

# USACE Electronic Library

## Tools and Resources for Corps District Employees Everywhere

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April 30, 2013

# Outline

- E-library advisory board
- E-library cost savings
- Navigating to the E-library
- Web of Science
- Access to e-journals by publisher
- Remote Access to E-Journals
- USACE Library Catalog
- Other Library Services



# E-Library Advisory Board

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- Assist in selection/ collection of electronic resources
- Advocate library use

\* denotes Board Team Lead



# E-Library = USACE Savings

- Usage statistics = since 2009, over 80,000 downloads annually
- Savings for each download = \$35 (individual manuscript cost) + \$100 (time and labor)
- FY12 Investment of \$602,000 resulted in a cost savings of \$13.5 million and a cost avoidance of \$10 million annually
- FY 2013 CFAT funding = \$502,000 (represents a nickel a day per district employee) + \$75,000 from the ECO-PCX
- Budget shortfalls result in discontinued access to journals



# Navigating to USACE Library Intranet Page

Mccain, Kathryn MVS ▾

Applications and Tools Quick Links Search ▾

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*Welcome to the new Headquarters Intranet*

This site serves as the directory for the future Intranet web presence within HQ USACE. It is a work in progress. Please provide feedback. Stay tuned for more information.

*Announcements*

**Wounded Warrior Collaboration Site** 2/28/2013 10:22 AM  
by Williams, Tesia D HQ02  
The US Army Corps of Engineers is committed to providing support to our Nation's Wounded Warriors (WW) and Recovering Service members (RSM). USACE is actively participating in several programs, including the DoD Operation Warfighter (OWF) Program.  
...

**New STEM Collaboration Site** 2/28/2013 8:38 AM

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Over 5,000 online resources:

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- USACE Library Catalog

The screenshot shows the USACE Library Program Intranet homepage. At the top, there is a navigation bar with the US Army Corps of Engineers logo and the text "US Army Corps of Engineers® HQ USACE Intranet". Below this is a secondary navigation bar with categories like "COMMAND OFFICES", "REFERENCES", "HECSA SUPPORT", "TRAINING", "TOOLS", "HQ, DIVISIONS AND CENTERS", "SUPPORT SERVICES", "SHAREPOINT INTERNAL SITES", and "LINKS OF INTEREST". The main content area features a "Welcome to the USACE Library Program Intranet" banner with the tagline "Tools and Resources for Corps Employees Everywhere". Below the banner is a section titled "What's New at USACE Libraries" which lists recent additions to the electronic library, including "Nature Publishing" (1997-present), "Elsevier Publishing" (1995-present), and "EERI (Earthquake Engineering Research Institute)" (1985-present). A "Related Links" sidebar on the right includes "USACE Education Center" and "U.S. Army Library Program".

<https://intranet.usace.army.mil/HQ/library/pages/home.aspx>



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What's New

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1.) Nature Publishing

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Publication Date -- newest to oldest

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- REVIEW (1)

