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NEWSLETTER

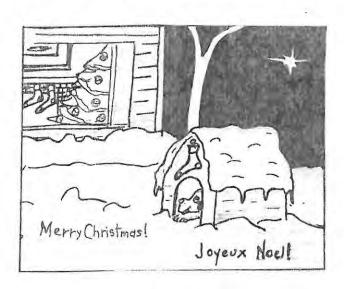


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DECEMBER 1980

Vol. 8 No. 6

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CMOS NEWSLETTER is a bi-monthly publication of the Canadian Meteorological and Oceanographic Society.

Editor:

Avard S. Mann
Atmospheric Environment Service
Argyll Centre
6325 - 103 Street
Edmoknton, Alberta
T5H 5H6

FROM THE PRESIDENT'S DESK

Since the last issue of the Newsletter went out in September, the Prizes and Awards Review Committee has become fully constructed and active. Its purpose is to review the present structure to see if the terms for these awards are still reasonable and whether new prizes might be inaugurated. present the Society has the Presidents Prize, the Andrew Thomson Prize in applied meteorology, the Graduate Student Prize, and the Rube Hornstein Prize in operational meteorology. basis for all but the last rests on the merits of a scientific paper or thesis produced by the nominee. The Committee is also asked to determine what form the prize should take (presently they are books, but plaques or medallions might be more appropriate). the Committee plans to look into the Society's Science Fair activities to see how our role should develop there for the purpose of encouraging interest in meteorology and oceanography.

The Chairman of the Prizes and Awards Review Committee is Dr. Richard Asselin, Director of Meteorology and Oceanography, National Defence Headquarters, Ottawa, Ontario, K1A OK2. Should you have any suggestions or wish to make a submission or proposal on these topics, please contact him. His phone number is (613) 995-4173.

The decision to establish a permanent office for the CMOS, through a sharing agreement with the Canadian Association of Physicists, was approved by Council on October 16. The details are as described in the previous Newsletter. Leo O'Quinn, the Chairman of our Ottawa Centre, and I will be meeting with the CAP's Executive

Secretary later in November to work out the details. A committee has been set up, chaired by Henry Leighton, to supervise the transfer of membership lists, renewal notice handling, etc. from the U of T Press to the new office during 1981. This year's renewal notices will be issued from the latter organization as in the past. If you have any suggestions on this topic, please contact either Dr. Henry Leighton, Department of Meteorology, McGill University (Phone 514/392-4443) or myself.

The AES Speakers Tour is in the process of arranging lecture dates. This year, for the first time, it will be split into two halves, one speaker visiting the western Centres, as far as Toronto, and the other, those Centres and Chapters from Ottawa east. The Western Tour Speaker will be Dr. W. E. Emery, UBC's Oceanography Department, whose topic will be Remote Sensing Applications. The Eastern Tour Speaker will be Dr. G. Austin of McGill's Meteorology Department whose topic will be Weather Radar. As in the past, Roy Lee, AES Downsview will be arranging the speaker's itineraries. Should Centres have particular preferred dates or days of the week in mind, they should contact him as soon as possible; his phone number is (416) 667-4804.

The first meeting of the Canadian National Committee for the World Climate Research Program was held on October 24 at AES Headquarters. This program and the committee are essentially the successors to GARP and its scientific committee. The CMOS had been asked to submit names for consideration, which we did. NRC has initially appointed six members, drawing on our nominees and others in the process. The present committee consists of: Warren Godson, Phil Merilees, Jacques Derome, Chris Garrett, Tim Oke and myself (all incidentally CMOS members). The inaugural meeting was convened by Warren Godson, who assumed the duties of pro-tem chairman, with the first item of business to establish the Committee's terms of reference.

National Committees set up by NRC, had a governmental as well as a non-governmental role. This is because the World Climate Research Program is not purely a creation of ICSU (International Commission for Scientific Unions, a "non-governmental" international body) but was joint between it and the World 'Meteorological Organization (the WMO being a governmental international body). This dual role suggested that membership and reporting features of the CNC/WCRP should reflect this duality. After considerable discussion around the table, it was recognized that on the governmental side the Oceans and Aquatic Sciences branch of the Fisheries and Oceans Department should also be involved, due to their active concern with climate change and climatologial research. Hence it was agreed that NRC would select members to CNC/WCRP in future through consultation with AES, OAS, and the CMOS, and that the Committee so constituted would have official contacts with both these government agencies (as well as directly with NRC and the CMOS itself).

At the end of the meeting it was agreed to stay with the present six member size, as well as with the pro-tem chairman, until the next meeting.

To further clarify the role of CMOS it was agreed that the CMOS President would be an "ex-officio" member of the Committee. Further clarification of the role of this Committee vis-a-vis the Canadian Climate Program and its super-structure as well as the appointment of additional ex-officio members to establish such linkages, must await the next meeting (or at least the receipt by myself of the minutes of the last one!)

J.Maybank President

Just prior to printing this NEWSLETTER, John Maybank advised us that he and Hank Jones met with Miss Mona Jento of the CAP office and had worked out details for the initial integration of CMOS secretariat functions.

