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ADMIRALTY
WAR OFFICE
AIR MINISTRY

2nd Edition, January, 1950

INTER-SERVICES RADAR MANUAL

RADAR TECHNIQUES

Prepared by direction of
the Minister of Supply

A. J. Poulton

Promulgated for the information and guidance of all concerned

By Command of
Their Lordships

G. Lang

ADMIRALTY

By Command of the
Army Council

G. W. G. G. G.

WAR OFFICE

By Order of the
Air Council

J. H. Bennett

AIR MINISTRY

J. K. Hall
1922

NOTE TO READERS

Amendment Lists may be issued to correct this publication. New or amended technical information on new leaves which are inserted when this publication is amended will be indicated by a vertical line in the margin. This line merely denotes a change and is not a mark of emphasis. When a Chapter is issued in a completely revised form, the line will not appear.

AMENDMENT RECORD SHEET

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Foreword

The objective of the authors and editors was the production of an Inter-Service Radar Manual dealing with generalities (excluding any discussion of particular equipments, which is better left to Service handbooks dealing with individual sets) and of such a standard as to permit its use for wide reading amongst personnel engaged in the use, repair and servicing of radar equipment.

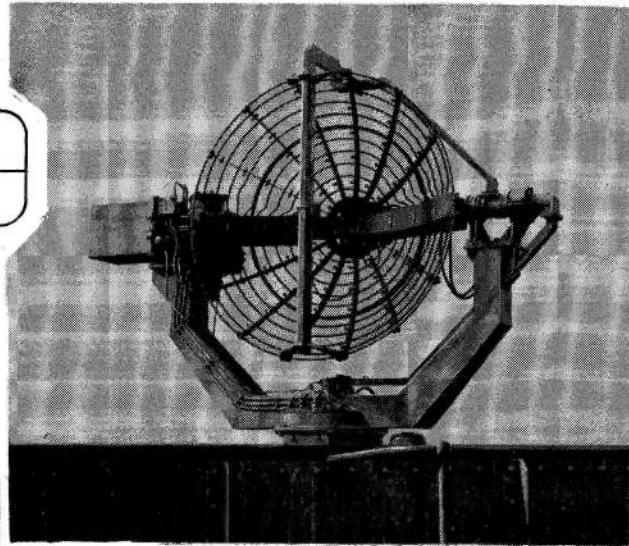
In order to reduce the size of the book, relevant matter to hand in widely circulated Service handbooks has been excluded and previous acquaintance of the reader with one or other of these is therefore assumed, as is evidenced from references in the text.

Certain portions of the book are starred thus:-
* * *. It is suggested that these portions should be omitted at a first reading or by readers who wish to avoid discussions which are largely of a mathematical nature.

The first edition of this work was distributed in September, 1946. A number of minor amendments and corrections have been made in this edition and some new matter, namely, the Introduction and the chapter dealing with Range-measurement, has been added.