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Group Authors

Editors

Source Titles

Book Series Titles

- Title: **Moving Large River Ecology from Past Theories to Future Actions: A Review**  
Author(s): McCain, Kathryn N. S.  
Source: REVIEWS IN FISHERIES SCIENCE Volume: 21 Issue: 1 Pages: 39-48 DOI: 10.1080/10641262.2012.753867 Published: 2013  
Times Cited: 0 (from Web of Science)  
[ [View abstract](#) ]
- Title: **An investigation of fish community and water quality compositions in an isolated side channel of the upper Mississippi River**  
Author(s): Crites, Jason W.; Phelps, Quinton E.; McCain, Kathryn N. S.; et al.  
Source: JOURNAL OF FRESHWATER ECOLOGY Volume: 27 Issue: 1 Pages: 19-29 DOI: 10.1080/02705060.2011.599988 Published: MAR 2012  
Times Cited: 0 (from Web of Science)  
[ [View abstract](#) ]
- Title: **Mycorrhizal suppression alters plant productivity and forb establishment in a grass-dominated prairie restoration**  
Author(s): McCain, Kathryn N. S.; Wilson, Gail W. T.; Blair, J. M.  
Source: PLANT ECOLOGY Volume: 212 Issue: 10 Pages: 1675-1685 DOI: 10.1007/s11258-011-9940-0 Published: OCT 2011  
Times Cited: 2 (from Web of Science)  
[Full Text](#) [ [View abstract](#) ]
- Title: **Dominant Grasses Suppress Local Diversity in Restored Tallgrass Prairie**  
Author(s): McCain, Kathryn N. S.; Baer, Sara G.; Blair, John M.; et al.  
Source: RESTORATION ECOLOGY Volume: 18 Supplement: 1 Pages: 40-49 DOI: 10.1111/j.1526-100X.2010.00669.x Published: SEP 2010  
Times Cited: 6 (from Web of Science)  
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**Results** Title=(sediment\* AND wetland)  
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Results: **442** Page 1 of 45 Go Sort by: Publication Date -- newest to oldest

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- ENGINEERING ENVIRONMENTAL (66)
- GEOSCIENCES MULTIDISCIPLINARY (49)

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- PROCEEDINGS PAPER (64)
- MEETING ABSTRACT (14)
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- Title: **Environmental assessment of trace element bioaccumulation in sipunculan from seagrass and wetland sediments**  
Author(s): Hsieh, I-Ting; Mok, Hin-Kiu; Ko, Fung-Chi; et al.  
Source: ENVIRONMENTAL MONITORING AND ASSESSMENT Volume: 185 Issue: 3 Pages: 2269-2279 DOI: 10.1007/s10661-012-2707-9  
Published: MAR 2013  
Times Cited: 0 (from Web of Science)  
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- Title: **Remote sensing of suspended sediment concentration and hydrologic connectivity in a complex wetland environment**  
Author(s): Long, Colleen M.; Pavelsky, Tamlin M.  
Source: REMOTE SENSING OF ENVIRONMENT Volume: 129 Pages: 197-209 DOI: 10.1016/j.rse.2012.10.019 Published: FEB 15 2013  
Times Cited: 0 (from Web of Science)  
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- Title: **A model of vegetation dynamics of Spartina alterniflora and Phragmites australis in an expanding estuarine wetland: Biological interactions and sedimentary effects**  
Author(s): Wang, Qiang; Jorgensen, Sven E.; Lu, Jianjian; et al.  
Source: ECOLOGICAL MODELLING Volume: 250 Pages: 195-204 DOI: 10.1016/j.ecolmodel.2012.09.024 Published: FEB 10 2013  
Times Cited: 0 (from Web of Science)  
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- Title: **Phosphorus fluxes at the sediment-water interface in subtropical wetlands subjected to experimental warming: A microcosm study**  
Author(s): Wang, Hang; Holden, Joseph; Spera, Kandice; et al.  
Source: CHEMOSPHERE Volume: 90 Issue: 6 Pages: 1794-1804 DOI: 10.1016/j.chemosphere.2012.08.044 Published: FEB 2013  
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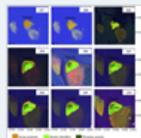
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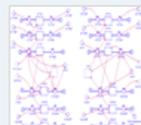
- 1. Introduction
- 2. Description of the modelled ecosystem



3. Model description

Table 1

- 3.1. *S. alterniflora* and *P. australis* area dynamics in zone 1 and zone 2



## Ecological Modelling

Volume 250, 10 February 2013, Pages 195–204

### A model of vegetation dynamics of *Spartina alterniflora* and *Phragmites australis* in an expanding estuarine wetland: Biological interactions and sedimentary effects

Qiang Wang<sup>a</sup>, Sven E. Jørgensen<sup>b</sup>, Jianjian Lu<sup>a,c</sup>, Søren N. Nielsen<sup>c</sup>, Jiarui Zhang<sup>a</sup>

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<http://dx.doi.org/10.1016/j.ecolmodel.2012.09.024>, How to Cite or Link Using DOI

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#### Abstract

*Spartina alterniflora* (Smooth Cordgrass) and *Phragmites australis* (Common Reed) are dominant types of vegetation in Jiuduansha Shoals in the Yangtze Estuary of China. Each species has different growth and competition in different tidal zones. The vegetation types are dynamic and their extension and position of different elevation zones due to the deposition of the sediments over time. A model was constructed to simulate the vegetation changes over time.

