BioOne Accessibility Conformance

Report Revised Section 508 Edition

VPAT[®] Version 2.3 (Revised) – April 2019

Name of Product/Version: BioOne Digital Library

Product Description: The BioOne Digital Library is a database of more than 200 subscribed and open-access titles in the biological, ecological, and environmental sciences.

Report Date: August 4, 2023

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Evaluation Methods Used: All criteria evaluated through broad product knowledge and testing by professional staff. No automated testing was conducted for this version 2.3 report.

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Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standard/guidelines:

Standard/Guideline	Included In Report
Web Content Accessibility Guidelines 2.0	Level A (Yes)
	Level AA (Yes)
	Level AAA (No)
Revised Section 508 standards published January 18, 2017 and corrected January 22,	(Yes)
2018	(100)

Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports**: The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Partially Supports**: Some functionality of the product does not meet the criterion.
- **Does Not Support**: The majority of product functionality does not meet the criterion.
- Not Applicable: The criterion is not relevant to the product.
- Not Evaluated: The product has not been evaluated against the criterion. This can be used only in WCAG 2.0 Level AAA.

WCAG 2.0 Report

Tables 1 and 2 also document conformance with:

- Chapter 5 501.1 Scope, 504.2 Content Creation or Editing
- Chapter 6 602.3 Electronic Support Documentation

Note: When reporting on conformance with the WCAG 2.0 Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the <u>WCAG 2.0 Conformance Requirements</u>.

Table 1: Success Criteria, Level A

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)		Web: All content figures and tables are accompanied by explanatory captions. Time-based media have either explanatory captions (for short integrated video figures)
Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports Electronic Docs: Supports Software: Not Applicable Authoring Tool: Not Applicable	or full-text transcripts (for full-length presentations). Currently all but 1% of full-length presentations have full-text transcripts, the remaining 1% have attributes which prevent complete transcription (sound quality, etc.) Electronic Docs: PDF-formatted papers include explanatory captions for all figures and tables.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)		Web: Time-based media have either explanatory
Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports Electronic Docs: Supports Software: Not Applicable Authoring Tool: Not Applicable	captions (for short integrated video figures) or full-text transcripts (for full-length presentations). Currently all but 1% of full-length presentations have full-text transcripts, the remaining 1% have attributes which prevent complete transcription (sound quality, etc.)
1.2.2 Captions (Prerecorded) (Level A)	Web: Supports	Web: Short video clips integrated into papers do not
Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	include audio content. Long-form presentations with audio are closed captioned. Currently all but 1% of full- length presentations have full-text transcripts, the remaining 1% have attributes which prevent complete transcription (sound quality, etc.)
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Web: Supports	
Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: Currently all but 1% of full-length presentations have full-text transcripts, the remaining 1% have attributes which prevent complete transcription (sound quality, etc.)
1.3.1 Info and Relationships (Level A)	Web: Supports	Web: Information and Relationships are designated in
Also applies to: Revised Section 508	Electronic Docs: Supports Software: Not Applicable	the page source; Abstract as abstract, Sections as sections, etc.

Criteria	Conformance Level	Remarks and Explanations
 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs) 	Authoring Tool: Not Applicable	Electronic Docs: Information and relationships in the PDF files are shown via text formatting and variation as per standard printed scientific publication.
1.3.2 Meaningful Sequence (Level A) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports Electronic Docs: Supports Software: Not Applicable Authoring Tool: Not Applicable	Web: Information is provided in a meaningful sequence on the page in the document as a whole, following standard science publication practice. Electronic Docs: Information is provided in a meaningful sequence on the page in the document as a whole, following standard science publication practice.
1.3.3 Sensory Characteristics (Level A) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports Electronic Docs: Supports Software: Not Applicable Authoring Tool: Not Applicable	Web: Instructions provided for understanding and operating content do not rely solely on sensory characteristics of components such as shape, color, size, visual location, orientation, or sound. Electronic Docs: As noted above.
1.4.1 Use of Color (Level A) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports Electronic Docs: Supports Software: Not Applicable Authoring Tool: Not Applicable	Web: Due to the nature of BIOONE's optics content, some papers discuss and present color in particular depth. Even in these cases though, care is taken to have proper captions and textual explanation. Electronic Docs: Same as Web note above
1.4.2 Audio Control (Level A) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: No web page in the site contains audio content that plays automatically. Authoring Tool:
2.1.1 Keyboard (Level A) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: Tabbing through links works as expected. Focus state indicator is provided for keyboard users in order to maintain orientation on page.

