This path is for users who have never used any type of moderate-resolution imagery. Questions about current or past use of moderate-resolution imagery are not included for this reason so the path is much shorter than both Paths 1 and 2 and about the same length as Path 3. The focus of this path is determining why users have not used moderate-resolution imagery and their plans to use it in the future.

Introduction

Thank you for participating in this study of moderate-resolution satellite imagery. Your input will help the USGS understand how moderate-resolution imagery is being used. Your responses will also clarify current and potential applications of this imagery.

This survey will take approximately 15 to 35 minutes to complete, depending upon the type of moderate-resolution imagery you use. You can pause at any time; simply close the window and your answers will be saved. To resume and complete the survey, you will need to click on the link to the survey in the email you received. At that point, you can answer any remaining questions and/or edit any of your previous responses. At the end of the survey, click on the "Submit" button to finish the survey. All responses will be kept confidential and will not be linked to your email address.

PAPERWORK REDUCTION ACT STATEMENT: A Federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Public burden for the collection of this information is estimated to average 15 to 35 minutes per response, including the time for reviewing instructions and completing the form. Comments regarding this collection of information should be directed to the USGS information Collection Officer, Phadrea Ponds, U.S. Geological Survey, 2150-C, Center Avenue Fort Collins, CO 80525...Control Number: XXXX, expires XX/XX/XXXX.

Section I

The primary purpose of this section is to find out the types of satellite imagery the respondents are currently using and how they are using the images they are acquiring. The responses to Questions 1 and 2 will be used to determine the subsequent survey path each respondent will follow.

Please tell us about the type of satellite imagery you use, and how and why you use it.

Questions 1-3 will help the USGS to characterize the community of moderate-resolution imagery users by ascertaining if respondents are currently using moderate-resolution imagery and, if they are not currently using moderate-resolution imagery, what type of imagery they are using. This information is necessary to determine subsequent questions each respondent will be asked.

Q1

For the purposes of this study, moderate-resolution imagery is that which:

- covers relatively large geographic areas (>60 km²),
- has a spatial resolution between 5 and 120 m,
- is characterized by repetitive coverage, and
- includes measurements from several portions of the electromagnetic spectrum.

Examples of products based on moderate-resolution-imagery include:

Moderate-resolution imagery is collected by Landsat, SPOT, ASTER, Resourcesat, CBERS, and other missions. To see examples of products based on moderate-resolution imagery, <u>click here</u>.

 National Land Cover Database LandFire and Gap Analysis Project vegetation maps Wildfire burn severity maps produced by the USGS Coastal Zone Analysis Program land cover change products USDA National Agricultural Statistical Service crop type maps FireLine from Insurance Services Office (ISO) Google Earth (moderate-resolution mixed with higher resolution imagery) 	
Based on the definition below, have you ever used, processed, or supplied moderate-resolution imagery in you work? <i>Please check only one.</i> ☐ Yes → Respondent will be automatically directed to survey paths 1,2, or 3 for users of moderate-resolution imagery ☐ No	our
□ Don't know \rightarrow <i>END of survey</i>	
Q2 Have you ever used satellite imagery of any kind in your work? <i>Please check only one</i> . ☐ Yes ☐ No → END of survey ☐ Don't know → END of survey	
Q3 What type of imagery have you used? <i>Please check all that apply</i> . ☐ High-resolution (Less than 5 meters, for example, IKONOS, QuickBird, WorldView) ☐ Low-resolution (Greater than 120 meters, for example, MODIS, AVHRR, MERIS, SPOT VEGETATION)	
Question 4 explores why users of high- and low-resolution imagery are not using moderate-resolution imager. This is critical information for the USGS for the future development of satellites and current and future provision of satellite imagery.	ry.
Why have you not used moderate-resolution imagery in your work? <i>Please check all that apply</i> . My work has not required moderate-resolution imagery. Moderate-resolution imagery has not been easily accessible. Moderate-resolution imagery has not been readily available. The cost of moderate-resolution imagery has been too high. Data quality has been insufficient for my needs. Licensing or distribution restrictions have been problematic.	

