

Southwest Research Institute

6220 Culebra Road  
San Antonio, TX 78238-5166

Purchase Order: X70138N

Order To: APPLIED GEOGRAPHIC SCIENCE  
2508 SOUTHLAND DRIVE  
AUSTIN, TX 78704

506538

Ship To: Southwest Research Institute  
6220 Culebra Road  
San Antonio, TX 78238-5166

Contact: MITCHEL BELL Ph: 512-916-1361 Fax: 512-916-1362

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
08/07/00	Florence Cisneros	NET	SHIPPING POINT		FEDERAL EXPRESS	R.FEDERS/BLDG. 189		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** * CONFIRMATION * ***** This is a rated order certified for national defense use, and the contractor shall follow all requirements of the Defense Allocations System Regulation (15 CFR Part 700).							
1	SERVICES 01 SERVICE PURCHASE ORDER IMAGE (JANUARY 2001, APRIL 2001, AUGUST 2001) AREA = 40 KM2 @ \$86/KM 2 LESS 10% DISCOUNT LONGITUDE: - 116.4786793 TO -116.4220834 LATITUDE: 36.81226998 TO 36.88464492; INCLUDES FEDERAL EXPRESS SHIPPING @ \$14  Req: 532956  Prime Contract #: NRC0297009 Priority: N/A AOP: 705-000 1.20 01402.861			08/31/00	08/31/00	0.0000	0.0000	\$9,302.00
2	SERVICES 01 SERVICE PURCHASE ORDER IMAGE (AUGUST 2000) AREA = 1,904 KM @ \$86/KM LESS 10% DISCOUNT LONGITUDE: -116.8089733 TO -116.2263613 LATITUDE: 36.62416973 TO 36.95781143; INCLUDES FEDERAL EXPRESS SHIPPING @14  Req: 532956  Prime Contract #: NRC0297009 Priority: N/A AOP: 705-000 1.20 01402.471			08/31/00	08/31/00	0.0000	0.0000	\$147,383.60
3	SERVICES 01 SERVICE PURCHASE ORDER			08/31/00	08/31/00	0.0000	0.0000	\$87,089.00

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Page: 2 of 3  
Date Printed: 08/07/2000

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08/07/00	Florence Cisneros	NET	SHIPPING POINT		FEDERAL EXPRESS	R.FEDERS/BLDG. 189		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	<p>IMAGE (AUGUST 2000)                      AREA = 1,125 KM @\$86/KM LESS 10% DISCOUNT                      LONGITUDE: 116.6345275 TO -116.2296800                      LATITUDE: 36.34245066 TO 36.62983155; INCLUDES FEDERAL EXPRESS SHIPPING @14</p> <p>PAYMENT TERMS: SELLER SHALL BE REIMBURSED IN ACCORDANCE WITH THE FOLLOWING PAYMENT SCHEDULE:</p> <p>IMAGE (40KM 2)(LINE 1) AMOUNT\$9,302.00 DUE AUGUST 23, 2000                      IMAGE (1904KM 2)(LINE2) AMOUNT\$147,383.60 DUE AUGUST 23, 2000                      IMAGE (1,125 KM 2)(LINE 3) \$87,089.00 SEPTEMBER 18, 2000</p> <p>ATTACHMENT 1 - GENERAL PURCHASE ORDER TERMS AND CONDITIONS APPLY TO THIS ORDER.</p> <p>A/P: PRIOR APPROVAL OF INVOICE IS NOT REQUIRED. CONTACT FLO CISNEROS FOR CHECK PICKUP @ EXT 2262</p> <p style="text-align: center;">Req: 532956</p> <p>Prime Contract #: NRC0297009                      AOP: 705-000 1.20 01402.941</p> <p>THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN 5 WORKING DAYS.</p> <p>"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."</p>							

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ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO		
08/07/00	Florence Cisneros	NET	SHIPPING POINT		FEDERAL EXPRESS	R.FEDERS/BLDG. 189		
LINE	ITEM/DESCRIPTION	REV	U/M	DUE DATE	DESIRED DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	Bill To: Southwest Research Institute P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510  <hr/> Authorized Signatures						PO Total Amt:	\$243,774.60



**PURCHASE REQUISITION  
SOUTHWEST RESEARCH INSTITUTE**

"Attach Memos, quotations and any other correspondence."

