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## Meteorologist Research 09

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### GS-1340-09

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#### I. INTRODUCTION

This position is located in

Incumbent is a member of a team providing assistance to higher-level researchers on problems of basic or applied meteorological phenomena.

#### II. MAJOR DUTIES AND RESPONSIBILITIES

Incumbent serves as member of research team investigating meteorological problems, conducting experiments, making observations, analyses, recommending solutions, and writing 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

Research studies may be complex but have clear and specified objectives. Plans project details on the basis of precedents established in related projects, and devises and recommends alternative methods of standardized analysis as a basis for solving moderately difficult problems. Incumbent has a greater responsibility for fact-finding than fact interpretation.

Factor 2 - Supervision Received

General instruction and objectives regarding the design, execution and evaluation of the research is provided by the principal researcher. The nature of the results to be expected are described by the supervisor. Supervisor is available to discuss potential sources of difficulty. Supervisor reviews work plans and provides advice during progress of work. Completed reports are reviewed from the standpoint of adequacy, completeness, and validity of conclusions reached.

### Factor 3 - Guidelines and Originality

Precedents are generally available in the form of previous studies on related subjects, standard methods in textbooks, handbooks, or other literature. Most assignments require incumbent to apply judgment in selecting which guides apply and the assignment may require some adaptation and modification of existing guidelines.

### Factor 4 - Qualifications and Contributions

This position requires knowledge of theories, standard methods and techniques of professional meteorology, comparable to that which would be attained through a masters degree program. Incumbent has conducted portions of larger projects with other researchers, including participating in all phases of research.

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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