Criteria	Conformance Level	Remarks and Explanations
2.1.2 No Keyboard Trap (Level A)	Web: Supports	
Also applies to: Revised Section 508 • 501 (Web)(Software)	Electronic Docs: Not Applicable Software: Not Applicable	Web: Focus can be moved away from page components using only a keyboard interface.
 504.2 (Authoring Tool) 602.3 (Support Docs) 2.2.1 Timing Adjustable (Level A)	Authoring Tool: Not Applicable Web: Supports	
Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: There is a 20-minute session time out, however, once the user takes any further action on the site, a new session is instantiated with the appropriate access to content.
2.2.2 Pause, Stop, Hide (Level A) Also applies to: • Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: All moving, blinking, or scrolling information is limited to less than five seconds. The site contains no other automatically updated information.
 2.3.1 Three Flashes or Below Threshold (Level A) Also applies to: Revised Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs) 	Web: Supports Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: Currently the BIOONE Digital Library contains some advertisements that include blinking or otherwise cycling graphic elements. These elements animate for no more than 5 seconds, then become static.
 2.4.1 Bypass Blocks (Level A) Also applies to: Revised Section 508 501 (Web)(Software) – Does not apply to non-web software 504.2 (Authoring Tool) 602.3 (Support Docs) – Does not apply to non-web docs 	Web: Supports Electronic Docs: Not Applicable Authoring Tool: Not Applicable	Web: Structural markup and multiple navigation paths allow for bypassing non-primary content blocks.
2.4.2 Page Titled (Level A)	Web: Supports	Web: Content page titles are the title of the contained

Also applies to: Revised Section 508	ADDIICADIe	article. Other page titles describe the pages content and/or function.
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Criteria	Conformance Level	Remarks and Explanations
 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs) 	Authoring Tool: Not Applicable	
2.4.3 Focus Order (Level A)	Web: Supports	
Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: Focus order is preserved. See note for 2.1.1
2.4.4 Link Purpose (In Context) (Level A) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports Electronic Docs: Supports Software: Not Applicable Authoring Tool: Not Applicable	Web: The purpose of each link can be determined from the link text alone or from the link text together with its programmatically determined link context Electronic Docs: As above.
3.1.1 Language of Page (Level A)	Web: Partially Supports	
Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: Language is designated in page metadata as 'En'. Additionally, the user may use the embedded Google Translate widget to change the human language of the page.
3.2.1 On Focus (Level A)	Web: Supports	
Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: When any component receives focus, it does not initiate a change of context.
3.2.2 On Input (Level A)	Web: Supports	
Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: Changing the setting of any user interface component does not automatically cause a change of context.

Criteria	Conformance Level	Remarks and Explanations
3.3.1 Error Identification (Level A)	Web: Supports	Web: Error identification is provided on the input of
Also applies to:	Electronic Docs: Not	username and password for sign in. No errors are
Revised Section 508	Applicable	generated on search input (the only site input other
 501 (Web)(Software) 	Software: Not Applicable	than credentials) as all search items are considered
504.2 (Authoring Tool)	Authoring Tool: Not	legitimate search queries.
602.3 (Support Docs)	Applicable	
3.3.2 Labels or Instructions (Level A)	Web: Supports	
Also applies to:	Electronic Docs: Not	Wahil shale ar instructions are provided when content
Revised Section 508	Applicable	Web: Labels or instructions are provided when content
 501 (Web)(Software) 	Software: Not Applicable	requires user input; both for sign in and search queries.
504.2 (Authoring Tool)	Authoring Tool: Not	
602.3 (Support Docs)	Applicable	
4.1.1 Parsing (Level A)	Web: Supports	
Also applies to:	Electronic Docs: Not	Web: Content is implemented using markup languages.
Revised Section 508	Applicable	All markup elements are complete and the pages as a
 501 (Web)(Software) 	Software: Not Applicable	whole are valid markup documents.
504.2 (Authoring Tool)	Authoring Tool: Not	
602.3 (Support Docs)	Applicable	
4.1.2 Name, Role, Value (Level A)	Web: Supports	
Also applies to:	Electronic Docs: Not	Web, For all user interface components the name and
Revised Section 508	Applicable	Web: For all user interface components the name and role can be programmatically determined and set.
 501 (Web)(Software) 	Software: Not Applicable	role can be programmatically determined and set.
504.2 (Authoring Tool)	Authoring Tool: Not	
602.3 (Support Docs)	Applicable	

Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Web: Not Applicable	
Also applies to:	Electronic Docs: Not	No live audio content is presented on the web site.
Revised Section 508	Applicable	
 501 (Web)(Software) 	Software: Not Applicable	

Criteria	Conformance Level	Remarks and Explanations
504.2 (Authoring Tool)602.3 (Support Docs)	Authoring Tool: Not Applicable	
1.2.5 Audio Description (Prerecorded) (Level AA)	Web: Partially Supports	Web: Short video content integrated into research
Also applies to:	Electronic Docs: Not	papers are described in captions and full text. Longer
Revised Section 508	Applicable	conference presentations may have audio description
 501 (Web)(Software) 	Software: Not Applicable	provided by the presenter, but this is not the case with
 504.2 (Authoring Tool) 	Authoring Tool: Not	every conference presentation. Most videos will have a
602.3 (Support Docs)	Applicable	transcript, except those that have bad audio.
1.4.3 Contrast (Minimum) (Level AA)		
Also applies to:	Web: Supports	
Revised Section 508	Electronic Docs: Supports	Web: Content web pages meet the 4.5:1 contrast
 501 (Web)(Software) 	Software: Not Applicable	requirement.
 504.2 (Authoring Tool) 	Authoring Tool: Not Applicable	
602.3 (Support Docs)	Applicable	
1.4.4 Resize text (Level AA)	Web: Supports	
Also applies to:	Electronic Docs: Not	
Revised Section 508	Applicable	Web: Supported via browcor functionality
 501 (Web)(Software) 	Software: Not Applicable	Web: Supported via browser functionality
 504.2 (Authoring Tool) 	Authoring Tool: Not	
602.3 (Support Docs)	Applicable	
1.4.5 Images of Text (Level AA)	Web: Supports	
Also applies to:	Electronic Docs: Not	Web: Some math content is represented by images of
Revised Section 508	Applicable	equations and formulae, this is deemed as essential to
 501 (Web)(Software) 	Software: Not Applicable	the information being conveyed (see note on WCAG
 504.2 (Authoring Tool) 	Authoring Tool: Not	1.4.5 specifications).
602.3 (Support Docs)	Applicable	
2.4.5 Multiple Ways (Level AA)		
Also applies to:	Web: Supports	
Revised Section 508	Electronic Docs: Supports	Web: More than one way is available to locate a Web
 501 (Web)(Software) – Does not apply to non-web software 	Authoring Tool: Not	page within a set of Web pages.
 504.2 (Authoring Tool) 	Applicable	
 602.3 (Support Docs) – Does not apply to non-web docs 		
2.4.6 Headings and Labels (Level AA)	Web: Supports	Web: Headings and labels describe topic or purpose.
Also applies to:	Electronic Docs: Supports	Electronic Docs: As above.

