

Periodicals and Other Series Publications on Photogrammetry and
Remote Sensing in North America

Morris M. Thompson
U.S. Geological Survey (Ret.)
U.S.A.
Commission VI

In recent years, the literature of photogrammetry and remote sensing published in North America has increased to the extent that it is quite difficult for any individual to keep abreast of it. This literature is produced in a variety of forms: periodicals, collections of technical papers from conventions of societies; collections of technical papers from symposia and specialty conferences, and books on general or specialized subjects in the field.

The continuing growth of knowledge about remote sensing and the proliferation of applications of that science have been accompanied by the production of a considerable number of books dealing with its manifold aspects. Most of these books are concerned with some specialized field of application of remote sensing, such as geology or forestry. In this report, the emphasis is given to publications appearing in a series, although not necessarily at regular intervals. Therefore, books, as such, are not included unless they are part of a series such as the Manual of Photogrammetry produced in a series of editions by the American Society of Photogrammetry. In North America, series publications in our fields of interest are produced in Canada, Mexico, and the United States; these publications are considered below in that order.

CANADIAN PUBLICATIONS

The status of Canadian periodicals on photogrammetry and remote sensing is summarized in Table 1. The Canadian Surveyor, the long-established and highly respected quarterly published by the Canadian Institute of Surveying, is widely read in many countries in addition to Canada. Many Canadian photogrammetrists are also members of the American Society of Photogrammetry and have contributed excellent articles (including a number of prize-winning papers) to the American society's journal. The Canadian Surveyor is oriented more towards surveying and mapping than towards photogrammetry and remote sensing, although it does include many fine articles on the latter subjects.

The Canadian Journal on Remote Sensing, is a relatively new bi-monthly periodical published by the Canadian Remote Sensing Society. Canadian applications of remote sensing are rapidly expanding, and with this expansion it can be anticipated that the Canadian Journal on Remote Sensing will grow in scope and influence.

In Table 1, the quantities stated under "Number of subscribers" indicate the number of subscriptions by non-members. Members of the societies receive the journals automatically, so that the total number of recipients is close to the print run.

TABLE 1. CANADA
 PERIODICALS AND OTHER SERIES PUBLICATIONS
 WITH ARTICLES ON PHOTOGRAMMETRY AND REMOTE SENSING

Name of Publication (Publisher in parentheses)	Interval of publishing	Print Run	Number of subscrib- ers (other than mem.)	Number of pages per year a) total (excluding advertisement) b) on photogrammetry and remote sensing c) advertisement	Main professional field of readers
The Canadian Surveyor (Canadian Institute of Surveying)	quarterly	3,400	505	a) 450 b) 200 c) 120	Surveyors Mappers Photogrammetrists
Canadian Journal on Remote Sensing (Canadian Remote Sensing Society)	semi-annual	600	350	a) 160 b) 160 c) 0	Photogrammetrists Remote Sensing Specialists

TABLE 2. MEXICO
 PERIODICALS AND OTHER SERIES PUBLICATIONS
 WITH ARTICLES ON PHOTOGRAMMETRY AND REMOTE SENSING

Name of Publication (Publisher in parentheses)	Interval of publishing	Print Run	Number of subscrib- ers (other than mem.)	Number of pages per year a) total (excluding advertisement) b) on photogrammetry and remote sensing c) advertisement	Main professional field of readers
Fotogrametría, Fotointer- pretación y Geodesia (Sociedad Mexicana de Fotogrametría, Fotointer- pretación y Geodesia)	quarterly	1,000	700	a) 128 b) 128 c) 32	Photogrammetrists, Remote Sensing Specialists Geodesists
Revista Cartografica (Instituto Panamericano de Geografía E Historia)	annual	650	500	a) 160 b) 90 c) 4	Cartographers Photogrammetrists
Memorias, Congreso Nac- ional de Fotogrametría, Fotointerpretación y Geodesia (Sociedad Mexicana de Fotogrametría, Fotoin- terpretación y Geodesia)	biennial	1,000	700	a) 400 b) 400 c) 0	Photogrammetrists, Remote Sensing Specialists Geodesists

MEXICAN PUBLICATIONS

In Table 2, a summary of series publications on photogrammetry and remote sensing produced in Mexico is presented. The readership of all of these publications is international in scope, for these volumes are produced in languages that are widely understood in Latin America.

Two of the publications listed are produced by the Mexican Society of Photogrammetry, Photointerpretation, and Geodesy. The quarterly journal, Photogrammetry, Photointerpretation and Geodesy, has a print run of 1,000 and is distributed to all society members and to subscribers. The second publication of the society, Proceedings (memorias) of the National Congress on Photogrammetry, Photointerpretation and Geodesy, is a volume of about 800 pages containing the papers presented at each biennial congress of the society. Table 2 shows that the number of pages per year is 400; this figure reflects the fact that a volume of 800 pages is published every two years.