We now have a permanent address:

CMOS/SCMO
Suite 903
151 Slater Street
Ottawa, Ontario
K1P 5H3
Telephone (613) 237-3392

Correspondence directed to this address will be forwarded to the appropriate officer in the Society.

Editor's Notes:

- 1. We regret the transcription errors which slipped through in the last issue which can only be attributed to our enthusiasm to get copy into your hands as soon as possible. In particular our apologies to Dr. Maybank for introducing an element of contention into the title of his article on "Office Sharing with CAP" when we substituted "Friction" for "Fruition". Also to Dr. Lozowski for misspelling his name on Page 9 and to Morley Thomas for the error in initials on Page 3, we express our apologies.
- 2. You will note changes in the CMOS constitution approved at Fourteenth Congress in May 1980 are attached as the last page of this NEWSLETTER. Please detach this page for your record.
- 3. The second last page is a questionaire on the Special Interest Group. AIR POLLUTION METEOROLOGY. This page also may be detached to be completed and sent to Randy Angle.

NEWS FROM THE CENTRES

Saskatchewan Centre:

The Centre's time has been mainly spent on arranging for the upcoming Congress and membership. A meeting is planned for December for the election of a new executive. Dr. John Gregory will speak on his recent trip to Australia where he presented a paper on the Relationship of Sun Spots to Climate.

Ottawa Centre:

The CMOS Ottawa Centre held its first speaker meeting of the year on 9 October 1980. Mr. Gerry Gainer of Gulf Canada spoke to 22 Centre members on the subject of the Environmental Assessment Process. Mr. Gainer's talk reviewed the many factors, including meteorology, considered during the environmental are assessment of a site prior to its selection as an industrial location.

This year the Ottawa Centre is trying out the idea of Tuncheon meetings. The 9 October meeting was held at noon hour and our second meeting, planned for 19 November, will be a repeat performance. The venue, a downtown officers mess (separate room), provides an opportunity for members to socialize over lunch prior to the scheduled speaker, and the feedback received so far on this concept has been positive. Dr. Keith Raney of the Canada Centre for Remote Sensing will speak on 19 November on "Remote Sensing of the Marine Environment".

Newfoundland Chapter: The first meeting of the 1980-81 season was held on September 17, 1980. The guest speaker was Dr. Boston who gave a talk entitled "So You Want To Be A Consultant". On October 16, Dr. Boston again gave a talk to a combined meeting of CMOS and the Marine Technology Society. The title of this talk was "The Global Weather Experiment".

> The Newfoundland Chapter has just finished awarding prizes for its 1979-80 school contest for the best project related to meteorology or oceanography. first prize of \$100 was awarded to Mount Peal Central High. The second prize of \$50 was awarded to Hollands Memorial High, Norris Point, and the third prize, a book, was awarded to Grand Collegiate, Springdale.

> The sponsors of the 1979-80 contest were: FENCO Nfld. Ltd., NORDCO Ltd., Hydrospace Marine Services, C-CORE, Remote Applications Inc., Harvey's Offshore and Seaconsult Ltd.

Halifax Centre:

The season for CMOS began with an executive meting at the Chairman's residence. Present were this year's Treasurer, Mr. David Huntley; Secretary, Mr. Denis Lefaivre; and Chairman, Mr. Fraser MacNeil. Items discussed included times of regular meetings, finances, possible speakers, etc.

The first regular meeting was held November 5, 1980, at the Bedford Institute of Oceanography. Mr. Ken Curren, the recent recipient of a CMOS merit award, was the guest speaker. Mr. Curren provided a very interesting talk on his past and present involvement in the "KURDISTAN" oil spill, which occurred off the East Coast in March of 1979.

Winnipeg Centre:

On Monday, October 20, 1980 the Winnipeg Centre CMOS had a dinner meeting with Professor Alan Catchpole as the guest speaker. Dr. Catchpole is a climatologist who has been working with the Natural Science Museum group in Ottawa which has been working on a long-term climatology covering thousands of years. The area Dr. Catchpole is working on is the historical period. In his talk, he showed how records and logs kept by Hudson's Bay Company factors could be used to construct a consistent picture of river freeze-up and break-up and this, in turn, could be used as an indicator of climatology in the Hudson Bay area during the eighteenth and nineteenth centuries. This data correlated fairly well with climatological patterns showing up in other parts of North America...such as the very cold decade of 1810-20. Dr. Catchpole also outlined some new work he is doing on sea ice intensity which he is gleaning from the logs of ships which passed through the straits between Quebec and Baffin Island on the way between London and Hudson Bay. This study is an interesting mix of climatology, history, and detective There were many questions from the interested audience afterward and we look forward to more results from Dr. Catchpole's work.

Alberta Centre:

The first meeting of the season was held on Wednesday, October 22, 1980. The Centre was fortunate in being able to enlist the services of Mr. Roger Weldon of NOAA/NESS as the evening's speaker. Mr. Weldon was in Edmonton to present a satellite seminar to operational meteorologists from the Alberta and Arctic Weather Centres. The presentation centred around a selection of satellite loops and was especially enjoyed by our retired members. Also shown was a loop of the initial Mt. St. Helens' eruption.

