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Nitrogen Newsletter is a summary of recent publications, news and reports related to the cycling, effects and management of nitrogen. Prepared by Mary O’Brien and Jana Compton.

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Special Issues

Atmospheric Environment, 44(37), December 2010. ISSN 1352-2310.
Transport Impacts on Atmosphere and Climate: The ATTICA Assessment Report
Edited by Robert Sausen.

Ecosystems, 13(8), December 2010. ISSN 1432-9840.

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Adsorption dynamics and equilibrium studies of nitrate onto various soils


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Influence of ammonium and nitrate supply on growth, dry matter partitioning, N uptake and photosynthetic capacity of Pinus radiata seedlings 
http://dx.doi.org/10.1007/s00468-010-0482-1

Brookshire, E. N. Jack, Stefan Gerber, Jackson R. Webster, James M. Vose, and Wayne T. Swank. 
Direct effects of temperature on forest nitrogen cycling revealed through analysis of long-term watershed records 
http://dx.doi.org/10.1111/j.1365-2486.2010.02245.x

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http://dx.doi.org/10.5194/acp-10-11115-2010

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[http://dx.doi.org/10.1073/pnas.1000780107](http://dx.doi.org/10.1073/pnas.1000780107)

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Li, H., M. Sivapalan, F. Tian, and D. Liu.
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[http://dx.doi.org/10.1016/j.marenvres.2010.07.001](http://dx.doi.org/10.1016/j.marenvres.2010.07.001)

**A mesocosm study using four native Hawaiian plants to assess nitrogen accumulation under varying surface water nitrogen concentrations**  
[http://dx.doi.org/10.2166/wst.2010.501](http://dx.doi.org/10.2166/wst.2010.501)

**Nitrate response of a lowland catchment: On the relation between stream concentration and travel time distribution dynamics**  
[http://dx.doi.org/10.1029/2010WR009105](http://dx.doi.org/10.1029/2010WR009105)

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**Nitrogen versus phosphorus limitation in a subtropical coastal embayment (Moreton Bay; Australia): Implications for management**
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**News**

**Cultivated organic soils are a net source of greenhouse gases**
Faculty of Agricultural Sciences, Aarhus University, News, Published Monday 27 December 2010.

For BNA subscribers (including EPA staff):

**Chesapeake Bay: EPA issues ‘biggest-ever' TMDL in plan to clean up Bay with watershed-wide action**
*Daily Environment Report*, December 30, 2010
http://news.bna.com.desktoplib.epa.gov/deln/DELNWBSplit_display.adp?fedfid=18906304&vname=dennotallissues&wsn=498004500&searchid=13410862&doctypeid=1&typedate&mode=doc&split=0&scm=DELNWBPg=0

**Chesapeake Bay: bay health improved, but recovery requires big cuts in nutrients, sediment, CBF says**
*Daily Environment Report*, December 29, 2010
Sustainability: EPA told innovative, flexible methods key to sustainable environmental protection
Daily Environment Report, December 15, 2010

Climate change: Interior announces completion of methodology for measuring natural carbon sequestration
Daily Environment Report, December 14, 2010

Natural resources: Changes still being made to omnibus lands, water bill in Senate; no word on schedule
Daily Environment Report, December 13, 2010

Air pollution: United States seeking controls on ship emissions off Caribbean islands
Daily Environment Report, December 8, 2010

Water pollution: Florida sues to block implementation of EPA's numeric water quality standards
Daily Environment Report, December 8, 2010

For Greenwire subscribers (including EPA staff):

Chesapeake Bay: EPA accepts N.Y. cleanup plan for nutrient runoff
Greenwire, December 20, 2010

Water pollution: N.J. legislation would limit nutrient runoff
Greenwire, December 14, 2010
Chesapeake Bay: Agriculture industry disputes math EPA used to draw up new pollution rules
Greenwire, December 10, 2010
http://www.eenews.net.desktoplib.epa.gov/Greenwire/2010/12/10/archive/21

For Inside EPA subscribers (including EPA staff):

EPA to add ‘backstops’ to state plans for Chesapeake Bay cleanup
Daily News, December 29, 2010

Advisers query EPA bid to set upstream nutrient limits for Florida's coast
Water Policy Report, December 20, 2010

DOD questions EPA authority to expand stormwater program under CWA
Water Policy Report, December 20, 2010

EPA faces rush of lawsuits over landmark nutrient criteria for Florida
Inside EPA, December 17, 2010

EPA readies for next round in battle over Florida's nutrient limits
Inside EPA, December 10, 2010

Farmers seek Chesapeake TMDL ‘timeout’
The Inside Story, December 9, 2010

Activists praise improvements to States' Chesapeake Bay cleanup plans
Water Policy Report, December 6, 2010

Bolstering EPA efforts, USDA plans to strengthen nutrient guide for farms
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U. S. Environmental Protection Agency
Chesapeake Bay TMDL executive summary

Chesapeake Bay Foundation
2010 State of the Bay


A method for assessing carbon stocks, carbon sequestration, and greenhouse-gas fluxes in ecosystems of the United States under present conditions and future scenarios

Web Pages

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[http://sites.nationalacademies.org/PGA/sustainability/EPA/index.htm](http://sites.nationalacademies.org/PGA/sustainability/EPA/index.htm)
Source: National Academies of Sciences, Science and Technology for Sustainability Program.

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Source: U.S. Environmental Protection Agency, Office of Transportation and Air Quality.
