Survey Path 2: Present Users of Other Moderate-Resolution Imagery

This path is for users who have not used Landsat imagery in the past year, but have used other types of moderate-resolution imagery in the past year. This path is very similar to Path 1- most of the questions are the same, with changes in wording to reflect the differences in types of imagery. However, it is significantly shorter than Path 1 (for Landsat users) because the USGS does not require information about costs/revenues of other types of moderate-resolution imagery and those questions have been excluded.

Thank you for participating in this study on the societal benefits 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.

Depending upon the type of moderate-resolution imagery you use, completing this survey will take approximately 15 to 35 minutes. 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, 2 and 4 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 and 2 will help the USGS to characterize the community of moderate-resolution imagery users by ascertaining if respondents are currently using moderate-resolution imagery. 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 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 combined with higher-resolution imagery)
Based on the definition below, have you ever used, processed, or supplied moderate-resolution imagery in your work? <i>Please check only one</i> . ☐ Yes ☐ No → Respondent will be automatically directed to survey path 4 for users of high- and low-resolution imagery ☐ Don't know → END of survey Q2 Have you used moderate-resolution imagery in the past year? <i>Please check only one</i> . ☐ Yes ☐ No → Respondent will be automatically directed to survey path 3 for past users of
moderate-resolution imagery
Question 3 will allow the USGS to better understand the spectrum of uses of moderate-resolution imagery in the user community. This information will be used to examine differences in how these groups specifically use the imagery, as well as their requirements for the imagery to be useful. The USGS will be better able to provide imagery which suits the needs of various groups with this information.
Q3 Which of the following describe(s) your work with moderate-resolution imagery? <i>Please check all that apply</i> . □ I process imagery (e.g., developing algorithms). □ I apply imagery to answer questions or solve problems (e.g., conducting research or

Questions 4 and 5 are necessary to distinguish Landsat users from users of other moderate-resolution imagery. Question 4 determines the survey path respondents will take. Question 5 will help the USGS determine how dependent on Landsat imagery the users in the community are, which is a measure of the value of the imagery. It also provides information on what other imagery is fulfilling users' needs that Landsat may not be.

☐ I provide or sell imagery (e.g., basic imagery, post-processed imagery, or value-added

☐ I develop software for processing or manipulating imagery (e.g., ERDAS or ENVI).

☐ I make decisions based on imagery or products derived from imagery.

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services or products).

Q4 What type(s) of moderate-resolution imagery have you used in the past year? <i>Please check only</i>
one.
☐ Landsat only → Respondent will be automatically directed to survey path 1 for present users of Landsat imagery
□ Landsat and other imagery (e.g., SPOT, CBERS, Resourcesat) \rightarrow Respondent will be
automatically directed to survey path 1 for present users of Landsat imagery
□ Other imagery only (e.g., SPOT, CBERS, Resourcesat)
Q5
What is the amount of moderate-resolution imagery, expressed as a percent of total imagery, that you have used in the past year from the following satellites?
Enter a number from 0 to 100 on each line. The total must equal 100.
Terra (ASTER)
CBERS (CCD) Resourcesat (IRS, LISS, AWiFS)
SPOT (HRVIR, HRG, HRS)
ALOS (AVNIR-2)
Other (please specify)
Total
Questions 6-9 explore why past users of Landsat imagery are no longer using it. This is critical information for the USGS for the future development of satellites and current and future provision of satellite imagery.
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\Box The temporal resolution/frequency of coverage has not met my needs. \Rightarrow Q10
□ New or existing sources of other imagery became more attractive. \rightarrow <i>Q10</i>
\Box Other (please specify) \rightarrow Q10
Q8 What are the reason(s) you have never used Landsat imagery in your work? <i>Please check all</i>
that apply.
☐ The scan line corrector anomaly (SLC-off) on Landsat 7 impacted data usability.
☐ My work has not required Landsat imagery. \rightarrow <i>Q10</i>
☐ The data have not been easily accessible. \rightarrow <i>Q10</i>
□ The data have not been readily available. \rightarrow <i>Q10</i>
□ The cost of imagery has been too high. \rightarrow <i>Q10</i>
□ Data quality has been insufficient. \rightarrow Q10
□ Licensing or distribution restrictions have been problematic. \rightarrow <i>Q10</i>
☐ The spatial resolution has not met my needs. \rightarrow <i>Q10</i> ☐ The available spectral bands have not met my needs. \rightarrow <i>Q10</i>
☐ The temporal resolution/frequency of coverage has not met my needs. $\rightarrow Q10$
☐ Other imagery has been more attractive. $\rightarrow Q10$
\Box Other (please specify) \rightarrow Q10
Q9 You indicated that the scan line corrector anomaly (SLC-off) on Landsat 7 impacted data usability. How have you dealt with this problem? <i>Please check all that apply</i> . □ I have replaced Landsat 7 imagery with moderate-resolution imagery from other satellite
sensors.
 I have replaced Landsat 7 imagery with other kinds of data, such as data from fieldwork or other data sets.
☐ I have not replaced Landsat 7 imagery with other imagery or information.
Questions 10 and 11 explore the possibility of past Landsat users using Landsat again in the future. Finding out how the data will be used in the future is important for future satellite mission planning.
Q10 Do you foresee using Landset imagery in the future? Plages shade only one
Do you foresee using Landsat imagery in the future? <i>Please check only one</i> . ☐ Yes
$\square \text{No} \rightarrow Q12$
\square Don't know $\rightarrow Q12$
Q11
For what applications do you foresee using Landsat imagery? <i>Please check all that apply.</i>

