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Atmospheric River Frequency Forecast User Survey

Atmospheric rivers (ARs) have a great impact on the annual precipitation in the western U.S. NOAA has numerous products and forecasts related to ARs and is continually looking to improve them. This survey is a request for feedback on the value of AR frequency forecasts and will be used as input to an economic valuation study requested by the NOAA Office of Oceanic and Atmospheric Research.

The estimated time to complete this survey is less than 20 minutes. The identity of those participating will remain confidential in any analysis that emerges from this survey.

1. What sector do you work in? If selecting "Other," please specify.

Check all that apply.

- [ ] Agriculture
- [ ] Climate
- [ ] Insurance
- [ ] Recreation
- [ ] Renewable energy
- [ ] Transportation
- [ ] Utilities
- [ ] Water management/resources
- [ ] Weather
- [ ] Wildfire applications

Other: [ ] _____

2. What is your geographic location (i.e. state or section of a country, etc.)?

_____

3. Are you answering this survey as an individual user or as a representative of a larger entity? If answering as an individual, please skip to question 6.

   Mark only one oval.

   - ◯ Individual
   - ◯ Representative

4. What is your role in your organization, company, agency, etc.?

   _____

5. Approximately how many users do you have?

   Mark only one oval.

   - ◯ Less than 10
   - ◯ Between 10 and 50
   - ◯ Between 50 and 100
   - ◯ Between 100 and 500
   - ◯ More than 500

6. How do you currently use atmospheric river (AR) forecasts? If selecting "Other," please specify.

   Check all that apply.

   - ☐ Forecasting
   - ☐ Decision-making
   - ☐ Risk assessment

   Other: ☐ _____

7. What currently available AR products do you use?

8. How long have you been using these AR products?

Mark only one oval.

- Less than 1 year
- 1 to 5 years
- 5 to 10 years
- More than 10 years

9. How much time do you generally spend analyzing these AR products?

Mark only one oval.

- Less than 5 hours per week
- 5 - 10 hours per week
- 10 - 20 hours per week
- More than 20 hours per week

10. Which statement best describes the importance of these AR products to your work?

Mark only one oval.

- ◯ I could not do my work without these products.
- ◯ The quality of my work would decrease without these products.
- ◯ The quality of my work would be comparable without these products, if I put in extra effort (time/cost/resources).
- ◯ The quality of my work would be comparable without these products.

11. Do you have any stories or anecdotes on how these AR products have helped you in the past?

Mark only one oval.

- ◯ Yes
- ◯ No

12. If yes, please share them below.

_____

_____

_____

_____

_____

13. Would a multi-seasonal forecast (up to 9 months in advance) of AR frequency help you and/or your industry?

Mark only one oval.

- ◯ Yes
- ◯ No

14. If yes, how so? (What is the added value to you and/or your users? What decisions would this forecast help you make?)

15. Are you currently able to get a multi-seasonal forecast of AR frequency from elsewhere?

Mark only one oval.

- Yes
- No

16. If yes, where do you get the multi-seasonal forecast of AR frequency?

17. What attributes would make a multi-seasonal forecast of AR frequency more useful?

18. If provided, would you use historical (hindcast) data on this AR frequency product?

Mark only one oval.

- Yes
- No

19. If yes, how would you use the historical (hindcast) data?

20. If you know of any other potential users (organizations/businesses only, NOT individuals) of a multi-seasonal forecast of AR frequency, please share them. Organizations and businesses include federal and state agencies, nonprofit and for-profit organizations, universities, etc. Please do NOT provide information on individuals.