

CONTENTS.

	<i>Page</i>
PREFACE - - - - -	5
LIST OF ILLUSTRATIONS - - - - -	9
Chapter 1—INTRODUCTORY—AIMS AND OBJECTS - - -	11
What is weather? The airman's point of view. What is a forecast? Seven kinds of forecasts.	
Chapter 2—EARLY BEGINNINGS - - - - -	18
The first weather watchers. The beginning of weather reports. The first weather charts. The Meteorological Office is born. Development of the service.	
Chapter 3—THE ORGANIZATION OF A MODERN FORECASTING SERVICE - - - - -	26
Collecting the information. The Met. Teleprinter system. Reports by wireless. Reports from ships. The upper air. Forecasts for aviation. Guidance from ETA. AIRMET broadcasts. Facsimile transmissions. The B.B.C and the Press. Gale warnings. Forecasts for shipping. Special services.	
Chapter 4—THE TASK OF THE OBSERVER - - - - -	46
The instruments. The barometer. The barograph. Temperature and humidity. Direction and force of the wind. Visibility. The clouds. Present weather and past weather. State of the ground. Maximum and minimum temperature. Rainfall. Coding the report.	
Chapter 5—WEATHER OBSERVATIONS AT SEA - - - - -	66
Reports from Merchant Ships. Fixed Weather Ships.	
Chapter 6—OBSERVATIONS IN THE UPPER AIR - - - - -	72
Observations from aeroplanes. Meteorological Reconnaissance flights. PAMPA flights. Reports from Civil and operational aircraft. The radio-sonde. Measuring upper winds. Pilot balloons. Radio direction finding. The radar method.	
CLOUDS - - - - -	99
Chapter 7—THE WEATHER CHART - - - - -	106
Modern weather charts. The technique of plotting. The Station Model. Cloud and weather. Ships' reports and Met. Reconnaissance flights. Isobars. Upper air charts.	
Chapter 8—WEATHER SYSTEMS AND HOW THEY BEHAVE - -	121
The shapes and patterns of isobars. Isobars and the wind. How the air moves under pressure. The depression or "Low". New ideas from Norway. The anticyclone or "High". Fog. Convergence and divergence. The Wedge. The Col.	

CONTENTS.

	<i>Page</i>
Chapter 9—DIAGNOSIS AND PROGNOSIS - - - - -	148
Air mass analysis. Warm fronts and cold fronts. The anatomy of a depression. Occlusions. The forecast. The role of the local forecaster. Forecasts for the B.B.C and the newspapers. Forecast districts.	
Chapter 10—THE FURTHER OUTLOOK - - - - -	169
Persistence. Weather types. The southwesterly type. The northwesterly type. The northerly type. The northeasterly type. Southeasterly and southerly type. Anticyclonic type. Cyclonic type.	
Chapter 11—TWO MODERN AIDS TO FORECASTING - - - - -	181
Locating thunderstorms. A use for atmospheric. Radar detection of rain and cloud.	
Chapter 12—WHAT OF THE FUTURE? - - - - -	192
Are the forecasts more accurate? Hopes for the future in daily forecasts. Mathematical forecasting. Forecasts for longer periods.	
GLOSSARY OF TECHNICAL TERMS - - - - -	206
BOOKS FOR FURTHER READING - - - - -	215
INDEX - - - - -	216