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## Meteorologist Research 13

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### GS-1340-13

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#### I. INTRODUCTION

This position is located in

Incumbent performs independent research on complex problems of observation and analysis of meteorological phenomena.

#### II. Major Duties and Responsibilities

Incumbent investigates long range and short term problems, recommends solutions, and writes scientific papers for publication. Examples include investigations such as:

Satellite observations to solve problems in the atmospheric, oceanic, and land sciences and in climate research and monitoring to develop methods for remote sensing of the earth and its atmosphere.

Analysis of atmospheric and oceanic data to determine relationships, sources, sinks and trends to develop real-time climate indices, predictive techniques, and evaluations of predictions.

Development of techniques for surface wind analysis and forecasting over the global oceans; boundary layer processes including fog over the oceans and coastal regions; global assimilation of satellite ocean surface wind data; ocean wave prediction; sea surface temperature analyses; ice analyses and forecasting.

Physical processes which govern the behavior of the atmosphere and the oceans as complex fluid systems.

Environmental processes for improved severe weather detection and storm forecasts, focused on tornadoes and other severe wind storms, hail, lightning, and flash floods.

#### III. FACTOR LEVELS

FACTOR 1 - Research Situation/assignment Degree C, 6 pts.

Incumbent researches multi-phase meteorological problems of considerable scope and complexity, either alone or as principal researcher of a group effort. Novel and sometimes unconventional approaches, or sophisticated research techniques must be applied to the meteorological problem to be investigated. Problems often are difficult to define.

Incumbent is the author of one or more publications of considerable interest and value to meteorological science. The publications answer important questions and add to scientific knowledge. Research findings result in important changes to products, processes and techniques.

FACTOR 2 - Supervision Received Degree C, 6 pts.

Incumbent has considerable freedom in identifying, defining, and selecting specific problems for study. Independently formulates hypotheses, develops and carries out plan of attack. Supervisor is kept informed through general discussions, and consults with the researcher on proposals to changes the direction or level of

research efforts significantly. Scientific recommendations are normally followed with completed work reviewed for overall results and contribution to understanding of meteorological phenomena.

FACTOR 3 - Guidelines and Originality Degree C, 6 pts.

Significant gaps or contradictory findings exist in relevant meteorologic or atmospheric science literature. Incumbent applies a high degree of originality in defining and delimiting problems for study. Incumbent applies new techniques and original methods of attack to solution of important problems in meteorological science. These problems present novel or unprecedented aspects.

FACTOR 4 - Qualifications and Scientific Contributions Degree C, 12 pts.

Personal performance of research marks scientist as a significant contributor. As author of one or more papers of considerable interest, demonstrates leadership by leading a productive research team, or by leadership in the conception and formulation of productive research ideas for others. May serve on technical committees in the specialty area.

Total Points: 6+6+6+12 = 30

This position is exempt from coverage under the Fair Labor Standards Act.

#### **IV. UNIQUE POSITION REQUIREMENTS**

(Last Updated: November 4, 1994)

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