**NOAA Education Council Multimedia/Distance Learning Working Group**

**External Needs Assessment Question Bank – Draft**

1. What type of teaching is your primary focus?

\_\_\_ Formal (Classroom-based, provided by certified teachers)

\_\_\_ Informal (Outside of a classroom, e.g. Museum, Aquarium, Nature Center, etc.)

2. What educational level do you primarily teach? Select all that apply.

\_\_\_ Elementary School

\_\_\_ Middle School

\_\_\_ High School

\_\_\_ College

\_\_\_ Adult Learners

\_\_\_ Professional Development (Classroom, Preservice Teachers, Informal Educators)

3. What subject(s) do you teach? Select all that apply.

\_\_\_ Life Science

\_\_\_ Physical Science

\_\_\_ Oceanography/Marine Science

\_\_\_ Earth Science

\_\_\_ Integrated/All Sciences

\_\_\_ Mathematics

\_\_\_ Technology

\_\_\_ Liberal Arts (Reading, Literature, History, Art, etc.)

\_\_\_ Other

4. Do you incorporate multimedia as part of your educational activities?

\_\_\_ Yes

\_\_\_ No

\_\_\_ No, but plan to in the future.

If you answered Yes, go to question 5 and continue.

If you answered No, but may in the future, go to question 8 and continue.

5. What type of multimedia do you incorporate as part of your curriculum? Select all that apply.

\_\_\_ Images (2D or 3D)

\_\_\_ Audio, e.g. podcasts

\_\_\_ Graphic animation or data visualization

\_\_\_ Video

\_\_\_ Virtual Reality

\_\_\_ Telepresence/Webinar/Skype, FaceTime, Google Hangouts (e.g. scientist interacting live with a classroom or group)

6. How often do your students/audiences engage in multimedia usage as part of your educational activities?

\_\_\_ Seldom (A few times a year)

\_\_\_ Sometimes (Monthly)

\_\_\_ Often (Several times a month)

\_\_\_ Frequently (Weekly)

\_\_\_ Daily

7. When using multimedia, what is the average length of time your students/audiences engage in multimedia usage? Select the best answer.

\_\_\_ Less than three minutes

\_\_\_ Three to five minutes

\_\_\_ Five to 15 minutes

\_\_\_ 15 to 30 minutes

\_\_\_ 30 minutes or more

8. How important is it for multimedia content to be aligned with the Next Generation Science Standards? (<https://www.nextgenscience.org/>)

\_\_\_ Not Important

\_\_\_ Somewhat Important

\_\_\_ Very Important

9. For use with your students/audiences, what type of multimedia product would you like NOAA to produce? (Make no more than three selections.).)

\_\_\_ Images (2D or 3D)

\_\_\_ Audio, e.g. podcasts

\_\_\_ Graphic animation or data visualization

\_\_\_ Video

\_\_\_ Virtual Reality

\_\_\_ Telepresence/Webinar/Skype, FaceTime, Google Hangouts (e.g. scientist interacting live with a classroom or group)

10. For use with your students/audiences, what topic(s) would you like for NOAA to cover when producing multimedia products? (Make no more than three selections.)

\_\_\_ Life Science

\_\_\_ Physical Science

\_\_\_ Oceanography/Marine Science

\_\_\_ Earth Science

\_\_\_ Integrated/All Sciences

\_\_\_ Mathematics

\_\_\_ Technology

\_\_\_ Liberal Arts (Reading, Literature, History, Art, etc.

\_\_\_ Other

11. What is the ideal length of video content for use with your students/audiences? (Make no more than three selections.) **Videos:**

\_\_\_ One minute or less

\_\_\_ One to three minutes

\_\_\_ Three to five minutes

\_\_\_ Five to ten minutes

\_\_\_ Ten to 15 minutes

\_\_\_ 15 to 30 minutes

\_\_\_ 30 to 45 minutes

\_\_\_ One hour or more

12. What is the ideal length of interactive video content for use with your students/audiences? (Telepresence/Webinar/Skype, FaceTime, Google Hangouts - e.g. scientist interacting live with a classroom or group) (Choose top three)

\_\_\_ Ten to 15 minutes

\_\_\_ 15 to 30 minutes

\_\_\_ 30 to 45 minutes

\_\_\_ One hour or more

13. What is the ideal length of audio content for use with your students/audiences? (Make no more than three selections.)

**Audio/Podcasts:**

\_\_\_ One minute or less

\_\_\_ One to three minutes

\_\_\_ Three to five minutes

\_\_\_ Five to ten minutes

\_\_\_ Ten to 15 minutes

\_\_\_ Fifteen to 30 minutes

\_\_\_ Thirty to 45 minutes

\_\_\_ One hour or more

14. Do you view multimedia content for your own professional development?

\_\_\_ Yes

\_\_\_ No

15. What type of multimedia content do you use, or would like to use, for your professional development? Check all that apply.

\_\_\_ Images (2D or 3D)

\_\_\_ Audio, e.g. podcasts

\_\_\_ Graphic animation or data visualization

\_\_\_ Video

\_\_\_ Virtual Reality

\_\_\_ Telepresence/Webinar/Skype, FaceTime, Google Hangouts (e.g. scientist interacting live with a classroom or group)

16. What topics would you like for NOAA to cover when producing multimedia products for your professional development?

\_\_\_ Life Science

\_\_\_ Physical Science

\_\_\_ Oceanography/Marine Science

\_\_\_ Earth Science

\_\_\_ Integrated/All Sciences

\_\_\_ Mathematics

\_\_\_ Technology

\_\_\_ Liberal Arts (Reading, Literature, History, Art, etc.)

\_\_\_ Other

17. Which of the following would be beneficial to your professional development?

\_\_\_General science background information related to topics in question 16 above.

\_\_\_Science pedagogy (e.g. best practices in teaching science)

\_\_\_Hands-on-activity demonstrations of science principles for classrooms/audiences

\_\_\_Demonstrations of online resources for use in the classroom/by audiences (i.e. data/content websites)

\_\_\_ Other