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Surface temperature is one of the key factors indicating the presence of white tuna and swordfish. Satellite maps have enabled fishermen to identify the fishing grounds more easily. The satellite's radiometer records and transmits the information to the University of Chile's Space Research Center. From there the information is relayed to Valparaiso; the maps are then interpreted and transposed into forms that can be easily read by the fishermen.

One of the visible effects of the use of satellite maps has been the steady migration of fishing grounds. Since the maps were introduced the fishermen have ventured farther offshore and extended their fishing grounds. Also, the fishing season for tuna and swordfish has been extended by four months.

Plans call for improving data analysis, map production, and the dissemination of the information to larger number of fishermen. At the same time, attention must be given to mechanisms for making such a service pay for itself; the maps cost \$70 and the cost will eventually have to be passed on to the users.

Editor's note: IDRC stands for International Development Research Centre of Canada.

cartographic events

EVENTS CALENDAR 1992

June 2-6: **Canadian Cartographic Association and Carto-Quebec Joint Annual Conference**, Montreal, Canada. Contact: Norman Drummond, Geography Department, McGill University, 805 rue Sherbrooke Ouest, Montreal, Quebec H3A 2K6; (514) 398-4939, fax (514) 398-7437.

June 15-18: **Computer Vision & Pattern Recognition**, Chancellor Hotel and Convention Center, Champaign, IL. Contact: Azriel Rosenfeld, e-mail: ar@alv.umd.edu

July 12-16: **Urban and Regional Information Systems Association '92 Annual Conference**, Washington, DC. Contact: URISA, 900 Second St. N.E., Suite 302, Washington, DC 20002; (202) 289-1685.

August 2-14: **17th International Society for Photogrammetry and Remote Sensing Congress**, Washington, DC. Contact: 17th ISPRS Congress Secretariat, Box 7147, Reston, VA 22091; (703) 648-5110, fax (703) 648-5585.

August 3-7: **5th International Symposium on Spatial Data Handling**, Charleston, SC. Contact: David J. Cowan, University of South Carolina, Columbia, SC 29208; (803) 777-6803. Email: Cowen@Otis.HSS.SCarolina.EDU

August 9-14: **27th International Geographical Congress**, Washington, DC. Contact: Anthony de Sousa, 27th IGC, 17th and M Sts. NW, Washington, DC 20036, (202) 828-6688.

September 14-17: **1st Australian Conference on Mapping and Charting**, Adelaide, Australia. Contact: Australian Key Centre in Land Information Studies, GPO Box 2434, Brisbane, Australia 4001; (617) 864-2900, fax (617) 229-2659.

September 30-October 4: **24th Annual Conference of the International Visual Literacy Association Imagery in Science and the Arts**, Pittsburgh, PA. Contact: Dr. Barbara Seels, Instructional Design and Technology, 4A16 Forbes Quadrangle, University of Pittsburgh, Pittsburgh, PA 15260; (412) 648-7338, fax (412) 648-5911.

October 6-9: **GISDEX, the Geographic Information Systems Conference and Exposition, Focusing on the use of GIS in the Federal Government**, The Washington Hilton, Washington, DC. Contact: USPDI, Inc. (301) 445-4000, fax (301) 445-5722.

October 14-17: **North American Cartographic Information Society XII Annual Meeting**. The North American Cartographic Information Society (NACIS) will hold its twelfth annual meeting at the Ramada Inn in St. Paul, MN.

The program for this year's meeting will include such topics as cartographic activities in Latin America and Canada, spatial development in children, cartographic education, design, mapping software, geographic information systems,

navigation, and map library technology. There will be a mixture of contributed papers, invited papers, keynote speakers, poster displays, panel discussions, exhibits, and field trips. In addition a full day workshop on animated cartography will be offered (registration for this workshop is limited). Persons interested in presenting papers should submit an abstract by July 1, 1992. For program and registration information contact: Dr. Jeffrey C. Patton, Department of Geography, University of North Carolina at Greensboro, Greensboro, NC 27412; (919) 334-5388.

November 6-12: **GIS/LIS 1992 Annual Conference and Exposition**, San Jose, CA. Contact: ACSM, 5410 Grosvenor Lane, Bethesda, MD 20814; (301) 493-0200, fax (301) 493-8245.

1993

February 15-18: **ACSM/ASPRS Annual Convention**, New Orleans, Louisiana. Contact: ACSM, 5410 Grosvenor Lane, Bethesda, MD 20814, (301) 493-0200.

April 6-9: **Association of American Geographers Annual Meeting**, Atlanta, GA. Contact: Kevin Klug, AAG, 1710 16th St. N.W., Washington, DC 20009-3198; (202) 234-1450.