COMMITTEES AND LOCAL EXECUTIVES

1980-1981

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T. R. Oke

H. W. Teunissen

R. E. Thomson

N. Yacowar

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1980-1981

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Ottawa	L. D. O'Quinn Can. Committee on Oceanography 240 Sparks Street 7th Floor W Ottawa, Ontario K1A OE6 (613) 995-5659	R. (Bob) L. Jones 24 Higgins Road Nepean, Ont. K2G OR5 (613) 995-4135

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B3M 1L3

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Dept. of Forest Resources University of New Brunswick

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(506) 453-4501

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Memorial University of Nfld.

St. John's, Nfld.

A1B 3X9

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St. John's, Nfld.

A1C 6B4

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Dr. Ron W. Burling

Dr. Jacques Derome

Mr. Pat Dillistone

Dr. David Huntley

Dr. Phil Merilees

Dr. Art Reinelt

NEW AND SUSTAINING MEMBERS

New Members

Steven M. Zubrick Kettering, Ohio Eduardo Freire Toronto, Ontario

Eugene V. Guy Musgrave Harbour, Nfld. Andre Sevigny Laval, P.Q.

Brian J. O'Donnell Kanata, Ontario

Stephen Peck Quebec, P.Q.

Richard Corman Victoria, B.C.

Sustaining Members

Airflow Development Canada Ltd. Richmond Hill, Ontario

Beak Consultants Vancouver, B.C.

Bristol Aerospace Ltd. Winnipeg, Manitoba Hermes Electronics Ltd. Dartmouth, N.S.

Dobrocky Seatech Ltd. Victoria, B.C.

Nordco Ltd. St. John's, Nfld.

Younge Atmospheric Consulting Services Ltd. Calgary, Alberta MacDonald Dettweiler Assoc. Ltd. Richmond, B.C.

Plansearch Inc. Dartmouth, N.S.

Ontario Hydro Toronto, Ontario

N. Sargent Downsview, Ontario Bendix Aviation Electric Ltd. St. Laurent, P.Q.

We wish to apologize to Dr. Sargent and Ontario Hydro for omitting their names from the list of Sustaining Members in the previous NEWSLETTER.

CALL FOR NOMINATIONS - 1980 AWARDS

Nominations are requested from members and Centres for 1980 CMOS Awards to be presented at the 1981 Annual Meeting. Four awards are open for competition: (1) the President's Prize, for an outstanding contribution in the field of meteorology and/or oceanography by a member of the Society; (2) the Dr. Andrew Thomson Prize in Applied Meteorology, for an outstanding contribution by a member in that field; (3) the Graduate Student Prize, for a contribution of special merit; and (4) the Rube Rube Hornstein Prize in Operational Meteorology, for outstanding service in providing operational meteorological service. The awards will be made on the basis of contributions during the 1980 calendar year, except (4) which may be awarded, also for work performed over a period of years.

Nominations are also requested for the award of citations to individuals or groups in Canada who have made some outstanding contribution to help alleviate pollution problems or in developing environmental ethics.

All nominations should reach the corresponding secretary no later than February 1, 1981.

APPEL AUX CANDIDATURES POUR LES PRIX ET CITATIONS 1980

On demande aux membres et aux centres locaux de soumettre leurs nominations aux candidatures pour les prix de la Société pour l'année 1980. Il y a quatre prix: (1) le prix du président pour un travail exceptionnel en météorologie et/ou océanographie par un membre de la Société; (2) le prix de météorologie appliquée Dr. Andrew Thomson pour un travail exceptionnel dans ce domaine par un membre; (3) le prix aux étudiants gradués et, (4) le prix de météorologie opérationnelle Rube Hornstein pour un travail exceptionnel dans l'exploitation des services météorologiques.

Tous les prix seront attribués pour un travail qui a été effectué durant l'année 1980, à l'exception de (4) qui peut aussi être attribué pour un travail effectué durant une période couvrant plusieurs années.

On demande aussi des nominations de candidats susceptibles de se voir décerner une citation par la Société. Une citation peut être décernée à un individu ou à un groupe qui a apporté une contribution exceptionnelle à la solution des problèmes de la pollution, à l'amélioration de l'environnement ou au développement d'une éthique écologique.

Toutes les nominations recueillies par le secrétaire-correspondant avant le ler février 1981 seront remises aux comités des récompenses et des citations, selon le cas.

THIRD INTERNATIONAL SYMPOSIUM ON ARCTIC GEOLOGY June 28 - July 1, 1981

sponsored by the

CANADIAN SOCIETY OF PETROLEUM GEOLOGISTS

ARCTIC SYMPOSIUM COMMITTEE

612 Lougheed Building

Calgary, Alberta, T2P 1M7

CALL FOR PAPERS

The Chairman of the Technical Program Committee would like to issue a call for papers to be presented at the Third International Symposium on Arctic Geology which will take place at the Calgary Convention Centre on June 28 to July 1, 1981.

The Symposium will emphasize Arctic resources and the advances made in Arctic resource development.

The following are the sessions and a list of possible subjects to be presented at the meeting:

Geology:

Stratigraphy, geochemistry, structural geology, hydrocarbon resources - existing and potential, regional and geological studies.

Mining:

Mineral occurrences, mining operations and logistics, arctic exploration techniques.

