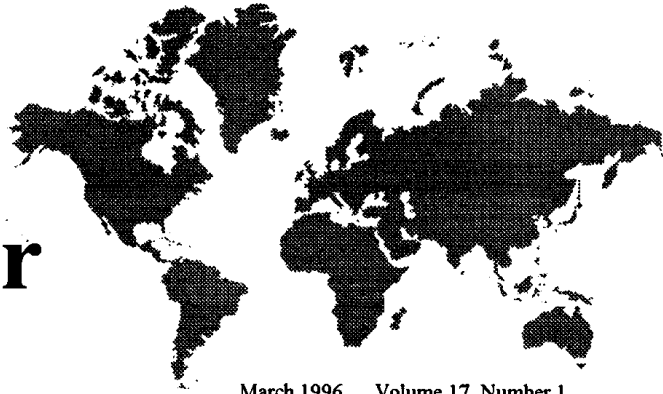


RSSG Newsletter



Remote Sensing Specialty Group
Association of American Geographers

March 1996 Volume 17 Number 1

From the Chair

The 1996 annual meeting of the Association of American Geographers is fast approaching, April 9-13. When we convene in Charlotte, North Carolina, plan to attend the interesting group of sessions and papers being sponsored by the RSSG. In addition to the program sessions, please participate in the specialty group's Business Meeting and the RSSG social scheduled to immediately follow the Business Meeting. The social event will provide us an opportunity to carry on specialty group discussions, help celebrate with the RSSG recipient of the Outstanding Contributions Award and the Student Award, and visit with friends and colleagues. For those reporting to the RSSG during the Business Meeting, please deliver (either at the meeting or prior to the meeting) a brief written report to Doug Ramsey (RSSG Secretary/Treasurer, Utah State University; doug@nr.usu.edu) for inclusion in a subsequent RSSG Newsletter. The following is a tentative agenda for the Business Meeting:

- (1) *Welcome, Introductions, and Attendance* (Steve Walsh, Chair, University of North Carolina)
- (2) *Review of Agenda Items* (Steve Walsh, Chair, University of North Carolina)
- (3) *Review and Approval of 1995 RSSG Minutes* (Published in May 1995 RSSG Newsletter) (Doug Ramsey, Secretary, Utah State University)
- (4) *Report on RSSG Finances* (Doug Ramsey, Treasurer, Utah State University)



RSSG WWW HomePage Becomes Operational

The RSSG WWW HomePage is now operational at <http://www.ksu.edu/rssg/rssg.htm>. The homepage includes, or will eventually include, information on RSSG officers, members, links to remote sensing and earth science-related sites, and a message and announcements bulletin board. Most of these are still under construction. Suggestions about page design or contents are welcome. Contact:

Douglas Goodin
Department of Geography
Kansas State University
Manhattan, KS 66506-0801
Tel.: (913) 532-6727
Fax: (913) 532-7310
email: dgoodin@ksu.ksu.edu

Continued on page 2...From the Chair

From the Chair...Continued from page 1.

(5) *Report on the Charlotte RSSG Program* (Bill Tyler, ERIM and Mark Jakubauskas, University of Oklahoma)

(6) *Report on the RSSG Newsletter* (Jim Merchant, Editor, University of Nebraska, Lincoln)

(7) *Nominations and Elections for Vice-Chair, Director, and Student Director* (Steve Walsh, University of North Carolina)

(8) *Committee Reports*

(a) Honors (Duane Nellis, Chair, Kansas State University)

(b) Student Awards (John Harrington, Chair, Kansas State University)

(c) AAG Committee on Standards for Geographic Data (Kam Lulla, Johnson Space Center)

(d) Regional Councilors

(1) Middle States (Ling Bian, SUNY Buffalo)

(2) NESTVAL (Tom Allen, University of Vermont)

(3) Southwest (Mark Jakubauskas, University of Oklahoma)

(4) Pacific Coast (Janet Franklin, San Diego State University)

(5) West Lakes (Sue Berta, Indiana State University)

(6) East Lakes (David Lusch, Michigan State University)

(7) Great Plains/Rocky Mtns (Danny Vaughn, Weber State University)

(8) Middle Atlantic (Doug Wheeler, USGS)

(9) Southeast (Aaron Moody, University of North Carolina)

(e) Publications Committee (Dale Quattrochi, Chair, NASA/Marshall Space Flight Center)

(f) Communications Committee (Doug Goodin, Chair, Kansas State University)

(g) Social Event Organizers (Dale Quattrochi, NASA/Marshall Space Flight Center and Dan Brown, Michigan State University)

