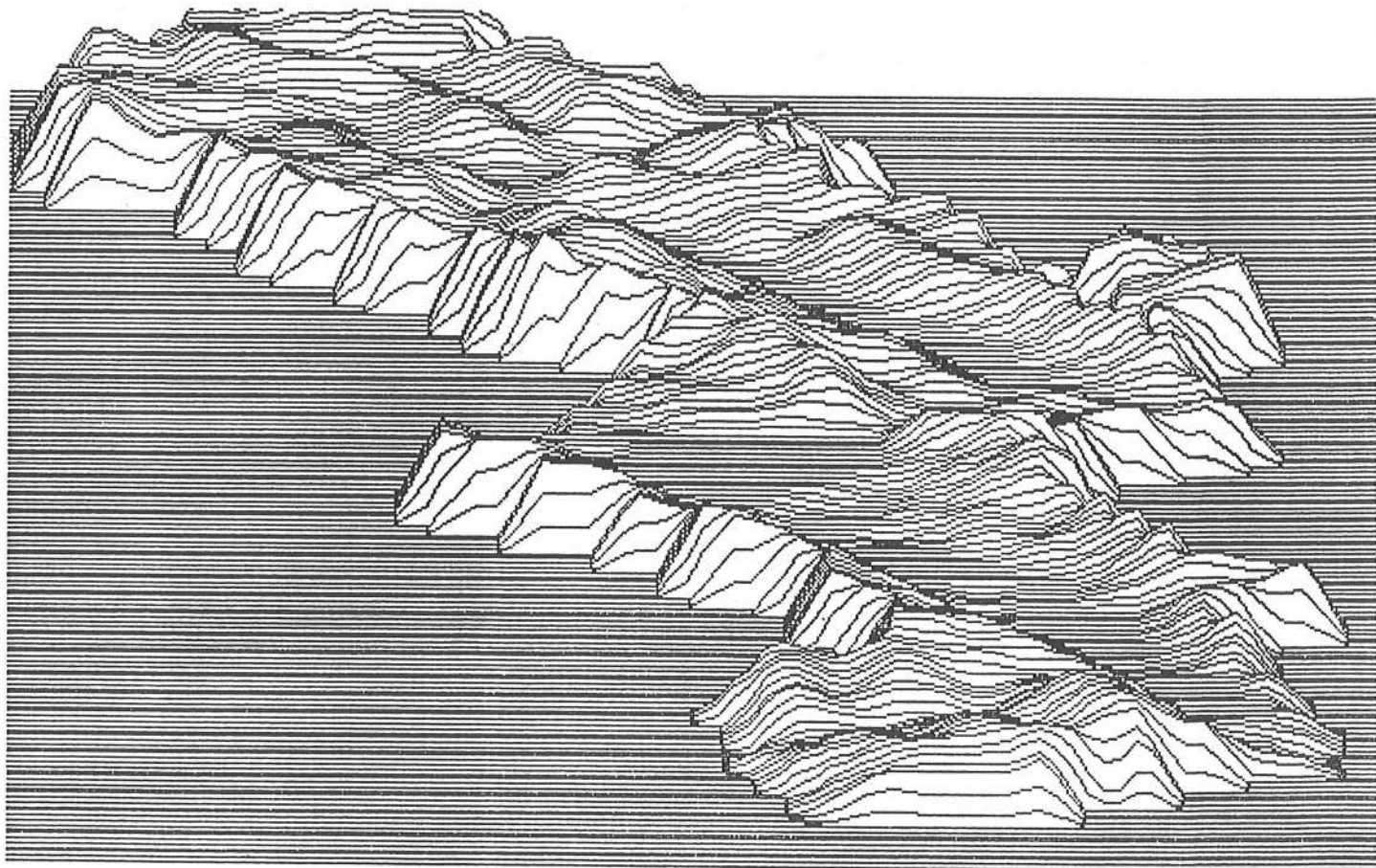


Canadian Cartographic Association
l' Association canadienne de cartographie

Newsletter/Bulletin



Volume 16, #3. Autumn 1990

Volume 16, numéro 3, automne 1990.

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The CCA Newsletter (soon to be *Cartouche*) is produced quarterly by the Canadian Cartographic Association.

Content Deadlines are: January 31, April 30, July 30, October 31. (see page 19)

You are welcome (urged!) to submit items to be considered for publication. It is the current policy of the editor to provide dual language copy for editorial content and journal mechanics. All other articles appear in language of submission. While every effort is made to ensure accuracy of content, the editor (*like all cartographers!*) cannot be responsible for errors in compilation, or loss of any item submitted. Opinions expressed in the editorials and submitted articles and letters are not necessarily those of the Canadian Cartographic Association. For advertising policy, please contact the Manager, Roger Wheate. (Address, page 3)

Le Bulletin de l'ACC (qui sera connu bientôt sous le nom de *Cartouche*) est publié trimestriellement par l'Association canadienne de cartographie.

Les dates limites pour l'envoi d'articles ou de documents sont les suivantes: 31 janvier, 30 avril, 30 juillet, 31 octobre (voir page 19). N'hésitez pas à soumettre des articles (vous êtes même priés de le faire!) que vous désirez publier dans le bulletin. Présentement, selon la politique en vigueur, l'éditeur doit publier en français et en anglais, l'éditorial ainsi que la description du processus de publication du bulletin. Le reste des articles paraîtront dans la langue dans laquelle ils ont été écrits. Bien que beaucoup d'efforts sont déployés en vue d'éviter de tels problèmes, l'éditeur (*de même que les cartographes!*) ne seront pas tenus responsables des erreurs de compilation ou de la perte d'articles qui leur seront soumis. Les opinions exprimées dans le cadre des éditoriaux, des articles et des lettres publiées dans le bulletin ne reflètent pas nécessairement celles de l'A.C.C.. Pour ce qui est des tarifs publicitaires, veuillez contacter le responsable de la publicité, Roger Wheate (voir l'adresse page 3)

The Canadian Cartographic Association gratefully acknowledges the financial support given by the Social Sciences and Humanities Research Council of Canada.

L'Association Canadienne de cartographie remercie vivement le Conseil de recherches en sciences humains du Canada pour son apport financier.

Our Cover:

Selected from the data found within the CCA Disk library, a digital representation of Kootenay Park, B.C. . This image is produced from a data set produced by the late Alan Masters (see p.4.) and available from the CCA disk library (page 8.)



The Canadian Cartographic Association La Association canadienne de cartographie

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From the Editor's Clipboard Un message de l'éditeur

It's complete!

Changing editors and production facilities is a time consuming affair at any time. When the editors involved are several hundred kilometers apart and both work in busy academic environments at other jobs, the process can get even worse. After a number of delays the transfer of control has come about. When I allowed my name to stand as secretary/editor, I knew the work involved would be more than I expected. Trying to figure out all the numerous details that go into an issue, and acting as broker to scattered sources has turned out to be MUCH more time-consuming than I expected. Still, I have learned, and you have the product in your hands. Sorry it has taken a while to reach you. Please read through it. There are a number of issues that need your attention. I will mention the structure of the newsletter a little later. For now, please enjoy, evaluate, and please comment on what you see. This is your communication vehicle. I can only make it what you want it to be. A number of people have mentioned that they would like Cartouche to become more structured and informative, yet maintain the informal feeling of a newsletter. I agree, and you'll see those ideas coming forward in the first issue of Cartouche. These last two issues of the newsletter will allow me some time to get feedback from the members of what they want to see.