CALL FOR PAPERS

16th International Cartographic Conference — ICC '93.

Cologne, Germany, May 3-9, 1993. The U.S. National Committee for the International Cartographic Association solicits papers from U.S. authors for presentation at the 16th International Cartographic Conference in Cologne, Germany, May 3-9, 1993. Abstracts of 300-500 words are due by June 1, 1992.

The cartographic conference will be held concurrently with the 42nd Annual Meeting of the German Society of Cartography. Coinciding with the cartographic meetings will be the 2nd geotechnica — an international trade fair and congress for geosciences and technology. This trade fair is expected to draw 20,000 technical visitors to exhibits from 500 vendors.

The theme of ICC '93 is **Maps for Knowledge, Action and Development**. The Organizing Committee for the Conference states that papers should fit into one or more of the following categories:

§ **Maps for Knowledge Representation**. New Tasks, New Techniques, New Terms; Space and Map Perception and Language Representation; Atlas Cartography; Map Based Information Systems (National, Regional, Urban, Utilities, etc); Interactive and Educational

Cartography; Multimedia Displays and Hypermapping.

§ Maps for Action and

Movement. Navigation Systems; Maps for Protection and Disaster Prevention; Tourism Cartography; Mass Media Cartography; Maps for Public Relations and Advertising.

§ Maps for Development and Planning.

Mapping Statistics for Development; Mapping Land Use; Mapping Across Borders; Marketing Cartographic Data. To receive the Preliminary Program with proper forms for submitting an abstract write: AKM, Congress Service, Clarastrasse 57, CH-4005 Basel, Switzerland. Copies are also available from Robert Marx, Chair, USNC Papers Committee, 8312 Oakford Drive, Springfield, VA 22152. Authors who want to apply for funding through the U.S. National Committee should 1) write for the Preliminary Program with the forms for the abstract; 2) submit an abstract to Germany on the forms provided by June 1, 1992; 3) submit a copy of that abstract by June 1 to Robert Marx, Chair, USNC Papers Committee.

NACIS news

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*REQUEST FOR NOMINATIONS

Those positions marked by an asterisk are open for nomination for 1992-93. Three Directors-at-large, the Vice President and Treasurer must be elected by our next annual meeting. Please forward nominations to: James F. Fryman, Geography Department, University of Northern Iowa, Cedar Falls, Iowa 50614-0416. When forwarding nominations include a letter of

acceptance and a short vita for use on the annual ballot. Nominations should be made of individuals who are currently members of NACIS in good standing.

EXCHANGE PUBLICATIONS

Cartographic Perspectives gratefully acknowledges the publications listed below, with which we enjoy exchange agreements. We continue to seek agreements with other publications.

ACSM Bulletin. Offering feature articles, regular commentaries, letters, and news on legislation, people, products and publications, the American Congress on Surveying and Mapping's *Bulletin* is published six times a year. Contact: Membership Director, 5410 Grosvenor Lane, Bethesda, MD 20814; (301) 493-0200.

Bulletin of the Society of Cartographers. Published twice a year, the *Bulletin* features articles on techniques and ideas applicable to the cartographic drawing office. Contact: John Dysart, Subscriptions Manager, Room 514, Middlesex Polytechnic, Queensway, Middlesex, EN3 4SF, England.

Cartouche. A quarterly publication offering news and announcements to members of the CCA. Contact: Canadian Cartographic Association, c/o Jim Britton, Sir Sandford Fleming College, School of Natural Resources, P.O. Box 8000, Lindsay, Ontario K9V 5E6 Canada; (705) 324-9144; e-mail: britton@trentu.ca; fax: (705) 324-9716.

Cartographica. A quarterly journal endorsed by the Canadian Cartographic Association/Association Canadienne de Cartographie that features articles, reviews and monographs. B V Gutsell, founder and editor. ISSN 0317-7173. Contact: University of Toronto Press Journals Department, 5201 Dufferin Street, Downsview, Ontario, M3H 5T8 Canada; (416) 667-7781.

Cartographic Journal. Biannual Journal of the British Cartographic Society. Includes research articles, 'shorter' articles, official records of the Society, book reviews, and list of recent cartographic literature. Contact: Hon. Secretary, Charles Beattie, 13 Sheldrake Gardens, Hordle, Lymington, Hants, SO4 10FJ, England.

Cartography. Biannual Journal of the Australian Institute of Cartographers. Each issue contains two parts, the Journal proper and the Bulletin. The Journal contains original research papers, papers describing applied cartographic projects, reviews of current cartographic literature and abstracts from related publications.