

# NCEP Model-Products Questionnaire - Focus Group Revisions

The National Weather Service's (NWS) National Centers For Environmental Prediction (NCEP) is performing a review of its numerical modeling efforts, including a comprehensive evaluation of its modeling suite. To facilitate this evaluation, a UCAR committee of modeling experts will be working closely with NCEP personnel to prepare specific recommendations on the strategic evolution of the production suite. Since the goal of NCEP modeling is to supply high quality operational numerical guidance to a wide range of stakeholders, your feedback is essential. To that end, we hope you can spend a few minutes providing your insights through the questions below. Your input will have substantial impact.

For reference:

NCEP Production Suite: [https://www.earthsystemcog.org/projects/umac\\_model\\_advisory/Models](https://www.earthsystemcog.org/projects/umac_model_advisory/Models)

Extensive Glossary of NCEP Modeling Assets:

[https://www.earthsystemcog.org/projects/umac\\_model\\_advisory/Model\\_Glossary](https://www.earthsystemcog.org/projects/umac_model_advisory/Model_Glossary)

\* Required

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**1. Question 1: Which NCEP modeling systems and derived products do you currently use? \***

If you don't use a system please check N/A

Mark only one oval per row.

	Critical	Very Important	Important	Marginally Important	N/A
High Resolution Rapid Refresh (HRRR)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High Resolution Windows (HiRESW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rapid Refresh (RAP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
North American Mesoscale (NAM) and associated nests	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Short Range Ensemble Forecast System (SREF)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Global Forecast System (GFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Global Ensemble Forecast System (GEFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
North American Ensemble Forecast System (NAEFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Climate Forecast System (CFS), reanalysis and reforecasts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hurricane Weather Research and Forecast (HWRF)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GFDL Hurricane Forecast Model (GFDL-HFM)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air Quality--surface ozone (CMAQ)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air Quality-dispersion (HYSPLIT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hydrology (HEFS, AHPS, CHPS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
North American Land Data Assimilation Systems (NLDAS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Real Time Ocean Forecast System (RTOFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coastal Ocean/Bays (NOS-OFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tropical and Extratropical Storm Surge (ETSS; PSURGE; SLOSH,ESTOFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Global Waves (WWW3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Global Wave Ensemble (GWENS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Great Lakes waves (GLCFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Space Weather: Solar Flare (WSA-ENLIL)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2. **Question 1a: Are there NCEP systems and derived products not included in Question 1? If yes, please list the system and indicate its criticality. If none, please enter "none."** \*

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3. **Question 2: In what ways is the current suite of NCEP analyses and guidance meeting your needs? Enter "no answer" if you have no answer.** \*

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4. **Question 3: In what ways is the current suite of NCEP analyses and guidance not meeting your needs? Enter "no answer" if you have no answer.** \*

For example, is the guidance not as frequent or accurate as desired, or are there parameters missing or coverage gaps?

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5. **Question 4: Are there limiting factors that prevent you from using the NCEP numerical guidance products effectively in your business processes? Enter "no answer" in Other box if you have no answer. \***

*Check all that apply.*

- Forecast Skill
- Lack of Full Resolution Products
- Frequency of Output
- Lack of Verification Information
- Easy Access to Model Output
- Timeliness
- Derived Products and Indices
- Catalog of Available Products
- Documentation of Products
- User Guides of Products
- Digital Formats
- Mapping and Geographical Subsets
- Ability to Form Time Series
- Changing Interfaces to Products
- Web Services
- Other: \_\_\_\_\_

6. **Question 5: Over the next 5 to 10 years, what kind of models and derived output would you like to see that are currently unavailable from the NCEP modeling suite? [e.g. - How will your needs change during the next five years for gridded model data and products? What could NCEP provide to help satisfy your future plans?] Enter "no answer" if you have no answer. \***

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7. **Question 6: Do you use numerical guidance from other centers (i.e., ECMWF, UKMO, etc.)? If so, which products? How do they provide additional value to your products and services? Enter "no answer" in Other box if you have no answer. \***

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**8. Question 7a: Focusing on short to medium range weather forecasting systems, how would you prioritize the value of the following modeling systems to your business products and services? If you want to comment on these options, or make other recommendations on resource tensions, please use the comment space for Question 10.**

*Mark only one oval per row.*

	Lowest	Low	Neutral	High	Highest
Deterministic global forecasts, highest resolution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deterministic U.S. forecasts, highest resolution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Global ensemble forecasts, moderate resolution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
U.S. ensemble forecasts, moderate resolution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensemble high resolution probabilistic predictions of convection and other small scale features	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**9. Question 7b: Focusing on longer range climate forecasting systems, how would you prioritize the value of the following modeling systems to your business products and services? If you want to comment on these options, or make other recommendations on resource tensions, please use the comment space for Question 10.**