Lastly, a comment on why you are getting two newsletters at once. When I sat down to start working on the newsletter there was very little in the way of material from the members (*Read: none*). I discussed ideas with a variety of people. There was some managerial office content in place for issue #3, and the idea of the directory/corporate profile issue had been requested by a number of members. I decided early to go with the directory for the last issue for 1990. What happened was that issues 3 and 4 grew at the same time, with issue 3 being delayed by the lack of various promised items. They came to completion around the same time. Since issue three had been delayed so much, and to save several hundred dollars on postage, I decided to send out both issues at once. I hope this does not upset anyone. This has been an interesting learning process for a new editor, but one that has taken some time. By the time I had enough content to make an issue, it was December and semester-end plus exams where upon me. Being in a fully semestered school makes this a very busy time of year, especially as department head. This is not an excuse, just fact. I had planned newsletter strip-up sessions in the flat periods of the school year. 1991 will be better, if the members wish it to be. If

you are upset that this newsletter is in your hands at this date, please, ask yourself, "Did I help? Did I send that interesting clipping into the editor? Did I contribute?" Your humble editor is learning how to beat the bushes and establish a network for news, but he would appreciate any and all support.

Volume 16, issues number 3 and 4 are dedicated to Gord Shields, our last editor who, in my humble opinion, has in the past years, elevated the newsletter to new heights, and left me with a tough act to follow. I also have to acknowledge the support of Roger Wheate, who has provided so much over the last few months. Thanks.

One last comment before moving on. Do not assume that, because the next paragraph is in french, you should move on to the next article. You will find french and english text mixed within my editorial diatribes. I like to finish one idea in both languages before moving on to the next. You will also notice that the french text appears the same as english text, rather than the oft-used italic setting. As a typographer, I use italics for very specific purposes *within* larger text blocks, or as small headlines. I feel reading *large amounts* of italicised text is bothersome. Please forgive the editor for exercising his own personal convictions, and not subjecting francophone members and readers to what I feel is second-class status.

Voilà, c'est fait!

Le remplacement d'un éditeur par un autre et le changement des moyens de production sont deux opérations qui nécessitent beaucoup de temps. De plus, quand les deux éditeurs concernés se trouvent à plusieurs centaines de kilomètres de distance l'un de l'autre et que tous deux sont très actifs dans le milieu académique, le processus de remplacement peut s'avérer pire. Mais, après un certain nombre de délais, le transfert de responsabilité a finalement eu lieu. Lorsque je me suis porté candidat au poste de secrétaire/éditeur, je savais que le volume de travail serait plus important que prévu. Après avoir essayé de connaître tous les détails que comporte la publication d'un numéro du bulletin, je me suis rendu compte que le volume du travail serait BEAUCOUP plus important que je ne le croyais. Malgré tout, j'ai réussi à apprendre bien des choses: le résultat final de cet "apprentissage" se trouve présentement entre vos mains. De nouveau, je m'excuse du retard dans l'envoi de ce numéro. Je vous demande de bien vouloir lire le bulletin attentivement, car certains des sujets dont il traite requièrent une attention particulière de votre part. Je toucherai au format du bulletin un peu plus tard, alors pour le moment, prenez plaisir à le lire, jugez-le selon vos critères personnels, et de grâce, faites-moi parvenir vos com-

mentaires. Ce bulletin constitue votre principal outil de communication; mon travail consiste uniquement à faire de sorte qu'il réponde à vos besoins.

Un certain nombre de personnes ont mentionné qu'elles aimeraient bien que Cartouche devienne mieux organisé et plus instructif, tout en gardant le côté formel d'un bulletin. Personnellement, je suis du même avis, comme en témoignera le format et le contenu du premier numéro de Cartouche. Mon travail sur ces deux derniers numéros me permettra de recueillir l'opinion des membres de l'association concernant le bulletin et le genre de changements et d'améliorations qu'ils aimeraient y voir.

Finalement, j'aimerais expliquer pourquoi vous recevez deux numéros en même temps. Quand je me suis apprêté à travailler sur le bulletin, j'ai discuté certaines idées avec une variété de personnes. Au début, j'avais assez d'articles pour le numéro 3 du bulletin. Mais de nombreux membres ayant suggéré de consacrer un numéro complet à un profil/annuaire de l'association, j'ai décidé d'adopter leur suggestion en choisissant à cette fin le dernier numéro de l'année 90. Par la suite, les numéros 3 et 4 finirent par se matérialiser en même temps, alors que le bulletin numéro 3 était retardé car il lui manquait un nombre d'articles qu'on m'avait promis de remettre. Le travail sur ces deux numéros s'est terminé en même temps, et du fait du retard accusé par le numéro 3 et afin d'économiser plusieurs centaines de dollars sur les frais postaux, j'ai décidé d'envoyer les deux numéros ensemble. J'espère que cela ne va pas vous déranger outre mesure. Pour moi en tout cas, l'expérience a été intéressante, mais longue. L'année 1991 sera plus réussie, si tel est le désir de nos membres.

Les numéros 3 et 4 du volume 16 sont dédiés à Gord Shields, notre dernier éditeur qui a, à mon avis, élevé la qualité de notre bulletin à un haut niveau durant les années passées, me laissant la lourde et difficile responsabilité de poursuivre son oeuvre.

Where is Cartouche?