PURCHASE ORDER NO. \_\_\_\_\_ REQ. NO. **532956**

VENDOR		DATE OF ORDER	SHIP VIA	SUGGESTED SUPPLIER	
		F.O.B. POINT	TERMS	<b>Mitchell Bell</b>	
		CONTRACT NO.		<b>Applied Geographic Science</b>	
				<b>2508 Southland Dr.</b>	
VENDOR CODE		ATTN:	PHONE	PRIORITY	FAX
				<b>Austin, TX 78704</b>	
				<b>512-916-1361</b>	<b>512-916-1362</b>

ITEM	QTY.	UNIT	DESCRIPTION	ITEM IDENTIFIER	EST. COST EA.	UNIT PRICE	AMOUNT
<b>A</b>	<b>3</b>	<b>each</b>	<b>Image (January 2001, April 2001, August 2001)</b> Area = 40 km <sup>2</sup> @ \$96/km <sup>2</sup> less 10% discount Longitude: -116.4786793° to -116.4220834° Latitude: 36.81226998 to 36.88464492° Shipping		<b>3,096.00</b>		
						<b>14.00</b>	
<b>B</b>	<b>1</b>	<b>each</b>	<b>Image (August 2000)</b> Area = 1,984 km <sup>2</sup> @ \$96/km <sup>2</sup> less 10% discount Longitude: -116.8088733° to -116.2263613° Latitude: 36.62418973° to 36.95781143° Shipping		<b>147,369.60</b>		
						<b>14.00</b>	
<b>C</b>	<b>1</b>	<b>each</b>	<b>Image (August 2000)</b> Area = 1,125 km <sup>2</sup> @ \$96/km <sup>2</sup> less 10% discount Longitude: -116.6345275° to -116.2296800° Latitude: 36.34245066° to 36.62983155° Shipping		<b>87,075.00</b>		
						<b>14.00</b>	
						<b>TOTAL</b>	

(continued on page 2)

REQUIRED	REQUISITION DATE <b>July 26, 2000</b>	TO BE USED FOR	DELIVER TO NAME/LOCATION <b>R. Fedors/Bldg. 189</b>	SPECIAL INSTRUCTIONS <b>send req. to R. Ard/Bldg. 189</b>
ACCOUNT NO.(s) <b>(A) 20.01402.861 = \$9,288.00 + \$14.</b> <b>(B) 20.01402.471 = \$147,369.60 + \$14.</b> <b>(C) 20.01402.941 = \$87,075.00 + \$14.</b>	REQUESTOR'S SIGNATURE <b>Randall Fedors</b> DEPARTMENTAL/DIVISIONAL APPROVAL <b>E. Fedors</b> DATE <b>7/29/00</b>	EXT. NO. <b>6818</b>	1. If you have specified a brand name, would an equivalent brand or product also satisfy your need? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	2. If you have suggested a supplier for the item or service, could other suppliers meet your requirements? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
4. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	a. If "NO", will it be attached to, built into, or used as an accessory to a piece of equipment either in existence or to be constructed? <b>NIA</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	d. Is government furnished property being sent to vendor? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	f. QA Footnotes: <b>Q1</b>	
If the item is being charged to a government contract: a. Will it be substantially consumed, destroyed, or exhausted during the performance of the project? <b>NIA</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	c. If "NO", is the item uniquely required to instrument the project that is funding the purchase? <b>NIA</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	e. QA Approval (if required) <b>Bruce Nabrito</b> Date <b>7/29/2000</b>	g. Inspection Criteria: <b>STATED ABOVE.</b>	
CONTRACT ADMINISTRATOR	DATE	BUYER SIGNATURE	DATE	EXPEDITE DATE

**SEE INSTRUCTIONS ON REVERSE SIDE**



PURCHASE REQUISITION  
SOUTHWEST RESEARCH INSTITUTE

"Attach Memos, quotations and any other correspondence."