Technology: Drilling and production systems, pipelines, liquid natural gas, arctic transportation.

Geophysics:

Data gathering, seismic velocities, permafrost problems, seismic stratigraphy.

Permafrost:

Engineering problems, occurrence.

Hydrates:

Occurrence, drilling problems, production problems.

Coal, Thermal Energy, Oil Sands:

Other Resources & Environment: Human resources, fisheries, wildlife, biology.

Approximately 90 papers will be selected with each paper being no longer than 25 minutes in presentation time. Titles submitted should be accompared by an abstract, not exceeding 250 words, and should be submitted as soon as possible but no later than October 31, 1980 to:

> Mr. D. C. Waylett Panarctic Oils Ltd. 703 - 6th Avenue SW Calgary, Alberta, T2P 2H6



Canadian Meteorological and Oceanographic Society La Société Canadienne de Météorologie et d'Océanographie



CALL FOR PAPERS

FIFTEENTH ANNUAL CONGRESS

The Fifteenth Annual Congress and Annual General Meeting of the Canadian Meteorological and Oceanographic Society will be held at the University of Saskatchewan, Saskatoon, Saskatchewan on May 27-29, 1981. The THEME for the Congress will be HYDROMETEOROLOGY. In addition to invited and contributed papers, relating to the general theme, complementary sessions will be held on waves and tides, drought management activities, the Canadian Climate Program, environmental assessment, stratospheric dynamics, remote sensing, polluted precipitation any other aspects of meteorology and oceanography depending on contributions. Poster sessions may be held depending on response.

Sessions on air pollution meteorology, sponsored by the Air Pollution Meteorology Special Interest Group of CMOS, will be featured concurrently with the Congress sessions. A separate bound volume of the proceedings of the air pollution sessions will be published and authors must submit camera-ready texts at the meeting. Instructions on format will be forwarded on acceptance.

Titles and definitive ABSTRACTS (less than 300 words), intended both for the Congress and special air pollution sessions, should reach the program committee by 1 FEBRUARY 1981 and should be addressed to Dr. Barry Goodison, Hydrometeorology Division, Atmospheric Environment Service, 4905 Dufferin Street, Downsview, Ontario M3H 5T4. Telephone (416) 667-4914. Please indicate if the paper is intended for the special air pollution sessions and if your paper would be suitable for presentation in a poster session.

Precongress activities, including tours, are planned for May 26. In addition, commercial exhibits will be on display during the Congress. Organizations interested in obtaining display space should contact:

P. Perkins c/o SED Systems Ltd. P.O. Box 1464 Saskatoon, Saskatoon S7K 3P7 Phone: (306) 664-1762



Canadian Meteorological and Oceanographic Society La Société Canadienne de Météorologie et d'Océanographie



INVITATION A PRESENTER DES COMMUNICATIONS

QUINZIEME CONGRES ANNUEL

Les quinzièmes congrès annuel et réunion générale annuelle de la Société canadienne de météologie et d'océanographie auront lieu à l'université de la Saskatchewan, à Saskatoon (Saskatchewan) du 27 au 29 mai 1981. Le congrès a pour thème l'hydrométéorologie. Outre les communications présentées par des personnalités invitées et d'autres participants, sur le thème général, il y aura des séances complémentaires sur les vagues et les marées, les activités du programme d'étude de la sécheresse, le programme climatologique canadien, les études prospectives sur l'environnement, la dynamique stratosphérique, le télédetection, les précipitations polluées et en fonction de la participation, sur d'autres aspects de la météorologie et de l'océanographie. Des séances de demonstration pourront avoir lieu, également en fonction de la participation.

Le groupe spécial d'étude en météorologie de la pollution atmosphérique (SCMO) tiendra des séances dans ce domaine en même temps que les séances du congrès. On publiera par la suite, en un volume (relié) les actes des séances sur la pollution atmosphérique. Les auteurs devront donc nous fournir, lors de la réunion, leur texte prêt pour la photocopie. Nous leur enverrons les instructions à suivre pour la présentation des textes après que ces derniers aient été acceptés.

Le résumé définitif (moins de 300 mots) et le titre des communications destinées au congrès et aux séances spéciales sur la pollutior atmosphérique doivent parvenir au comité du programme, au plus tard le ler févier 1981. On doit envoyer le tout à M. Barry Goodison, Division de l'hydrométéorologie, Service de l'environnement atmosphérique, 4905, rue Dufferin, Downsview (Ontario) M3H 5T4, téléphone: (416) 667-4914. Veuillez indiquer si vous projetez de présenter votre communication lors des séances spéciales sur la pollution atmosphérique et si on peut l'inclure au programme d'une séance de démonstration.

Diverses activités (telles que visites organisées), sont prévues le 26 mai. De plus, une exposition commerciale aura lieu pendant le congrès. Les organisations désireuses d'y participer devraient contacter M. P. Perkins (c/o SED Systems Ltd., P.O. Box 1464, Saskatoon, Saskatchewan S7K 3P7; tél (306) 664-1762.

Aquatic Physics and Systems Divisions
N.W.R.I., Canada Centre for Inland Waters

P.O. Box 5050

Burlington, Ontario L7R 4A6

CALL FOR PAPERS

October 6-8, 1981

International Conference on Time Series Methods in Hydrosciences - Canada Centre for Inland Waters - Burlington, Ontario, Canada.