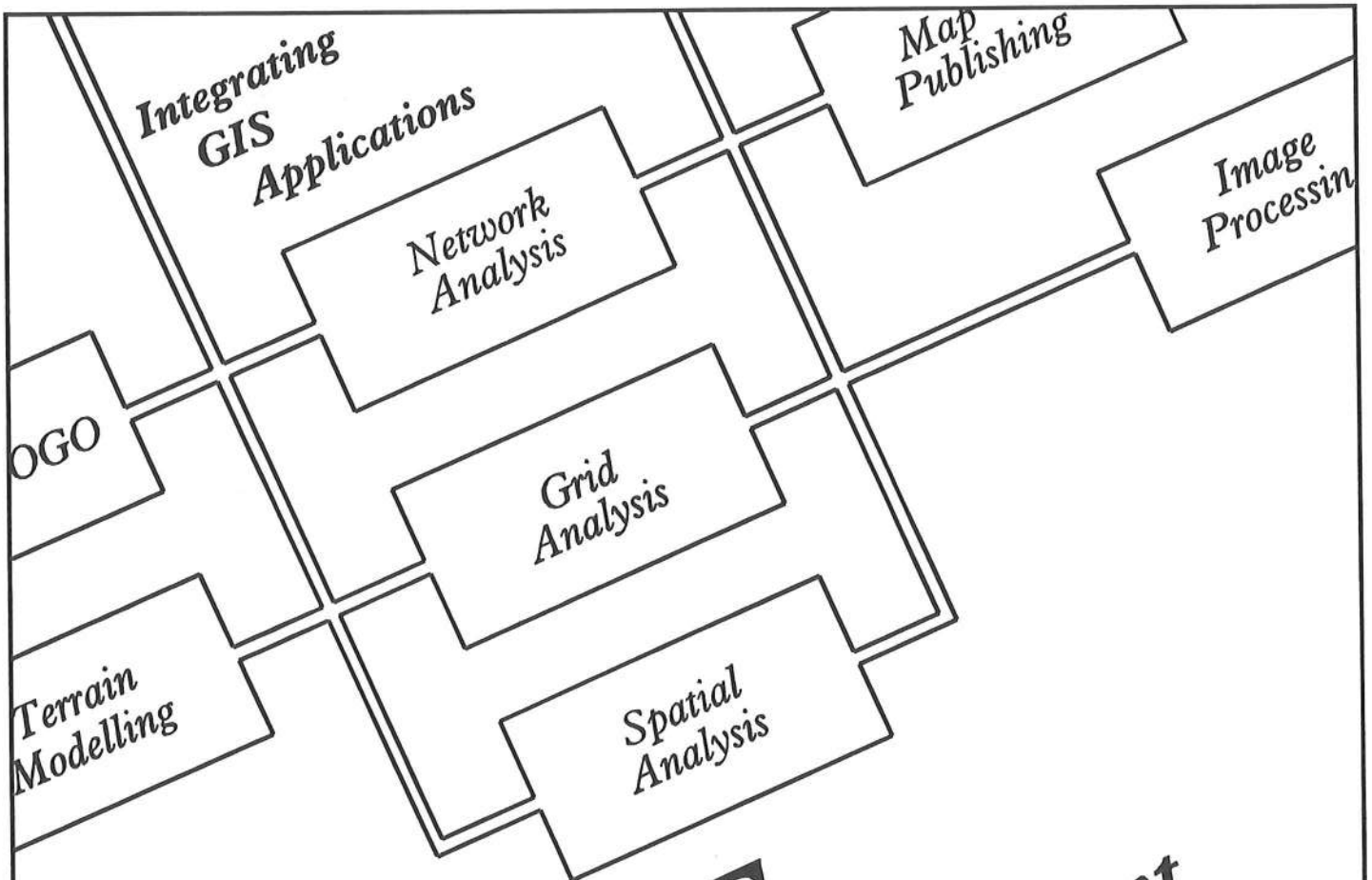
Most of you were expecting to see Cartouche at the masthead for this issue. However, for various reasons, I wanted to complete the four issues of Volume 16 under the old name and move to Cartouche, Volume 1, Issue 1 at the beginning of 1991. A few librarian friends of mine told it it has very bad practice to jump mid-volume and if I did they would never speak to me again, or at least make me pay all my back fines. The time delay would allow me to learn a little more about how to do all this before I went to the newer format.

What is important is that in early 1991 you will see a new format informational publication for the C.C.A. Between now and then, you have the chance to get some input in to what you want to see as part of that format. I have received a number of good ideas so far, but to maintain a consistently good quality journal I will need on-going support. Support in the form of news, articles, opinions, events, trends, happenings, everything. I am only the steward of this journal, and the information in it. I can present it to you in Cartouche, but I *cannot make it up*. You, the members, must do that. Time and time again we hear that we don't want the C.C.A. to be just Cartographica and the AGM. It is up to you to decide if that is what you want. Feed me, please.

Où en est on exactement avec Cartouche?

Un grand nombre d'entre vous s'attendait à voir le logo "Cartouche" dans l'encadré administratif de ce numéro du bulletin. Cependant, pour différentes raisons, j'ai décidé de garder l'ancien nom pour les quatre numéros du Volume 16 et d'adopter le nouveau nom "Cartouche" pour le numéro 1 du Volume 1 qui doit paraître au début de l'année 1991. Quelques-uns de mes amis, bibliothécaires de profession, m'ont dit qu'il était fortement contre-indiqué de sauter d'un nom à l'autre avant d'avoir complété tous les numéros d'un volume donné; ils m'ont même averti que si j'agissais de la sorte, non seulement ils ne m'adresseraient plus la parole mais ils me feraient payer toutes les amendes impayées que je dois aux bibliothèques... Je devais donc me donner assez de temps pour mieux comprendre le processus de publication du bulletin avant d'adopter le nouveau format.

En tout cas, ce qu'il faut savoir, c'est qu'au début de l'année prochaine, le bulletin de l'ACC aura une nouvelle formule. D'ici là, vous aurez la possibilité de nous aider à façonner cette formule en nous faisant parvenir vos suggestions. Certains d'entre vous m'ont communiqué un nombre de bonnes idées, mais pour maintenir notre bulletin à un haut niveau de qualité, j'aurai besoin de votre soutien continu. Vous pourrez m'aider en m'envoyant, des articles, des textes exprimant votre opinion ainsi que des informations sur des événements touchant à la profession et à ses membres, etc. Je peux m'occuper du bulletin, de sa publication, et être responsable des informations qu'il contient, mais je ne suis pas en mesure de le créer à partir de rien. C'est à vous donc, chers membres, de me fournir les "matériaux" nécessaires. Si vous voulez que notre association soit bien plus qu'un journal scientifique (Cartographica) et de simples assemblées générales annuelles, c'est à vous d'agir. S'il vous plaît, faites-moi parvenir vos suggestions. Merci!



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INTERGRAPH

CCA AND OICC TO HOLD JOINT CONFERENCE

The CCA is pleased to announce that the Ontario Institute of Chartered Cartographers will be sharing the 1991 Annual Conference at Brock University in St. Catharines, May 31 – June 3. This will be the third time the two associations have joined forces; the first was at Sir Sandford Fleming College in 1982, the second at York University in 1988, both of which were highly successful events.

The conference will be a joint affair in another sense also, in that the State University of New York at Buffalo is acting as co-host with Brock University. Most of the conference will be at Brock, but one day will involve a visit to Buffalo and provide an opportunity to view the facilities of the National Center for Geographic Information and Analysis.

The program committee consists of: for the CCA, Alun Hughes, Brock University, and David Mark, SUNY at Buffalo; for the OICC, David Douglas, University of Ottawa.

Further details and a formal call for papers will come later, but in the meantime we would be glad to hear from anyone who wishes to participate. In particular, if you wish to organize a special session or to mount an exhibit, please get in touch as soon as possible. Contact Alun Hughes at the address shown in the advertisement on this page.

ACC ET OICC PARTAGERONT CONGRÈS

Nous sommes heureux d'annoncer que l'ACC et l'Institut de l'Ontario des cartographes sous charte (OICC) partageront le congrès annuel de 1991 à l'université Brock à St. Catharines le 31 mai – 3 juin. Ce sera la troisième collaboration des deux associations; la première a eu lieu en 1982 au collège de Sir Sandford Fleming, et la deuxième en 1988 à l'université York. Les deux ont joui d'un succès énorme.

