initiatives (WTO)</i>
1990: First IPCC assessment report	1996: Agenda 21 for Travel & Tourism
1992: Creation of the UNFCCC	2003: First International Conference on Climate Change and Tourism
1992: Second Earth Summit Rio de Janeiro	2003: Djerba Declaration on Climate Change and Tourism
1995: Second IPCC assessment report	2006: Expert Team on Climate and Tourism
1997: Kyoto Protocol launched by UNFCCC	2007: Second International Conference on Climate Change and Tourism
1999: IPCC report on aviation & the global atmosphere	2007: Davos Declaration on CC & Tourism
2001: Third IPCC assessment report	2007: WTO Climate & Tourism Information Exchange Service launched
2002: Third Earth Summit Johannesburg	2007: WTO Resolution on Tourism & CC
2005: Kyoto Protocol enters into force	2007/08: Minister's Summit-Tourism & CC
2005: European Emissions Trading Scheme started	2008: World Tourism Day theme on CC
2007: Fourth IPCC assessment report	2008: PATA CEO Challenge on CC & tourism
2007: UNFCCC COP 13 held in Bali, Indonesia	2008: Hotel Energy Solutions Project launch
2008-2012: Kyoto Protocol 1st commitment period	2009: WTO Climate Commitment
2008: UNFCCC COP 14 held in Poznan, Poland	2009: WTTC report on Climate Change
2009: UNFCCC COP 15 held in Copenhagen, Denmark	2007/09/10: WTO side event COP 13/15/16
2009: UN Leadership Summit on Climate Change	
2010: UNFCCC COP 16 held in Cancun, Mexico	
2012: Aviation included in European Union ETS	

Source: Based on Becken & Hay, 2007; WTO, 2009 *From Davos to Copenhagen & beyond: Advancing tourism's response to climate change*.

Notes: IPCC=Intergovernmental Panel on Climate Change; WTO=World Tourism Organization; UNFCCC=United Nations Framework Convention on Climate Change; COP=Conference of Parties; PATA=Pacific Asia Travel Association; UN=United Nations; ETS=Emissions Trading Scheme; WTTC=World Travel & Tourism Council

Global tourism contributes 5%-14% of greenhouse gas emissions from air travel, ground transport, accommodation, and activities (Table 3), not including the energy used to construct tourist facilities. Transport accounts for 75% of tourism emissions, mainly from air travel, while accommodation is 20% of the tourism footprint. 'By 2035, under a "business as usual" scenario, carbon dioxide emissions from global tourism are projected to increase by 130%' (WTO, 2009: 2). Energy efficiency, renewable energy and cleaner fuels are key areas to reduce global and national tourism emissions.

Table 3. Key facts on global tourism emissions

- CO₂(Mt): Air Transport (517), Other Transport (468), Accommodation (274), Activities (45), TOTAL (1,307 MtCO₂-2005); Total World 26,400, Tourism Share of CO₂ is 4.95% (WTO, 2007)
- Air travel, adding a multiplier of 2.7 to 517Mt, yields tourism emissions of 8.2% in 2005
- Global tourism will double from 2005 to 2020, thus increasing tourism CO₂ emissions to 16%
- Excluding aviation, CO₂ emissions from global tourism will grow at 2.5% per year until 2035
- Tourism air travel accounts for 60-90% of a trip's CO₂ emissions (Gosling et. al., 2005)
- Transport accounts for 75% of tourism emissions; Aviation is 40% of total tourism footprint
- Long-haul air travel is 2.7% of all tourism trips but contributes 17% of tourism CO₂ emissions
- Rail and coach travel is 34% of all tourism trips but 13% of all tourism emissions (WEF, 2009)
- Ocean cruising (34 MtCO₂), <5% global shipping emissions, 191% increase by 2035
- Global accommodation (284 MtCO₂), 20% of tourism footprint, 156% increase by 2035
- By 2035, CO₂ emissions from global tourism are projected to increase by 130% (WTO, 2009)
- WTTC aspiration to reduce total tourism CO₂ emissions by 2035 by 50% from 2005 levels
- 40 CEOs committed to 25-30% reduction by 2020 on tourism emission of 2005 (WTTC, 2009)
- Four countries aiming for carbon neutral tourism: Costa Rica, Maldives, Norway, Sri Lanka

Sources: Gosling et. al., 2005; WEF, 2009; WTO, 2007 *Climate change & tourism-responding to global challenges*; WTO, 2009; WTTC, 2009

The WTO Davos Declaration supported mitigation of emissions and adaptation to climatic change by the tourism sector. Climate change mitigation includes technological, economic and social changes or substitutions to reduce greenhouse gas emissions from travel and tourism. This involves reducing energy, water and waste (i.e. eco-efficiency) along with low carbon travel products or activities. Mitigation measures mainly focus on transport, accommodation, tour operators and destinations. This compendium lists reports and articles about mitigation measures and carbon offsetting tourism. Adaptation to climate change includes additional actions or activities by tourism enterprises to deal with the operational risks from climate variability or extreme weather events. Table 4 lists key tourism adaptation strategies for coping with higher temperatures, sea level rises and varied rainfall.