Agricultural management/production/conservation
Biodiversity conservation
Climate science/change
Coastal science/monitoring/management
Ecological/ecosystem science/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 (e.g., watershed management, water rights, hydrology)
Rural planning and development (e.g., zoning, economic development, land use)
Urban planning and development (e.g., zoning, economic development, land use)
Urbanization (e.g., 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 (e.g., workshops, short courses)
Emergency/disaster management
Hazard insurance (e.g., crop, flood, fire)
Humanitarian aid
Public health
Defense/national security
Environmental regulation
Law enforcement
Other (please specify)

Questions 12-17 are designed to understand past and future trends in the use of moderateresolution imagery. Understanding the likelihood of increased or decreased use is critical to the USGS for planning future satellite missions and providing relevant current imagery.

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The next few questions pertain to your use of moderate-resolution imagery within the past ${\bf 10}$

Q16
What are the reason(s) your use of moderate-resolution imagery will likely decrease or cease in
the next 5 years? Please check all that apply.
□ My work will not require as much moderate-resolution imagery. \rightarrow Q19 (all answers)
\square The data will not be easily accessible.
\square The data will not be readily available.
\square Licensing or distribution restrictions will continue to be a problem.
\square Data quality will not be sufficient.
\square The temporal resolution/frequency of coverage will not meet my needs.
\square The available spectral bands will not meet my needs.
\square The spatial resolution will not meet my needs.
☐ Other (please specify)
0.15
Q17 What are the reason(s) your use of moderate-resolution imagery will likely increase in the next 5
years? Please check all that apply.
☐ The imagery will be more affordable.
☐ My work will require more imagery.
☐ Other (please specify)
_ outer (preuse speedly)
Section 2: How You Use Moderate-Resolution Imagery
This section explores more specifically the ways in which respondents are using moderate-
resolution imagery, as well as the benefits which may accrue from projects using the imagery.
The USGS will be able to determine some of the qualitative benefits of moderate-resolution
imagery from the latter questions.
In this next section we would like to ask you a few questions about your use of moderate-
resolution imagery in your work. Please answer the following questions in terms of your own
projects in the past year , rather than those of your entire organization, unless otherwise
requested.
Questions 18-22 further characterize the ways in which moderate-resolution imagery is being
used. This information will be used by the USGS to understand the scope of the use of moderate-resolution imagery and thus the value of the imagery.
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Q18
At what scales have your projects that have used moderate-resolution imagery occurred? <i>Please</i>
check all that apply.
☐ Local (e.g., county, municipal)
□ State/Province
☐ Regional (e.g., multi-state, multi-province)
□ National

