

Volume 145 No. 1 January 2007 ISSN 0269-7491

ENVIRONMENTAL POLLUTION

EDITOR-IN-CHIEF

W.J. Manning

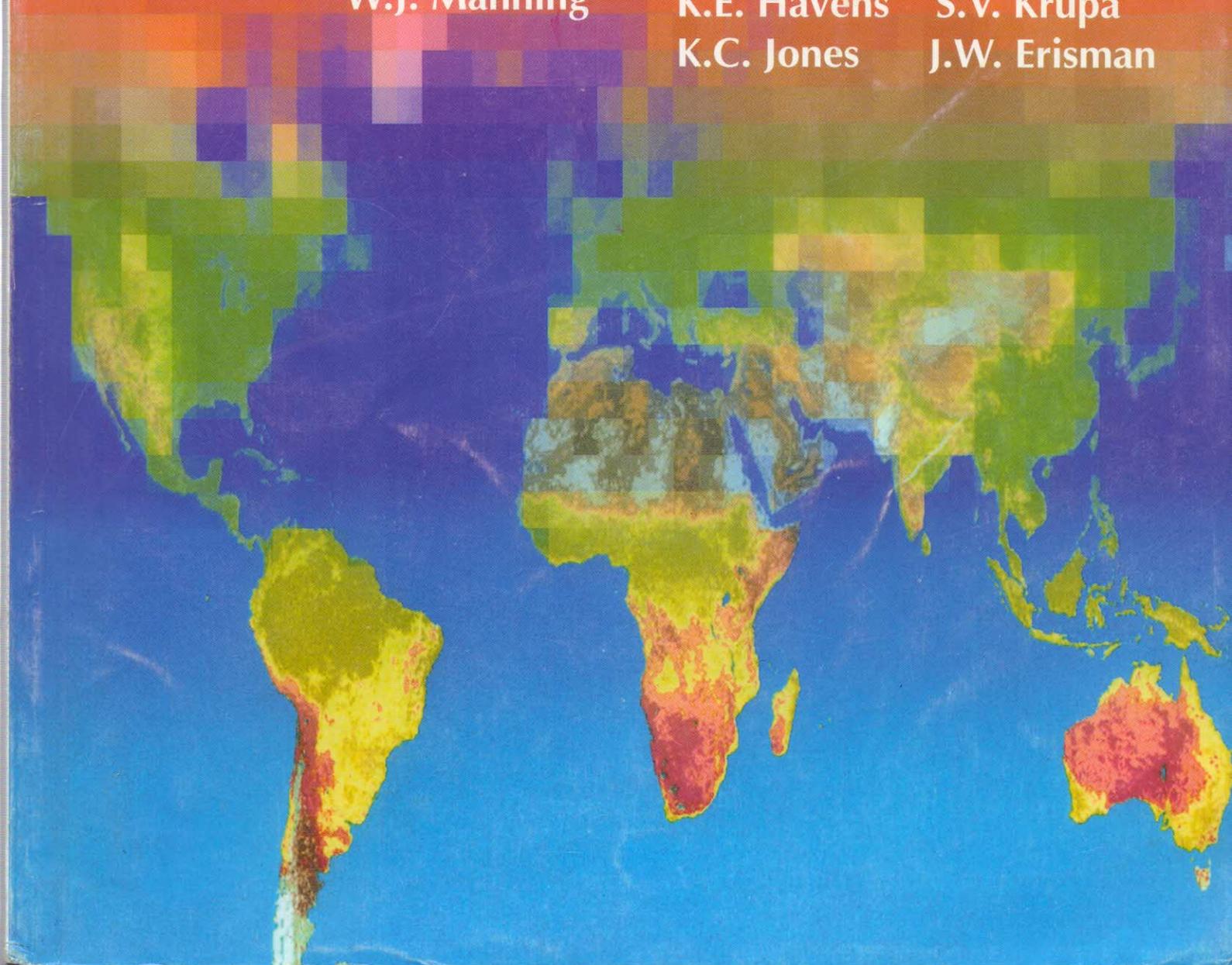
ASSOCIATE EDITORS

K.E. Havens

S.V. Krupa

K.C. Jones

J.W. Erisman



CONTENTS

Volume 145 Number 1 2007

- 1 Copper activity in soil solutions of calcareous soils**
A.A. Ponizovsky, H.E. Allen, A.J. Ackerman
Copper activity in contaminated calcareous soils is controlled by surface precipitated CuCO_3 with log ion activity product of -15.51 .
- 7 Bioaccumulation of lead, mercury, and cadmium in the greater white-toothed shrew, *Crocidura russula*, from the Ebro Delta (NE Spain): Sex- and age-dependent variation**
A. Sánchez-Chardi, M.J. López-Fuster, J. Nadal
Bioaccumulation patterns of Pb and Hg reveal sex and age-related differences in the large bones of the greater white-toothed shrew from a polluted Mediterranean wetland.
- 15 Antimony distribution and mobility in topsoils and plants (*Cytisus striatus*, *Cistus ladanifer* and *Dittrichia viscosa*) from polluted Sb-mining areas in Extremadura (Spain)**
A.M. Murciego, A.G. Sánchez, M.A.R. González, E.P. Gil, C.T. Gordillo, J.C. Fernández, T.B. Triguero
Bioaccumulation of antimony in vegetal species growing in mining areas.
- 22 Residual inorganic soil nitrogen in grass and maize on sandy soil**
H.F.M. Ten Berge, S.L.G.E. Burgers, H.G. Van der Meer, J.J. Schröder, J.R. Van der Schoot, W. Van Dijk
The study shows how residual inorganic soil N relates to apparent N recovery.
- 31 Long-term fate of exogenous metals in a sandy Luvisol subjected to intensive irrigation with raw wastewater**
C. Dère, I. Lamy, A. Jaulin, S. Cornu
After 100 years of intensive irrigation with wastewater, no exogenous Pb and Cr are found in the subsoil, while exogenous Zn and Cu are found down to the base of the solum, mostly readsorbed.
- 41 Assessment of a sewage sludge treatment on cadmium, copper and zinc bioavailability in barley, ryegrass and earthworms**
A.Y. Renoux, S. Rocheleau, M. Sarrazin, G.I. Sunahara, J.-F. Blais
Assessment of a sewage sludge treatment on metal bioavailability as measured by metal speciation, toxicity and bioaccumulation.