Ce sera une conférence conjointe dans un autre sens, car le université de l'état de New York à Buffalo servira aussi comme hôte. La plupart du congrès aura lieu sur le campus de l'université Brock; cependant, nous avons organisé un voyage à Buffalo qui vous fournira l'occasion de rendre visite au Centre national de renseignements et d'analyse géographiques.

La comité du programme consiste de: Alun Hughes de l'université Brock, et David Mark de SUNY à Buffalo, qui représentent l'ACC; et de David Douglas de l'université d'Ottawa, qui représente l'OICC.

Plus de renseignements seront disponibles dans l'avenir, et à ce temps-là nous ferons un appel pour les communications. Dans l'intérim, nous aimerions entendre des nouvelles de ceux qui s'intéressent à participer. Surtout si vous avez l'intention soit d'organiser un atelier soit de monter une exposition, veuillez vous mettre en rapport aussi tôt que possible avec Alun Hughes, à l'adresse qui se trouve dans l'annonce sur cette feuille.

**The Annual Conference of
the Canadian Cartographic
Association and the
Ontario Institute of
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Automation Interest Group Groupe d'Intérêt en Automatisation

DISK LIBRARY ORDER FORM

In the listings below, the last line of each entry lists the computer system for which the programs were written and the cost (generally \$10.00 per disk). All MS-DOS disks require MS-DOS 2.0 or higher. Disks indicated with a "P" prefix are primarily computer programs, those with a "D" prefix primarily contain data, while those with an "A" prefix are primarily concerned with the presentation of documented algorithms. Lower-case letters after a disk number indicate that more than one disk belongs to the set.

Disk id.	Description
P1 ab	A special enhanced version of the program set described in the Dec. 1987 issue of BYTE for programming map projections. Includes source code (Turbo Pascal v4.0), executable program (complete with Metawindow driver for virtually any graphics display and printscreen a printscreen utility) and three versions of the World Data Bank I (the highest resolution version includes political boundaries and consists of 90,000 points). This set is not available from BYTE listings, but only through the authors (Robert Miller and Francis Reddy), or the CCA/ACC. This two disk set is distributed in compressed format and requires a minimum of 720 kb disk space for decompression. MS-DOS (2 Disks) \$20.00 quantity req:____ Non-members \$30.00 quantity req:____
P2	A single (360 kb.) disk version of P1. Contains all of the same programs, but only two versions of the World Data Bank I - the low (6,000 points) and medium (15,000 points) resolution versions (neither has political boundaries). MS-DOS (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____
P3	A line generalization program contributed by Ron Eastman. The program (.EXE file and Turbo Pascal 4.0 source code supplied) generalizes by point selection, low-pass filtering (3 or 5 point), and tolerance band filtering (Douglas & Peucker technique). Output consists of a new data file in generalized form, with generalization statistics given at the end. The disk also contains a simple plotting program that allows these lines to be viewed on Hercules, CGA, EGA, and VGA monitors. MS-DOS (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____
P4	UVIC_SDT Spatial Data Translation routines, contributed by Peter Keller and Mike Gartrell. Allows translation of data files from a: World digitized to Atlas Graphics, b: ARC/INFO to PAMAP, c: Area Master File to PAMAP. (2 Disks) \$20.00 quantity req:____ Non-members \$30.00 quantity req:____
P5	"Zapper" A set of line generalization routines contributed by Steve Prashker, Carleton University, generated from algorithms described in 1988 Cartographica monograph "Numerical Methods in Cartography". Comes with 6 sample base maps. NEW!!! (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____
P6	Quickmap World SW. A computerized atlas for educational purposes, contributed by Cartosoft Ltd, Devon, AB. Finds geographical locations and features, including lat/long, plus call-up facts such as population, etc. NEW!!! (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____
D1	Two North American datasets (provincial and state boundaries) contributed by David Douglas. One is projected on a Lambert projection while the other is in the form of an area cartogram equalized for population density (isodemographic boundaries by Eastman, Shields, and Nelson). The pair of datasets provides an excellent base for choropleth mapping. (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____
D2 abcd	Micro-World Databank II, level 3. Contains over 26,000 points and describes coastlines, political boundaries, islands, rivers, and lakes. MS-DOS (4 Disks) \$35.00 quantity req:____ Non-members \$45.00 quantity req:____
D3	A four disk set of raster layers for Kenya produced by the FAO. Includes district codes, thermal zones, length of the growing period, rainfall pattern, dominant and secondary physiological and geological mapping units, forests, irrigation and cash crop zones, tsetse counts, national parks, game reserves, and population density. Also includes a module contributed by Ron Eastman to download the data into the Idrisi GIS system. The data are stored in ASCII format and can be loaded into any system with a bit of programming. An excellent teaching set! MS-DOS (4 Disks) \$30.00 quantity req:____ Non-members \$45.00 quantity req:____
D4	A set of raster GIS layers for Kootenay Park, B.C., produced by Alan Masters. Includes elevation, ecological land classification, elk habitat, forest classification, stand origin, and prescribed wildfire units. A good teaching set for the Canadian context. (1 Disk) \$10.00 quantity req:____ Non-members \$15.00 quantity req:____

Total Payable: _____ Cheque payable to *Canadian Cartographic Association* or use Visa (card number, expiry date, and signature required). All Prices in Canadian \$ Number of disks based on 360Kb.format

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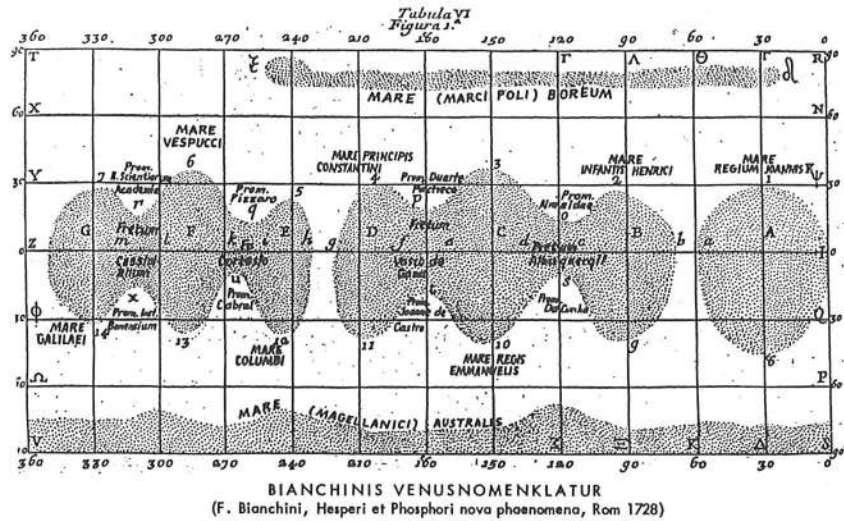
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3.5" 720 kb. ____