Cartographic Review (Revista Cartografica) is an annual publication of the Pan American Institute of Geography and History. Articles are presented in the language in which they were originally written: Spanish, Portuguese, English or French (all of which are widely spoken in the Americas). This annual review is produced and published in Mexico City. More than half of its articles contain material relating to photogrammetry or remote sensing.

AMERICAN PUBLICATIONS

Table 3 is a summary of series publications in the United States on photogrammetry and remote sensing. These publications fall into three categories: periodicals, proceedings volumes, and books.

Periodicals

The best-known American journal in its field is Photogrammetric Engineering and Remote Sensing (formerly known as Photogrammetric Engineering). This journal, now in its 50th year, has been published continuously since the American Society of Photogrammetry was founded in 1934. Originally published as a quarterly, the journal became a bi-monthly in the 1960's and a monthly in the 1970's.

Photogrammetric Engineering and Remote Sensing has a marked international flavor because a large proportion of the articles published in it are written by authors from countries other than the United States. The American Society of Photogrammetry has members and subscribers in virtually every country, so that when an issue of the journal is mailed, the distribution is practically worldwide. Because of this broad distribution and acceptance, manufacturers of equipment and materials, and purveyors of services, regard Photogrammetric Engineering and Remote Sensing as a highly effective medium for advertising their goods or services. This periodical is undoubtedly one of the world's most influential in its field, as can be seen from the great extent to which its articles are referenced in other journals around the world. A complete index (1934-1979) to Photogrammetric Engineering and Remote Sensing is available from the American Society of Photogrammetry.

TABLE 3. UNITED STATES
 PERIODICALS AND OTHER SERIES PUBLICATIONS
 WITH ARTICLES ON PHOTOGRAMMETRY AND REMOTE SENSING

Name of Publication (Publisher in parentheses)	Interval of publishing	Print Run	Number of subscrib- ers (other than mem.)	Number of pages per year a) total (excluding advertisement) b) on photogrammetry and remote sensing c) advertisement	Main professional field of readers
Photogrammetric Engineer- ing and Remote Sensing (American Society of Photogrammetry)	Monthly	11,000	10,500	a) 1,320 b) 1,320 c) 480	Photogrammetrists, Remote Sensing specialists
Journal of Applied Photographic Engineering (Society of Photographic Scientists and Engineers)	Bimonthly	4,600	4,000	a) 300 b) 40 c) 0	Photographic engineers
Surveying and Mapping (American Congress on Surveying and Mapping)	Quarterly	12,000	11,000	a) 400 b) 40 c) 50	Surveyors, Cartographers
Surveying Engineering (American Society of Civil Engineers)	Aperiodic	4,000	3,900	a) 100 b) 30 c) 0	Civil Engineers
Remote Sensing of Environ- ment (Elsevier Science Publish- ing Co., Inc.)	Bimonthly, plus occa- sional spe- cial issues	1,600	1,000	a) 550 b) 540 c) 10	Remote Sensing specialists, Photogrammetrists, Environmentalists
Technical Papers from ASP Annual meeting (American Society of Photogrammetry)	Annual	2,500	2,000	a) 750 b) 750 c) 0	Photogrammetrists, Remote Sensing specialists
Technical Papers from ACSM Annual Meeting (American Congress on Surveying and Mapping)	Annual	2,500	2,000	a) 750 b) 300 c) 0	Surveyors Cartographers
Papers from Fall Technical Meeting (ASP and ACSM)	Annual	2,000	1,800	a) 600 b) 400 c) 0	Photogrammetrists, Remote Sensing Specialists, Surveyors, Carto- graphers
Papers from Symposia & Specialty Conferences (Published by various sponsors, usually ASP and ACSM)	Aperiodic	700- 2,000	700- 2,000	a) 1,000-2,000 b) 800-1,600 c) 0	Photogrammetrists, Remote Sensing Specialists
Manual of Photogrammetry (American Society of Photogrammetry hard-cover book now in Fourth Edition)	8-14 years	10,000	9,500	a) 1,080 b) 1,080 c) 0 (1980 edition)	Photogrammetrists, Surveyors, Engineers
Manual of Remote Sensing (American Society of Photogrammetry hard-cover book now in Second Edition)	8 years	10,000	9,500	a) 2,724 (2 volumes) b) 2,724 c) 0 (1983 edition)	Remote Sensing specialists, Geologists, Engineers, Foresters, Space Scientists, etc.