Scientists, statisticians and users of time series methods in limnology, hydrology, water quality control and forecasting and modelling of marine environments, are invited to participate in this Conference. Abstracts of proposed papers should be forwarded to A. El-Shaarawi at the above address before June 1, 1981. Final papers will be required by August 1, 1981. Address further enquiries to the above or telephone (416) 537-4584.

Canadian Geophysical Bulletin

A notice will be sent out early in December requesting contributions to Canadian Geophysical Bulletin summary of activities. The information requested relates three categories of papers:

- projects not reported elsewhere

- papers published in refereed journals, other papers and other contributions, and

 canadian theses on Meteorology and Atmospheric Sciences.

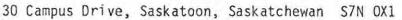
Contributions should be received early in January to ensure publication. Anyone wishing to contribute who has not received a notice should contact:

Ed Truhlar
Atmospheric Environment Service
4905 Dufferin Street
Downsview, Ontario
Phone: (416) 667-4528



Canadian Meteorological and Oceanographic Society

La Société Canadienne de Météorologie et d'Océanographie





FIFTEENTH ANNUAL CONGRESS

The Fifteenth Annual Congress and Annual General Meeting of the Canadian Meteorological and Oceanographic Society will be held at the University of Saskatchewan, Saskatoon, Saskatchewan on May 27-29, 1981. The theme of the Congress will be hydrometeorology. In addition to invited and contributed papers relating to the general theme, complementary sessions will be held on waves and tide, drought management activities, the Canadian Climate Program, environmental assessment, stratospheric dynamics, remote sensing, polluted precipitation and many other aspects of meteorology and oceanography depending on contributions.

Sessions on air pollution meteorology, sponsored by the Air Pollution Meteorology Special Interest Group of CMOS, will be featured concurrently with the Congress sessions. A separate bound volume of the Proceedings of the air pollution sessions will be published.

Precongress activities, including tours, are planned for May 26. In addition, commercial exhibits will be on display during the Congress.

REGISTRATION: Members \$35.00. Non-members \$55.00. Students \$10.00.

PRE-REGISTRATION BEFORE APRIL 15, 1981.

TOURS:

- No. 1 Cominco Potash Mine, May 26: 20 km from Saskatoon, tour of surface and underground facilities (limited to 30 people).
- No. 2 Cory Potash Mine, May 29: 20 km from Saskatoon, tour of surface and underground facilities (limited to 30 people).
- No. 3 Prince Albert Satellite Station, May 26 (all day): 170 km north of Saskatoon near Prince Albert. Receives pictures from Landsat and data retransmissions from hydrological stations. Return trip includes a stop at Batoche site of the Riel Rebellion 1885.
- No. 4 Gardiner Dam, May 26: 100 km south of Saskatoon, site of hydroelectric generating station Coteau on Lake Diefenbaker. Tour of powerhouse and tourist site.
- No. 5 Riverboat Trip, May 29: scenic three-hour riverboat cruise along the Saskatchewan River south of Saskatoon. Meal will be provided. (limited to 40 people). Weather permitting.
- SOCIAL EVENTS: A Wine and Cheese Party (\$5 per person) is planned for the evening of May 26 and the Banquet (\$15 per person) will be held on May 28.

Accommodation: All sessions (plus the socials) will be held on the University of Saskatchewan campus. Please make your reservation directly with the hotel of your choice indicating you are attending the Annual Congress and Annual General Meeting of the Canadian Meteorological and Oceanographic Society. Early reservations are recommended.

	University of Saskatchewan parameters of Colongs Direct Colongs Direct Colongs Size Colongs Size Size Size Size Size Size Size Size
	Single Double
1. Bessborough Hotel - 601 Spadina Crescent, (306) 244-5521.	\$36 \$42
Sheraton-Cavaller - 612 Spadina Crescent, (306) 652-6770.	37 44
3. Parktown Motor Hotel - 924 Spadina Crescent, (306) 244-5564.	22-35 26-39
 University of Saskatchewan Residence - (306) 343-4441. will be enclosed w 	Application forms with next NEWSLETTER.

\	e print)	
Address	Postal C	Code
Telephone	Employer	
	ration fee, as indicated: non-member (\$55) student (\$10	0) \$
I plan to attend the	following:	-
	☐ Banquet (\$15)	

Please return this form along with payment for registration and socials (cheques

Room 105 Kirk Hall

University of Saskatchewan

Saskatoon, Saskatchewan S7N OWO

made payable to the University of Saskatchewan) to: The Conference Office

Mail prior to April 15, 1981





AIR-SEA INTERACTION
Instruments and Methods

Edited by F. Dobson, Bedford Institute of Oceanography, Canada

L. Hasse, Universitat Hamburg, Germany Federal Republic and R. Davis, Scripps Institute of Oceanography, La Jolla, California.

An invaluable reference text, Air-Sea Interaction describes the practical experiences of experts engaged in field observations of air-sea interactions, as well as the instruments used. Specific topics covered include pilot balloon techniques, slow-response temperature sensors, oceanic radiation instruments, buoys, and free fall vehicles.