Ecological Modelling 250 (2013) 195–204

Contents lists available at SciVerse ScienceDirect

Ecological Modelling

journal homepage: [www.elsevier.com/locate/ecolmodel](http://www.elsevier.com/locate/ecolmodel)

A model of vegetation dynamics of *Spartina alterniflora* and *Phragmites australis* in an expanding estuarine wetland: Biological interactions and sedimentary effects

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Keywords:  
Vegetation dynamics model  
Tidal marshes  
Competition  
Sediment deposition  
Yangtze River Estuary

ABSTRACT

*Spartina alterniflora* (Smooth Cordgrass) and *Phragmites australis* (Common Reed) are dominant types of vegetation in Jiuduansha Shoals in the Yangtze Estuary of China. Each species has advantages in terms of growth and competition in different tidal zones. The vegetation types are dynamic due to the variation in the extension and position of different elevation zones due to the deposition of the sediments carried by river runoff. A model was constructed to simulate the vegetation changes over time due to the changes in sediment loads and zonation. A structurally dynamic model was built using Stella software which based on the biological interactions of *S. alterniflora* and *P. australis* biological interactions at different elevations. (i) the morphometric changes of the island which are increasing based on sediment deposition and the sediment trapping effect of plants. The model simulations predict that the area of *P. australis* will continue to increase; it will be reach to 1100ha in 2026. *S. alterniflora* areas will decrease after the areas slightly increasing to maximum 712 ha in 2015.

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1. Introduction

Tidal marshes in estuaries form important interfaces between marine, freshwater and terrestrial ecosystems (Eisma, 1998; Atwell and Rundle, 2002). Tidal marshes support biodiversity, filter contaminants, dissipate water energy, and offer intrinsic values such as aesthetics and education (Goodwin et al., 2001).

The spatial distribution of tidal marsh vegetation is spatially correlated by a striking vertical zonation that is particularly pronounced in regions with large tidal amplitude (Chapman, 1974). A number of authors (e.g. Chapman, 1976; Vince and Snow, 1984; Levine et al., 1998; Pennington and Callaway, 1992; Rigel et al., 2001; Scherini et al., 2005; Stockmann et al., 2002; Costa et al., 2003) have described plant zonation in salt-marsh environments and have evaluated the environmental factors affecting the distribution of salt marsh vegetation.

The salt marshes in Jiuduansha are an important part of the Yangtze River Estuary Wetlands in China; and they are rapidly growing through the deposition of sand, silt and mud carried by the river runoff (Yang, 1999). Also a simple pattern of plant zonation in the intertidal zone in the Jiuduansha Shoals has been observed.

Native *Spartina maritima* (Sea-hedrick) marshes occupy the low tidal zone, *Phragmites australis* (Common Reed) and the exotic species *Spartina alterniflora* (Smooth Cordgrass) occur at mesohalines in the middle and high tidal zones, respectively (Wang, 2007; Li et al., 2009; Wang et al., 2010).

*P. australis* and *S. alterniflora* populations have different traits (biomass, density, stem heights etc.) in different elevation zones. *P. australis* has a higher growth rate in the high elevation tidal zone than in the middle, as opposed to *S. alterniflora* growth rates which are higher in middle-elevation tidal zone than in high. Studies on the competition ability have shown that *P. australis* has an advantage over *S. alterniflora* in low elevation zones (Marks et al., 1994; Windham and Lathrop, 1999; Wang et al., 2006, 2010). Because the Jiuduansha Shoals are growing through the deposition of sediments carried by river runoff, the area and position of different elevation zones are changing. The vegetation pattern on Jiuduansha is also changing due to the interspecies interaction and geomorphic progress.