(9) *Program Chair and Vice-Chair for the 1997 Meeting* (Mark Jakubauskas, Chair, University of Oklahoma; Vice-Chair, to be determined)

(10) *Other Business*

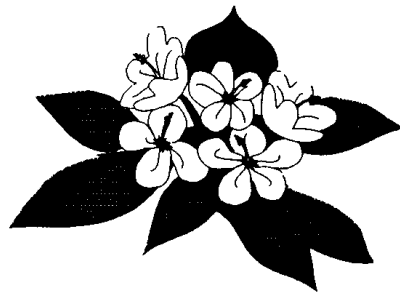
The RSSG Executive Committee (Steve Walsh, Chair; Kevin Price, Vice-Chair; Doug Ramsey, Secretary/Treasurer; Dan Brown,

Director; Dale Quattrochi, Director, John Dunham, Student Director; Tina Cary, Past Chair; and Jim Merchant, Editor of the Newsletter) should plan to meet prior to the Business Meeting. Please plan to assemble at the AAG Conference Registration site at noon on the day of the AAG scheduled RSSG Business Meeting for a brief organizational meeting. Please contact me if you do not plan to attend the AAG meeting or if your schedule does not permit our planned meeting.

Finally, while the reports of all RSSG representatives and committee chairs is central to the specialty group's well-being and information exchange, the Business Meeting and subsequent discussions should focus on three important items: the RSSG sponsorship of a Special Issue in *GeoCarto International* (Dan Brown and Dale Quattrochi, Editors) and subsequent opportunities; whether the RSSG wishes to sponsor and direct a *Monograph Series*; and the honoring of one or more members of the RSSG through the outstanding *Contributions Award* and the *Student Award*, both officially recognized at the AAG Honors Luncheon.

Comments and questions regarding the forthcoming RSSG program and Business Meeting should be directed to :

Stephen J. Walsh, Chair, RSSG
Professor of Geography
University of North Carolina
Chapel Hill, NC 27599-3220
Tel.: (919) 962-3867
Fax: (919) 962-1537
email: Walsh@geog.unc.edu



1996 Student Awards Program

The RSSG Student Awards Committee, comprised of Bill Tyler (Environmental Research Institute of Michigan), John Brockhouse (U.S. Military Academy) and John Harrington, Jr. (Kansas State University), is planning a Student Paper and Poster Presentation Competition for the 1996 AAG meetings in Charlotte, NC. In order to be eligible for the 1996 competition, students must send a copy of their AAG abstract and a note indicating the date and time of their AAG-Charlotte presentation to John Harrington by **March 22, 1996**. For additional information or to participate in the competition, contact:

Dr. John Harrington, Jr.
Chair, RSSG Student Awards Committee
Department of Geography
Kansas State University
Manhattan, KS 66506
Tel.: (913) 532-6727
e-mail: jharrin@ksuvm.ksu.edu

International Geoscience and Remote Sensing Symposium

The 1996 International Geoscience and Remote Sensing Symposium (IGARSS '96) will be held in Lincoln, NE May 27-31, 1996. Over 700 international remote sensing experts are expected to attend the conference. **IGARSS'96 ON-LINE**. IGARSS'96 On-Line is your World Wide Web source for up-to-the-minute information about the 1996 International Geoscience and Remote Sensing Symposium. IGARSS '96 On-Line can be accessed at <http://doppler.unl.edu/igarss96>

For more information, please contact:

IEEE Geoscience and Remote Sensing Society
2610 Lakeway Drive
Seabrook, TX 77586
Tel: (713) 291-9222
FAX: (713) 291-9224
email: stein@harc.edu

Honor and Awards

Lisa M.B. Harrington and John A. Harrington, Jr. (both in the Department of Geography, Kansas State University) received \$1,600.00 from the Kansas State Office of Research and Sponsored Programs. Their research project, Assessing Vegetation Change at Mt. St. Helens, will examine differences among eight mid-summer Landsat MSS scenes for the period 1979 through 1992.