The Journal of Applied Photographic Engineering, a bi-monthly published by the Society of Photographic Scientists and Engineers, is of interest to those photogrammetrists who are especially concerned with the scientific aspects of photography. Most of the articles in this journal are of only peripheral interest to photogrammetrists, but there are some papers covering subjects in which the science of photography and the science of photogrammetry are closely intertwined.

The quarterly journal, Surveying and Mapping, published by the American Congress on Surveying and Mapping, deals largely with surveying, geodesy and cartography. There are many instances, however, in which these subjects include extensive applications of photogrammetry and remote sensing. A substantial portion of the articles in Surveying and Mapping reflect these applications, making the journal a valuable reference for anyone who might use photogrammetry for surveying or mapping.

Surveying Engineering (formerly the Journal of the Surveying and Mapping Division) is published by the American Society of Civil Engineers, Surveying and Mapping Division, once or twice each year. Intended for civil engineers engaged in surveying or mapping, this journal includes some articles dealing with the application of photogrammetry and remote sensing to engineering activities.

Remote Sensing of the Environment is a bi-monthly journal published in New York by Elsevier Science Publishing Co., Inc. In addition to the regular bi-monthly issues of about 90 pages each, special issues covering some special event or subject are published on occasion. For example, in 1983, a special issue of 288 pages was devoted to AgRISTARS (Agriculture and Resources Inventory through Aerospace and Remote Sensing).

Proceedings volumes

Many technical meetings on photogrammetry and remote sensing are held in the United States each year, and usually the papers presented are published in paper-bound volumes forming a periodic series for each kind of meeting. Generally, there are two kinds of meetings for which technical papers are collected: 1) regularly scheduled annual or semi-annual meetings of societies, and 2) symposia or specialty conferences on a specific subject.

Regularly scheduled meetings for which collections of technical papers are published include:

1. Annual meeting of the American Society of Photogrammetry (ASP)
2. Annual meeting of the American Congress on Surveying and Mapping (ACSM)
3. Fall technical Meeting of ASP-ACSM (papers of the two societies, usually published jointly in one volume)

An index of the papers published in these volumes is available from ASP.

Volumes of technical papers for specialty conferences held in series have been published as follows by various sponsors, usually ASP or ACSM:

1. Pecora Symposium on Applications of Remote Sensing (nine symposia as of 1984)

2. International Symposium on Computer-assisted Cartography (six symposia as of 1984)
3. Thermosense Symposium (four symposia as of 1984)
4. Symposium on Machine Processing of Remotely Sensed Data (nine symposia as of 1984)
5. Symposium on Applications of Color Aerial Photography in the Plant Sciences and Related Sciences (nine symposia as of 1984)
6. Geosat Workshop (four workshops as of 1984)

In addition, separate volumes of papers have been published in the U.S.A. recently for the following meetings:

1. ISPRS Commission IV Symposium on Cartographic and Data Bank Application of Photogrammetry and Remote Sensing.
2. Symposium on Analytical Plotters
3. Second Latin-American Technology Exchange Week (English and Spanish)
4. Workshop for Automated Photogrammetry and Cartography for Highways
5. Workshop on Land Information at the Local Level
6. Symposium on Applications of Photogrammetry and Remote Sensing for Renewable Natural Resources

Books

The manuals published by the American Society of Photogrammetry may well be considered as series publications, for they are completely rewritten and reissued at appropriate intervals. Successive hard-cover editions of the society's Manual of Photogrammetry have been published in 1944, 1952, 1966, and 1980. The Fourth Edition contains 1080 pages and hundreds of illustrations; it is used as a standard text and reference book throughout the world.

The First Edition of the two-volume hard-cover Manual of Remote Sensing was published in 1975 and was both out-of-print and out-of-date by 1982. The Second Edition, virtually a completely new work, was published in 1983. Its two volumes comprise 2724 pages, 25 chapters and 2,072 illustrations (including 220 full-color pages). The Manual of Remote Sensing, Second Edition is encyclopedic in scope and is now undergoing wide distribution in the United States and in many other countries.

THE FUTURE OF NORTH AMERICAN PUBLICATIONS

It is easy to foresee that with the constantly increasing use of photogrammetric and remote sensing techniques, more and more articles on these subjects will be written by more and more authors. Yet there should be no need to increase the number of periodicals in North America, for more material is being published now than readers can absorb.

The solution to the problem is for editors and review boards to be more selective in determining which articles should be published. Perhaps the journals should be allowed to become a bit fatter to accommodate more articles. But it would be a mistake to initiate new periodicals in the field, for this would result in a dilution of the quality of the literature and further confusion for the overworked reader.

It is this writer's conclusion that in 1984 a satisfactory plateau of photogrammetric and remote sensing literature has been reached in North America. Let us continue at the present level.