There are very few mathematical models that consider this type of interspecies interaction such as a Lotka-Volterra type of model modified for competition for space (Armstrong, 1976; Selten, 1987; Liddel, 2001). Recently some cellular automata models were constructed to simulate spatial variation as a consequence of competitive interactions (Silvertoorn et al.,

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E-mail address: [wangqiang101@163.com](mailto:wangqiang101@163.com) (Q. Wang).

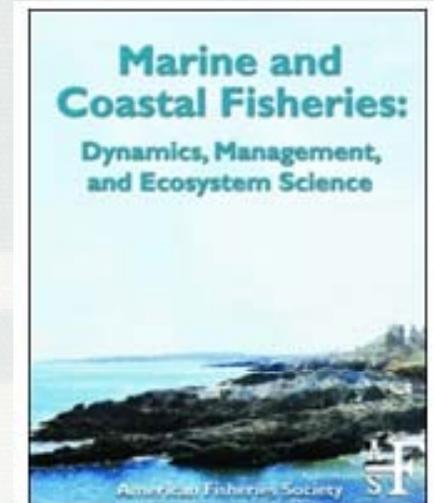
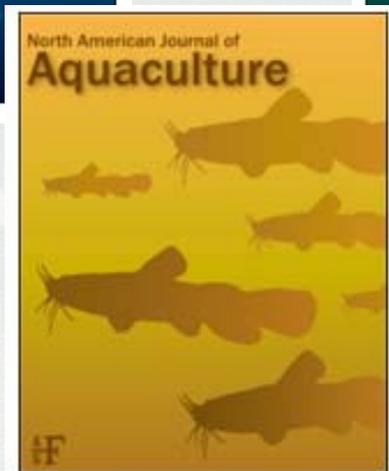
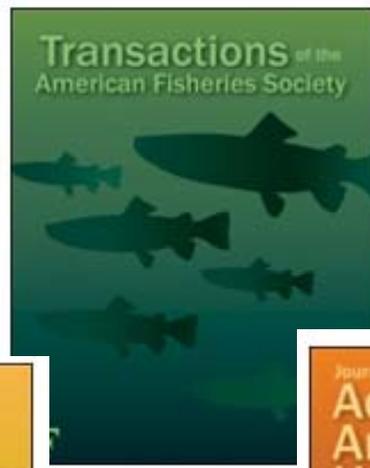
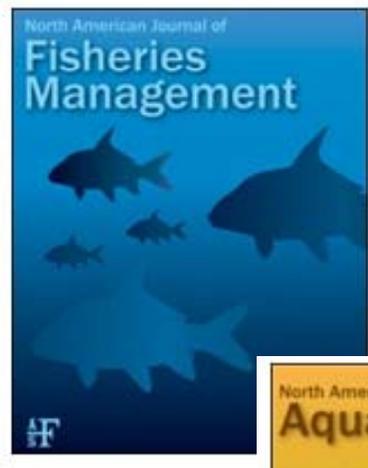
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## Nature Climate Change

2007 - present



## Nature Geosciences

2008 - present



<http://www.nature.com>

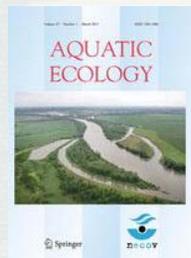
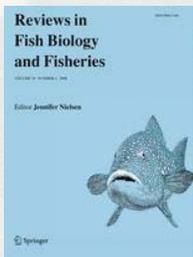
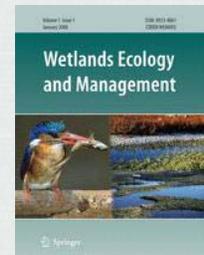
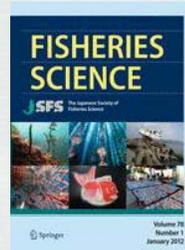
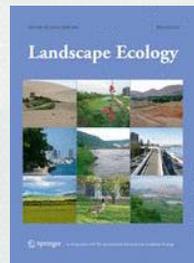
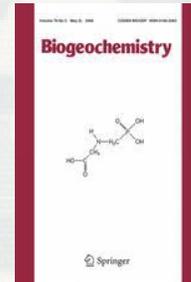
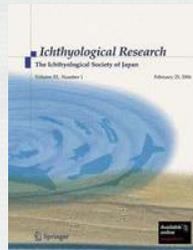
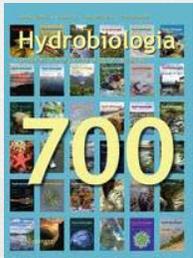


