

A Switch to Digital: The Transition of the Journal of Weather Modification to Online Publishing

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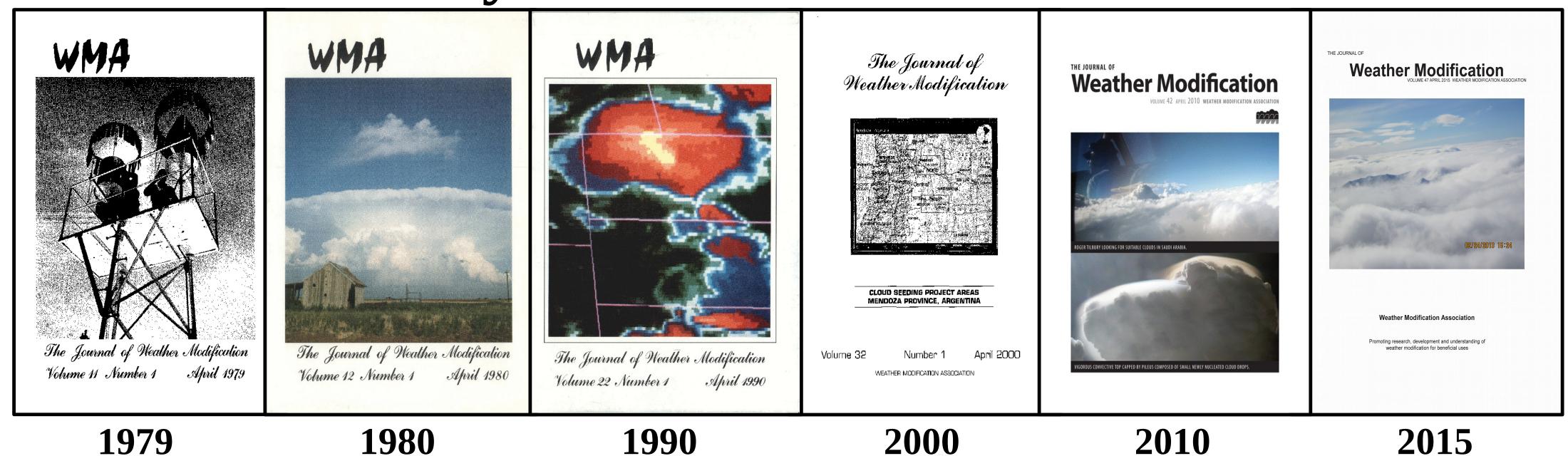


Introduction

The Journal of Weather Modification (Journal) is the official organ of the Weather Modification Association (WMA). Found at http://www.weathermodification.org/publications/, the Journal publishes peer-reviewed scientific papers on weather modification and related subjects. Shorter notes and correspondence, including reports about weather-modification-related activities, are considered for publication at the discretion of the editor.

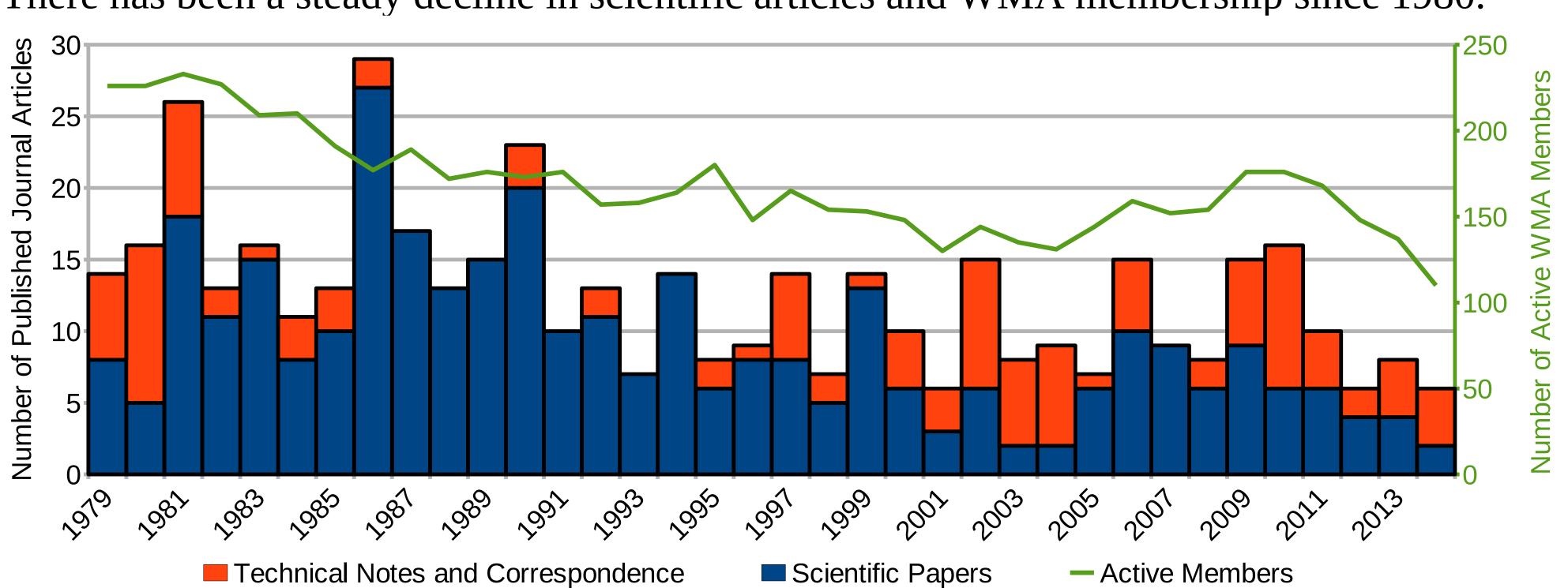
The Journal published its first issue in 1969 and added a peer-reviewed section in 1979. In 2010, the Journal started its transition to online publishing, which was completed in 2014 with all articles since 1979 available on the Journal's website. Titles, authors, and abstracts of online articles are fully searchable as part of the Open Journal System (OJS) software used to manage the website. The OJS software has been recently upgraded to version 2.4.5 and is hosted on the same server that supports the WMA website.

