

JOURNAL NOTES

A charge of \$100.00 per page will be applied to each scientific paper, technical note, correspondence and book review accepted for publication in Volume 49, which is scheduled to be published in April 2017. Authors wanting immediate open access have the option to pay a \$200 fee to have their publication be immediately available to everyone, instead of have the article restricted for the first year after publication. Papers from sources outside the United States will also be required to pay these charges (U.S. currency). The full amount of the publication charge must be prepaid to Weather Modification Association (WMA) before publication. Authors wishing to submit an article should review the submission instructions in detail and create an online account at <http://www.weathermodification.org/publications>.

Authors will receive free online access to the Journal of Weather Modification. Members who are delinquent in dues will not receive online access. WMA members will also receive free online access to the Journal of Weather Modification. Hard copies of the 2016 issue will only be printed for libraries and individual subscriptions. WMA members will have the option of paying a \$30 fee when renewing their yearly membership dues to receive a hard copy of the Journal. In addition to advertisements being in the printed Journal, advertisements will appear in the online Table of Contents and on a special Web Page that is linked to from the Journal's Web site.

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FAX: (701) 777-5032
Email: seyler@atmos.und.edu

INSTRUCTIONS FOR AUTHORS

1. SUBMISSION

1.1 General Submission Requirements

Manuscripts prepared for submission to the Journal of Weather Modification should be submitted as digital word processor files (Open Document Format or Microsoft Office Format). Authors need to submit articles online using the Open Journal System. The Journal Editor may be contacted by email using jwm@atmos.und.edu.

The Journal of Weather Modification publishes peer-reviewed scientific papers on weather modification and related subjects. Notes, correspondence and book reviews about weather modification related activities are published in a non-peer reviewed section of the Journal. Scientific papers related to the following topics will be considered for publication:

- Weather Modification Research
- Weather Modification Operations
- Impacts of Human Activity on Weather and Climate
- Cloud and Precipitation Microphysics
- Aerosol-cloud Interactions
- Instrumentation for Aerosol and Cloud Physics Research
- Geoengineering

All manuscripts should be formatted as single column document with double-spaced lines. Use a common easily-readable font in the size range from 10 to 12 points. Tables should be inserted at the end of the document, following the reference list. Use one page per table. Table captions should be presented above the tables. Figures with captions should be listed sequentially at the end of the document, following any tables. All figures should also be submitted as separate supplemental files online in one of the following formats: eps, png, gif, bmp, or tif. Avoid color or shaded filling in figures. Figures should use text for symbols, axis labels, legends large enough so that if the figure is reduced to fit into one column

of a two-column page format, the text is approximately 11 point font size. Eleven point fonts is the size used for text captions in the Journal.

1.2 Manuscript Style Details

Titles of papers should be informative but short (preferably less than 10 words). Below the title, a blank line should be inserted followed by a comma separated list of the full name of all authors. After each the author's name, a numerical superscript (1, 2, 3, etc.) should be used to identify the different affiliations of the authors. Following the author list, a blank line should be added and then the list of affiliations. Each affiliation should be on a different line and start with its corresponding numerical superscript (1, 2, 3, etc). The next line should identify the corresponding author. Starting the line with "Corresponding Author:" and then provide the full name of the author where correspondences related to the article should be sent. It is recommended that the corresponding author's email address be provided in parentheses at the end of the line. A blank line should be inserted before the start of the abstract.

An informative abstract of approximately 50 to 300 words must precede the main body of each paper. The abstract should contain numerical results and all conclusions, not just a description of the problem and methodology. Abstracts should not contain equations or references. All acronyms used in the abstract need to be defined on their first usage.

The manuscript should be divided into sections of approximately 300 to 2,000 words each. Each section should start with an arabic-numbered heading that is flush left, be in all capital letters and have bold fonts. Subsection headings should be decimally numbered, use capital letters for the first letter of all main words, underlined all words in the heading and be flush left. Leave one blank line before and after all headings, between paragraphs, and place one blank line between each of the references in the reference listing. Acknowledgments should be placed at the end of the manuscript.

edgments (of financial support, provision of data, loan of equipment, advice, etc.) should be given in a final section of the manuscript, preceding references.

Captions should completely describe what is presented within a table or figure. Tables and Figures, with their caption, should be understandable independent of the text discussion. Hence, all acronyms and symbols used in a table or figure needs to be defined in the caption, even if it has been defined previously in the text discussion. If an earlier figure defined acronyms or symbols used in a later figure, reference can be made to that figure instead of a definition. The text should discuss the author's interpretation and conclusions resulting from all tables and figures presented in a manuscript.