# Science

The screenshot shows the Science Magazine website homepage. At the top, there is a navigation bar with the Science logo, AAAS.ORG, FEEDBACK, HELP, LIBRARIANS, a search box with "Science Magazine" selected, and buttons for SEARCH and ADVANCED. Below this is a secondary navigation bar with links for US ARMY CORPS OF ENGINEERS, ALERTS, ACCESS RIGHTS, MY ACCOUNT, and SIGN IN. A red navigation bar contains links for NEWS, SCIENCE JOURNALS, CAREERS, BLOGS & COMMUNITIES, MULTIMEDIA, COLLECTIONS, and JOIN / SUBSCRIBE. A banner below the navigation bar reads "Science The World's Leading Journal of Original Scientific Research, Global News, and Commentary." and includes links for Science Home, Current Issue, Previous Issues, Science Express, Science Products, My Science, and About the Journal. The main content area is divided into several sections: a search box on the left, a "CURRENT ISSUE" section for 5 APRIL 2013, VOL. 340, #6128 with a cover image and links to Table of Contents, About the Cover, Author Index, and Subject Index; a "Science Podcast" section with a weekly podcast link and a description about the ethics of de-extinction; a "RECENT HIGHLIGHTS" section with two featured articles: "Coral Reefs Bounce Back" (Ecology) and "'Dead' Enzymes Show Signs of Life" (News Focus); and two "SPECIAL SECTION" links for "Visualization Challenge 2012" and "Inflammation". A sidebar on the left contains an "About the Journal" section with links for Staff and Editorial Board, How to Access, Free Sample, Order an Issue/Article, Reprints & Permissions, Magazine Help/FAQ, Join AAAS/Subscribe, and Advertise in Science.

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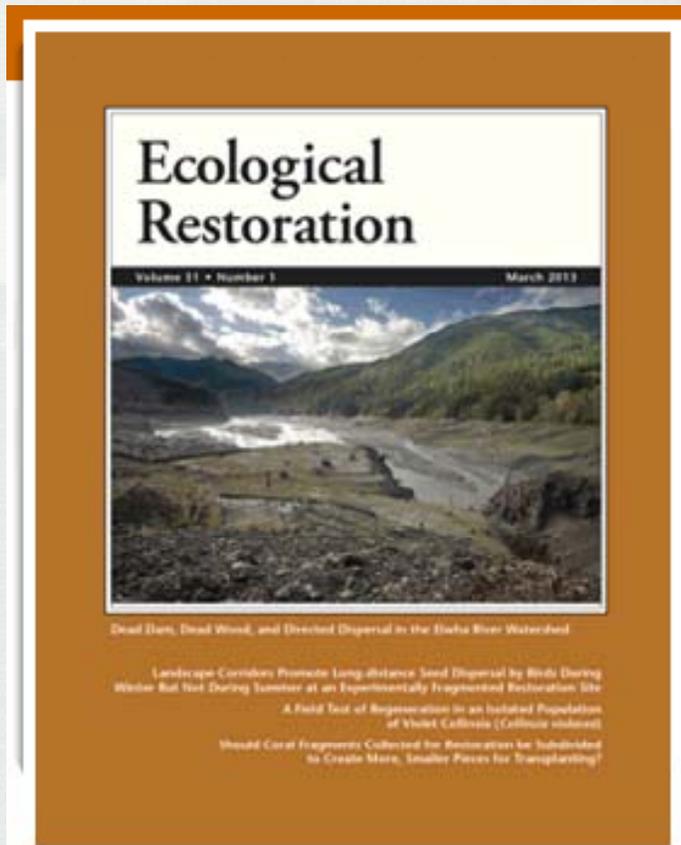


