

The JOURNAL of THE INSTITUTE OF NAVIGATION

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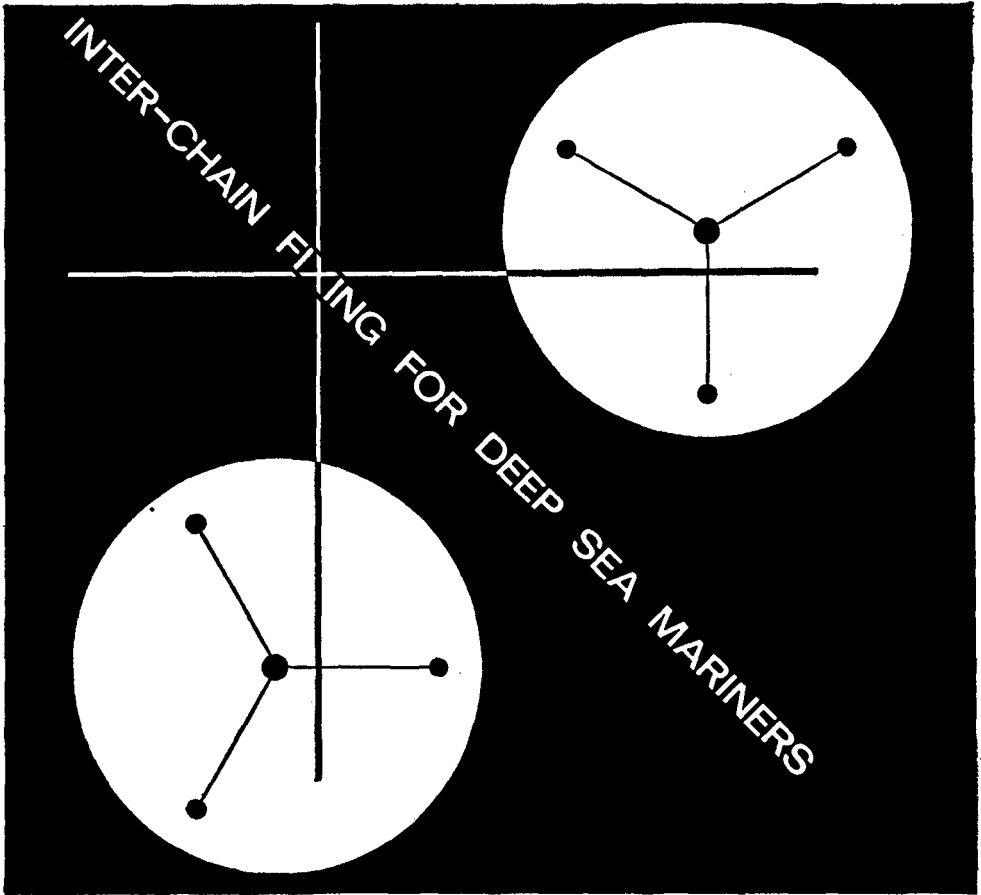
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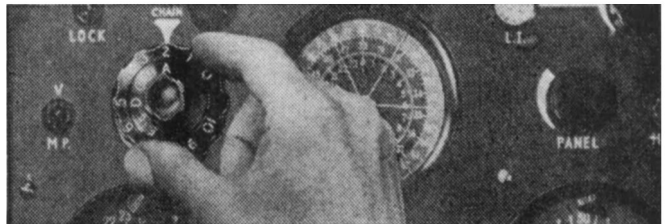
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