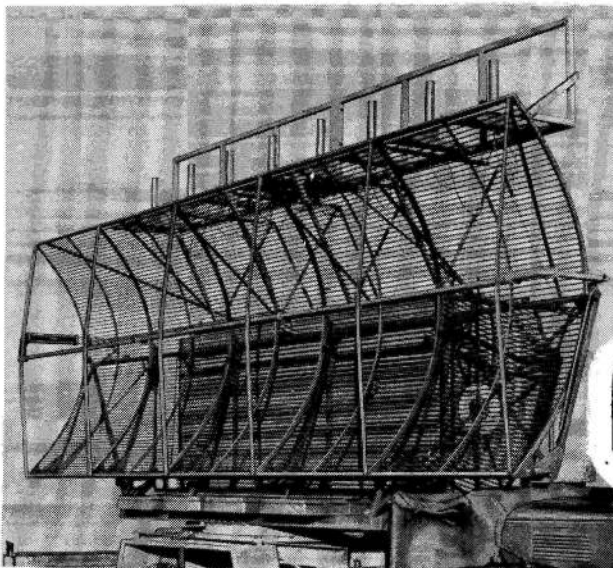
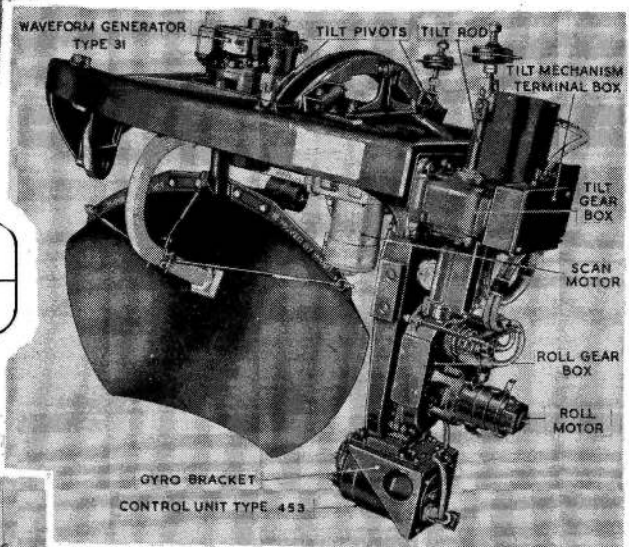


R.N. SHIPBORNE
RADAR TYPE 277 AERIAL OUTFIT A.U.K.

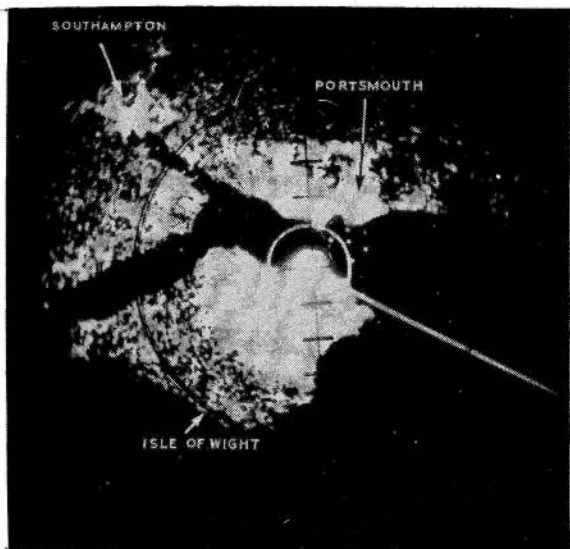


ARMY MOBILE
FIRE CONTROL EQUIPMENT RADAR A.A. NO. 3 MK.7

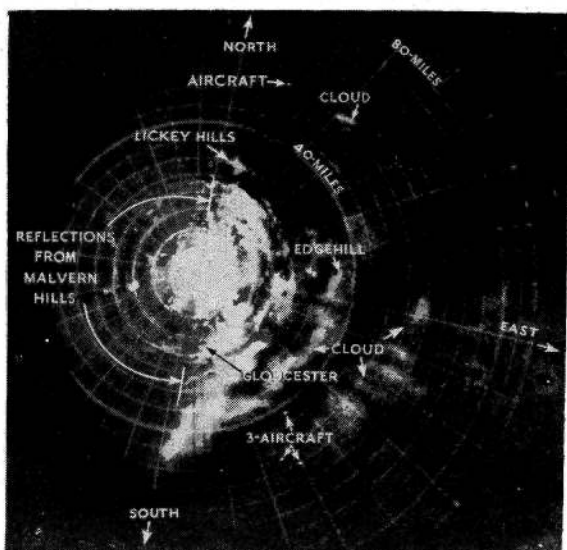
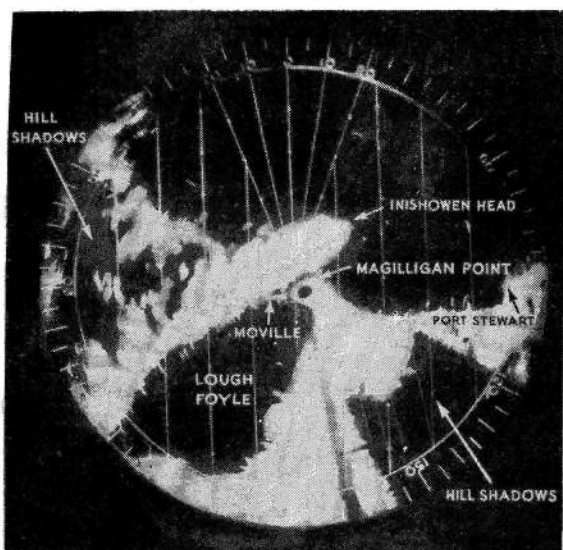
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A.S.V. Mk.13B SCANNING UNIT TYPE 80