Table 4. Impacts of climate change and tourism adaptation strategies

<i>Impacts of climate change</i>	<i>Tourism adaptation strategies</i>
<u>Higher temperatures</u>	
Reduced snow cover	Artificial snow making, Extend ski operations to higher altitudes, Re-design ski slopes, Cancel ski tourism, Promote non-snow winter activities, Build attractions (ice rink, spa), Develop all year tourism (i.e. summer activities), Insurance, Open higher-elevation ski runs, Levelling out ski slopes, Closures of lower altitude ski resorts, Subsidies for cableway operators to keep ski fields open
Increased coral bleaching	Extend operations to other reefs, Close affected reef areas, Use covers & water jets over reefs, Assist reef propagation, Cancel dive tourism, Promote other reef tourism activities, Reduce impacts of ocean pollution, Ban fishing & coral collection on reefs
Hotter days	Install air conditioners, Room fans, Hotel pools, Beach umbrellas, Develop artificial indoor beaches, Provide drinking water, Skin sun protection, Promote water-based or cool indoor activities, Plant more trees for shade & cool buildings, Avoid summer travel
Increased cyclones/hurricanes	Heed cyclone warnings, Protect properties, Build to cyclone standards, Trim tree branches, Evacuate guests, Close damaged resorts, Disaster insurance, Visit alternative areas
<u>Higher sea levels</u>	
Increased coastal erosion/inundation	Build coastal protection (sea/rock wall, groyne, dyke), Replenish beach sand (trucks, pumping), Close damaged beach areas, Closure of coastal resorts, Rebuild beach infrastructure, Revegetate/plant soil-binding vegetation in coastal areas, Protect & maintain coastal native vegetation communities, Disaster insurance, Build coastal levees, Improve drainage & pumping systems, Ban development in at-risk zones, Establish building set-back limits well above mean sea-level
<u>Rainfall variability</u>	
Drought	Increased water storage, Recycle water, Desalination, Encourage minimal water use by guests, Purchase water, Limit or set quotas on water use, Use trickle irrigation, Repair leaks, Use timers on taps, Drought-tolerant plants
Reduced river flow	Reduce or cancel water activities, Relocate to other rivers, Build artificial watercourses, Release water from dams, Promote other outdoor activities, Closure of water sports
Reduced water in dams	Reduce or cancel water activities, Relocate to other dams, Promote other outdoor activities, Closure of water sports
Floods	Build on higher ground, Install levees, dykes & drainage systems, Disaster insurance, Enhanced flood design & site standards, Install pumping systems, Closure of flood-affected resorts, Close areas prone to flooding, Use alternative routes or areas

Source: Author & based on Becken & Hay, 2007

The WTO has produced eight major reports about climate change and tourism from 2003-2009 (Table 5). Other key reports by environmental, business or tourism groups also cover climate and tourism, low carbon travel, travel emissions, carbon offsetting, air transport and tourism operators. The organisations producing these reports about global tourism and climate change include the Centre for Sustainable Tourism (USA); World Economic Forum; The International Ecotourism Society; Deutsche Bank; Centre for Marine and Climate Research (Germany); Tufts University; Stockholm Environment Institute (Sweden); Ecumenical Coalition on Tourism (Thailand); The Icarus Foundation (Canada); Research and Markets; University of East Anglia (UK); UNESCO; World Travel and Tourism Council; WWF; and Naturefriends International. These reports highlight the global nature of the tourism industry and the impacts of travel emissions ranging from aviation to World Heritage sites.