PURCHASE ORDER NO.	REQ. NO.
	Page 2 of 2 502064

VENDOR		DATE OF ORDER	SHIP VIA	SUGGESTED SUPPLIER
		F.O.B. POINT	TERMS	<b>Mitchell Bell</b>
		CONTRACT NO.		<b>Applied Geographic Science</b> <b>2508 Southland Dr.</b>
VENDOR CODE	ATTN:	PHONE	PRIORITY	<b>Austin, TX 78704</b>
				PHONE <b>512-916-1361</b>
				FAX

ITEM	QTY.	UNIT	DESCRIPTION	ITEM IDENTIFIER	EST. COST EA.	UNIT PRICE	AMOUNT
<b>CONDITIONS:</b>							
Invoice must be received by August 4, 2000							
Permission to use both raw and processed data by SwRI/CNRA and the U.S. Nuclear Regulatory Commission for NMPA purposes must be provided							
<b>QUALITY &amp; TECHNICAL REQUIREMENTS:</b>							
Carterra Precision, 1-m Pan-Sharpener; False-color (NIR,R,G), UTM Nad83 (m); Media: cdrom							
Technical specifications (per Space Imaging Catalog, Sept. 1999)							
(1) 1-m resolution							
(2) Level of correction for terrain and collection geometry: orthorectified to 4-m horizontal accuracy <del>XXXXX</del> (CE90%) meeting the 1:4000							
U.S. National Map Accuracy Standards with <del>XXXXX</del> RMSE $\leq 1.9$							
(3) 80% cloud free							
A certificate of conformance must be completed and sent with each delivered image.							
--The raw and processed data provided by Applied Geographic Science/Space Imaging to the CNRA/SwRI will also be provided to the SwRI client, the U.S. Nuclear Regulatory Commission.							
--Each data deliverable will be accompanied by a Supplier Certificate of Conformance identifying (i) the SwRI P.O. number; (ii) the specific procurement requirements; (iii) any procurement requirements that have not been met; and (iv) be signed by a person who is responsible for Applied Geographic Science/Space Imaging quality assurance functions.							
Space Imaging shall provide right-of-access to appropriate SwRI/CNRA staff to obtain information and objective evidence sufficient to determine whether the Imaging of Thornton, CO, has a quality system and can be added to the SwRI Approved Supplier List.							
<b>TOTAL</b>							

REQUIRED	REQUISITION DATE	TO BE USED FOR	DELIVER TO NAME/LOCATION	SPECIAL INSTRUCTIONS

ACCOUNT NO.(S)	REQUESTOR'S SIGNATURE <b>Randall Feders</b> DATE <b>7/25/00</b>	EXT. NO. <b>6818</b>	1. If you have specified a brand name, would an equivalent brand or product also satisfy your need? <input type="checkbox"/> YES <input type="checkbox"/> NO	2. If you have suggested a supplier for the item or service, could other suppliers meet your requirements? <input type="checkbox"/> YES <input type="checkbox"/> NO	3. If this requisition is for a repair-is the repair on campus or off campus? <input type="checkbox"/> ON <input type="checkbox"/> OFF
	DEPARTMENTAL/DIVISIONAL APPROVAL <b>E. PERRY</b> DATE <b>7/25/00</b>				
	ADMIN. APPROVAL <b>Mesley C. Patrick</b> DATE <b>7/25/00</b>		If "NO", and total estimate exceeds \$3000.00, attach a memo of explanation.	If "NO", and total estimate exceeds \$3000.00, attach a memo of explanation.	If OFF CAMPUS indicate shipping ticket #

4. Government Project? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	b. If "NO", will it be attached to, built into, or used as an accessory to a piece of equipment either in existence or to be constructed? <b>N/A</b> <input type="checkbox"/> YES <input type="checkbox"/> NO	d. Is government furnished property being sent to vendor? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	f. QA Footnotes: <b>Q1</b>	5. Do you want receiving to open and inspect your shipment? <input type="checkbox"/> YES <input type="checkbox"/> NO
a. Will it be substantially consumed, destroyed, or exhausted during the performance of the project? <b>N/A</b> <input type="checkbox"/> YES <input type="checkbox"/> NO	c. If "NO", is the item uniquely required to instrument the project that is funding the purchase? <b>N/A</b> <input type="checkbox"/> YES <input type="checkbox"/> NO	e. QA Approval (if required) Date <b>Bruce Habito</b> <b>7/29/2000</b>	g. Inspection Criteria: <b>STATED ABOVE IN REQUIREMENTS.</b>	<b>SEE INSTRUCTIONS ON REVERSE SIDE</b>