NEW PRODUCTS FROM THE CCA

"MAPPING THE PLANETS"

by P.J. Stooke and C.P. Keller

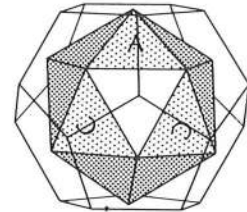
A new slide set, "Mapping the Planets", is now available from the CCA. In 40 slides and an explanatory booklet it gives an overview of the history and current status of efforts to map the Moon and planets. The booklet contains background information on astronomy and space exploration and a set of captions for the slides. The emphasis is on relatively recent cartographic work, undertaken in support of the solar system exploration programmes of the United States and the Soviet Union. A few maps drawn before the space age are included to give historical perspective. Information on obtaining copies of the maps themselves is included. The set was prepared by Philip Stooke of the University of Western Ontario and Peter Keller of the University of Victoria. Price: \$50.00 (including postage and handling)



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EXPLORATIONS IN THE HISTORY OF CANADIAN MAPPING A COLLECTION OF ESSAYS

Edited by/

Publié sous la direction de:

Barbara Farrell, Carleton University

Aileen Desbarats, Université d'Ottawa

Ottawa: Association of Canadian Map Libraries and Archives

1988, 274 pp. \$25.00 soft cover.

Ottawa: Association des cartothèques et archives cartographiques canadiennes,

1988 274 pp. \$25.00 broché.

A collection of articles that have appeared over the years in the Bulletin of the Association of Canadian Map Libraries.

Un collection d'articles en histoire de la cartographie du Canada qui on d'abord paru dans le Bulletin de l'Association des cartothèques canadiennes.

To order, please contact:

Gary McManus,

Treasurer, CCA

c/o Department of Geography,

Memorial University of Newfoundland,

St. John's Nfld. A1B 3X9 (709) 737-8996

Pour commander, veuillez contacter:

Gary McManus,

Trésorier, ACC

a/s Département de géographie,

Memorial University of Newfoundland,

St. John's Nfld. A1B 3X9 (709) 737-8996

Payment: Cheque payable to Canadian Cartographic Association

Visa or MasterCard (card no., expiry date and signature required)

Règlement: Chèque à l'ordre de l'Association canadienne de cartographie

Visa or MasterCard (le numéro de la carte, sa date d'expiration et votre signature sont requis)

President's Prize Competition 1991

Concours pour le Prix du Président 1991

Submissions are invited for the 1991 President's Prize Competition.

The competition is open to students of post-secondary institutions and to persons occupying junior positions in places of employment where maps are made or used.

Vous êtes invités à soumettre votre projet cartographique au concours pour le Prix du Président 1991. Ce concours est ouvert aux étudiants et étudiantes de niveau post-secondaire ainsi qu'aux personnes venant d'accéder au marché du travail et occupant depuis peu un emploi dans un organisme fabriquant ou utilisant des cartes. Le concours comprend cinq catégories et, dans chacune d'elles, un prix en argent (de l'ordre de 50,00\$) accompagnant un certificat sera décerné lors de la réunion annuelle de l'ACC.

Award Categories/Les cinq catégories comprennent:

Monochromatic Map/ Carte monochrome:

A printed map or proof in black and white. Emphasis in this category will be placed on innovation in data manipulation, symbolization, and graphic design. Each entry must be accompanied by a brief (500 words max.) typewritten text describing the purpose of the map. Une carte monochrome imprimée en noir et blanc (ou à l'étape de l'épreuve monochrome). Dans cette catégorie, l'évaluation portera sur l'innovation en regard du sujet choisi, de son interprétation, de sa symbolisation et de la qualité graphique. Un court texte (maximum de 500 mots) devra définir la problématique et les objectifs de la carte.

Award value/valeur: 50 \$Cdn

Colour Map/ Carte couleur:

A printed map or proof in multiple colours. In this category, emphasis will be placed on excellence of execution and fulfillment of stated design objectives. Each entry must be accompanied by a brief (500 words max.) typewritten text describing the purpose of the map. Une carte imprimée couleurs (ou à l'étape de l'épreuve couleurs). L'évaluation portera sur la qualité de l'exécution de la carte et la réalisation des objectifs prévus dans le projet. Un court texte (maximum de 500 mots) devra définir la problématique et les objectifs de la carte.

Award value/valeur: 50 \$Cdn

Journalistic map/ Production "carto-journalistique":

A map suitable for reproduction in a popular newspaper or magazine. Each entry must be accompanied by a brief (500 words max.) typewritten text describing the purpose of the map.

La meilleure production "carto-journalistique". Un court texte (maximum de 500 mots) devra définir la problématique et les objectifs de la carte.

Award value/valeur: Time magazine has generously donated 300.00 \$US for this award. Une prix de 300,00 US\$ est offert par Time Magazine.

Formal Written Paper/ Texte écrit conventionnel:

A paper of approximately 2000 words on any theme related to cartography, submitted in the style and format required by the journal "Cartographica".

Un texte écrit conventionnelle portant sur des sujets cartographiques d'ordre théorique, administratif, ou pratique. L'article, comptant plus ou moins 2 000 mots, devrait être soumis dans le style et le format exigés par la revue "Cartographica".

Award value/valeur: 50 \$Cdn

Computer Algorithm/ Algorithme d'ordinateur:

Computer algorithm (specific to a cartographic problem) submitted in code form in any language with a brief description and evidence of operation.

Un algorithme d'ordinateur (spécifiquement conçu pour résoudre un problème cartographique) soumis sous forme de code, de quelque langage que ce soit, accompagné d'une brève description et d'une preuve de son fonctionnement.

Award value/valeur: 50 \$Cdn

Submissions must reach the CCA Office in Calgary (address page 3) by May 3, 1991, or may be brought directly to the St. Catherines Meetings, May 31 1991.

Les candidatures au concours doivent parvenir à l'ACC à Calgary (voir page 3 pour l'address) au plus tard le 3 mai, 1991, ou les réunion annuelle de l'ACC à St. Catherines, le 31 mai, 1991.

Membership in the CCA is not required.

Il n'est pas nécessaire d'être membre de l'ACC pour participer au concours.

The Norman L. Nicholson Scholarship in Cartography La Bourse Norman L. Nicholson en Cartographie

The Canadian Cartographic Association is proud to offer the Norman L. Nicholson Scholarship in Cartography in honour of our late colleague. This scholarship, valued initially at \$500.00, is awarded annually by the Canadian Cartographic Association. It is intended to recognize and encourage exceptional student achievement and ability in any aspect of cartography.

L'Association canadienne de cartographie est fière d'offrir la bourse Norman L. Nicholson en cartographie pour honorer cet illustre collègue. Cette bourse, dont la valeur est au départ établie à 500,00 \$, est remise annuellement par l'Association canadienne de cartographie dans le but de reconnaître et d'encourager les étudiants dont les réalisations et les talents sont exceptionnels dans un aspect ou l'autre de la cartographie.