Table 5. Key reports on global tourism and climate change

Centre for Sustainable Tourism. (2009). <i>Climate, weather and tourism: Bridging science and practice</i> .
Chiesa, T. & Gautam, A. (2009). <i>Towards a low carbon travel & tourism sector</i> . World Economic Forum.
Driscoll, L., Mansfield, C. & Strasdas, W. (2007). <i>Nature tour operators' attitudes and actions concerning travel related greenhouse gas emissions</i> . The International Ecotourism Society.
Ehmer, P. & Heyman, E. (2008). <i>Climate change and tourism: Where will the journey take us?</i> Deutsche Bank.
Hamilton, J., Maddison, D. & Tol, R. (2004). <i>The effects of climate change on international tourism</i> .
Kollmuss, A. & Bowell, B. (2007). <i>Voluntary offsets for air-travel carbon emissions</i> . Tufts University.
Kollmuss, A. & Lane, J. (2008). <i>Carbon offsetting & air travel</i> . Stockholm Environment Institute.
Mathew, P. & McKeown, J. (2010). <i>Disaster prevention in tourism: Perspectives on climate justice</i> . ECOT.
Pollock, A. (2008). <i>The climate change challenge: Implications for the tourism industry</i> . Icarus Foundation.
Research and Markets. (2007). <i>Tourism and climate change international 2007</i> . Research and Markets.
Scott, D. & Lemieux, C. (2009). <i>Weather and climate information for tourism</i> . WMO & WTO.
Scott, D. et. al. (2007). <i>Climate change and tourism: Responding to global challenges</i> . WTO & UNEP.
Simpson et. al. (2008). <i>Climate change adaptation and mitigation in the tourism sector</i> . UNEP, WTO, WMO.
Todd, G. (2003). <i>WTO background paper on climate change and tourism</i> . WTO.
Travel Foundation. (2006). <i>Insider guide. Climate change and tourism – a guide for managers</i> .
Viner, D. & Agnew, M. (1999). <i>Climate change and its impact on tourism</i> . University of East Anglia.
World Heritage Centre. (2007). <i>Climate change and World Heritage</i> . Report no. 22. UNESCO.
WTO. (2003). <i>Climate change and tourism: 1st International Conference on Climate Change & Tourism</i> . WTO.
WTO. (2007). <i>Tourism, air transport and climate change – a WTO discussion paper</i> .
WTO. (2007). <i>Climate change and tourism: Responding to global challenges</i> .
WTO. (2009). <i>From Davos to Copenhagen & beyond: Advancing tourism's response to climate change</i> . WTO.
WTO. (2009). <i>Discussion paper on climate change mitigation measures for international air transport</i> . WTO.
World Travel & Tourism Council. (2009). <i>Leading the challenge on climate change</i> . WTTC.
WWF. (2002). <i>Holiday footprinting – a practical guide for responsible tourism</i> . WWF.
Zotz, A. (2010). <i>The role of tour operators in climate change mitigation</i> . Naturefriends International & RIITD

There are nine textbooks that focus specifically on climate change and tourism issues. These address tourism and recreation (Hall & Higham, 2005); risks and opportunities (Becken & Hay, 2007); assessment and coping strategies (Amelung et. al., 2007); winter tourism in the European Alps (Agrawala, 2007); climate change mitigation (Peeters, 2007); disaster prevention and climate justice (D'Mello, McKeown, & Minninger, 2009); climate change issues and actions (Schott, 2010); coastal tourism destinations (Jones & Phillips, 2010); and carbon management (Gossling, 2010). There have also been seven special issues of journals, five in tourism, that focus on climate change and tourism impacts. These special journal issues include: *Asia Pacific Journal of Tourism Research* (2012); *Journal of Sustainable Tourism* (2006 & 2010); *Journal of Transport Geography* (2010); *Tourism Planning and Development* (2009 & 2010); and *World Climate News* (2005). Climate change and tourism has been the focus of some 13 international or European/UK conferences since 2001 (Table 6). The global climate tourism conferences were hosted by the International Society of Biometeorology (2001); WTO (2003, 2007, 2009); OECD (2006); UNEP (2008); University of Brighton (2009); and the Carbon Neutral Destination Network (2011). Tourism conferences since 2007 focus on low carbon travel.

Table 6. Key conferences on global tourism and climate change

2001	<i>First International Workshop on Climate, Tourism & Recreation</i> , International Society of Biometeorology
2003	<i>First International Conference on Climate Change and Tourism</i> , World Tourism Organization
2003	<i>Climate Change, the Environment & Tourism: The Interactions</i> , ESF-LESC Workshop Climate Research Unit
2004	<i>Workshop on Climate, Tourism and New Zealand</i> , Landcare Research, New Zealand.
2006	<i>Wengen 2006 Workshop: Adaptation to the Impacts of Climate Change in the European Alps</i> , OECD
2006	<i>ECLAT Climate Change and Tourism Conference: Tourism and Climate Change Mitigation</i> , Netherlands
2007	<i>Second International Conference on Climate Change and Tourism</i> , World Tourism Organization
2007	<i>UK Tourism in a Low Carbon World</i> , Natural England & UK Energy Research Centre
2008	<i>Climate Change Adaptation and Mitigation in the Tourism Sector: Frameworks, Tools and Practices</i> , UNEP
2009	<i>Travel and Tourism in the Green Economy Symposium</i> , WTO, European Travel Commission & VisitSweden
2009	<i>Travel & Tourism in the Age of Climate Change</i> , University of Brighton UK
2010	<i>Climate Change, the Economic Crisis and Tourism: ClimAlpTour Conference</i> , CMCC Italy
2011	<i>Carbon Neutral Destinations Conference Series</i> , Carbon Neutral Destination Network, Malaysia