CONTRACT ADMINISTRATOR	DATE	BUYER SIGNATURE	DATE	EXPEDITE DATE

Southwest Research Institute  
 6220 Culebra Road  
 San Antonio, TX 78238-5166

X70138N  
 Purchase Order: X70138N

Page: 1 of 3  
 Date Printed: 08/08/2000

Order To: APPLIED GEOGRAPHIC SCIENCE  
 2508 SOUTHLAND DRIVE  
 AUSTIN, TX 78704

506538

Ship To: Southwest Research Institute  
 6220 Culebra Road  
 San Antonio, TX 78238-5166

Contact: MITCHEL HELL Ph: 512-916-1361 Fax: 512-916-1362

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO	
08/07/00	Florence Cisneros	NET	SHIPPING POINT		FEDERAL EXPRESS	R.FEDERS/BUDG. 189	
LINE	ITEM/DESCRIPTION	REV	U/S	DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	***** CONFIRMATION DUPLICATE PO ***** This is a rated order certified for national defense use, and the contractor shall follow all requirements of the Defense Allocations System Regulation (15 CFR Part 700).						
1	SERVICES 01 SERVICE PURCHASE ORDER IMAGE (JANUARY 2001, APRIL 2001, AUGUST 2001) AREA = 40 KM <sup>2</sup> @ \$86/KM <sup>2</sup> LESS 10% DISCOUNT LONGITUDE: - 116.4786793 TO -116.4220834 LATITUDE: 36.81226998 TO 36.88464492; INCLUDES FEDERAL EXPRESS SHIPPING @ \$14			08/31/01 08/31/01	0.0000	0.0000	\$9,302.00
	Req: 532956  Prime Contract #: NRC0297009 Priority: N/A AOP: 705-000 1.20 01402.861						
2	SERVICES 01 SERVICE PURCHASE ORDER IMAGE (AUGUST 2000) AREA = 1,904 KM <sup>2</sup> @ \$86/KM <sup>2</sup> LESS 10% DISCOUNT LONGITUDE: -116.8089733 TO -116.2263613 LATITUDE: 36.62416973 TO 36.95781143; INCLUDES FEDERAL EXPRESS SHIPPING @14			08/31/01 08/31/01	0.0000	0.0000	\$147,383.60
	Req: 532956  Prime Contract #: NRC0297009 Priority: N/A AOP: 705-000 1.20 01402.471						
3	SERVICES 01			08/31/01 08/31/01	0.0000	0.0000	\$87,089.00

SENT BY: S. W. RESEARCH INST. : 8-8-00 : 8:51AM : PURCHASING DEPT. : 5129161362: # 2

Southwest Research Institute  
 6220 Culebra Road  
 San Antonio, TX 78238-5166

Purchase Order: X701388

Page: 2 of 3  
 Date Printed: 08/08/2000

Order to: APPLIED GEOGRAPHIC SCIENCE  
 2508 SOUTHLAND DRIVE  
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Contact: MITCHEL BELL Ph: 512-916-1361 Fax: 512-916-1362

ORDER DATE	BUYER	TERMS	FOB	SALES ORDER	SHIP VIA	DELIVER TO
08/07/00	Florence Cisneros	NET	SHIPPING POINT		FEDERAL EXPRESS	R. FRIDERS/BLDG. 189
LINE	ITEM/DESCRIPTION	REV	W/E DATE	QUANTITY	NET UNIT COST	EXTENDED COST
	SERVICE PURCHASE ORDER IMAGE (AUGUST 2000) AREA = 1,125 KM <sup>2</sup> @ \$86/KM <sup>2</sup> LESS 10% DISCOUNT LONGITUDE: -116.6345275 TO -116.2296800 LATITUDE: 36.34245066 TO 36.62983155; INCLUDES FEDERAL EXPRESS SHIPPING \$14 PAYMENT TERMS: SELLER SHALL BE REIMBURSED IN ACCORDANCE WITH THE FOLLOWING PAYMENT SCHEDULE: IMAGE (40KM <sup>2</sup> ) (LINE 1) AMOUNT \$9,302.00 DUE AUGUST 23, 2000 IMAGE (1904KM <sup>2</sup> ) (LINE 2) AMOUNT \$147,383.60 DUE AUGUST 23, 2000 IMAGE (1,125 KM <sup>2</sup> ) (LINE 3) \$87,089.00 SEPTEMBER 18, 2000 ATTACHMENT 2 - GENERAL PURCHASE ORDER TERMS AND CONDITIONS APPLY TO THIS ORDER. A/P: PRIOR APPROVAL OF INVOICE IS NOT REQUIRED. CONTACT FLO CISNEROS FOR CHECK PICKUP @ EXT 2262 Req: 532956 Prime Contract #: MRC0297009 AOP: 705-000 1.20 01402.941 THE GENERAL PURCHASE ORDER TERMS AND CONDITIONS ATTACHED ARE MADE A PART OF THIS ORDER. PLEASE SIGN AND RETURN A PHOTOCOPY ACKNOWLEDGING ORDER WITHIN 5 WORKING DAYS. *IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS.*					