History of the Journal in Pictures



Statistics of the Online Journal

- 330 peer-reviewed scientific articles from 1979-2014 are available online, with an average (μ) of 9.43 articles per year (apy) and a standard deviation (s) of 5.52 apy.
- 450 total articles are available over the same 35-year period ($\mu = 12.86$ apy and s = 5.38 apy).
- Online Journal statistics indicate abstracts from the 2009 to 2014 articles have been viewed over 7,500 times since being released in early 2013.
- The Journal's website currently has 188 registered users.
- There has been a steady decline in scientific articles and WMA membership since 1980.



Plot showing published Journal articles and active WMA membership between 1979 and 2014. Blue bars depict Scientific Papers published and red bars depict Technical Notes and Correspondence published. The green line shows the number of active WMA members.

The Publishing Process **Publication Timeline** Submission Select **Submission Review Conducted Publication** Reviewers Weeks after Submission **Author Management Editor Submission Review Journal Management** Submission a) Check submission. Sets up and configures Journal by author uploads paper to Journal b) Conduct peer review. website and enters metadata for Open nrolling editors, reviewers, opyeditors, and proofreaders. Archives Initiative (OAI) indexing. c) Reach editorial decision. **Submission Editing Submission Revision Select Reviewers** a) Copyedit submission. Editor solicits reviewers from Author can track progress and see qualified individuals. b) Edit the layout of the galleys. reviewers' comments. If required by the editor, authors can submit a c) Proofread galleys. Time Allotted: 1 week the reviewers' comments. Time Allotted: 2 weeks **Issue Management Review Conducted** a) Create new online journal issue. commendation (which may be rate b) Upload papers to website. **Submission Review** c) Organize Table of Contents. Author reviews, copyedits, and Time Allotted: 4 weeks Time Allotted: 2 weeks **Publication** Copyediting Articles are available immediately online (with subscription) and open **Legend** pyeditor formats the text and access is available after one year. figures into a two-column layout. Journal Manager Time Allotted: 3 weeks Time Allotted: 2 weeks **Layout Editing** Reviewer **Current Issue** Layout editor prepares galleys in Copyeditor/ Items appear with Reading Tools Layout Editor/ Time Allotted: 1 week linking to related internal and Proofreader external resources, like sharing article Proofreading links on social media. Proofreader reviews PDF file for Reader Time Allotted: 1 week The publishing process used by the Journal of Weather Modification is shown in the flow chart. Author **Submission Archive** responsibilities are given in the left column, editor Complete records of the submission responsibilities are given in the middle column, and process are kept for published and responsibilities of the online journal site manager, paper declined items. reviewers, and the copyeditor are given in the right column. The box background color represents the person that conducts each task. Approximate time to complete each Journal Archive major task is given in italics. With one round of review, the Browse issues with indexing by OAI anticipated length of time from article submission to online earch engines, as well as Google. publication is 16 weeks.

Past and Current Journal Editorship

1969-1991: Thomas J. Henderson, Atmospherics Incorporated

1992-2002: James R. Miller, South Dakota School of Mines and Technology

2003-2006: Steven K. Chai, Desert Research Institute

2007-2011: Andrew G. Detwiler, South Dakota School of Mines and Technology

2012-Present: David J. Delene, University of North Dakota

Frequently Asked Questions

Where can I find the Journal of Weather Modification online?

http://www.weathermodification.org/publications/

What can I find on the Journal's website?

Tools to submit, track, and review articles are available on the website. The current issue and all articles dating back to 1979 are also available. All articles are fully searchable via the website and search engines like Google.

How can I download PDF files from the Journal's website?

After searching for the desired article(s), click on the "PDF" link in the right column of the desired article and you will be directed to a PDF viewer within the browser. The PDF can be saved via the "Download" button.

Do I need a membership to view Journal issues or articles?

A library subscription, WMA subscription, or individual membership to the Journal is required to view articles in the most recent issue. After one year, all articles are freely accessible and open to the public.

How do I include figures in the submission of my article?

Include figures within the submitted document. In addition, submit all figures as supplemental material with a resolution of at least 220 dots per inch (dpi) or 1200 pixels per inch (ppi).

Future Work

- Provide all members with Journal accounts and membership subscriptions.
- Actively solicit papers for Technical Notes and Correspondence section, including papers describing methodologies used in weather modification.
- Implement Completely Automated Public Turing Test To Tell Computers and Humans Apart (CAPTCHA) to safeguard against automatic account creation on the Journal website and allow users to create their own accounts, instead of having to request account creation.
- Implement a Digital Object Identifier (DOI) numbering system for each article for easy reference tracking and individual article identification.

Current Editorial Board

Dr. José L Sánchez, University of León, León, Spain
Don Griffith, North American Weather Consultants, Sandy, UT, USA
Dr. Jeffrey Tilley, Open Science Associates, Reno, NV, USA
Daniel Breed, National Center for Atmospheric Research, Boulder, CO, USA
Daryl O'Dowd, Weatherdyne International, Calgary, AB, Canada