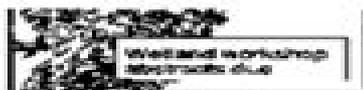




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of Engineers**  
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**AD-A283 262**



Corps field notes -  
pg. 8

Professional meetings  
announced - pg. 7



The *Wetlands Research Program*

# Bulletin

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## Ultrasonic sensors viable option for water surface measurements

David D. Abraham and Brad R. Hall, U.S. Army Engineer Waterways Experiment Station

Installing instruments for measuring water levels in a wetland environment can be a high dollar investment as well as a frustrating experience. Traditional installation includes the need for expensive sailing wells. A loss of instruments, and thus data, due to floating debris or fouling caused by suspended sediment or bio-masses may also occur. These negative impacts on a scientific study can be avoided if the experimental design allows the use of an ultrasonic sensor.

### Sensors deployed above water

Ultrasonic instruments have been used to measure water surface elevation for a number of years with varying degrees of success. The benefits of these devices derive mainly from the fact that there is no direct contact with water. The inherent shortcomings of using an ultrasonic sensor are the instrument's sensitivity to temperature and wind. Changes in temperatures of 15°F or more over very short time increments can cause the accuracy to vary ±0.04 ft. Wind can also affect the accuracy and disturb the water surface, resulting in the loss of the signal and thus the distance measurement.

### Ultrasonic sensor used in WRP study

As part of a research project to model flow and sedimentation in the Cache River, Ark., bottomland



Ultrasonic sensor platforms used in Cache River, Ark., field study (see pg 3)

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**Joacim Rocklöv**



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## **Table of Contents Wetlands Volume 20 Number 4**

1. Understanding the eBook Wetlands Volume 20 Number 4
  - The Rise of Digital Reading Wetlands Volume 20 Number 4
  - Advantages of eBooks Over Traditional Books
2. Identifying Wetlands Volume 20 Number 4
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Wetlands Volume 20 Number 4
  - User-Friendly Interface
4. Exploring eBook Recommendations from Wetlands Volume 20 Number 4
  - Personalized Recommendations
  - Wetlands Volume 20 Number 4 User Reviews and Ratings
  - Wetlands Volume 20 Number 4 and Bestseller Lists

5. Accessing Wetlands Volume 20 Number 4 Free and Paid eBooks
  - Wetlands Volume 20 Number 4 Public Domain eBooks
  - Wetlands Volume 20 Number 4 eBook Subscription Services
  - Wetlands Volume 20 Number 4 Budget-Friendly Options
6. Navigating Wetlands Volume 20 Number 4 eBook Formats
  - ePub, PDF, MOBI, and More
  - Wetlands Volume 20 Number 4 Compatibility with Devices
  - Wetlands Volume 20 Number 4 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Wetlands Volume 20 Number 4
  - Highlighting and Note-Taking Wetlands Volume 20 Number 4
  - Interactive Elements Wetlands Volume 20 Number 4
8. Staying Engaged with Wetlands Volume 20 Number 4
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Wetlands Volume 20 Number 4
9. Balancing eBooks and Physical Books Wetlands Volume 20 Number 4
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Wetlands Volume 20 Number 4
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Wetlands Volume 20 Number 4
  - Setting Reading Goals Wetlands Volume 20 Number 4
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Wetlands Volume 20 Number 4
  - Fact-Checking eBook Content of Wetlands Volume 20 Number 4
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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