USE YOUR NEWSLETTER

The RSSG Newsletter is your vehicle for communicating with colleagues interested in remote sensing. You are invited to send news regarding publications, awards, honors, academic programs, research activities, commercial ventures, students, jobs and other announcements to:

James W. Merchant
Conservation and Survey Division
University of Nebraska-Lincoln
113 Nebraska Hall
Lincoln, NE 68588-0517
Telephone: (402) 472-7531
FAX: (402) 472-2410
Internet: jm1000@tan.unl.edu

If possible, please submit contributions on a disk or via e-mail in Wordperfect or ASCII

NOAA Satellite Information System (NOAASIS)

World Wide Web sites provide access to environmental satellite-related products and information

The Satellite Services Division (SSD) of NOAA's National Environmental Satellite, Data, and Information Service (NESDIS) currently maintains a World Wide Web (WWW) site on the Internet to distribute NOAA environmental satellite information. The NOAA Satellite Information System (NOAASIS) serves as a central location for disseminating satellite information provided by various contributors within NESDIS and the external satellite community. NOAASIS can be accessed through the WWW at URL: <http://psbsgi1.nesdis.noaa.gov:8080/noaasis.html>

NOAASIS includes information updated daily, weekly, monthly, and important messages called "Special Bulletins" that inform users of activities that impact customer satellite operations. The HTML Source pages are automatically updated daily and on-demand when warranted. Cooperation among offices provides for the timely posting of satellite status reports, data schedules, navigational messages, and "Special Bulletins."

The data provided is not imagery; rather, it is the information necessary to collect and process imagery data. Other available information includes satellite and sensor descriptions, some publications and technical reports, descriptions of available data service, links to other satellite related sites, and upcoming events such as user conferences and meetings. NOAASIS focuses on NOAA's geostationary and polar satellites. Descriptions of the platforms, data formats, and sources of additional information are all available through a Satellite Information page. Links to other country's satellites such as METEOSAT are also provided. The most frequently accessed files are those pertaining to satellite broadcast schedules, coverage, and navigation. Anonymous FTP has recently been made available for automated access to the most popular files (Polar Recorder Schedules and GOES and Polar TBUS Messages).

Additional resources include NOAA publications. The NOAA *Polar Orbiter Data User's Guide*, NOAA Technical Report NESDIS 82: *An Introduction to the GOES I-M Imager and Sounder Instruments and the GVAR Retransmission Format*, NOAA Technical Memorandum NESDIS 40: *The Geostationary Operational Environmental Satellite Data Collection System*, and other publications are available online to browse or download as a text file.

User feedback has been important in designing and implementing the NOAASIS. A mail form is accessible at the bottom of each Web page; mail is submitted to a central mailbox that is accessible by a team of employees who respond to the questions or comments.

In the future, users should expect access to more files via anonymous FTP, and more publications online and available for downloading. For additional information contact the Data Services Team at 301-763-8325 or send E-mail to: satinfo@ssd.wwb.noaa.gov.

Source: **Earth System Monitor Newsletter**
December 1995

NESDIS Office of Satellite Operations HomePage

The National Environmental Satellite, Data, and Information's (NESDIS) Office of Satellite Operations now has a Home Page on the Internet World Wide Web (WWW). Although still under development, the Office of Satellite Operations Home Page contains information on both the geostationary and polar satellite systems, as well as the latest Geostationary Operational Environmental Satellite (GOES-8) images of North America and the Western Hemisphere.

New links to WWW home pages will also be incorporated to provide a more complete understanding of NOAA operational satellites and ground equipment. The HomePage is at URL:

http://www.nnic.noaa.gov/SOCC/SOCC_Home.html

(Users should be careful to type the address exactly, as it is case-sensitive.) For additional details, contact:

NOAA Office of Satellite Operations
NESDIS/NSDS E/SO, Federal Building #4
Room 1035
Suitland, MD, 20233-001
Tel.: (301) 457-5130.

Source: **Earth System Monitor Newsletter**
December 1995

1996 Applied Geography Conference

The 1996 Applied Geography Conference will be held Wednesday through Saturday October 16-20th at the Kansas City, MO Airport Marriott Hotel. Past Applied Geography Conferences have been organized around several major themes including: 1) Environment and Water Resources, 2) Applied Climatology, 3) Geographic Tools and Methods, 4) Retail and Business Geography, and 5) Federal Programs. The conference organizers hope to have a broad selection of papers and sessions on remote sensing issues. The deadline for submitting a paper or a session will be April 19th. For additional details, contact:

John Harrington, Jr.
Department of Geography
Kansas State University
Manhattan, KS 66506
Tel.: (913) 532-6727
Fax: (913) 532-7310
email: jharrin@ksu.ksu.edu

WHAT'S NEW



SPOT Image Corporation WWW Homepage

SPOT Image Corporation has introduced a new home page on the Internet's World Wide Web. The home page provides access to up-to-date information on the SPOT satellite system, SPOT products and services, the commercial distribution network and other news. Two servers facilitate global access: <http://www.spotimage.fr> for SPOT IMAGE headquarters in Toulouse, France; and <http://www.spot.com> for SPOT Image Corporation in the United States. For additional details contact:

Colleen Hanley
SPOT Image Corporation
1897 Preston White Drive
Reston, VA 22091-4368
Tel: (703) 715-3137
Fax: (703) 648-1813

Reflections Newsletter

RADARSAT International is publishing a newsletter to provide information on the operations and applications of the RADARSAT satellite. For a subscription to Reflections or additional information on RADARSAT, contact:

RADARSAT International
3851 Shell Road, Suite 200
Richmond, British Columbia
CANADA V6X 2W2
Tel.: (604) 231-4916
Fax: (604) 231-4999

ERIM Announces Special Savings on SPOT Imagery

The Environmental Research Institute of Michigan (ERIM) is now a licensed distributor and value-added reseller of SPOT data. For a limited time, ERIM is making two special offers:

1. For each panchromatic SPOT image ordered, receive a free 1:100,000 scale print.
2. For each XS SPOT dataset ordered, receive a free 1:400,000 scale color print.

For additional information on these offers or other ERIM remote sensing services and products, contact:

Larry E. Reed
ERIM
1975 Green Road, P.O. Box 134001
Ann Arbor, MI 48113-4001
Tel.: (313) 994-1200 (x3606)
Fax: (313) 665-6559
email: reed@erim.org

Historical Landsat Data Comparisons

A new booklet published by the U.S. Geological Survey's EROS Data Center contains over 30 Landsat MSS scenes portraying striking changes in the Earth's surface over a 15-year time period. The publication includes background on the Landsat satellites, and images and descriptions of 16 areas around the globe including the Nile River delta, Kuwait, Dallas-Fort Worth and Yellowstone National Park among others. A CD-ROM is planned to accompany the publication. For additional details, contact:

Customer Services
USGS/EROS Data Center
Sioux Falls, SD 57198
Tel.: (605) 594-6151

The Pecora 13 Symposium

Human Interaction with the Environment: Perspectives from Space

August 20-22, 1996
Sioux Falls, SD

The Pecora 13 Symposium honors the memory of Dr. William T. Pecora, former Director of the U.S. Geological Survey, Under-Secretary of the Department of the Interior, and a pioneer in space-based remote sensing. During the past two decades the twelve Pecora Symposia have addressed many major topics in remote sensing including sensor development, policy issues, data access and archive, and applications of the technology in a wide variety of areas. In 1996, the Pecora 13 Symposium will focus on the role of remote sensing in assessment of **Human Interaction with the Environment: Perspectives from Space**. The principal objectives of the Pecora 13 Symposium are:

1. To better identify information requirements, and determine current information deficiencies, for addressing issues related to human interaction with the environment;
2. To report progress in mapping, monitoring and characterizing the biosphere and the extent and nature of human activity via remote sensing technology;
3. To define opportunities for enhancing progress in using remote sensing to enhance the quality of human life and for protecting the global environment.

Pecora 13 On-Line

The Pecora 13 Planning Committee has established *Pecora13 On-Line*, a WWW Home Page at <http://edcwww.cr.usgs.gov/pecora13.html>.

For additional details contact:

Ronald E. Beck
Pecora 13 Planning Committee Chair
EROS Data Center
Sioux Falls, SD 57198
Tel.: (605) 594-6551
FAX: (605) 594-6589 or

James W. Merchant
Pecora 13 Technical Program Chair
Conservation and Survey Division
University of Nebraska-Lincoln
Lincoln, NE 68588-0517
Tel.: (402) 472-7531
FAX: (402) 472-2410
email: jm1000@tan.unl.edu