Selected travel, business, environmental, and research groups have further website resources about climate change impacts on tourism (Table 7). Information about climate change issues is included on the websites of key tourism organisations (i.e. European Travel Commission, PATA, WTO, WTTC). Other tourism NGOs focus on climate justice and tourism (i.e. ECOT, Equations, IIPT), or on how the travel industry and tourists can reduce their carbon emissions (i.e. Planeta, Icarus Foundation, Travel Foundation, TICOS). Some websites focus on specific mitigation initiatives for reducing energy use in tourism (i.e. Hotel Energy Solutions & Renewable Energy in Tourism Initiative). Research agencies that address climate change impacts on tourism include STCRC (Australia) and Landcare (NZ). In Europe, climate tourism reports are produced by Fondazione Eni Enrico Mattei (Italy), and the Euro-Mediterranean Centre for Climate Change, with a focus on winter tourism impacts in the Alps.

Table 7. Key websites about global tourism and climate change

Carbon Neutral Destinations Network.	http://www.carbonneutraldestinations.com/web/
Climalptour. [Europe].	http://www.climalptour.eu/content/
Ecumenical Coalition on Tourism (ECOT).	http://www.ecotonline.org/programs-/tourism-climate-change
Equations. Climate justice and tourism.	http://www.equitabletourism.org/stage/event.php?AID=455
European Travel Commission. Climate and tourism.	http://www.etc-corporate.org/
Hotel Energy Solutions.	http://www.hotelenergysolutions.net/
International Institute of Peace through Tourism.	http://www.iipt.org/pdf/TourismDevandClimateChange.pdf
Pacific Asia Travel Association (PATA). Footprints.	http://www.pata.org/Footprints
Planeta. Tourism and climate change.	http://www.planeta.com/climate.html
Renewable Energy in Tourism Initiative.	http://128.138.178.59/practices.html
Sustainable Tourism (STCRC). Climate change.	http://www.sustainabletourisonline.com/climate-change
The Icarus Foundation [Canada].	http://theicarusfoundation.com/
The Travel Foundation [UK].	http://www.thetravelfoundation.org.uk/
Tourism Industry Carbon Offset Service (TICOS).	http://www.ticos.co.uk/index.html
United Nations Environment Program. Green passport-climate change.	http://www.unep.fr/greenpassport/
World Tourism Organization (WTO).	http://www.unwto.org/climate/index.php

By tourism sector, the published research mainly focuses on climate change impacts on alpine tourism and snow sports (n=134), mainly in Europe, North America (Canada & USA) and Australia. Other research examines climate change impacts of aviation (n=120), and on protected areas (n=73). Recent research addresses climate change issues for coral reef tourism (n=39), mainly in the Great Barrier Reef, Australia. There is some research on climate change impacts for events (n=41) and accommodation (n=46), but little on summer recreation or wildlife tourism. By geographic region, most climate tourism research is completed in Europe, North America, Australia and New Zealand.

Table 8. Published research about climate change and global tourism, 1985 to July, 2011

<i>Tourism sector</i>	<i>(No. of publications)</i>	<i>Tourism region</i>	<i>(No. of publications)</i>
Accommodation	(46)	Africa	(24)
Aviation	(120)	Asia	(40)
Alpine tourism	(134)	Caribbean	(37)
Coral reef tourism	(39)	Europe & Mediterranean	(232: 209/23)
Events	(41)	Latin America	(15)
Protected areas	(73)	North America (Canada/USA)	(137: 80/57)
Summer recreation	(17)	Oceania (Australia/NZ)	(215: 127/88)
Wildlife tourism	(4)	South Pacific	(27)

This research compendium provides a worldwide list of publications on climate change and tourism. It provides a wide range of global case studies about climate change impacts and responses for key tourism sectors and regions. In doing so, it seeks to assist and advance tourism research on climate change. It also furthers the WTO goal in the 2003 Davos Declaration ‘for adaptation- and mitigation-related initiatives in all aspects of tourism practice’ (WTO, 2008: 110). In particular, it covers both global and locally-specific research and evaluation of adaptation and mitigation activities in tourism. Key areas of focus and also gaps in research about climate change impacts on tourism are identified. The existing research focuses on regions (e.g. mountains, coast, islands) and destinations or activities (i.e. snow sports) that are vulnerable to the impacts of climate change on the tourism industry. It also covers climate change innovations through technology, low carbon products and green markets. This research review found only a few destinations has climate change policies, plans or programs. Global, national, regional, local and specific tourism industry responses to climate change were listed but collaboration between industry sectors, environmental and business agencies was also needed. Building the capacity of tourism to respond to climate change issues and impacts is a key challenge.

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2. CLIMATE CHANGE AND INTERNATIONAL TOURISM

2.1 Climate Change and International Tourism

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3. CLIMATE CHANGE IMPACTS ON KEY TOURISM SECTORS

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