- 51 In vitro studies of copper release from powder particles in synthetic biological media**
K. Midander, I.O. Wallinder, C. Leygraf
Copper release rates from particles are essential to assess potential health aspects.
- 60 Evaluation of hydrophobicity in PAH-contaminated soils during phytoremediation**
N. Cofield, M.K. Banks, A.P. Schwab
The presence of recalcitrant hydrophobic organic pollutants may enhance soil hydrophobicity.
- 68 Root establishment of perennial ryegrass (*L. perenne*) in diesel contaminated subsurface soil layers**
C. Kechavarzi, K. Pettersson, P. Leeds-Harrison, L. Ritchie, S. Ledin
*The spatial distribution of diesel contamination affects the root development of *L. perenne*.*
- 75 Effects of copper on early developmental stages of *Lessonia nigrescens* Bory (Phaeophyceae)**
L. Contreras, M.H. Medina, S. Andrade, V. Oppliger, J.A. Correa
*Early developmental stages of *Lessonia nigrescens* are highly sensitive to copper.*
- 84 Copper, zinc and cadmium in marine cage fish farm sediments: An extensive survey**
R.J. Dean, T.M. Shimmield, K.D. Black
Sediments around a salmon farm show extremely high levels of zinc, copper and cadmium contamination.
- 96 Phytoextraction of cadmium by rice (*Oryza sativa* L.), soybean (*Glycine max* (L.) Merr.), and maize (*Zea mays* L.)**
M. Murakami, N. Ae, S. Ishikawa
*Milyang 23 rice (*Oryza sativa* L.) accumulated 10–15% of the total soil Cd in its shoot.*

continued on inside back cover

(Abstracted/indexed in: AGRICOLA database; Air Pollution Control Association Journal; Biological and Agricultural Index; CAB ABSTRACTS database; Elsevier BIOBASE/Current Awareness in Biological Sciences; Cambridge Scientific Abstracts; Chemical Abstracts; Current Contents/Agriculture, Biology & Environmental Sciences; Environment Abstracts; Environmental Periodicals Bibliography; Energy Information Abstracts; EMBASE/Excerpta Medica; Geo Abstracts; GEOBASE; Index Medicus/MEDLINE/PubMed; ISI GeoSciTech; Science Citation Index; SciSearch)



0269-7491(200701)145:1;1-X



ELSEVIER

02022