

## NOAA Education Multimedia/Distance Learning Needs Assessment 2.0

NOAA recognizes that today educators and students are using live and on demand multimedia content to learn about ocean, atmospheric, climate, and related STEM topics, as well as access education and pedagogic resources and training. In developing multimedia and distance learning materials that convey NOAA's science, service and stewardship, NOAA must ensure that these resources meet the needs of educators and students across the United States.

To achieve this goal, we need your help.

This short ( $\leq 5$  min.) survey will help NOAA identify the types of multimedia content that interests you for use with your students/audiences as well as your own professional development. Your participation is voluntary and your answers completely anonymous.

While answering the following questions, please think about your teaching activities right now rather than prior to or during the height of the pandemic.

Thank you for your time.

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This first set of questions will ask you about your current state of teaching, and the types and use of multimedia resources you would like NOAA to create more of for students/audiences in your classroom/learning space

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1. What type of teaching is your primary focus?
  - a. Formal (Classroom-based)
  - b. Informal (Outside of a classroom, e.g. Museum, Aquarium, Nature Center, Afterschool Program)
2. What educational level do you primarily teach that incorporates multimedia/distance learning resources? Choose the single best answer.
  - a. Elementary (K-2)
  - b. Elementary (3-5)
  - c. Middle (6-8)
  - d. High School (9-12)
  - e. College/University
  - f. Members of the public/All ages
3. What state do you primarily teach in? (*drop down*)
4. In what format are you currently teaching? Choose the single best answer.
  - a. In-person
  - b. Virtually
  - c. Hybrid
5. What type of device do your students or audiences primarily use to view multimedia content in your classroom/teaching space? Choose the single best answer.
  - a. Smartphone
  - b. Tablet
  - c. Laptop
  - d. Computer monitor/Desktop
  - e. Television
  - f. Smartboard

6. Think about multimedia resources you've recently used in your classroom/group teaching setting. What places do you look to find reliable multimedia resources? Select your first and second most used option.
  - a. Search engine i.e. Google search
  - b. School and/or district science supervisor/lead, school/district professional development days
  - c. Recommendations from colleagues
  - d. Professional organizations i.e. National Science Teaching Association
  - e. Federal Agencies i.e. NOAA, NASA, EPA, Smithsonian, etc.
  - f. Resources from conference attendance
7. Are there other places you look to find multimedia resources not listed in question 6 above?
8. When using multimedia resources with your students or audiences, do you prefer to stream from the Internet or to download for viewing at a later time? Choose the single best answer.
  - a. Stream from the Internet.
  - b. Download for later use.
9. What type of multimedia resource do you want NOAA to produce more of for your classroom or audience use? Select your first and second choice.
  - a. Images
  - b. Animations
  - c. Data visualizations
  - d. Pre-recorded videos
  - e. Live webinars/Zoom i.e. a scientist interacting with a classroom
  - f. Virtual reality
10. Are there other types of multimedia resources not listed in question 9 you would like NOAA to produce for your classroom or audience use?
11. What is the ideal length of pre-recorded video content for use with your students/audiences? Select your first and second choice.
  - a. One minute or less
  - b. One to three minutes
  - c. Three to five minutes
  - d. Five to ten minutes
  - e. Ten to 15 minutes
  - f. 15 to 30 minutes
  - g. 30-45 minutes
12. What is the ideal length of live, interactive video content for use with your students/audiences? (i.e. Webinar, Zoom). Select your single best answer.
  - a. Ten to 15 minutes
  - b. 15 to 30 minutes
  - c. 30 to 45 minutes

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This next set of questions ask about the types and use of multimedia resources you would like NOAA to create more of for your professional development.

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13. What types of multimedia resources would you like NOAA to produce more of for your professional development use? Select your first and second choice.

- a. Images
- b. Animations
- c. Data visualizations
- d. Pre-recorded videos
- e. Live webinars/Zoom
- f. Virtual reality

14. Are there other types of multimedia resources not listed in question 13 above you would like NOAA to produce for your professional development use?

15. Think about multimedia resources you've recently used in your professional development. What places do you look to find reliable multimedia resources? Select your first and second most used option.

- a. Search engine i.e. Google search
- b. School and/or district science supervisor/lead, school/district professional development days
- c. Recommendations from colleague(s)
- d. Professional organizations i.e. National Science Teaching Association
- e. Federal Agencies i.e. NOAA, NASA, EPA, Smithsonian, etc.
- f. Resources from conference attendance

16. Are there other places you look to find multimedia resources not listed in question 15 above?

17. Which of the following would be most beneficial to your professional development? Select your first and second choice.

- a. Information on science i.e. background or current research.
- b. Information on best practices in teaching science (science pedagogy).
- c. Culturally-responsive science teaching practices.
- d. Demonstrations of hands-on activities for use in the classroom/by audiences.
- e. Demonstrations of science principles or phenomena.
- f. Demonstrations of online resources for use in the classroom/by audiences.
- g. NOAA teacher opportunities

18. What type of device do you primarily use to view multimedia content for professional development? Select the single best answer.

- a. Smartphone
- b. Tablet
- c. Laptop
- d. Computer monitor/Desktop
- e. Television

19. What is the average length of time you would prefer to engage in multimedia usage for your professional development? Select the single best answer.

- a. 30 minutes or less
- b. 30 to 45 minutes
- c. 60 minutes

20. Which time zone do you live in?

- a. Eastern
- b. Central
- c. Mountain
- d. Pacific
- e. Alaskan

- f. Hawaii
- g. Other

21. What time of day in your local time zone would you like to view live/interactive webinars for your professional development? Please select your first choice and second choice.

- a. 10 am to 12 pm
- b. 12 pm to 2 pm
- c. 2 pm to 4 pm
- d. 4 pm to 6 pm
- e. 6 pm to 8 pm