

UNITED STATES OF AMERICA:
WAR DEPARTMENT.

LEXINGTON, KY.

MONTHLY WEATHER REVIEW.

(GENERAL WEATHER SERVICE OF THE UNITED STATES.)

MARCH, 1889.

CONTENTS.

	Page.		Page.
INTRODUCTION.....	55	ATMOSPHERIC ELECTRICITY.....	67
ATMOSPHERIC PRESSURE.....	55	Auroras; Thunder-storms.	
General distribution; Comparison of barometric means with those of previous month; Departures from normal; Monthly barometric ranges; Areas of high pressure; Areas of low pressure.		MISCELLANEOUS PHENOMENA.....	68
NORTH ATLANTIC STORMS.....	58	Prairie fires; Halos; Meteors; Mirage; Sand Storms; Pollen; Sun spots.	
North Atlantic storms for March, 1889; Ocean ice; Fog.		VERIFICATIONS.....	69
TEMPERATURE OF THE AIR.....	60	Indications; Cautionary signals; Local verifications.	
General remarks; Deviations from normal temperatures; Maximum and minimum temperatures; Monthly and daily ranges; Temperature of water; Frost; Limits of freezing weather.		STATE WEATHER SERVICES.....	70
PRECIPITATION.....	62	Extracts from reports of the several services.	
General distribution; Deviations from average precipitation; Excessive precipitation; Excessive rainfalls of ten minutes, or less; Snow; Depth of snow remaining on ground at 15th and close of month; Monthly snowfalls; Hail; Sleet.		METEOROLOGICAL TABLES.....	72
WINDS.....	64	Data from stations of voluntary observers; Data from stations of the Signal Service.	
Prevailing directions; High velocities; Local storms.		NOTES AND EXTRACTS.....	76
INLAND NAVIGATION.....	65	Hydrographic Office circular; Monthly and annual mean temperatures at Philadelphia, Pa.	
Ice in rivers and harbors; Stage of water in rivers and harbors; Floods; High tides.		CHARTS—I. Tracks of areas of low pressure; II. Isobars, isotherms, and winds; III. Precipitation; IV. Normal precipitation for March; V. Depth of snow on ground at close of month and limits of freezing weather.	

PREPARED UNDER THE DIRECTION OF
BRIGADIER GENERAL A. W. GREELY,
CHIEF SIGNAL OFFICER OF THE ARMY,

BY H. H. C. DUNWOODY,
1ST LIEUTENANT, 4TH ARTILLERY, A. S. O. AND ASSISTANT.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF WAR.

WASHINGTON CITY:
SIGNAL OFFICE.
1889.