

Editorial

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## Who is Who in Carbon Balance and Management 2006

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### Abstract

This editorial provides a subject index from published articles, active researchers, and published papers in the field of carbon balance and management.

### Background

Developing a policy relevant understanding of the global carbon cycle requires a high degree of interdisciplinarity. Therefore, research published in *Carbon Balance and Management* involves cutting across disciplines and consulting with specialists in various fields. This editorial is to support an interdisciplinary effort with relevant bibliographic information [see Additional file 1] including a source of names to consult with and a list of subjects that may appear in the papers. Terms may differ depending on context.

### Subject index

This list of words and wordings [see Additional file 2], selected from the articles published in the first volume of the journal, represents the phraseology of carbon cycle science. It was compiled to provide help in searching relevant web resources. This list is also presented below together with links to the articles where a given subject is treated or mentioned.

ability to retain organic carbon [14]

acceptable climate change [6]

acid neutralizing capacity of seawater [4]

acid-base balance [2]

acid-base imbalances in marine organisms [2]

activity data [9]

actual country-specific information [9]

adverse conditions [6]

afforestation [15,134]

agriculture sector [9]

alkalinity [2]

allocation of carbon [6]

anomalies in atmospheric CO<sub>2</sub> increase [7]

anomalous CO<sub>2</sub> flux [7]

anomalously extreme climate [6]

Anthropocene [3,4]

anthropogenic emissions [7]

Asia region [9]

- atmosphere-ice-ocean carbon cycle model [2]
- atmospheric CO<sub>2</sub> concentrations [2,5,88]
- average surface temperature [2]
- baseline energy consumption from air-conditioning [12]
- baseline value for SOC [14]
- biologically mediated pH changes [2]
- biosphere simulation model [6]
- burnt biomass [7]
- calcareous shells [2]
- capacity to absorb anthropogenic CO<sub>2</sub> [5]
- capacity to act as sinks [3]
- carbon budgets [7,11,85,133]
- carbon conserving practices [4]
- carbon cycle feedbacks [3,42,44,49,50,81]
- carbon emissions [8,11]
- carbon fertilisation [6,53,55]
- carbon flows [8]
- carbon flux anomalies [7]
- carbon fluxes [3,7,8,17,46,55,65]
- Carbon Management Education [13]
- carbon price incentive schemes [15]
- carbon sequestration [4,15,107,134,135]
- carbon sink [5,45,73]
- carbon stocks in forest biomass [15]
- carbon tax [15]
- carbon uptake [5-7,15,36,49]
- carelessness feedback [4]
- cation exchange capacity [14]
- change of vegetation type [6]
- changes in the moisture regime [3]
- changes in weather patterns [6]
- Cities for Climate Change Program [11]
- climate change [2,6,14,18,40,43,44,46,49,58,60,81,108,134,136]
- climate change feedbacks on the carbon chemistry [2]
- climate policy [5]
- climate scenario [6]
- CO<sub>2</sub> biological pump [2]
- CO<sub>2</sub> emissions in the commercial sector [12]
- CO<sub>2</sub> uptake by the ocean [2,34]
- collapse of the Amazonian rain forest [6]
- compensating effects [2,3]
- compensatory mechanisms [6]
- consumption activities [9]
- conversion of natural lands [8]
- country-specific emission factors [9]
- coupled atmosphere-ocean mode [2]
- cover fraction of major vegetation types [6]
- current forest cover [15]
- data set [7,8,34,63,133]
- dead organic matter [8]
- decline in boreal forest area [6]
- decline in forest area [6]
- decrease in pH due to ocean warming [2]
- decrease of biomass [6]
- decreases in transpiration [6]

- decreasing rainfall [6]
- default activity data [9]
- default emission factors [9]
- deforestation [6,15,134]
- deforestation emissions [15]
- deforestation tax [15]
- desertification [14]
- DIC concentrations [2]
- direct anthropogenic emission of CO<sub>2</sub> [8]
- direct effects of ocean warming [2]
- direct human influence [5]
- direct injection of carbon into the deep ocean [4]
- dissolution of exoskeletal components [2]
- disturbance in terrestrial ecosystems [3]
- disturbances of the global carbon cycle [7]
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- Dynamic Global Vegetation Models [6,43,48,61,70]
- dynamics of terrestrial ecosystems [3]
- ecological modernization [11]
- ecosystem physiology [3]
- eddy covariance measurements [7]
- EEZ [5]
- EEZ carbon sink [5]
- effect of income [11]
- effects of temperature and precipitation [7]
- embedded carbon [11]
- emission factors [9,12]
- emission reduction targets [12]
- emission sources [9,105,106]
- emissions reduction target [11]
- emitting mechanisms from sources [9]
- energy consumption in typical offices [12]
- energy savings potential [12]
- energy usage within buildings [12]
- energy use [11]
- enhanced litter production [6]
- enhanced plant growth [3]
- environmental regulations [11]
- environmental stress [6]
- estimation methods [9]
- exceptionally dry years [6]
- Exclusive Economic Zone [5]
- expanding land use [6]
- extended dry seasons [7]
- extent of ocean acidification [2]
- feedbacks and non-linearities [8]
- feedbacks and nonlinearities [3]
- feedbacks between climate and vegetation [6]
- financial mechanisms [15]
- fire control in forests [4]
- forest [3,6,14,15,17,51,54,55,57,75,79,119,133]
- forest degradation [15]
- forest expansion [15]
- fossil fuel consumption [4]
- fuelwood production [15]
- full carbon budgets for cities [11]

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- geoengineering strategies [4]
- geographical pattern of vegetation [6]
- geologic sequestration [4]
- GHG inventories [9]
- global carbon trading [5]
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- greenhouse gas emission scenario [6]
- greenhouse gas emissions [11]
- greenhouse gas inventories [9,12]
- guidelines of the Intergovernmental Panel on Climate Change [9]
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- heating, ventilating, and air conditioning [12]
- heterotrophic respiration [7]
- holistic view of the carbon cycle [3]
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- institutional impacts [11]
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- invariant allocation of carbon gains [6]
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- IPCC guidelines [9]
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- Kyoto Protocol [4,5,134]
- land ecosystems [6]
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- Land Use, Land-Use Change and Forestry [9]
- land-use change [11]
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- leaf nitrogen contents [6]
- living biomass [8]
- locally appropriate levers for carbon management [13]
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- long term means to store CO<sub>2</sub> [4]
- lower wet season precipitation [7]
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- mitigation and adaptation policies [6]
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- modernization effect [11]
- Montreal Protocol [9]
- national carbon accounts [5]
- national communications [9]
- national greenhouse gas inventories [11]
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- net carbon loss [6]
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The list of names cited in the first volume of the journal provides some information about the research community involved in the study of the global carbon cycle either directly or indirectly. This information is intended for those who are considering *Carbon Balance and Management* as a medium for conveying their findings and evaluating whether they would be of sufficiently immediate interest to researchers in the broad range of disciplines associated with the studies of the global carbon cycle.

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## Additional material

### Additional File 1

*References to the journal articles cited in the first volume of the journal. This file is formatted for importing references into a reference database.*  
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