☐ The spatial resolution has not met my needs.	
☐ The available spectral bands have not met my needs.	
☐ The temporal resolution/frequency of coverage has not met my needs.	
☐ Other (please specify)	
= outer (preuse speeing)	
Questions 5-8 explore the possibility of high- and low-resolution users using moderate-resolution image future. Finding out how the data will be used in the future is important to the USGS for future satellite planning.	_
Q5 Do you foresee using moderate-resolution imagery in the future? <i>Please check only one</i> .	
\Box Yes $\rightarrow Q7$	
□ No	
□ Don't know \rightarrow END of the survey	
Bon t know 7 Ends of the survey	
Q6	
If the barriers you noted above were gone, then would you use moderate-resolution imagery in the future	2 ?
Please check only one.	
☐ Yes → END	
□ No → END	
□ Don't know \rightarrow END	
\mathbf{Q} 7	
Why will you begin using moderate-resolution imagery in the future? <i>Please check all that apply.</i>	
\square My work will require moderate-resolution imagery.	
☐ Moderate-resolution imagery will be more easily accessible.	
\square Moderate-resolution imagery will be more readily available.	
\square The cost of moderate-resolution imagery will decrease.	
\square Data quality will be sufficient for my needs.	
\square Licensing or distribution restrictions will not be problematic.	
\Box The spatial resolution will meet my needs.	
\square The available spectral bands will meet my needs.	
\square The temporal resolution/frequency of coverage will meet my needs.	
☐ Other (please specify)	
00	
Q8 For which applications do you foresee using moderate-resolution imagery? <i>Please check all that apply</i> .	
☐ Agricultural forecasting	
☐ Agricultural management/production/conservation	
☐ Biodiversity conservation	
☐ Climate science/change	
☐ Coastal science/monitoring/management	

Ecological/ecosystem monitoring
Fish and wildlife science/management
Fire science/management
Forest science/management
Geology/glaciology
Land use/land cover change
Oil and gas/mineral exploration/extraction
Range/grassland science/management
Recreation management
Water resources (for example, watershed management, water rights, hydrology)
Rural planning and development (for example, zoning, economic development, land use)
Urban planning and development (for example, zoning, economic development, land use)
Urbanization (for example, growth, sprawl)
Engineering/construction/surveying
Assessments and taxation
Real estate/property management
Software development
Telecommunications
Transportation
Utilities
Anthropology/archaeology/cultural resource management
Education: K-12
Education: university/college
Technical training (for example, workshops, short courses)
Emergency/disaster management
Hazard insurance (for example, crop, flood, fire)
Humanitarian aid
Public health
Defense/national security
Environmental regulation
Law enforcement
Other area (please specify)

Questions 9-12 will help the USGS to ascertain the potential benefits of moderate-resolution imagery to society. These questions are open-ended to elicit the greatest variety of responses. Understanding the qualitative benefits of Landsat imagery will provide insight into its overall benefits. The USGS and other decision makers are interested in knowing about the current uses of Landsat and how the imagery is being incorporated in decision making and policy changes. USGS program officers need a comprehensive explanation of the societal benefits of satellite imagery, beyond the measurable and quantifiable economic benefits. We have chosen the following questions to target that goal. Responses from these questions will be analyzed and categorized in terms of content themes. In order to encourage brief responses and to minimize burden, the respondents will

have a	limited	amount	of s	pace to	o answer	these c	luestions.
11a / C a	minim	amount	010	pace c	o and we	tirese e	acoutons.

Q9

Please give a brief description, including objectives, of **ONE** of your future projects that will use moderate-resolution imagery within one of the applications you selected above. (*Open-ended - limit 1500 characters*)

Q10

How do you think the results from this project might be used in decision-making? (*Open-ended - limit 1500 characters*)

Q11

How do you think the general public might benefit from this project? (Open-ended - limit 1500 characters)

Q12

What do you think the environmental benefits might be from this project? (*Open-ended - limit 1500 characters*)

Question 13 allows the respondents to describe the uniqueness of moderate-resolution imagery as compared to other imagery and the niche that this imagery fills.

Q13

Why will the use of moderate-resolution imagery, as opposed to other types of imagery, be important in this project? (*Open-ended - limit 1500 characters*)

Demographics

Questions 14-23 are demographics questions. We need this information to provide a detailed picture of the moderate-resolution imagery user community, as well as satellite imagery users who are not currently part of the community. Additionally, in the case that another survey is conducted on this topic in the next few years, this information will be necessary to determine how the user community has changed. We would like establish a set of baseline data that can be used to characterize any changes in the user demographics.

Please tell us a little bit about yourself. Your answers to these questions will help further characterize users of moderate-resolution imagery. Answers are IN NO WAY linked to any individual taking this survey.

Q14

In wha	t sector do you work? Please check all that apply.
	Academic institution (for example, university, college)
	Federal government
	State government
	Local government (for example, county, municipal)
	Private business
	Non-profit organization
	Tribe or nation
	Other (please specify)

Q15 Are yo	ou? Male Female												
Q16 In wha	ıt year we	ere you b	orn?										
_	ons 17 an like to kr		_				_						akers
□ □ Q18	ethnicity of Hispanio Not Hispanio Choose the Choose th	c or Lation panic or the racial on Indian contracts.	no Latino category or Alas Americ	y or cate ka Nativ an	egories v ve	vith whic	, and the second		ely ident	tify your	self. <i>Pl</i>	ease che	ck all
that ar	on 19 pro e more ty sion) that	pically u	sed). C	ontinuo	us data i	s necessa			•			_	ories
Q19	s your hi						ircle on	ly one nu	ımber.				
7	8	9	10	11	12	13	14	15	16	17	18	19	20+
(jr. h	igh or mi	ddle)	(hiş	gh schoo	ol)	(college or technical school) (graduate or profession school)			onal				
trainec	ons 20 and and and invo	olved in t	the user	commu	nity. Ag	gain, the	user con	nmunity	may be	changing	g to incl	ude peop	ole

Q20

changes are occurring.