Criteria	Conformance Level	Remarks and Explanations
Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Software: Not Applicable Authoring Tool: Not Applicable	
2.4.7 Focus Visible (Level AA) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: See note in this document under 2.1.1
 3.1.2 Language of Parts (Level AA) Also applies to: Revised Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs) 	Web: Partially Supports Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: See note in this document under 3.1.1
 3.2.3 Consistent Navigation (Level AA) Also applies to: Revised Section 508 501 (Web)(Software) – Does not apply to non-web software 504.2 (Authoring Tool) 602.3 (Support Docs) – Does not apply to non-web docs 	Web: Supports Electronic Docs: Not Applicable Authoring Tool: Not Applicable	Web: Navigation is consistent for all pages, by content type, across the site. There are some minor changes between book, article, and video presentation pages but they are consistent inside those content types and parallel to other navigation arrangements on the site.
 3.2.4 Consistent Identification (Level AA) Also applies to: Revised Section 508 501 (Web)(Software) – Does not apply to non-web software 504.2 (Authoring Tool) 602.3 (Support Docs) – Does not apply to non-web docs 	Web: Supports Electronic Docs: Not Applicable Authoring Tool: Not Applicable	Web: Components that have the same functionality within a set of Web pages are identified consistently.
 3.3.3 Error Suggestion (Level AA) Also applies to: Revised Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs) 	Web: Supports Electronic Docs: Not Applicable Software: Not Applicable Authoring Tool: Not Applicable	Web: The BIOONE Digital Library has two places for user input, user credentials for the purpose of signing into personal accounts, and search input. No input error suggestion is appropriate for signing in. Search does not offer error suggestion but does offer search suggestions as the user types to help prevent errors ahead of time.

Criteria	Conformance Level	Remarks and Explanations
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Web: Supports	
Also applies to:	Electronic Docs: Not	
Revised Section 508	Applicable	Web: User input for financial transactions (the purchase
 501 (Web)(Software) 	Software: Not Applicable	of a subscription) is reversible, checked, and confirmed.
504.2 (Authoring Tool)	Authoring Tool: Not	
602.3 (Support Docs)	Applicable	

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Notes:

Chapter 3: <u>Functional Performance Criteria</u> (FPC)

Notes: Based on direct testing with a variety of software assistance technologies on both PC and Mac platforms

Criteria	Conformance Level	Remarks and Explanations
302.1 Without Vision	Supports	The BioOne Digital Library uses standard markup language to describe the identity, operation, and state of user interface elements. This affords basic functionality with common assistive technologies such as the NVDA and ChromeVox screen readers.
302.2 With Limited Vision	Supports	Support for standard browser magnification and contrast adjustments
302.3 Without Perception of Color	Partially supports	In the basic site design, color is not used to solely to convey information, however, much of the scientific content on the site revolves around color and some of that content would be difficult to understand without color perception.
302.4 Without Hearing	Supports	Audio content (which is always paired with video content) is accompanied by full-text, searchable, transcripts.
302.5 With Limited Hearing	Supports	Audio content (which is always paired with video content) is accompanied by full-text, searchable, transcripts.
302.6 Without Speech	Not applicable	The BIOONE Digital Library does not require speech input.
302.7 With Limited Manipulation	Supports	Supports standard and specialized computer input mechanisms meant for web browsing. The BIOONE Digital Library

Criteria	Conformance Level	Remarks and Explanations
		does not require fine motor skills or
		simultaneous input actions to navigate.
302.8 With Limited Reach and Strength	Not applicable	
302.9 With Limited Language, Cognitive, and Learning Abilities		Supports in the sense of web site
	Supports	operation and navigation. Comprehension of the content is highly individualized.

Chapter 4: <u>Hardware</u>

Notes: The BIOONE Digital Library is a web-based software product and is not subject to the requirements of this section.

Chapter 5: <u>Software</u>

Notes: The BIOONE Digital Library has not yet been evaluated for compliance to the requirements of this section.

Chapter 6: <u>Support Documentation and Services</u>

Notes:

Criteria	Conformance Level	Remarks and Explanations
601.1 Scope		
602 Support Documentation		
		BIOONE provides accessibility information on a Help
602.2 Accessibility and Compatibility Features	Partially supports	page found at https://bioone.org/accessibility
602.3 Electronic Support Documentation	Supports	Found at https://bioone.org/help
602.4 Alternate Formats for Non-Electronic Support Documentation	Not applicable	BIOONE Digital Library support is supplied via electronic
		format and available via phone support services
603 Support Services		
603.2 Information on Accessibility and Compatibility Features	Supports	Support staff versed in accessibility and compatibility features of the BIOONE Digital Library are available.
603.3 Accommodation of Communication Needs	Supports	Support services are available through a range of communication methods to accommodate the

Criteria	Conformance Level	Remarks and Explanations
		communication needs of individuals with
		disabilities.