Side-Looking Airborne Radar

Characteristics

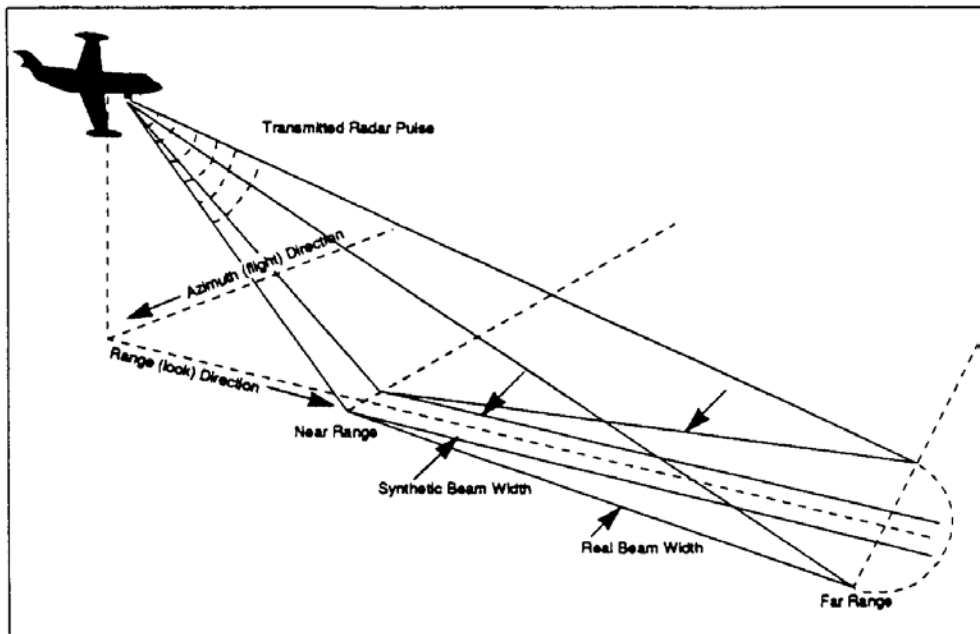
Side-looking airborne radar (SLAR) systems provide their own illumination. Consequently, images can be collected regardless of the weather or time of day. This property, coupled with SLAR imaging geometry, makes the images different from other types of remotely sensed data.

SLAR images are created by transmitting a beam of microwave energy to the ground at an angle perpendicular to the aircraft flight path. The signal strikes the terrain and scatters, then a portion returns to the radar receiver. The strength of this back-scattered return depends on surface features and is recorded as shades of gray on the processed image. The side-looking geometry of the system produces shadows of varied length depending on the angle of illumination and the surface relief.

These shadows can make subtle terrain features, such as faults and folds, easier to detect and identify than on other kinds of images. This characteristic makes SLAR images useful to scientists involved in mineral and energy exploration and earth hazards studies.

Most commercially available SLAR systems operate in the X band at frequencies of 12.0-8.0 gigahertz (GHz or billions of cycles per second) and wavelengths of 2.4-3.8 centimeters. Usually these systems transmit and receive horizontally polarized signals (HH). Experimental radar systems, designed to aid in the development of satellite-borne units, operate at one or several frequencies and have multipolarization capabilities.

Commercial SLAR systems have constant range and azimuth resolution throughout the image of approximately 10 by 15 meters or better. However, resolution and detectability are not the same thing with



How SLAR images are acquired.

radar; objects smaller than one meter in size may be routinely detected because of the strong radar return of some objects. The look direction ("west-looking," for example) of a SLAR image refers to the illumination direction. The choice of SLAR project design parameters such as look direction and beam angle is usually based on the geologic structure of the area. For example, linear structures such as faults that are parallel to the look direction may not be easily detected since they show little radar shadow. In analyzing radar images, the images should be turned so the shadows are toward the viewer. This practice assists in interpreting hills as hills and valleys as valleys.