SENT BY: S. W. RESEARCH INST. : 8-8-00 : 9:52AM : PURCHASING DEPT. + 5129161362: 3

PAGE 06  
 APPLIED GEO SCIENCE  
 5129161362  
 13:39 08/08/2000

Southwest Research Institute  
 6220 Culebra Road  
 San Antonio, TX 78238-5166

Purchase Order: X70138W

Page: 3 of 3  
 Date Printed: 08/08/2000

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 2508 SOUTHLAND DRIVE  
 AUSTIN, TX 78704

506538

Contact: MITCHEL BELL Ph: 512-916-1361 Fax: 512-916-1362

ORDER DATE	BUYER	TERMS	JOB	SALES GROUP	SHIP VIA	DELIVER TO			
08/07/00	Florence Cisneros	NET	SHIPPING POINT		FEDERAL EXPRESS	R. FEDERS/BLDG. 189			
LINE	ITEM/DESCRIPTION	QTY	U/M	DATE	DATE	QUANTITY	NET UNIT COST	EXTENDED COST	
	NOTE: attachment 1- Conditions, Quality and Technical Requirements apply to this order.								
	Bill To: Southwest Research Institute P.O. Drawer 28510 Attention: Accounts Payable San Antonio, TX 78228-0510  <i>Florence Cisneros</i> Authorized Signatures								
							PO Total Amt:	\$243,774.60	

SENT BY: S. W. RESEARCH INST. : 8- 8-00 : 9:53AM : PURCHASING DEPT. 4  
 5129161362: # 4

08/08/2000 13:39 5129161362 APPLIED GEO SCIENCE PAGE 07



### Conditions, Quality and Technical Requirements

#### Attachment 1

**Conditions:**

1. Invoice must be received by August 4, 2000
2. Permission to use both raw and processed data by SwRI/CNWRA and the U.S. Nuclear Regulatory Commission for NWRPA purposes must be provided.

**Quality and Technical Requirements:**

Carterra Precision, 1-m Pan- Sharpened; False Color (NIR,R,G), UTM Nad83 (m);  
Media: cdrom

Technical Specifications (per Space Imaging Catalog, Sept. 1999)

- (1) 1-m resolution
  - (2) Level of correction for terrain and collection geometry: orthorectified to 4-m horizontal accuracy (CE 90%) meeting the 1:4800 U.S. National Map Accuracy Standards with RMSE ≤ 1.9
3. 80% cloud free

A certification of conformance must be completed and sent with each delivered image.

--The raw and processed data provided by the Applied Geographic Science/Space Imaging to the CNWRA/SwRI will also be provided to the SwRI client, the U.S. Nuclear Regulatory Commission.

--Each data deliverable will be accompanied by a Supplier Certificate of Conformance identifying (i) the SwRI P.O. number; (ii) the specific procurement requirements; (iii) any procurement requirements that have not been met; and (iv) be signed by a person who is responsible for Applied Geographic Science/Space Imaging quality assurance functions.

--Space Imaging shall provide right-of-access to appropriate SwRI/CNWRA staff to obtain information and objective evidence sufficient to determine whether Space Imaging of Thornton, CO, has a quality system and can be added to the SwRI Approved Supplier List.

--Acceptance of service will be by technical verification of data produced.

Post-It* Fax Note	7871	Date	1/23/01	# of pages	1
To	<i>Ruech And</i>	From			
Co./Dept.		Co.	<i>Subcontracts</i>		
Phone #		Phone #			
Fax #	<i>5155</i>	Fax #	<i>710138N</i>		

JAN 23 2001