1.3 Units and Measures

In general, the International System (SI) of Units is the standard in the Journal of Weather Modification. SI units (m, kg, s, K) should be used throughout but not at the expense of clarity. Formulas and equations may be numbered, at the extreme right end of the line. Formulas can be referenced in the text, e.g. "Substitution of Eq. (3) into Eq. (5) yields..."

1.4 References

Every reference in the reference list should be cited at least once in the manuscript's text. Each reference should be generally available, as in the library of a large university. Contract reports, conference preprints, in-house publications, and similar material may be cited only if easily available from a public source, or if the author guarantees to supply copies upon request.

The style of references should follow that of American Meteorological Society Journals. References should give author(s) (last name first for first author only, initials followed by last name for subsequent authors), year, title, journal or publisher, volume and inclusive pages. Well-known journal titles may be abbreviated (J. Wea. Mod., J. Appl. Meteor., Bull. Amer. Meteor. Soc., Amer.

Geophys. Union, etc.), but others should be given in full. Referenced material found at web sites should be listed in the reference list with the author (if known), the institution responsible for content on the web site, the website URL, and date of access. For any reference in a foreign language, the title should be in the original language, with an English translation in parentheses. If material is referenced from a work that has appeared in multiple editions, place and year of first publication should be given, with any reprinting identified in parentheses.

2. REVIEW

Typically two reviews are requested for each paper. Reviewers are asked to provide their review within four weeks and to address the following questions:

- Is the study an original contribution in the weather modification field?
- Are there errors in inference, interpretation, or mathematical analysis?
- Can the material be applied in the weather modification field?
- Is the presentation clear, concise and organized?
- Does the abstract summarize the research in clear terms?
- Is the material presented in sufficient detail to allow the research to be reproduced?

The online Open Journal System is used to review all manuscripts submitted to the Journal. Experts are asked by the Editor to provide anonymous review of submitted articles. Articles submitted to the Scientific Papers section are held to a high standard of scientific rigor. Reviewers are asked to assess the quality of the paper and to provide comments that justify their assessment. If there is enough merit in the manuscript to lead the Editor to expect that the manuscript can be published as is, or after modest modifications, reviewer comments returned to the editor are compiled anonymously and returned to the authors. Authors are asked to revise their papers in light of the reviewers' comments and to provide a response to the editor concerning how these comments were

addressed by revisions, or why the authors felt the comments were not useful for clarifying and improving their paper. The Editor will then make a final decision to accept or reject the paper for publication.

If the reviewers have significant concerns about a manuscript, and the editor judges that extensive modification will be required in order to make it suitable for publication, or that the manuscript is so flawed that it cannot be rendered suitable for publication with a reasonable amount of effort, the paper will be rejected and reviewer comments returned to the authors with a summary explanation of the factors leading to the rejection.

Once the editor has accepted a manuscript, the editorial assistant will format it in the Journal format and return a digital copy to the corresponding author for approval. To allow for the creation of high quality manuscripts, authors should submit image files with a resolution of at least 220 dpi as supplemental files online in a standard image file format; for example, eps, png, jpeg, gif, bmp, or tif.

3. COPYRIGHT AND PUBLICATION

Authors that submit papers for publication agree to the Journal's copyright and publication terms. Authors retain copyright and grant the journal right of first publication with the work simulta-

neously licensed under a Creative Commons Attribution License that allows others to share the work with an acknowledgement of the manuscript's authorship and initial publication in Journal of Weather Modification. Authors are able to enter into separate, additional contractual arrangements for the non-exclusive distribution of the journal's published version of the work (e.g., post it to an institutional repository or publish it in a book), with an acknowledgement of its initial publication in the Journal of Weather Modification. Authors are permitted to post their work online (e.g., in institutional repositories or on their website) prior to and during the submission process to encourage productive exchanges and greater citation of the published article.

Articles are published online using restricted access for the first year. After the first year, articles are made freely available online. Immediate open access for an article may be obtained by the author paying an open access fee which is in addition to the normal page charges. Authors are expected to honor a page charge in order to support publication and distribution of the journal. After the author approves the gallery formatted version for publication, the Weather Modification Association's Secretary will invoice the corresponding author for the page charges and payment is due within 30 days.

QUALIFICATIONS AND PROCEDURES FOR CERTIFICATION

PURPOSE OF CERTIFICATION

One of the stated purposes of the WMA is to encourage and promote the highest standards of conduct. In order to further this goal and to protect the public interest, the WMA has established a certification program for individuals qualified to manage and/or operate weather modification field programs of a research or operational nature.