Applications

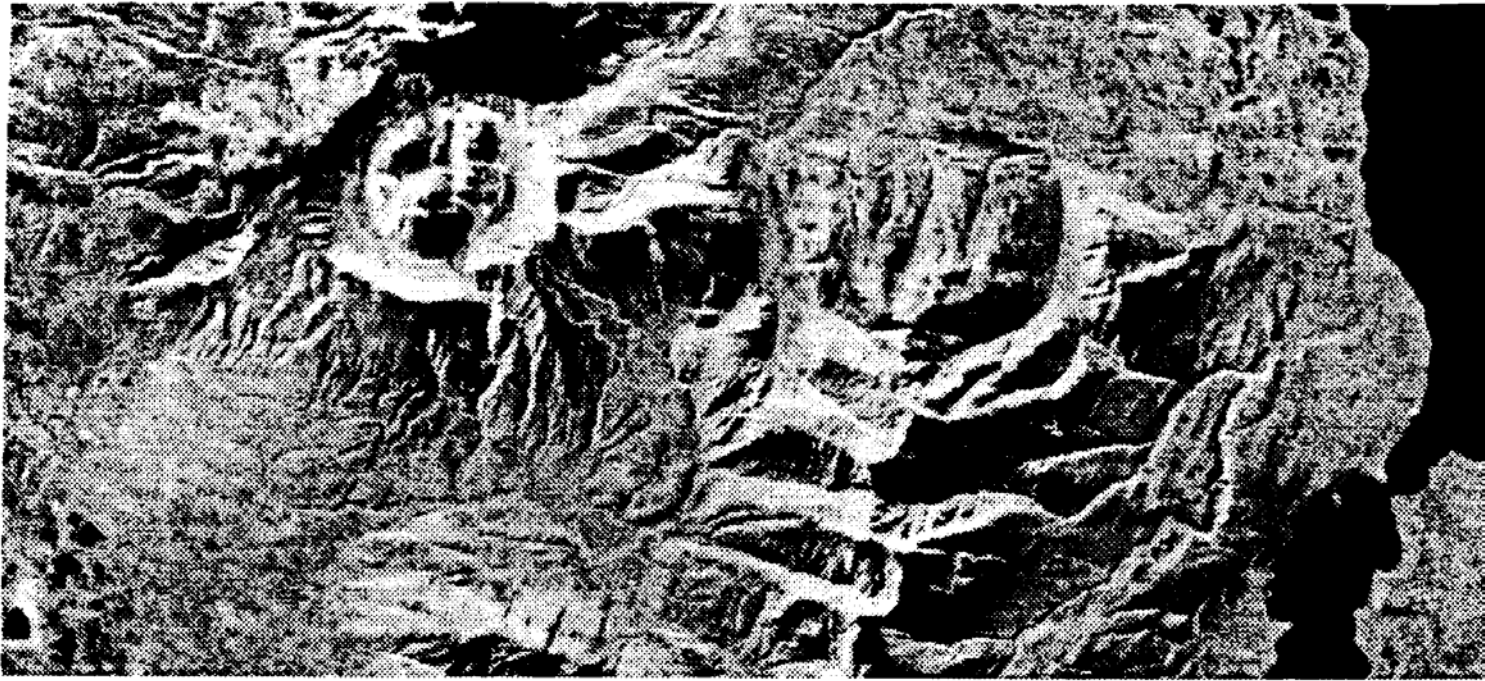
SLAR data are particularly valuable when used with traditional earth science and other remotely sensed data. Scientists have effectively used SLAR data all over the world to aid in mapping geologic features that have contributed to the discovery of mineral and energy reserves and to identify potential environmental hazards.

SLAR data on more than 25 million square kilometers have been gathered in Brazil, Colombia, Ecuador, Guinea, Indonesia, Japan, Nigeria, Peru, and the United States.

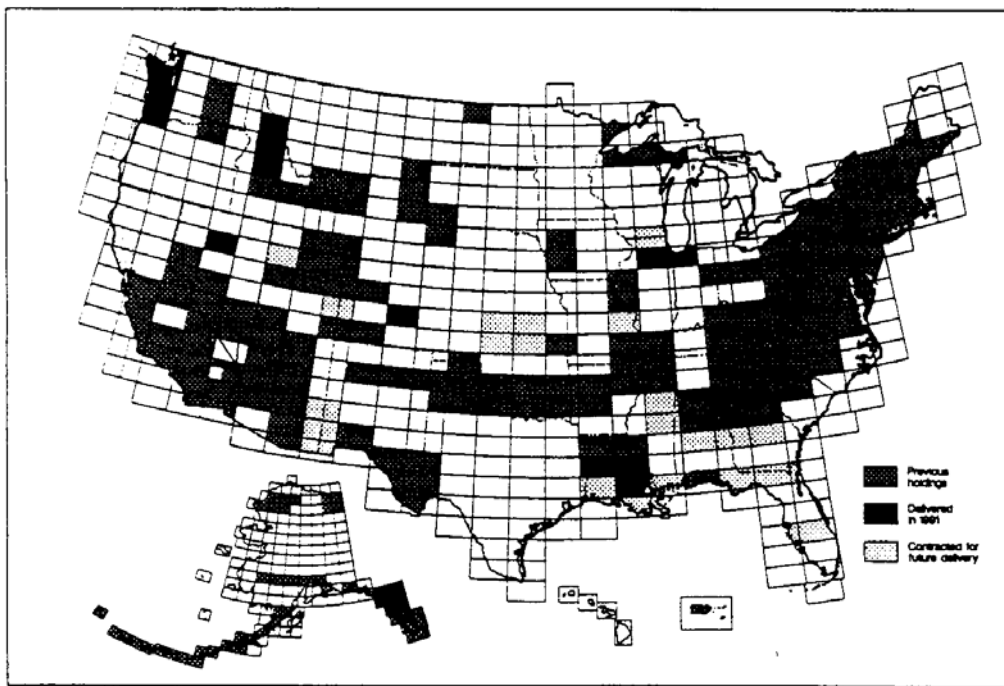
Since SLAR also penetrates most clouds, has been used to prepare image-based maps of perpetually cloud-covered areas of the world such as the Brazilian rain forests, Aleutian Islands, and parts of Panama.

