Survey Path 4: Users of High- and Low-Resolution Imagery

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.

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.

This survey was approved by the Office of Management and Budget (1028-XXXX).

Section 1: Your Use of Moderate Resolution Imagery_

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.

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>.

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

- National Land Cover Database
- LandFire and Gap Analysis Project vegetation maps
- Wildfire burn severity maps produced by the USGS

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•	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)
	Google Earth (moderate-resolution mixed with higher resolution imagery)
	on the definition below, have you ever used, processed, or supplied moderate-resolution imagery in your <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
	Don't know → END of survey
Q2	
-	you ever used satellite imagery of any kind in your work? Please check only one.
	□ Yes
	\square No \rightarrow END of survey
	\square Don't know \rightarrow END of survey
Q3	
-	type of imagery have you used? Please check all that apply.
	High-resolution (Less than 5 meters, for example, IKONOS, QuickBird, WorldView)
	Low-resolution (Greater than 120 meters, for example, MODIS, AVHRR, MERIS, SPOT
	VEGETATION)
Questi	on 4 explores why users of high- and low-resolution imagery are not using moderate-resolution imagery.
	critical information for the USGS for the future development of satellites and current and future
provisi	ion of satellite imagery.
Q4	
-	are the reasons you have not used moderate-resolution imagery in your work? Please check all that
apply.	
	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)

Questions 5 and 6 explore the possibility of high- and low-resolution users using moderate-resolution imagery in the future. Finding out what attributes of the imagery could be improved is important to the USGS for future satellite mission planning.

Q5	
In the	future, what type(s) of moderate-resolution imagery do you foresee using? Please check only one.
	None
	Landsat imagery only
	Landsat and other moderate-resolution imagery (for example, SPOT, CBERS, Resourcesat)
	Other moderate-resolution imagery only (for example, SPOT, CBERS, Resourcesat)
Q6	
	of the following would make you more likely to use moderate-resolution imagery in the future? <i>Please</i>
check	all that apply.
	Changes in my work or projects.
	Improvements in the accessibility of moderate-resolution imagery.
	Improvements in the availability of moderate-resolution imagery.
	Decreases in the cost of moderate-resolution imagery.
	Reduction in licensing or distribution restrictions.
	Launch of new satellite(s) with improved spatial resolution.
	Launch of new satellite(s) with improved spectral bands.
	Launch of new satellite(s) with improved temporal resolution.
	Other (please specify)

Section 2: A Little Bit About Yourself

Questions 7-16 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.

Q7				
In what 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)
Q 8	
Qo Are yoι	1?
-	Male
	Female
Q 9	
-	year were you born?
Ouestie	ons 10 and 11 will provide information on underrepresented users of satellite imagery. Decision makers
	ike to know the extent to which use has expanded to traditionally underrepresented groups.
O10	
Q10 What et	thnicity do you consider yourself? Please check only one.
	Hispanic or Latino
	Not Hispanic or Latino
011	
Q11 From w	what racial origin(s) do you consider yourself? Please check all that apply.
	American Indian or Alaska Native
	White
	Black or African American
	Asian
	Native Hawaiian or Other Pacific Islander
Q12	
_	your highest level of formal schooling? <i>Please check only one</i> .
	Junior high or middle school
	Some high school
	High school diploma or GED
	Some college
	Associates degree
	Bachelors degree
	Some graduate school
	Masters degree
	Doctorate degree

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Questions 13 and 14 will allow the USGS to determine the extent to which respondents are professionally trained and involved in the user community. Again, the user community may be changing to include people

who have different professional backgrounds and baseline data needs to be established to determine if such changes are occurring.

Q13

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

Q	1	4

Question 15 is included to separate U.Sbased users from internationally-based users. While the opinions of international users are also important to the USGS, the current effort is focused on U.Sbased 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. Q15 Are you, personally, based in or outside the United States? <i>Please check only one</i> . □ I am located in the United States. □ I am located outside of the United States. Question 16 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-	Q14 To which 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) □ Other (please specify)
Are you, personally, based in or outside the United States? <i>Please check only one</i> .	international users are also important to the USGS, the current effort is focused on U.Sbased users because information about U.S. users is more relevant for the purposes of this information collection than information
survey. The responses will be analyzed to determine any unforeseen issues or problems with moderate-	Q15 Are you, personally, based in or outside the United States? <i>Please check only one</i> . □ I am located in the United States.
resolution imagery that the USGS may choose to address.	

Q16

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)