To qualify the applicant must be:

1. A Canadian citizen or landed immigrant.
2. A student who proposes to continue full time studies in cartography in one of the following institutions:
 - a) entering the final year of a college or CEGEP program;
 - b) entering the final year of an undergraduate honours program;
 - c) entering the first year of a graduate program.

Pour être admissible, un candidat doit être:

1. Un citoyen canadien ou émigrant reçu.
2. Un étudiant qui propose de poursuivre des études à plein temps en cartographie dans un des cas suivants:
 - a) entrer dans l'année terminale d'un Collège communautaire ou de CEGEP;
 - b) entrer dans l'année terminale d'un programme honneur de premier cycle;
 - c) avoir été accepté en première année d'un programme d'Études Supérieures.

To apply, the applicant must submit the following:

1. A completed application form;
2. An official transcript of all college/CEGEP/university courses completed and grades received;
3. Letters of recommendation from two faculty members who are familiar with the work and abilities of the applicant. Letters must be sent directly to the CCA office by these faculty members;
4. A one-page typed statement outlining the applicant's goals for continuing education in cartography.

Pour postuler, il faut soumettre les documents suivants:

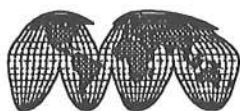
1. un formulaire de demande dûment complété;
2. un relevé de notes officiel de tous les cours terminés dans un collège/CEGEP/université avec les notes reçues;
3. des lettres de recommandation de deux membres du corps enseignant qui connaissent bien le travail et les qualités de l'étudiant. Les lettres de recommandation doivent être expédiées *directement par les enseignants* au Comité des bourses à l'adresse sous-indiquée.
4. un exposé d'une page dactylographiée indiquant vos buts dans le cadre d'études avancées en cartographie.

All materials must be received by the Awards committee no later than March 29, 1991. Requests for applications and all other questions should be directed to the CCA Office. (See page 3 for address.)

Les documents doivent parvenir au Comité des bourses le 29 mars, 1991 au plus tard. On peut se procurer un formulaire en appelant le bureau central de l'ACC (voir page 3 pour l'adresse).

Membership in the CCA is not required.

Il n'est pas nécessaire d'être membre de l'ACC pour participer au concours.



Announcing...

A Special New Benefit of CCA Membership

By special arrangement with GIS World, Inc., members of the Canadian Cartographic Association (Association Canadienne de cartographie) may now subscribe to GIS WORLD, the world's premier GIS publication, for only US\$40 (62% off the regular Canadian subscription rate of US\$108).

- Incredible new advancements in computers have made GIS a reality today. No longer a technical oddity, GIS is being adopted and used by public and private organizations worldwide — knowing GIS is important to your job today and to your future tomorrow.

- Why and how will GIS technology affect you? Because it is automating many of the data handling and analysis tasks formerly done manually by surveyors, cartographers, engineers and other professionals, it will affect you by becoming a tool as commonplace as your calculator or PC.

- Today, GIS systems are available for computers of all sizes and prices. As a result, public agencies at all levels and companies of all sizes are adopting GIS methods for routine daily use — if your office hasn't yet, it probably won't be long.

- How can you find out what GIS is all about? By reading the only magazine in the world published by and for GIS professionals. Every issue is brimming with information on who's doing what with GIS, how to use it, where to see it, how to buy it, expert analysis of issues, and a lot more.

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Call GIS World, Inc. at 1-303-223-4848 to place your order.

NEWS/ NOUVELLES

Welcome!-Bienvenue!

New members/Membres nouveaux:

Tony Blouin,	St. John's, NFLD
George Campbell,	Lawrencetown, NS
Adella Edwards,	Lawrencetown, NS
Darren Fellows,	Winnipeg, MN
Steven Fick,	Ottawa, ON
Kathryn Ford Thorne,	Aurora, IL
Deborah Hergot,	Edmonton, ALTA
Conrad Hild,	Hay River, NWT
Dave Kearsey,	St. John's, NFLD.
France Lessard,	Ville de Quebec, PQ
Fabian McDonald,	St. John's, NFLD.
Kirk Regular,	St. John's, NFLD.

Lost....

Alan Mac Gregor Masters, 29, passed on most unexpectedly in La Paz, Bolivia on July 20, 1990. Alan was in the prime of life, a trained forester, experienced in Canadian Park Service, on assignment with CUSO with the Bolivian Forest Service on the fringe of the Amazon jungle.

He had shown marked promise in his field by developing new techniques for studying fire history and subsequent reforestation. Foremost, Alan was compassionate. He was a gentle, genial, yet intense fellow who loved outdoor adventure in hang gliders, ultralights, back country travel, and above all else, deep powder skiing. At that, he was a magician. (From the *Calgary Herald*, July 24.)

I first met Alan when, as a forester with Kootenay National Park, B.C., he came to the University for advice on GIS. The Park soon acquired two systems and, within weeks, Alan was transferring data between them, performing complex modeling relating to forest fires and reforestation, in the context of parks management, and writing his own modules to simulate the spread of fire depending on wind strength and direction. Before he left for Bolivia, on loan from Parks Canada, he thoughtfully delivered a sample of the data he had collected over the last two years, as a Canadian data set for use by students of GIS.

Perhaps one of those two GIS companies put it best. When I asked them whether they considered Alan to be a typical user they replied: "No, there is only one Alan Masters". In GIS too, he was a magician. He will be sorely missed by all who knew him.

R. Wheate.

Moving....

Dr. Graham D. Lodwick, Professor in the Department of Surveying Engineering, is leaving the University of Calgary to take up a position of Head of the Department of Surveying and Cartography at Curtin University, Perth, Western Australia. Dr. Lodwick was one of the 'original six' faculty members appointed to the then Division of Civil Engineering in 1979-80, who were involved in setting up a new program in surveying engineering, designed to meet the needs of the profession in Western Canada. Dr. Lodwick was responsible for developing courses in remote sensing and land information systems, and carrying out relevant research. He is looking forward to a wider mandate at Curtin, and in participating in the setting up of an Earth Science Centre for Predicting and Monitoring Global Change.

CARTOGRAPHICA update

1990, number 2 should be at your door by now. This is a normal journal issue. Numbers 3 and 4 should be distributed in early 1991 (Jan-Feb). Number 3 will be a monograph on colour in choropleth mapping, and number 4 a normal journal issue. Please contact the CCA office if you have not received issues of *Cartographica*.

Time Magazine Increases Support

Time magazine has generously increased the award for the journalistic category of the CCA student map competition. It is now 300.00 \$US, up from 200.00 \$US. Educators are urged to promote this award for the 1991 map competition. Time magazine will be sending a representative to the 1991 AGM to award this prize, and it is very important that they see a good slate of competitors.

GIS World

GIS World magazine is now available to CCA/ACC members at a reduced rate. This is through an agreement arranged by Manager Roger Wheate and outlined in a full page advertisement opposite page. Please note that US members pay only 36.00 \$US, the 40.00\$US is for Canadian and overseas members.

