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## Meteorologist Research 12

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### GS-1340-12

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#### I. INTRODUCTION

This position is located in

Incumbent is the sole researcher or scientific coordinator of a team of scientists performing research into important 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 B, 4 pts.

The meteorological research situation is of greater than average difficulty and complexity. The investigation is approached by a series of complete but related studies. Investigations at times require unconventional or novel approaches for resolution.

Completed research will result in a series of publishable contributions to meteorological knowledge to answer important questions and/or open new avenues of further study. The research will make important contributions to meteorological science, which may result in changes to existing products, processes, techniques or practices.

Factor 2 - Supervision Received Degree B, 4 pts.

Incumbent is assigned a broad problem area with freedom to identify, define and select specific problems for study. With little or no supervisory assistance, incumbent formulates hypotheses, develops and carries out plan of attack. Supervisor is kept informed through informal discussions of general plans and progress of work.

Proposals to alter the level or direction of investigation are subject to supervisory review and approval. Completed work is reviewed for overall results.

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 B, 8 pts.

Incumbent is author of one or more papers of considerable interest to other researchers in the assigned research situation.

Accomplishments demonstrate the ability to independently conduct research or contribute significantly to a research team. Incumbent is consulted by others on results of research.

Total Points: 4+4+6+8 = 22

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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