*Mark only one oval per row.*

	Lowest	Low	Neutral	High	Highest
Ensemble monthly (1-month mean) outlooks for the US	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensemble monthly (1-month mean) outlooks for regions outside the US	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensemble seasonal (3-month mean) outlooks for the US	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensemble seasonal (3-month mean) outlooks for regions outside the US	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensemble seasonal global sea surface temperature outlooks (maps or regional indices like ENSO)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensemble week-3 and week-4 outlooks of means, variance and extremes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensemble outlooks beyond one-year lead times	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**10. Question 8: Based on your line of business, what modeling systems and associated derived products would affect you most if terminated?**

*Mark only one oval per row.*

	Critical	Very Important	Important	Marginally Important	N/A
High resolution rapid refresh (HRRR)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High Resolution Windows (HiRESW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rapid Refresh (RAP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
North American Mesoscale (NAM) and associated nests	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Short Range Ensemble Forecast System (SREF)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Global Forecast System (GFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Global Ensemble Forecast System (GEFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
North American Ensemble Forecast System (NAEFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Climate Forecast System (CFS) and Reforecasts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hurricane Weather Research and Forecast (HWRF)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GFDL Regional Hurricane Model (GFDL-HFM)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air Quality for Surface Ozone (CMAQ)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air Quality--Dispersion (HYSPLIT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hydrology (HEFS,AHPS, CHPS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
North American Land Data Assimilation System (NLDAS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Real Time Ocean Forecast System (RTOFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coastal Ocean and Bays (NOS-OFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tropical and Extratropical Storm Surge (ETTS; PSURGE; SLOSH; ESTOFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Global Waves (WW3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Global Wave Ensemble (GWENS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Great Lakes Waves (GLCFS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Space Weather: Solar Flare (WSA-Enlil)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**11. Question 9: What types of forecast products and guidance will be important to your work in the future? \***

Mark only one oval per row.

	Critical	Very Important	Important	Marginally Important	N/A
Nowcasting and Short-range Weather Forecasting (0-3 days)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hurricane Forecasting Watches and Warnings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Medium-range Weather Forecasting (0-16 days)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sub-seasonal to Seasonal Forecasting (S2S) (2 weeks - 1 year)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Seasonal to Interannual Forecasting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Environmental Warnings and Alerts (Air quality, Heat, Geomagnetic, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Decadal Climate Forecasting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Climate Projections (> Decadal)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hydrological Forecasting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
River Forecasting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sea-State Forecasting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coastal Forecasting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Surge and Inundation Forecasting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sea-Ice Forecasting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air-Quality Forecast	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coupled (Atmosphere-Land-Ocean-Ice) Forecasting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**12. Question 10: Any other suggestions or comments you would like to provide to NCEP and the UCAR expert's committee that may guide their analysis? [e.g. - How will your needs change during the next five years for gridded model data and products? What could NCEP provide to help satisfy your future plans?]**

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13. **Question 11: DEMOGRAPHICS: Please check the sector(s) in which you work. Use the "Other" block to give a one sentence description of your work, as related to NCEP products. Enter "no answer" in Other box if you have no answer. \***

*Check all that apply.*

- Broadcast Weather and Science
- NWS Forecaster
- Military Forecaster
- Commercial / Private Sector Forecaster
- Environmental Warnings and Alerts
- Disaster (natural hazards) Preparedness and Planning
- Seasonal Forecaster
- Applications of Seasonal Forecasting
- Climate-Change Preparedness
- Research: Academic
- Research: Commercial and Private
- Research: Government
- Value Added Content Provider
- Natural Resource Management
- Consultancy
- Other: \_\_\_\_\_

14. **Question 12: DEMOGRAPHICS: Please check the type of organization in which you work. Enter "no answer" in Other box if you have no answer. \***

*Check all that apply.*

- Commercial Weather Information Provider
- Commercial Climate Information Provider
- Federal Government: NWS Forecaster
- Federal Service: Other than NWS Forecaster
- Consultancy
- Local, State, Regional Government
- Non-governmental Organization
- Commercial Company
- Academic
- Education (K-12)
- IT or eCommerce
- Option 12
- Other: \_\_\_\_\_



15. **Question 13: DEMOGRAPHICS: What is your job title or role in your organization? \***

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16. **Question 14: DEMOGRAPHICS: Optional: Organization**

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