ACSM Publishes GIS/LIS Compendium for Surveyors

Geographic and Land Information Systems for Practicing Surveyors: A Compendium has been published by the American Congress on Surveying and Mapping (ACSM). Edited by Harlan J. Osrud of the University of Maine and David W. Cook of Survey Operations, Dead River Company, Bangor, Maine, this 219-page

softcover book provides land surveyors and local-level officials with some of the issues currently relevant in the adoption and implementation of LIS.

For more information, contact:

ACSM Publications
5410 Grosvenor Lane
Bethesda, MD, 20814, USA.
(301) 493-0200

Back Cartographica

You may just have some time to rescue the last Cartographica back issues from the shredder. At last report, they were due to be destroyed, but had not gone yet. See notice on CCA/ACC products page for more info.

FROM THE MANAGER'S OFFICE

The first notice for renewal for 1991 has been sent out. If you have not already done so, please renew at your earliest possible convenience, using the form sent or the one in these newsletters. If you have electronic mail or fax, you may even renew via those methods, by sending a Visa or Mastercard number.

Late renewals cost the Association extra money. They also cause great confusion with the University of Toronto Press, which distributes Cartographica, as its other subscribers are mostly institutions that pay for the journal ahead of the calendar year. As a result of the above relationship with the Press, we have been noticing some irregularities between their mailing list and ours. You should now have received the first two issues of Cartographica for 1990. If you have not please send me a brief note. The remaining two issues will be distributed in early 1991. The delay this year has been due to a 'lost 6 months' to the editor as a result of surgery. We are now getting 'back on track'.

These last two newsletters will complete these issues for the year. 1991 will see a new-look newsletter with a new name 'Cartouche' and registered with an ISSN number. We hope it will take on a slightly different format with more member-contributions in the form of short articles, less formal than those in Cartographica, and with a fast turn-around period between submission and printing. These can deal with any aspect of cartography. Please send submissions to the editor prior in time for his deadline, the next being January 30, 1991.

For those interested, a Section, "Guidelines for Contributors" is found at the end of this journal.

Roger Wheate

CHRONIQUE DE L'HARFANG DES NEIGES 5 THE SNOWY OWL CHRONICLE 5

Par/by Majella-J. Gauthier

La présente chronique concerne deux points. Le premier parle de la publication de la deuxième série de cartes régionales sur les stress environnementaux au Québec et le second traite de l'évolution des terres en Acadie.

This chronicle concerns two topics: the first one deals with the publishing a new series of regional maps on environmental stress in the Province of Québec; the second one is about the evolution of lands in Acadia.

Les stress environnementaux.

Dans le but d'établir au Québec un tableau complet des activités humaines qui agressent l'environnement, un groupe de géographes entreprenait, au milieu des années '80, la production de cartes régionales ont été publiées en 1987 et que l'une d'elle, celle de la région de Québec, avait fait la première page du journal *Le Soleil* de Québec lors du congrès de l'Association canadienne de cartographie. Et bien voilà, six nouvelles régions viennent d'être couvertes soit: l'Estrie, la Gaspésie, Manicouagan, l'Outaouais, l'Abitibi-Témiscamingue et les Iles-de-la-Madeleine. Toutes les cartes sont monochromes et à l'échelle du 1:250 000 sauf celle des Iles-de-la-Madeleine dont l'échelle du 1:100 000. Restent à venir les régions suivants: Nord du Québec, Duplessis et quatre cartes dans la grande région de Montréal. La réalisation des cartes est sous la responsabilité des Laboratoires de géographie; elle est intégré aux préoccupations du Groupe de recherche et d'intervention régionale (GRIR) et est parrainée par le Regroupement pour un Québec Vert (RQV). On peut commander les cartes aux 5,00\$ l'unité à l'adresse suivant: Stress environnementaux, Les Laboratoires de géographie, Université du Québec à Chicoutimi, Québec, G7H 2B1. En plus, il faudra ajouter 2,00\$ pour couvrir les frais de chaque envoi postal.

L'évolution des terre en Acadie

Dans le but de voir comment l'Acadie s'est reconstituée dans le temps et dans l'espace, les géographes de l'Université de Moncton au Nouveau-Brunswick sont en train d'évaluer les possibilités d'utiliser géomatique. En effet, c'est en utilisant la banque de données sur le terres du gouvernement provincial que l'on va dans un premier temps expérimenter le logiciel Map Grafix, installé un Mac IIcx. Ils cherchent pour le moment à évaluer les possibilités d'analyse du système à

différentes échelles. C'est le professeur Samuel Arseneault qui anime ce projet.

Majella-J.Gauthier
Université du Québec à Chicoutimi
Téléphone: (418)545-5096
Télécopieur: (418)545- 5012

Corporate news.

Corporate Members:

DataSpan Technology	Calgary, Alta.
Defense Mapping Agency	Washington, DC
ESRI Canada Ltd.	Toronto, Ont.
J. M. Ellis Ltd.	Metcalfe, Ont.
GeoVision Corp.	Ottawa, Ont.
Idrisi	Worcester, MA.
Intergraph Canada Ltd.	Calgary, Alta.
International Computaprint	Fort Washington, PA
Land Information Branch,	
Alberta Dept. of Forestry	Edmonton, Alta.
Map Art	Brampton, Ont.
Metric Mapping Ltd.	Calgary, Alta.
National Atlas	
Information Service (NAIS)	Ottawa, Ont.
New Era Software Products Inc.	Victoria, B.C.
Northern Micro Online Services	Hay River, NWT
Nucor Computing Services	Kanata, Ont.
Projections Mapping Group	Calgary, Alta.
Stanley Associates Engineering	Calgary, Alta.
Tydac Technologies Inc.	Ottawa, Ont.
Weller Cartographic Services	Surrey, B.C.
Zycor Computing Inc.	Calgary, Alta.

Intergraph awarded Contract for Edmonton police service.

The City of Edmonton Police Service has signed a five million dollar (Cdn.) contract for a computer-assisted dispatching (*herein CAD*) system, communications, and record management system. The project, named OSCAR (*Operational Support Communications and Records System*), represents the first Canadian installation of Intergraph's Dispatch Management System. Also notable in the deal was that the ability to provide integrated, state-of-the-art capabilities for records management was paramount in system selection. The system, which will include interactive map displays, will integrate smoothly and effectively with the existing geographic database.

The city of Edmonton has been a leader in the establishment of municipal computer-based mapping and GIS systems. The city currently utilizes a complete digital base map, capturing an area of over 700 square kilometres, documenting a population of over 600,000, and encompassing registered subdivision plans, tax parcels, and utilities infrastructure. The ability to access this information database in a distributed and interactive manner will greatly enhance the abilities of this system over a stand-alone dispatch system. Merv Swan, general manager and chief operating officer of Intergraph Canada Ltd., comments, "...*The Edmonton Police Service researched and defined a very detailed specification which integrated CAD, mapping, management of records and reports, and interfaces to a variety of law enforcement and municipal information sources. ... We are very comfortable with that challenge and look forward to implementing a system unequalled anywhere in the world*".