Two types of certification have been established:

(1) a Certified Weather Modification Manager who has the character, knowledge, and experience necessary to design, manage, evaluate, and have overall responsibility for a weather modification program; (2) a certified Weather Modification Operator who has the character, knowledge, and experience necessary to provide the day to day, on-site supervision of a weather modification field program.

QUALIFICATIONS FOR CERTIFICATION

Weather Modification Manager- Certification shall be based on character, knowledge, and experience. Certification shall be granted at the discretion of the Certification Board, but the following shall be considered minimum requirements:

Category A: Eight years (96 active months) experience in weather modification research and/or operations.

Category B: A Bachelor's Degree with at least 25 semester hours of meteorology plus five years (60 active months) experience in weather modification research and/or operations.

Category C: A Master's Degree or Doctorate in Atmospheric Science and three years (36 active months) experience in weather modification research and/or operations.

The experience requirement may be fulfilled by either fulfilled by either field work or office or laboratory studies.

In addition to the above requirements, the applicant must pass a written examination (open book type) and an oral examination by the Certification Board. The applicant must also submit a report authored or co-authored by the applicant demonstrating the extent of his or her involvement in weather modification. The report must also be more than an operations report and must exhibit skills in research or the theory and practice of weather modification.

The applicant must also agree to accept and abide by the current WMA Code of Ethics and any Statement of Standards and Practices that the WMA has adopted at the time of application.

Weather Modification Operator- Certification shall be based on character, knowledge, and experience. Certification shall be granted at the discretion of the Certification Board, but the following shall be considered minimum requirements:

Category A: Twenty months actual "in the field" experience in weather modification research and/or operations.

Category B: A degree with at least 25 semester hours of meteorology and eight months actual "in the field" experience in weather modification research and/or operations.

The field experience must be in a project or projects designed to effect a change in the weather. Actual manipulation to produce a desired change in implied. The experience needs to be in a "responsible charge" position involving making treatment decisions and project management.

An oral examination may be required of the applicant. The applicant must agree to accept and abide by the WMA Code of Ethics and any Standard and Practices that the WMA has adopted at the time of application.

References are required from the employer, sponsor, or project manager for any field experience claimed. No experience credit will be given for any claimed time which is not supported by a favorable reference.

PROCEDURE AND FEES FOR CERTIFICATION

Persons desiring certification as individuals qualified for managing or conducting field experiments or operations in weather modification shall write to the Secretary of the Weather Modification Association requesting an application forms and instructions. The completed application form shall be returned to the Secretary and must be accompanied by a check in the amount of \$150.00 for a Certified Manager application and \$75.00 for a Certified Operator application made payable to the Weather Modification Association. This fee will be retained by the Weather Modification Association whether the application is accepted or denied.

The Certification Board shall review the application form and all other information required and will determine whether the applicant has satisfied the requirements for certification. The Certification Board may request additional information from the applicant prior to making a final decision as to whether or not the applicant meets the criteria for certification.

After review of the application, the Chairman of the Certification Board shall notify the applicant of the decision of the Board. If the applicant is approved, the Chairman of the Certification Board shall give the applicant a certificate to verify that the individual has met the qualification for certification.

Unsuccessful applicants may reapply for certification not earlier than one calendar year after notifi-

cation of disapproval. Each subsequent application for certification shall be accompanied by a payment of the normal fee.

PERIOD OF CERTIFICATION AND RENEWAL

Certification of a member shall be effective for a period of three years from the date of issuance. Application for renewal of certification shall be submitted prior to expiration date in writing and accompanied by a fee of \$150.00 for a Certified Manager or \$75.00 for a Certified Operator. The same fees apply for those seeking reinstatement after a lapsed certification. Issuance of renewal or reinstatement shall be granted by the Board if there has been no indication of violations of the WMA Code of Ethics, or the current statement on Standards and Practices, and the applicant provides evidence of a continuing involvement in weather modification during the preceding amounting to at least 20% of his or her professional working hours, or the applicant is deemed knowledgeable on the current status of weather modification technology as determined by the Certification Board. If the Board does not recommend renewal or reinstatement, the case may be presented for the consideration of the certified members at any regular meeting if the applicant requests. Renewal or reinstatement shall be denied only if a majority of the certified members in attendance at the meeting indicate by secret written ballot that renewal shall be denied. The fee will be retained whether renewal or reinstatement is granted or not.