Contents

Velocity. Air pressure. Temperature. Oceanic microstructure. Humidity/gas exchange. The sea surface. Radiation. Precipitation. The atmospheric boundary layer. Platforms. Index.

814 pages, 1980

\$39.50 (\$47.40 outside US)

Plenum Publishing Corp.

THE ROLE OF AGROMETEOROLOGY IN AGRICULTURAL DEVELOPMENT AND INVESTMENT PROJECTS by G. W. Robertson

World Meteorological Organization - Technical Note No. 168 WMO No. 536.

Summary

Weather variability and climate affect nearly every facet of agriculture and therefore must be carefully appraised at different stages of investment and development projects: pre-project planning, investment planning, implementation, management, operation, and progress appraisal and revision. Pre-project planning and investment planning must also include a review, and recommendations if necessary, to assure that suitable agrometeorological services will be available for project implementation, management, operation, and progress appraisal and revision.

Services which a national Meteorological Service might be expected to provide through an agrometeorological unit are many. Weather monitoring and data processing are basic Liaison and co-ordination with agricultural personnel and the preparation of crop-weather calendars showing the determinant weather factors and periods at different stages in annual agricultural husbandry and crop cycles are essential services. Important services include: supporting research, training, agroclimatic analyses, and farm-weather forecasting. Microclimate modification, crop-yield forecasting, and other services determined by the nature and requirements of the individual development and investment projects.

All these services are needed in agricultural development projects. Where they are not available, the early planning for the investment project should initiate steps for development or strengthening of an agrometeorological service within the administrative framework of the national Meteorological Services. This may involve:

- (1) a consultative mission by WMO to determine the agrometeorological service requirements and make recommendations regarding their development;
- (2) provision of funds for equipment for observing sites, fellowships for foreign training in agrometeorology, and a long-term expert to assist with the organization and development of the proposed service and with the training of professional and supporting staff.

SYMPOSIUM ON FOREST METEOROLOGY by the World Meteorological Organization. W. E. Reifsnyder, Symposium Director. 1979. 234 pages. \$10.00. Paperbound. Published by the Canadian Forestry Service, Ottawa. Available from UNIPUB, 345 Park Avenue S., N.Y. 10010.

I is volume contains the proceedings of a symposium on forest meteorology sponsored by the World Meteorological Society and hosted by the Canadian Forestry Service and the Atmospheric Environment Service of the Canadian Department of Fisheries and the Environment. It was held from 21-25 August 1978 at the University of Ottawa, Ontario.

A need currently exists for a state-of-the-art synthesis in the area of forest meteorology, particularly because of the possible effects of deforestation and forest management practices on climate. This symposium proceedings cannot be considered a true synthesis, but it does present current and useful information in the following areas: relationships between climatic factors and forest development and production; the role of forests and wildlands in balances of carbon dioxide, water vapor, and heat on local, regional, and global scales; relatioinships between meteorology and forest fire, disease, and insect management; energy budgets of forests; wind and light in the forest; and forest meteorology in the tropics.

The latter topic is especially important since little information is available on the meteorology of tropical forests. Most information on forest meteorology comes from northern temperate forests. Tropical forests, however, are being cleared rapidly, and this clearing may contribute greatly to changes in global CO₂ levels and potential climatic change. A short but well-written paper by R. W. Furman (pp. 181-197) on this topic is useful, particularly because it includes 99 references. Some data from Southern Hemisphere forests also are included in the volume.

Several recommendations arose from the meeting, including an urging that national meteorological services become more involved in forest meteorology and that more work be conducted in tropical forest meteorology. In general, the volume contains useful information for researchers and teachers in forest meteorology.

OCEAN WAVE CLIMATE - MARINE SCIENCE 8. Edited by Marshall D. Earle and Alexander Malahoff. 367 pages. \$36.00. Hardbound. Plenum Press.

This book is a collection of contributions presented at the Ocean Wave Climate Symposium held at Herndon, Va., and sponsored by the National Oceanic and Atmospheric Administration (NOAA). It is organized under three major headings: Wave Models and Wave Data Applications; Wave Measurements; and Recommendations of Symposium Working Groups. The first two parts contain formal contributions that constitute the bulk of the volume whereas the last part consists of recommendations from eight working groups, mainly for the NOAA Wave Measurement Program.

The first section opens with an article that reviews the existing techniques for wind field forecasting. Various numerical forecasting models and parametric storm models are discussed. It is a logical starting point, as wave forecasting can only be as good as the input wind field. It is pointed out that to wave climatology there is no such thing as a single 100-year storm or a single design storm, yet such events often are quoted by engineers in a rather loose sense.

The next four chapters in this section all deal with wave forecasting. The chapter by Vincent J. Cardone and Duncan B. Ross is an excellent state-of-the-art review emphasizing directional spectral prediction. The subsequent two chapters address wave information requirements for ship design and operation, with one of them emphasizing sea keeping and the other limiting operating conditions. Consequently, the variance on the wave information requirements can be detected by comparing these two articles.