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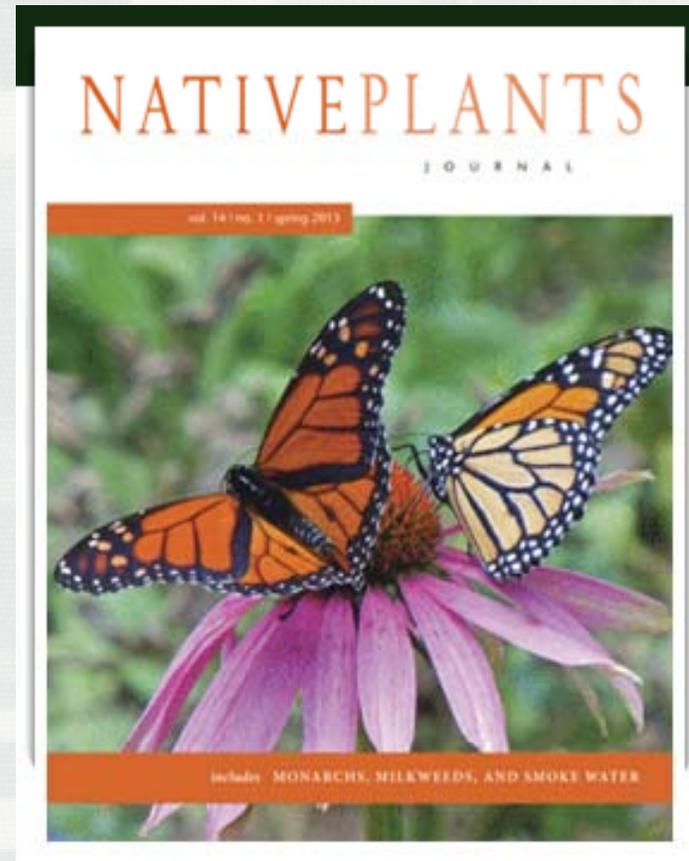
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# University of Wisconsin Press



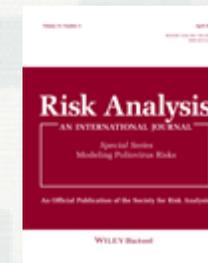
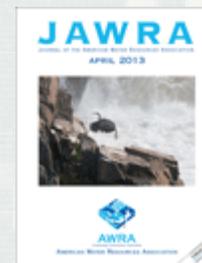
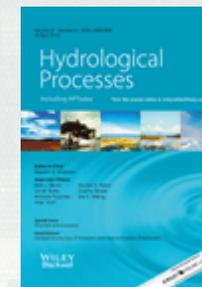
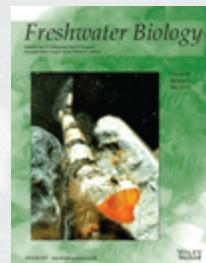
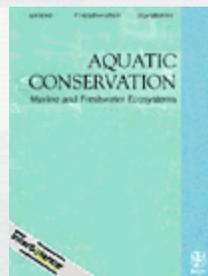
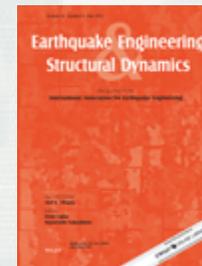
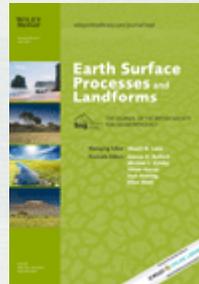
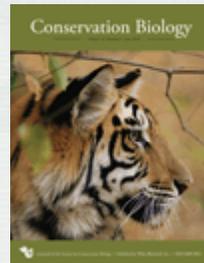
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# Remote Access to E-Journals

