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## Meteorologist Research 11

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### GS-1340-11

NOTE: THE SENTENCE IN PART I DESCRIBING THE PURPOSE OF THE POSITION AND PARTS II AND III IN THEIR ENTIRETY ARE PERMANENT PARTS OF THE LIBRARY AND MAY NOT BE CHANGED OR EDITED IN ANY WAY.

#### I. INTRODUCTION

This position is located in

Incumbent is a researcher or member of a research team performing research on problems 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 A, 2 pts.

The incumbent is assigned projects whose objectives are readily defined and which are limited in scope. Assignments may stand alone as studies of specific meteorological phenomena, or they may be segments of a larger investigation. The incumbent usually participates substantively in all phases of the research investigation, including problem definition, planning, execution, analysis, interpretation, and reporting of findings.

Investigations may cover new areas in meteorological research, where the objectives are clear-cut and fairly conventional or they may involve applying existing theory or methods to new problems not previously studied. Projects are expected to result in a publishable addition to scientific knowledge.

FACTOR 2 - Supervision Received Degree A, 2 pts.

The supervisor gives general instructions as to scope/objectives of meteorological investigations to be conducted. Incumbent consults with supervisor on problem definition and development of plan of attack. Incumbent is responsible for the study and pursues it to completion, solving problems ordinarily entailed in

accomplishment of the work with only occasional reference to the supervisor. Incumbent interprets results and prepares reports. Significant changes in predicted outcomes are reviewed by the supervisor, as are the paper's completeness, clarity, and presence of adequate support for conclusions.

FACTOR 3 - Guidelines and Originality Degree A, 2 pts.

At this level the incumbent uses existing theory and methods that are generally applicable to most problems. The originality required is primarily the development of a complete and adequate research design for a particular project. Only limited innovation, or modification of procedures and techniques is required. Incumbent may apply complex but established experimental techniques.

FACTOR 4 - Qualifications and Scientific Contributions Degree A, 4 pts.

Performs independent meteorological research as member of a research team. Contributes as co-author, in a secondary role, to works that are published in major scientific papers and which are of major importance to the meteorological field, or as primary author of a paper of minor importance to a limited area or limited scope in meteorological science.

Points: 2+2+2+4 = 10

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

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

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