The second part, Wave Measurements, contains 10 contributions covering wave measurement techniques, data analysis methods, and existing wave-monitoring programs. In the area of measurement techniques, five articles treat the topic of remote sensing techniques with none in the traditional realm of ground-truth measurements. This reflects the recent shift in research orientation in wave measurement. The chapter by Donald E. Barrick and Belinda T. Lipa on "A Compact Transportable HF Radar System for Directional Coastal Wave Field Measurements," for instance, is a good state-of-the-art paper for those interested in how HF radar actually works in wave measurement. The lone wave-data analysis paper is by Leon E. Borgman, an acknowledged leading expert in this field. He proposes here a unified mathematical procedure to determine directional wave spectra from sparse arrays of sensors; it is an excellent paper on the state of the art.

The remaining articles in this section are reviews of federal programs on wave measurements, including the Geodynamic Experimental Ocean Satellite Program (GEO-3), the NOAA Data Buoy Program, and the Nearshore Wave Climate Program. The last article, by Laurence Draper, is a short note on the United Kingdom's wave measurement activities.

CONFERENCES

Calgary, Alta.	March 2-6, 1981	4th Can. Permafrost Conference
Gorham, Maine	March 19-20, 1981	Third Conference on Meteorology of New England and the Atlantic Canada
Anaheim, Calif,	March 30 - April 3, 1981	15th Conference on Agriculture and Forest Meteorology
Burlington, Ontario	April 7-9, 1981	20th Annual Canadian Hydrographic Conference
Seattle, Washington	April 8-10, 1981	The Northern Community - A Search for a Quality Environment
Albany, New York	April 27-May 1, 1981 Sponsor: CMOS-AMS	Conference on Long-Range Transport of Airborne Pollutants
Guelph, Ontario	April 28-30, 1981	Symposium on Multi-Disciplinary Studies on Hudson-James Bay
Montreal, P.Q.	May 5-8, 1981 Sponsor: CMOS-AMS	International Conference on the Aviation Weather System
Calgary,Alta.	May 11-13, 1981	Canadian Geophysical Union
Saskatoon,Sask.	May 27-29,	15th Annual CMOS Congress
Toronto, Ontario	June 16-18, 1981 Sponsor: CMOS-AMS	4th Conference on Atmospheric Radiation
Quebec City P.Q.	July 27-31, 1981 Sponsor: AMS/ Université Laval, Ministère de l'Enviro	Port and Ocean Engineering under Arctic Conditions nment, Governement du Quebec.
Reno, Nev.	October 6-9, 1981	Fourth Conference on Hydrometeorology
Streamboat Springs, Col.	November 10-13, 1981	Seventh Conference on Fire and Forest Meteorology and Second Conference on Mountain Meteorology

SPECIAL INTEREST GROUP - AIR POLLUTION METEOROLOGY

On October 16, 1980 Council approved the formation of a special interest group in air pollution meteorology. The objectives of the group are: (a) to further development of the study and application of meteorology to the emission, diffusion, transport, transformation and deposition of pollutants in the atmosphere, (b) to encourage and enhance information exchange between scientists and engineers in these disciplines and related areas. The interim steering committee consists of John Reid (Chairman), Randy Angle (Secretary), Bill Hume and Ted Munn. A number of special sessions in air pollution meteorology are planned for the Saskatchewan Congress in 1981, including a keynote address by a scientist of international repute. The proceedings of the air pollution sessions will be published in a separate bound volume. Also, during Congress the Steering Committee for 1981/82 will be named.

Affiliation with the Group is open to both members and non-members of CMOS. All CMOS members are asked to give this news item wide circulation and bring it to the attention of anyone who may have an interest in the meteorological aspects of air pollution.

Papers for the special Congress sessions are invited on any aspect of air pollution meteorology. Titles and definitive abstracts (less than 300 words) should reach the program committee by February 1, 1981 and should be addressed to Dr. Barry Goodison, Hydrometeorology, Atmospheric Environment Service, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4. Please indicate that your paper is intended for the special air pollution sessions. Authors must submit camera-ready text at the meeting. Instructions on format will be forwarded upon acceptance.

Members and non-members who are interested in air pollution meteorology and would like to be affiliated with the Special Interest Group are asked to complete and return the notification form at the back of this Newsletter.

Definition of Meteorologist

The Committee on Professionalism proposed the definition "a meteorologist is one whose profession is meteorology". It is then necessary to establish the minimum qualifications for professional status. A draft of such formal standards is presented below for discussion by the membership at large. Please send any comments or suggestions to the Corresponding Secretary, Pete Kociuba, at the same address as the Newsletter editor.

QUALIFICATIONS FOR PROFESSIONAL STATUS

The Canadian Meteorological and Oceanographic Society will recognize an individual as a Meteorologist only if he possesses the qualifications in basic education, specialized training and experience set out below.

A Meteorologist is one who:

- (1) holds a Bachelor of Science degree from a Canadian University or its foreign equivalent, and
- (2) either (a) has successfully completed a course of instruction comprising four hundred contact hours (400h) in several branches of Meteorology.
 - or (b) has obtained an advanced degree in one or more of the branches of Meteorology.
 - or (c) holds an advanced degree in some related field and has demonstrated proficiency in one or more branches of Meteorology through scientific publications, research, teaching, or any other means recognized by the Meteorological profession.
 - or (d) has completed three years (3y) of on-the-job training under the direct supervision of a Meteorologist, and
 - (3) has been working in one or more branches of Meteorology for at least one year since completion of the basic education and specialized training qualifications. In the case of those persons holding a Bachelor of Science in Meteorology (and meeting requirements (1) and (2)(a) at the same time) the experience requirement shall be two years (2y).