<http://corpslibrary.worldcat.org/>

## Need to Register

The screenshot shows the WorldCat website for the US Army Corps of Engineers Library. The browser address bar displays <http://corpslibrary.worldcat.org/>. The page features a navigation menu on the left with the following items: "Ask a Librarian", "Corps Employee Login", "Electronic Journal List", and "Maps & Charts". A red arrow points from a light blue box labeled "USACE Remote Login" to the "Corps Employee Login" link. Below the navigation menu is a search box with the text "Search US Army Corps of Engineers Library and beyond". The search box includes a search input field, a "Search" button, and a dropdown menu set to "Libraries Worldwide". Below the search box, there is a checkbox for "Limit to full text articles" and a link for "Advanced Search". The page footer contains language options (Deutsch, English, Español, Français, Italiano, Nederlands, Português, 한국어, 日本語, 中文(繁體), 中文(简体)), user links (Sign In, Register, My WorldCat, My Lists, My Watchlist, My Reviews, My Tags, My Saved Searches), WorldCat links (Home, About, Help, Get E-mail Updates, Feedback, Search), and legal information (Copyright © 2001-2013 OCLC. All rights reserved. | Privacy Policy | Terms and Conditions). A red castle logo is visible in the bottom right corner.

# Remote Access to E-Journals

https://corpslibrary.idm.oclc.org/login?url= - Windows Internet Explorer

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Favorites MVS Intranet USACE Library UMRR Habitat Restoration Planning Community Too...

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## US Army Corps of Engineers

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# Remote Access to E-Journals

Database Menu - Windows Internet Explorer

https://login.corpslibrary.idm.oclc.org/menu

Favorites: MVS Intranet, USACE Library, UMRR Habitat Restoration, Planning Community Too...

Database Menu

This is menu.htm from the docs subdirectory.

This page is the default menu of databases. It is typically used for testing, but not for deployment. See [www.oclc.org/us/en/support/documentation/ezproxy/cfg/database.htm](http://www.oclc.org/us/en/support/documentation/ezproxy/cfg/database.htm) for more information.

**Database Menu**

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And more to come as the Database is developed!



# USACE Library Catalog

WorldCat: US Army Corps of Engineers Library - Windows Internet Explorer  
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chorus frog

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- SEATTLE DISTRICT
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- ST. PAUL DISTRICT
- WALLA WALLA DISTRICT
- WILMINGTON DISTRICT
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US Army Corps of Engineers

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 Publisher: La Crosse, Wis. : U.S. Geological Survey, Upper Midwest Environmental Sciences Center ; Springfield, Va. : National Technical Information Service [distributor, 1999]  
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3. **Herpetological investigations in Illinois**  
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 Publisher: Onalaska, Wis. : Reprinted by U.S. Geological Survey, Environmental Management Technical Center ; Springfield, Va. : National Technical Information Service [distributor, 1996]  
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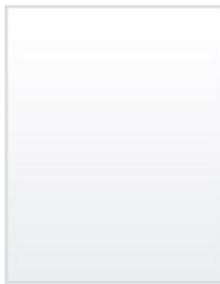
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**Author:** [John K Tucker](#); [Illinois. Natural History Survey Division.](#); [Environmental Management Technical Center \(U.S.\); Long Term Resource Monitoring Program \(Environmental Management Program\)](#)

**Publisher:** Onalaska, Wis. : Reprinted by U.S. Geological Survey, Environmental Management Technical Center ; Springfield, Va. : National Technical Information Service [distributor, 1996]

**Series:** [Reprint \(Long Term Resource Monitoring Program\)](#), 96-11.

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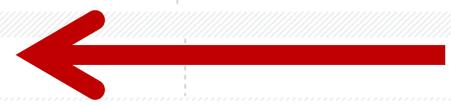
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