R.A.F. GROUND MOBILE
AMES TYPE 14 LOW ANGLE AERIAL

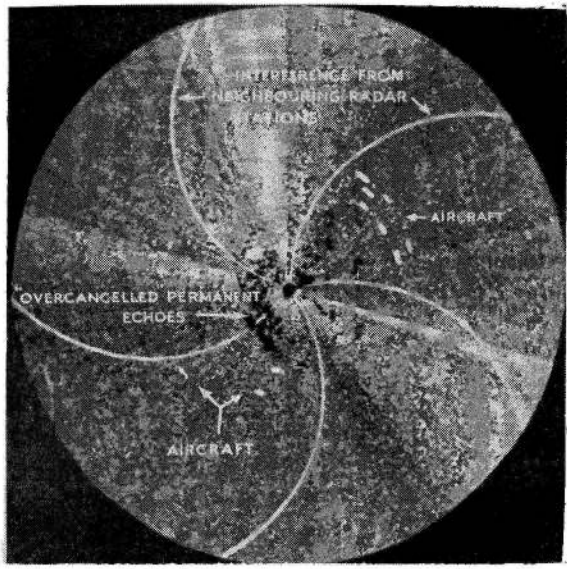
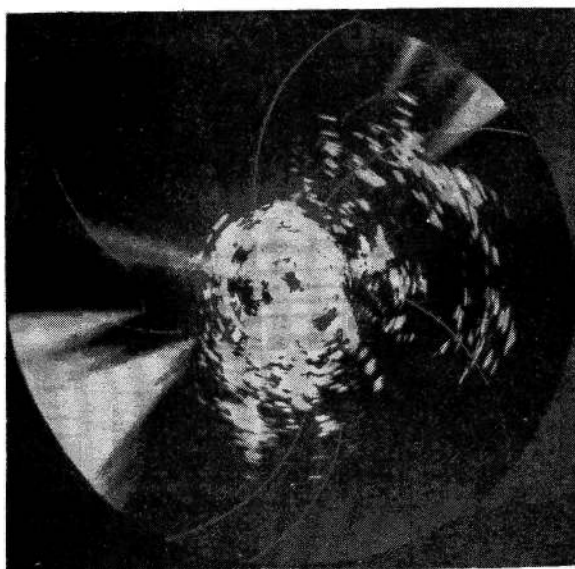


PPI DISPLAYS ON AIRBORNE RADAR MAPPING EQUIPMENT



PPI DISPLAY ON AIRBORNE ASV (ANTI-SURFACE VESSEL) EQUIPMENT

PPI DISPLAY ON GROUND-BASED SEARCH RADAR EQUIPMENT, WITH CLOUD ECHOES INCLUDED



WITHOUT PERMANENT ECHO CANCELLATION

WITH PERMANENT ECHO CANCELLATION

PPI DISPLAYS ON GROUND-BASED SEARCH RADAR EQUIPMENT

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LIST OF CHAPTERS

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the beginning of each chapter.

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