

Contents Volume 68 2004

Volume 68 No 1 March 2004

| | |
|--|---------|
| M.J. CLARK, M.S. CRESSER, R. SMART, P.J. CHAPMAN & A.C. EDWARDS / The influence of catchment characteristics on the seasonality of carbon and nitrogen species concentrations in upland rivers of Northern Scotland | 1–19 |
| G. FRIEDL, C. TEODORU & B. WEHRLI / Is the Iron Gate I reservoir on the Danube River a sink for dissolved silica? | 21–32 |
| CHERIE J. WESTBROOK & KEVIN J. DEVITO / Gross nitrogen transformations in soils from uncut and cut boreal upland and peatland coniferous forest stands | 33–50 |
| SHEILA M. PALMER, CHARLES T. DRISCOLL & CHRIS E. JOHNSON / Long-term trends in soil solution and stream water chemistry at the Hubbard Brook Experimental Forest: relationship with landscape position | 51–70 |
| PAMELA A. GREEN, CHARLES J. VÖRÖSMARTY, MICHEL MEYBECK, JAMES N. GALLOWAY, BRUCE J. PETERSON & ELIZABETH W. BOYER / Pre-industrial and contemporary fluxes of nitrogen through rivers: a global assessment based on typology | 71–105 |
| BRITT D. HALL, VINCENT L. ST. LOUIS & R.A. (DREW) BODALY / The stimulation of methylmercury production by decomposition of flooded birch leaves and jack pine needles | 107–129 |
| Erratum | 131–133 |

Volume 68 No 2 April (I) 2004

| | |
|--|---------|
| SUZANNE M. THOMAS, CHRISTOPHER NEILL, LINDA A. DEEGAN, ALEX V. KRUSCHE, VICTORIA M. BALLESTER & REYNALDO L. VICTORIA / Influences of land use and stream size on particulate and dissolved materials in a small Amazonian stream network | 135–151 |
| CARLOS M. DUARTE, ANNA LUCEA & MORTEN SØNDERGAARD / The effect of nutrient additions on the partitioning of nutrients in an experimental coastal Mediterranean system | 153–167 |
| DOUGLAS A. FRANK, R. DAVID EVANS & BENJAMIN F. TRACY / The role of ammonia volatilization in controlling the natural ¹⁵ N abundance of a grazed grassland | 169–178 |
| KURT S. PREGITZER, DONALD R. ZAK, ANDREW J. BURTON, JENNIFER A. ASHBY & NEIL W. MACDONALD / Chronic nitrate additions dramatically increase the export of carbon and nitrogen from northern hardwood ecosystems | 179–197 |

| | |
|--|---------|
| GRAHAM P. GREEN, ERICK A. BESTLAND & G. STEWART WALKER / Distinguishing sources of base cations in irrigated and natural soils: evidence from strontium isotopes | 199–225 |
| T.W. BIGGS, T. DUNNE & L.S. MARTINELLI / Natural controls and human impacts on stream nutrient concentrations in a deforested region of the Brazilian Amazon basin | 227–257 |
| MICHAEL R. WILLIAMS, SOLANGE FILOSO & PAUL LEFEBVRE / Effects of land-use change on solute fluxes to floodplain lakes of the central Amazon | 259–275 |

Volume 68 No 3 April (II) 2004

| | |
|--|---------|
| NATACHA BRION, WILLY BAEYENS, SANDRA DE GALAN, MARC ELSKENS & REMY W.P.M. LAANE / The North Sea: source or sink for nitrogen and phosphorus to the Atlantic Ocean? | 277–296 |
| PAULA KANKAALA, ANNE OJALA & TIINA KÄKI / Temporal and spatial variation in methane emissions from a flooded transgression shore of a boreal lake | 297–311 |
| RUTH E. LEY, MARK W. WILLIAMS & STEVEN K. SCHMIDT / Microbial population dynamics in an extreme environment: controlling factors in talus soils at 3750 m in the Colorado Rocky Mountains | 313–335 |
| DANIEL L. WELSCH, DOUGLAS A. BURNS & PETER S. MURDOCH / Processes affecting the response of sulfate concentrations to clearcutting in a northern hardwood forest, Catskill Mountains, New York, U.S.A. | 337–354 |
| HANS HULTBERG & MARTIN FERM / Temporal changes and fluxes of sulphur and calcium in wet and dry deposition, internal circulation as well as in run-off and soil in a forest at Gårdsjön, Sweden | 355–364 |
| C.A. RUSSELL, K.R. KOSOLA, E.A. PAUL & G.P. ROBERTSON / Nitrogen cycling in poplar stands defoliated by insects | 365–381 |
| STEPHEN D. SEBESTYEN & REBECCA L. SCHNEIDER / Seepage patterns, pore water and aquatic plants: hydrological and biogeochemical relationships in lakes | 383–409 |
| R.E. TURNER, Q. DORTCH & N.N. RABALAIS / Inorganic nitrogen transformations at high loading rates in an oligohaline estuary | 411–422 |
| Instructions for Authors | 423–431 |
| Authors Index | 433 |
| Volume Contents | 435–436 |