□ Continental□ Global
Q19 In what regions were these projects focused? Please check all that apply. □ United States □ Canada □ Mexico □ Antarctic □ Africa □ Asia □ Australia □ Europe □ Middle East □ South or Central America
Question 20 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.
Q20 Regardless of where your projects are located, are you located in the United States? <i>Please check only one</i> . ☐ Yes ☐ No
Questions 21 and 22 will help the USGS determine the breadth of applications of moderate-resolution imagery, thus helping to ascertain the value of the imagery and to demonstrate the potential of the imagery in various fields.
Q21 What is the primary application for which you have used moderate-resolution imagery? Please check only one. □ Agricultural forecasting □ Agricultural management/production/conservation □ Biodiversity conservation □ Climate science/change □ Coastal science/monitoring/management □ Ecological/ecosystem science/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 (e.g., watershed management, water rights, hydrology)
	Rural planning and development (e.g., zoning, economic development, land use)
	Urban planning and development (e.g., zoning, economic development, land use)
	Urbanization (e.g., 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 (e.g., workshops, short courses)
	Emergency/disaster management
	Hazard insurance (e.g., crop, flood, fire)
	Humanitarian aid
	Public health
	Defense/national security
	Environmental regulation
	Law enforcement
	Other (please specify)
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Q22	ition to the primary application, in what other areas have you used moderate resolution
	ition to the primary application, in what other areas have you used moderate-resolution ry? <i>Please check all that apply</i> .
_	I do not use it in other areas.
	Agricultural forecasting
	Agricultural management/production/conservation
	Biodiversity conservation
	Climate science/change
	Coastal science/monitoring/management

Ecological/ecosystem science/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 (e.g., watershed management, water rights, hydrology)
Rural planning and development (e.g., zoning, economic development, land use)
Urban planning and development (e.g., zoning, economic development, land use)
Urbanization (e.g., 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 (e.g., workshops, short courses)
Emergency/disaster management
Hazard insurance (e.g., crop, flood, fire)
Humanitarian aid
Public health
Defense/national security
Environmental regulation
Law enforcement
Other (please specify)

Questions 23-25 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 space to answer these questions.

Q23

Considering your *primary* application area, please give us a brief description, including objectives, of **ONE** of your current projects that uses moderate-resolution imagery. (*Open-ended - limit 1500 characters*)

Q24

How have results from this project been used in decision-making? (*Open-ended - limit 1500 characters*)

Question 25 will help the USGS ascertain the benefits of moderate-resolution imagery that are or have been provided by the projects conducted by the professional user community to the environment and/or society. The question asks specifically about the known benefits from their project and does not ask respondents to speculate on the potential benefits. The USGS needs information on the current benefits of satellite imagery in order to be able to increase those benefits, as directed by policy. Restricting the question by asking only about environmental benefits eliminates the possibility for respondents working in societal-focused application areas (i.e., urban planning, disaster response, humanitarian aid, national security) to relate the benefits to people from their projects.

Initially, for the PECORA survey review, this question was a fixed-response question. Feedback from the reviewers indicated that the fixed response format would not allow full exploration of the range of benefits of respondents' work that uses moderate-resolution imagery. Reviewers felt it was not possible to develop a comprehensive list of benefits for a fixed-response question because of the diversity of work being undertaken with moderate-resolution imagery. An openended question will allow full exploration of the benefits of such work. Ultimately, only summaries of themes and categories of comments will be reported.

Q25

Please describe any benefits to the environment and/or society that you have observed from this project. (*Open-ended - limit 1500 characters*)

Question 26 will allow the USGS to know more about future uses of moderate-resolution imagery. This information is important to decision makers as they consider future satellite missions. For effective configuration and specifications of future missions, it is important to understand the potential new uses of the imagery. This question is open-ended because the new and unique uses of the imagery are unknown and cannot be listed in a multiple choice format.

