



Dimension 2: Generation of forecasts, outlooks, watches and/or warnings

Info. management, data collection and quality control



Generation of forecasts, outlooks, watches / warnings



IDSS



Management, teamwork and leadership



Integration of science and technology



Competency: Diagnosing the environment: Assess and diagnose the environment for a multitude of weather, water, and climate elements

GS-5 to GS-7

- Demonstrates, with frequent supervision, ability to continuously monitor all appropriate data for changing sensible weather which could impact the current forecast to ensure forecasts are consistent with current observations as much as possible.
- Demonstrates, with frequent supervision, ability to utilize conceptual/mental models and past experience, along with appropriate NWP/analogs/climatology to determine “targets of opportunity” to issue/adjust scientifically consistent forecasts and updates.
- Works well with others and utilizes others’ input when appropriate.

GS-7 to GS-9

- Demonstrates, with occasional supervision, ability to continuously monitor all appropriate data for changing sensible weather which could impact the current forecast to ensure forecasts are consistent with current observations as much as possible.
- Demonstrates, with occasional supervision, ability to utilize conceptual/mental models and past experience, along with appropriate NWP/analogs/climatology to determine “targets of opportunity” to issue/adjust scientifically consistent forecasts and updates.
- Works well with others and utilizes others’ input when appropriate.

GS-9 to GS-11

- Demonstrates, with minimal supervision, ability to continuously monitor all appropriate data for which could impact the forecast in both routine and complex situations and to describe possible impact scenarios.
- Demonstrates, independently, ability to utilize conceptual/mental models and past experience, along with appropriate NWP/analogs/climatology/observations to determine “targets of opportunity” to issue/adjust scientifically consistent forecasts and updates.
- Works well with others and utilizes others’ input when appropriate.
- On occasion may serve as a key resource to others.

GS-11 to GS-12

- Continuously monitors all appropriate data for changing sensible weather which could impact the current forecast to ensure forecasts are consistent with current observations as much as possible.
- Utilizes conceptual/mental models and past experience, along with appropriate NWP/analogs/climatology to determine “targets of opportunity” to issue/adjust scientifically consistent forecasts and updates.
- Works well with others and utilizes others’ input when appropriate.
- Demonstrates the ability to serve as a key resource to others.



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Competency: Assessing and issuing scientifically-sound environmental forecasts: Assess and issue forecast information, make adjustments as needed, incorporate sound decision making, and leverage inter-office collaboration

GS-5 to GS-7

- Demonstrates, with minimal coaching and basic-level skill, ability to use scientifically sound information, determine potential impacts and clearly communicate these to customers operations via timely issuance of information. Able to discern some conditions producing various precipitation types.
- Demonstrates, with minimal coaching and basic-level skill, ability to utilize a variety of guidance, to be able to properly recommend adjustments to forecasts for all applicable service areas (e.g., public, aviation, fire, marine, etc.).
- Demonstrates, with considerable assistance, ability to engage in inter-office collaboration that is reflected in forecasts.
- Demonstrates, with considerable assistance, ability to integrate operational forecasting lessons learned and best practices into forecast operations.
- Identifies the key resources in the office for various topics.

GS-7 to GS-9

- Demonstrates, with minimal coaching and intermediate-level skill, ability to use scientifically sound information, determines potential impacts and clearly communicates these to customers operations via timely issuance of information. Able to discern many conditions producing various precipitation types.
- Demonstrates, with minimal coaching and intermediate-level skill, ability to utilize a variety of guidance, able to properly recommend adjustments to forecasts for all applicable service areas (e.g., public, aviation, fire, marine, etc.).
- Demonstrates, with minimal assistance, ability to engage in inter-office collaboration that is reflected in forecasts.
- Demonstrates, with minimal assistance, ability to integrate operational forecasting lessons learned and best practices into forecast operations.
- Engages the key resources in the office when applicable.

GS-9 to GS-11

- Demonstrates ability, independently and with advanced-level skill, to use scientifically sound information, determines potential impacts and clearly communicates these to customers operations via timely issuance of information. Able to discern most conditions producing various precipitation types.
- Demonstrates ability, independently, to make sound decisions utilizing a variety of guidance, and properly make adjustments to forecast information for all applicable service areas (e.g., public, aviation, fire, marine, etc.).
- Demonstrates ability to independently engage in inter-office collaboration that is reflected in forecasts.
- Demonstrates ability to independently integrate operational forecasting lessons learned and best practices into forecast operations.
- On occasion may serve as a key resource to others.

GS-11 to GS-12

- Using scientifically sound information, determines potential impacts and clearly communicates these to customers operations via timely issuance information. Able to discern all conditions producing various precipitation types.
- Able to properly create, update and issue timely forecasts for all applicable service areas (e.g., public, aviation, fire, marine, etc.).
- Utilizes a variety of guidance (including national centers) in the production of forecasts.
- Frequently initiates and engages in inter-office collaboration that is reflected in forecasts.
- Occasionally integrates operational forecasting lessons learned and best practices into forecast operations.
- Demonstrates the ability to serve as a key resource to others.



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Competency: Developing and issuing hazardous environmental information and alerts: Identify hazardous environmental information and incorporate this information including timely watches, warnings, advisories, and hazard outlooks into products and services

GS-5 to GS-7

- Demonstrates, within a collaborative environment, ability to employ basic-level skill to identify hazardous weather, water, and climate information.
- Demonstrates, with assistance, ability to utilize all available tools to identify hazardous weather.
- Learns and understands rationale for criteria for hazardous weather alerts.
- Demonstrates ability to clearly communicate impacts to partners.

GS-7 to GS-9

- Demonstrates, within a collaborative environment, ability to employ intermediate-level skill to identify hazardous weather, water, and climate information.
- Demonstrates, independently, ability to utilize all available tools to identify hazardous weather.
- Demonstrates, with supervision, ability to assess and issue timely hazardous weather alerts, including watches, warnings, outlooks, and advisories.
- Clearly communicates impacts to partners.

GS-9 to GS-11

- Demonstrates ability, with minimal supervision, within a collaborative environment, employs advanced-level skill to provide scientifically-sound assessments and issues timely and properly formatted advisories, watches, and warnings (winter weather, wind, fire weather, marine and coastal, aviation, tropical, tsunami, hydrologic).
- Demonstrates ability, with minimal supervision, within a collaborative environment, provides scientifically-sound assessments and issues flash flood, severe thunderstorm, and tornado watches, advisories, and warnings.
- Demonstrates ability to consistently and regularly support the watch, warning, advisory (alerts) process.
- Demonstrates ability, occasionally and with supervision, to integrate best practices, lessons learned, innovative techniques, and training simulations into the forecast process.
- On occasion may serve as a key resource to others.

GS-11 to GS-12

- Within a collaborative environment, employs advanced-level skill to provide scientifically-sound assessments and issues timely and properly formatted advisories, watches, and warnings (winter weather, wind, fire weather, marine and coastal, aviation, tropical, tsunami, hydrologic).
- Within a collaborative environment, provides scientifically-sound assessments and issues flash flood, severe thunderstorm, and tornado watches, advisories, and warnings.
- Clearly communicates impacts to partners.
- Demonstrates the ability to serve as a key resource to others.