U.S. Geological Survey SLAR Data

The U.S. Geological Survey's (USGS) SLAR images most often consist of image strips and 1:250,000-scale map-controlled mosaics. More than half of the available SLAR image strips are also on computer-compatible tapes (CCT's). Some SLAR data are available on compact disc read only memory (CD-ROM). The CCT and CD-ROM digital files retain much more of the recorded dynamic range of the data than do photographic copies. For example, photographic copies are usually limited to a dynamic range of about 15 decibels, whereas digital files hold an available dynamic range of 30-40 decibels, allowing more detailed interpretation.



Radar Image , Southeast look, Ugashik, Alaska.



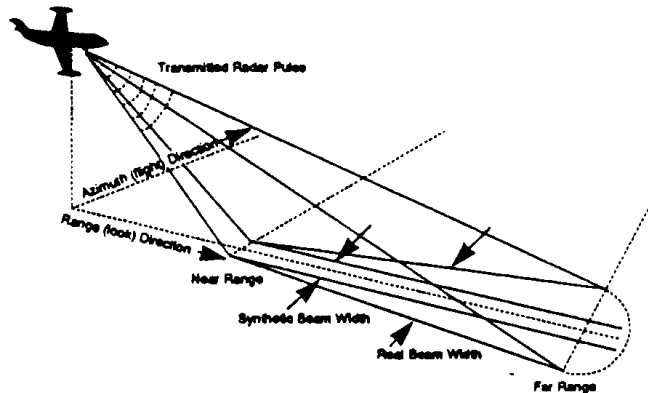
Project areas coverage under the USGS SLAR Program, 1980-1991.

Ordering Information

SLAR products available from the USGS include contact strip images, radar mosaics, and digital data. Indexes on paper, film, microfiche, mission flight logs and final project reports, custom photographic products, and some CD-ROM discs are available. For more information contact:

Sioux Falls-ESIC
EROS Data Center
Sioux Falls, SD 57198
605-594-6151

Side-Looking Airborne Radar (SLAR) Data on CD-ROM



How SLAR images are acquired.

Area of coverage

Various 1:250,000-scale maps of areas in the United States. (For a complete list of cities and States covered, see the reverse side of this form.)

Contents

The CD-ROM contains digital files of the SLAR data strips for the named 1:250,000-scale quadrangle usually covering 1° of latitude by 2° of longitude (more in Alaska).

SLAR is an electronic image-producing system that derives its name from the radar beam that is transmitted perpendicular to the ground track of the aircraft acquiring the data. This results in an illuminated view of the terrain that enhances subtle surface features and often facilitates interpretation. SLAR images are useful to earth resource scientists and managers involved in mineral and energy exploration; earth hazards studies; and geologic, hydrologic, cartographic, and engineering applications.

SLAR provides its own source of illumination in the form of microwave energy; thus, images can be obtained either day or night. Because SLAR penetrates most clouds, it can be used to prepare image base maps of perpetually cloud-covered areas of the world where collecting conventional aerial photographs is impractical, such as over the Aleutian Arc of Alaska.

IMDISP, a public domain display software package compatible with PC-DOS, is provided on the CD-ROM under the software subdirectory. For documentation read IMDISP.DOC file.

Price

\$32 each.

Hardware

Requires a CD-ROM reader with software drivers that read ISO-9660 formatted CD-ROM's.

Information

Sioux Falls-ESIC
EROS Data Center
Sioux Falls, SD 57198
605-594-6151

SLAR CD-ROM's

Alexandria, LA	Moab, UT-CO
Alliance, NE	Mobile, AL-MS-LA
Andalusia, AL	Montgomery, AL
Apalachicola (North), FL	Natchez, MS-LA
Atlin, Yukon Territory/AK	New Orleans, LA
Athens, GA	Pensacola, FL-AL
Baltimore, MD	Phenix City, AL-GA
Baton Rouge, LA-MS	Poplar Bluff, MO
Belleville, IL-IN	Port Arthur, TX-LA
Bretonsound, LA	Portland, ME-NH
Brunswick, GA	Pratt, KS
Clifton, AZ-NM	Racine (West), WI-IL
Daytona Beach, FL	Rockford, IL-WI
Dothan, AL-GA-FL	Rolla, MO-IL
Douglas, AZ-NM	Russellville, AR
Fort Pierce, FL	Santa Rosa, CA
Fort Smith (East), OK-AR (2 AR-OK)	Savannah, GA-SC
Fort Smith (West) OK-AR	Silver City, NM-AZ
Gainesville, FL	Spartanburg, SC
Grand Junction, UT-CO	St. Louis, MO-IL
Great Bend, KS	St. Petersburg (East), FL
Greenwood, MS-AR-LA	Tallahassee, FL-GA-AL
Hamilton, ID-MT	Tooele, UT
Hattiesburg, MS-AL-LA	Tupelo, MS-AL-TN
Helena, AR-MS-TN	Ukiah, CA
Hutchinson, KS	Valdosta, GA-FL
Jackson, LA-MS	Vincennes, IN-IL-KY
Jacksonville, FL-GA	Warren, PA
Lake Charles, LA-TX	Washington, DC-MD-VA
Lake Charles (East), LA (2)-TX	Waycross, GA
Lake Charles (West), LA-TX	West Point, MS-AL
Louisville, KY	Western Mosaics
Macon, GA	Witchita, KS
Marion, OH	Yakutat, AK-Can
Meridian, MS-AL	Joint Earth Science (JES-2)
	Joint Earth Science (JES-3)