Q26

New and unique uses for moderate-resolution imagery continue to emerge as more people have access to the data and the means to manipulate it. What new or unique uses do you envision for moderate-resolution imagery in the next five years? (*Open-ended - limit 1500 characters*)

Section 3: Importance of Moderate-Resolution Imagery in Your Work

This section explores the importance of various attributes of imagery and types of imagery products. This information will help the USGS make decisions about future satellite missions as well as current provision of data.

We would like to know about the importance of moderate-resolution imagery in your work. Please answer the following questions in terms of your own projects, rather than those of your entire organization, unless otherwise requested.

Question 27 explores the importance of various attributes of moderate-resolution imagery. The attributes are a mix of those that can be changed with relative ease (i.e., accessibility, cost) and those which cannot be changed easily (i.e., spatial, spectral, or temporal resolution). By determining the importance of these attributes, the USGS can evaluate the need to make changes to current and future satellite missions in order to better serve the user community.

Q27 When deciding which moderate-resolution imagery (e.g., Landsat TM, ASTER, AWiFs) to use for a project, how important are the following attributes? *Please select only one answer for each attribute.*

	Very <u>Unimportant</u>	Somewhat <u>Unimportant</u>	Neither Important nor Unimportant	Somewhat <u>Important</u>	Very <u>Important</u>
Accessibility	-2	-1	0	1	2
Archive/continuity	-2	-1	0	1	2
Area/footprint of an individual scene	-2	-1	0	1	2
Availability	-2	-1	0	1	2
Cost	-2	-1	0	1	2
Data quality assessments	-2	-1	0	1	2
Delivery time	-2	-1	0	1	2
Ease of use	-2	-1	0	1	2
Global coverage	-2	-1	0	1	2
Licensing/distribution restrictions	-2	-1	0	1	2
Spatial resolution	-2	-1	0	1	2
Spectral resolution	-2	-1	0	1	2
Temporal resolution/ frequency of coverage	-2	-1	0	1	2

Question 28 determines the types of processing are most important to users of moderate-resolution imagery. Understanding of these preferences will aid in the creation of more useful products for the user community.

Q28How important are the following types of moderate-resolution imagery to your work? *Please select only one answer for each type of imagery.*

	Very <u>Unimportant</u>	Somewhat <u>Unimportant</u>	Neither Important nor <u>Unimportant</u>	Somewhat <u>Important</u>	Very <u>Important</u>
Raw, unprocessed imagery	-2	-1	0	1	2
A basic, processed product that is calibrated, geo- referenced and orthorectified	-2	-1	0	1	2
A processed product that is calibrated, geo-referenced, orthorectified, and adjusted for surface reflectance	-2	-1	0	1	2
A derived product such as vegetation condition, change area, or land cover map	-2	-1	0	1	2

Section 4: A Little Bit About Yourself

Questions 29-37 are demographics questions. We need this information to provide a detailed picture of the moderate-resolution imagery user 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.

Q29

ı wh	at sector do you work? Please check all that apply.
	Academic institution (e.g., university, college, technical/vocational)
	Federal government
	State government
	Local government (e.g., county, municipal)
	Private business
	Non-profit organization
	Tribe or nation

☐ Other (please specify)
Q30 Are you? Male Female Q31 In what year were you born?
Questions 32 and 33 will provide information on underrepresented users of moderate-resolution imagery. Decision makers would like to know the extent to which use has expanded to traditionally underrepresented groups.
Q32 What ethnicity do you consider yourself? <i>Please check only one</i> . ☐ Hispanic or Latino ☐ Not Hispanic or Latino
Q33 From 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
What is your highest level of formal schooling? Please check only one. 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

Questions 35 and 36 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

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Q35

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

Q36

To which of the following remote sensing/GIS-related organizations do you belong? *Please check all that apply.*

11 0
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)

Question 37 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-resolution imagery that the USGS may choose to address.

Q37

Thank you for completing this 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)