What type(s) of education or training (for example, university degrees, technical certificates) have you receive	₽d
related to remote sensing or GIS? (Open-ended - limit 500 characters)	

_		
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4 21	
	ich of the following remote sensing/GIS-related organizations do you belong? Please check all that
apply.	
	I am not a member of any remote sensing/GIS-related organizations.
	American Association for Geodetic Surveying
	American Congress of Surveying and Mapping (ACSM)
	American Society of Photogrammetry and Remote Sensing (ASPRS)
	Association of American Geographers (AAG)
	Cartography and Geographic Information Society (CAGIS)
	Consortium for International Earth Science Information Network (CIESIN)
	Geographic and Land Information Society (GLIS)
	National Society of Professional Surveyors (NSPS)
	National States Geographic Information Council (NSGIC)
	University Consortium for Geographic Information Science (UCGIS)
	Urban and Regional Information System Agencies (URISA)
	Urban and Regional Information System Agencies (URISA) Other (please specify)
	Other (please specify)
Questi	Other (please specify)on 22 is included to determine more about the user community. As was mentioned above, changes in the
Questicuser co	Other (please specify) on 22 is included to determine more about the user community. As was mentioned above, changes in the ommunity are likely to occur in the future and these changes will be reflected in demographic statistics
Questicuser co	Other (please specify)on 22 is included to determine more about the user community. As was mentioned above, changes in the
Questicuser co	Other (please specify) on 22 is included to determine more about the user community. As was mentioned above, changes in the ommunity are likely to occur in the future and these changes will be reflected in demographic statistics
Questicuser cosuch as	Other (please specify) on 22 is included to determine more about the user community. As was mentioned above, changes in the ommunity are likely to occur in the future and these changes will be reflected in demographic statistics
Questicuser cosuch as	Other (please specify) on 22 is included to determine more about the user community. As was mentioned above, changes in the ommunity are likely to occur in the future and these changes will be reflected in demographic statistics income.
Questicuser cosuch as	Other (please specify) on 22 is included to determine more about the user community. As was mentioned above, changes in the ommunity are likely to occur in the future and these changes will be reflected in demographic statistics income. was your approximate household income from all sources (before taxes) last year? <i>Please check only one</i> .
Questicuser cosuch as	Other (please specify) on 22 is included to determine more about the user community. As was mentioned above, changes in the ommunity are likely to occur in the future and these changes will be reflected in demographic statistics income. was your approximate household income from all sources (before taxes) last year? <i>Please check only one</i> . Less than \$10,000
Questicuser cosuch as	Other (please specify)
Questicuser cosuch as	Other (please specify)
Questicuser cosuch as	Other (please specify) on 22 is included to determine more about the user community. As was mentioned above, changes in the ommunity are likely to occur in the future and these changes will be reflected in demographic statistics income. was your approximate household income from all sources (before taxes) last year? <i>Please check only one</i> . Less than \$10,000 \$10,000-\$14,999 \$15,000-\$24,999 \$25,000-\$34,999
Questicuser cosuch as	Other (please specify) on 22 is included to determine more about the user community. As was mentioned above, changes in the ommunity are likely to occur in the future and these changes will be reflected in demographic statistics income. was your approximate household income from all sources (before taxes) last year? <i>Please check only one</i> . Less than \$10,000 \$10,000-\$14,999 \$15,000-\$24,999 \$25,000-\$34,999 \$35,000-\$49,999
Questicuser cosuch as	Other (please specify)
Questicuser cosuch as	Other (please specify)

Question 23 is included to separate U.S.-based users from internationally-based users. While the opinions of international users are also important to the USGS, the current effort is focused on U.S.-based users because information about U.S. users is more relevant for the purposes of this information collection than information about users outside the borders of the U.S.

Q23

Are you, personally, based in or outside the United States? *Please check only one.*

Survey pain 4: Osers of high- and low-resolution imagery
□ I am located in the United States.□ I am located outside of the United States.
Question 24 allows respondents to express any additional thoughts or concerns about the issues raised in the survey. The responses will be analyzed to determine any unforeseen issues or problems with moderate-

Q24

Thank you for completing the survey. If you have any additional thoughts or concerns about the issues raised in the survey, please enter your remarks in the space below. (*Open-ended - limit 1500 characters*)