SLAR mosaics of the following western area quadrangles are all on one CD-ROM; individual strips are not included:

Las Vegas, NV
Mariposa, CA
Pendleton, OR
Ritzville, WA
Walla Walla, WA

SLAR PRODUCTS

STRIP IMAGES are the photographic representation of SLAR data. They are generally regarded as the best medium for interpretation. They are available in 1:250,000 scale or 1:400,000 scale depending on the project. Special enlargements of the strips are available upon request.

MOSAICS, produced from strip images, are a third generation photographic product and may have less resolution than the original strip imagery. In addition, shadow differences may occur across junction lines between adjoining strips. These differences may result in misinterpretation of apparent terrain relief where no differences actually exist.

1:250,000, 1:100,000 and 1:50,000 scale mosaics

- 1:250,000 scale mosaics are available for all project areas. They may be near range or far range.
- 1:100,000 scale mosaics are enlarged views from one quarter (NE, SE, SW, NW) of the 1:250,000 scale mosaics. They may be near range or far range and are not available for all project areas.
- 1:50,000 scale mosaics are available for selected areas in Alaska.

DIAZO PAPER prints are blue line reproductions made from the mosaics. They are used primarily as browse products as they do not retain all of the image detail that a photographic product provides.

INDEX MOSAICS include the roll and frame annotation for each strip in the project area and may be used to select strip imagery. They may be near range or far range. They are available at a 1:1,000,000 scale.

COMPUTER COMPATIBLE TAPES - 1600 or 6250 BPI only, ASCII unlabelled (no ebcdic or labelled format offered).

- Digital strips are ordered by project, roll and frame number for projects that have digital data. Cost - \$80.00/strip.
- Digital mosaics are orderable by quad name and project. Digital mosaics are not available for all projects and only 6250 BPI ASCII unlabelled tapes are offered. Cost - \$80.00.

SLAR INDEXES ON MICROFICHE

SLAR Strip Index Set - Includes all projects.
 Cost - \$5.00 per set.
 No update subscription service.

May be ordered on comments line on the reverse side.

PRODUCTS TABLES

(Prices subject to change)

STRIP IMAGES

PRODUCT CODE	PRICE	DESCRIPTION
F084	\$35.00	Strip Neg Film
F094	\$35.00	Strip Pos Film
P104	\$30.00	Strip Paper

MOSAICS AND MISCELLANEOUS

PRODUCT CODE	PRICE	DESCRIPTION
F074	\$ 5.00	Microfiche Set
P018	\$ 7.00	Diazo Paper
F080	\$ 85.00	1:50,000 Neg Film
F081	\$ 85.00	1:100,000 Neg Film
F082	\$100.00	1:250,000 Neg Film
F083	\$ 85.00	1:1,000,000 Neg Film
F090	\$ 85.00	1:50,000 Pos Film
F091	\$ 85.00	1:100,000 Pos Film
F092	\$100.00	1:250,000 Pos Film
F093	\$ 85.00	1:1,000,000 Pos Film
P100	\$ 60.00	1:50,000 Paper
P101	\$ 60.00	1:100,000 Paper
P102	\$ 85.00	1:250,000 Paper
P103	\$ 60.00	1:1,000,000 Paper

COMPUTER COMPATIBLE TAPES

PRODUCT CODE	PRICE	DESCRIPTION
T050	\$80.00	Digital Strip
T051	\$80.00 /Tape	Digital Mosaic

RSSG Newsletter
c/o James W. Merchant
Conservation and Survey Division
University of Nebraska-Lincoln
113 Nebraska Hall
Lincoln, NE 68588-0517