For more information contact:

Sarah Hacker
Intergraph Corporation
Huntsville, AL 35894-0001
(205) 730-8907

TYDAC Awarded EMR Contract

The Topographical Mapping Division of Energy, Mines, and Resources Canada (EMR) has purchased SPANS, TYDAC's geographic information system. The division is using SPANS in planning the National Topographic Information Planning Program (NTIP). Under NTIP, map and digital products are planned and scheduled for production in-house and on contract. NTIP also supports ad hoc queries regarding available maps and digital data.

SPANS will be utilized to import and analyze a series of databases. These databases contain information on map histories, aerial surveys, map evaluations, remotely sensed data, map and data production, and policies to determine where new topographical maps are required and which existing maps and data need revision. Map revisions consist of updating Canadian Coverage at two scales in both printed and digital form. The 1:50,000 series has 12,922 map sheets and the 1:250,000 series has 914 map sheets.

For more information contact:

Robert Madill
Tydac Technologies
Ottawa, ON
(613) 722-7472

Autodesk and ESRI Join Forces

Autodesk has announced that it has reached agreement in principle with ESRI to produce a product that allows mapping and GIS professionals to freely exchange files between Autodesk's AutoCAD and ESRI's ARC/INFO. AutoCAD is the most popular desktop-based CAD program with an installed base of over 400,000 systems. ARC/INFO is one of the leading GIS packages in the world, being used in over 10,000 sites. The file transfer system will be developed, distributed, and supported by ESRI, and will be based on Autodesk's new AutoCAD Development System (ADS) programming utility which makes it possible to link existing software applications directly to AutoCAD.

Executives at both Autodesk and ESRI noted the high common customer base for installed systems. "... 17 percent of our customers were also using AutoCAD as part of their systems," said Jack Dangermond, President of ESRI. "Even more customers use AutoCAD's DXF file format to transfer information into our system. ...". The ADS file transfer application will be made available in ESRI's next release (v 5.1) of ARC/INFO.

For more information contact:

Catherine Dorn
ESRI
Redlands, CA
(714) 793-2853

Idrisi now shipping Version 3.2

The latest version of Idrisi is meeting with good reviews, according to the feedback from several users. Idrisi is a grid based GIS intended primarily as a low cost vehicle for teaching and scholarly research. While some may think that this renders the system of limited value, they would be very mistaken in this attitude. Idrisi offers sophisticated capability, all within a friendly environment that is supportive of new GIS users both at the academic and application level. Improvements are visible all around the system. The display module offers interactive capability for the completion of a variety of tasks. Vector data capability has been improved, along with the Image Processing components of the system.

For more information contact:

The Idrisi Project
The Graduate School of Geography
Clark University
950 Main St. Worcester, MA 01610
(508) 793-7526
Fax: (508) 793-7780
E-mail: Idrisis@ClarkeU

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- PRINCOMP** principal components analysis
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- COLSPACE** transformation between HLS and RGB
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- PROFILE** for spatial and time-series profiling
- REGRESS** for linear regression of images and values files
- CROSSTAB** image cross-tabulation and cross-classification
- LINEGEN** for vector line generalization by means of point selection, low-pass filtering and tolerance bands
- PLOT** now with HPGL plotter support
- MAINT** for easier file maintenance
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NOTICE TO STUDENTS

THE INTERGRAPH AWARD

Intergraph Systems Limited presents the Intergraph Award annually to a full-time student for excellence in computer cartography. The award is open to any undergraduate or graduate student of a Canadian educational institution. Candidates must register by submitting graphic output of their work accompanied by a description of the project and the work carried out. Submissions must be countersigned by a teacher or professor verifying its authenticity. The deadline for receipt of materials by the chairman of the CISM Cartographic Committee is March 30, 1991.

Send submissions to, or for further information contact:

**Professor Clifford H. Wood, Chairman CISM Cartographic Committee, Department of Geography
Memorial University of Newfoundland, St. John's Newfoundland A1B 3X9**

Telephone: (709) 737-8988

AVIS AUX ÉTUDIANTS

LE PRIX INTERGRAPH

Intergraph Systems Limited présente annuellement le prix d'excellence Intergraph à un étudiant à temps plein en cartographie informatisée. Tout étudiant de premier ou deuxième cycle inscrit à une université canadienne est éligible au prix. Pour s'inscrire, les candidats doivent présenter la sortie graphique de leur travail accompagnée d'une description du projet et du travail accompli. Les soumissions doivent être contresignée par un enseignant ou professeur assurant leur authenticité. La date limite pour la réception des documents par le président du Comité de cartographie de l'ACSGC est le 30 mars 1991.

Faites parvenir vos soumissions à:

Pour obtenir de plus amples
renseignements, veuillez contacter:

**M. Clifford H. Wood, Président du Comité de cartographie de l'ACSGC, Département de géographie,
Memorial University of Newfoundland, St-Jean (Terre-Neuve) A1B 3X9**

Téléphone: (709) 737-8988

Calendar/Calendrier

1991, Feb/fev 12-15

GIS '91 "Applications in a changing world"
Vancouver, B. C.

Contact: Symposium Office
720 - 845 Cambie Street
Vancouver, BC. V6B 4Z9
Tel: (604) 688-0188/9 Fax: (604) 688-1573

1991, Mar/mar 04-07

1990 (*postponed*) GRASS Users Conference
Berkeley, California.

Contact: Kenneth Gardels, Coordinator
390 Wurster Hall
University of California at Berkeley
Berkeley, CA 94720
Tel: (415) 642-9205 Fax: (415) 643-5571
(cer!)grass90@ced.berkeley.edu

1991, Mar/mar 18-21

The Canadian conference on GIS
(see enclosure)

1991, Mar/mar 24-29

ACSM/ASPRS/Auto Carto 10
Convention and Exposition
Baltimore, MD.

1991, Aug/août 28-30

Second Symposium on Large Spatial Databases
Zurich, Switzerland

1991, Sept/sept 17-21

ACSM-ASPRS Fall Convention
Portland, Oregon.

1991, Sept/sept 23 - Oct/oct 1

15th. International conference of the ICA
Bournemouth, U.K.

Contact: Clifford Wood
Geography, Memorial University of Newfoundland
St. John's, Nfld. A1B 3X9

1991, Oct/oct 27-30

GIS/LIS '91 Annual Conference and Exposition
Atlanta, Georgia.

1991, Nov/nov 14-15

Geomatics III/Géomatique III
Montreal, PQ.

Contact: Lise Labelle
(514) 369-5000 Fax (514) 369-5059

1992, Aug/août 6-14

27th. International Geographical Congress
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Content Deadlines are: January 31, April 30, July 30, October 31.

Les dates limites pour l'envoi d'articles ou de documents sont les suivantes: 31 janvier, 30 avril, 30 juillet, 31 octobre.

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{ba if x=1, ab if x = 2}

45.29
58.70
58.83
58.90
58.98
59.26
59.46
59.81
74.42
77.01
78.65
80.06
85.05
90.50
100.00