The Canadian Meteorological and Oceanographic Society recognizes the following branches of Meteorology:

aerology
aerospace meteorology
air pollution meteorology
air quality impacts
atmospheric aerosols
atmospheric chemistry,
atmospheric dynamics
atmospheric electricty
atmospheric environmental assessment
atmospheric optics
atmospheric physics
atmospheric radiation

aeronomy
agricultural meteorology
air pollution climatology
air-sea interactions
atmospheric boundary layer
atmospheric diffusion
atmospheric dispersion
atmospheric energetics
atmospheric measurements
atmospheric ozone
atmospheric pollution
atmospheric radioactivity

Branches of Meteorology (cont'd)

atmospheric remote sensing atmospheric thermodynamics atmospheric transport applied meteorology aviation meteorology bioclimatology boundary layer climatology climate change coastal meteorology dynamic meteorology fluid mechanics geophysical fluid flows industrial meteorology mesometeorology micrometeorology operational meteorology planetary atmospheres precipitation physics radio meteorology severe storms synoptic climatology tropical meteorology urban meteorology weather analysis weather modification

atmospheric statistics and probability atmospheric turbulence applied climatology biometeorology boundary layer meteorology building climatology cloud physics desert meteorology fluid dynamics forest meteorology hydrometeorology macrometeorology microclimatology mountain meteorology physical meteorology planetary boundary layer radar meteorology satellite meteorology synoptic meteorology topoclimatology upper atmosphere urban climatology weather forecasting

POLLUTION METEOROLOGY SPECIAL INTEREST GROUP

TELEPHONE: BUS:	RES:
I am willing to become involved	in the following (please check):
organizing special Congres	s sessions
attending special Congress	sessions
presenting papers at speci	al Congress sessions
organizing an independent	specialist's meeting
serving on the Steering Co	mmittee
formulating CMOS position	statements
producing a Group newslett	er
serving on a subcommittee	for a specific purpose
publishing a list of perso pollution meteorology	ns in Canada with an interest in air
other	

Please return completed form to:

R. P. Angle, Air Quality Control Branch Alberta Environment 9820 - 106 Street Edmonton, Alberta T5K 2J6



Canadian Meteorological and Oceanographic Society La Société Canadienne de Météorologie et d'Océanographie



Amendments to the Constitution (as published in February 1978) approved at the Annual General Assembly of May 1980.

By-Law 6 c) to read:

A Membership Committee shall be established. The Committee shall consist of a Chairman appointed by Council, and one member appointed by each Centre and optionally by each Chapter. The Corresponding Secretary shall be an ex-officio member of this committee. The Committee shall prepare an annual report of its activities for Council.

By-Law 12 Additional item h) to read:

Local Centres shall name representatives to certain Committees of the Society, as required.

By-Law 13 e) to read:

Chapters shall normally be affiliated with the nearest relevant Centre from which they may receive a portion of the Society funds allocated to that Centre for support of their functions. The funding available shall be roughly in proportion to the Centre/Chapter membership numbers. Jurisdictional and financial disputes shall be resolved by Council in consultation with the Centres and/or Chapters involved.

By-Law 13 Additional item f) to read:

The Correspondent of a Chapter shall report to Council through the local Centre on the activities of the Chapter during the previous year.

By-Law 13 Additional item g) to read:

A Chapter may name a representative to certain Committees of the Society, it they so desire.



Canadian Meteorological and Oceanographic Society La Société Canadienne de Météorologie et d'Océanographie



Amendements à la constitution (publiée en février 1978) approuvés à l'assemblée générale annuelle de mai 1980

RÈGLEMENT 6 (c) se lira désormais:

Un comité d'éligibilité des membres devra être formé. Le comité se composera d'un président nommé par le conseil, et d'un membre nommé par chaque centre ou le cas échéant par chaque section. Le secrétaire-correspondant sera un membre ex-officio de ce comité. Le comité devra préparer un rapport annuel de ses activités pour le conseil.

REGLEMENT 12 article additionnel (h):

Les centres locaux devront nommer des représentants à certains comités de la société, tel que nécessaire.

RÊGLEMENT 13 (e) se lira désormais:

Les sections devront normalement être affilées avec le plus proche centre pertinent, duquel elles peuvent recevoir une partie des fonds de la Société alloués à ce centre pour assurer leur functionnement. L ; fonds disponibles devront être approximativement proportionnels au rapport du nombre de membre du centre à celui de la section. Les conflits de juridiction ou de finance devront être tranchés par le conseil en consultation avec les centres etiou sections concernés.

REGLEMENT 13 article additionnel (f):

Le correspondant de chaque section devra faire rapport au conseil, par l'intermédiaire du centre local, des activités de la section durant l'année précédante.

REGLEMENT 13 article additionnel (g):

Une section peut nommer un représentant à certains comités de la société si elle le désire.