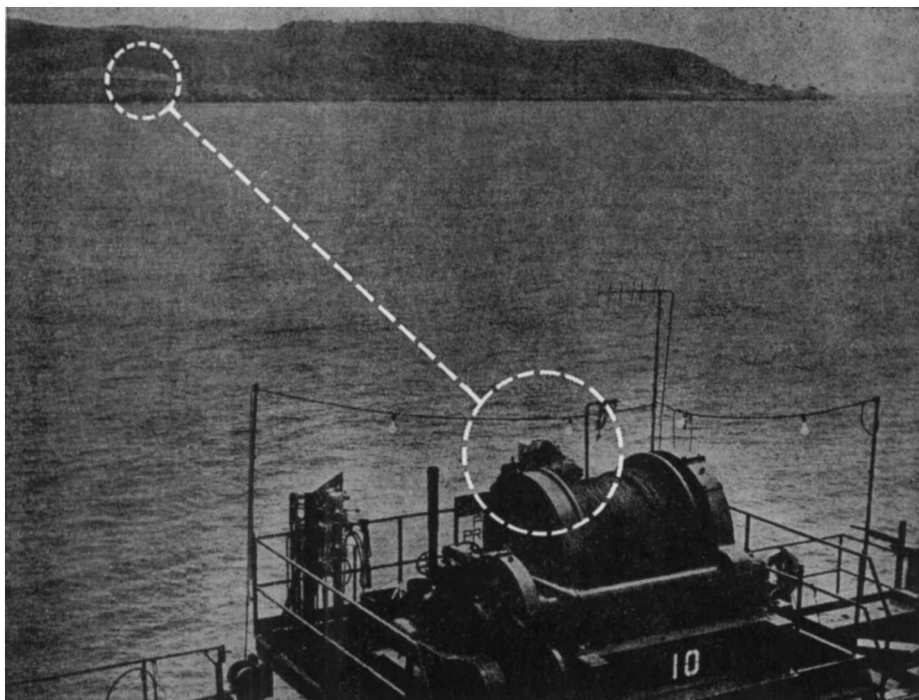
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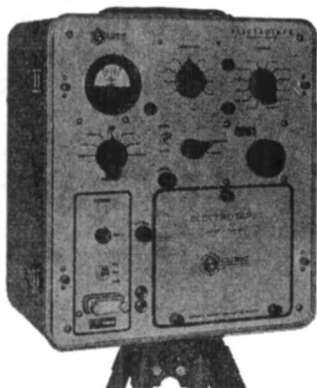
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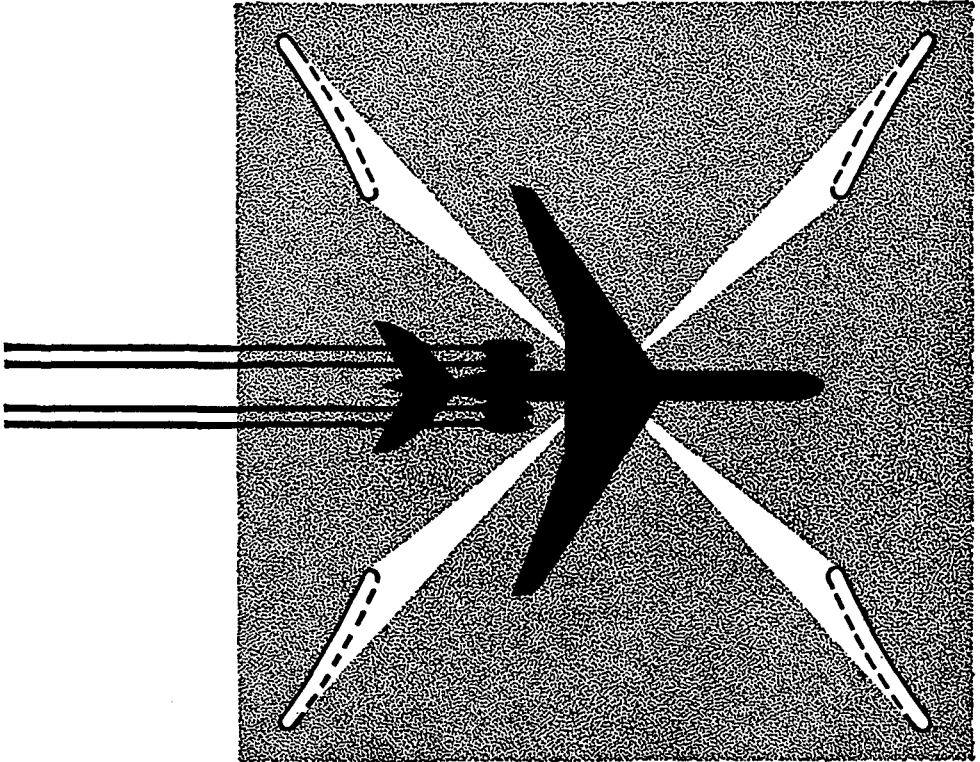
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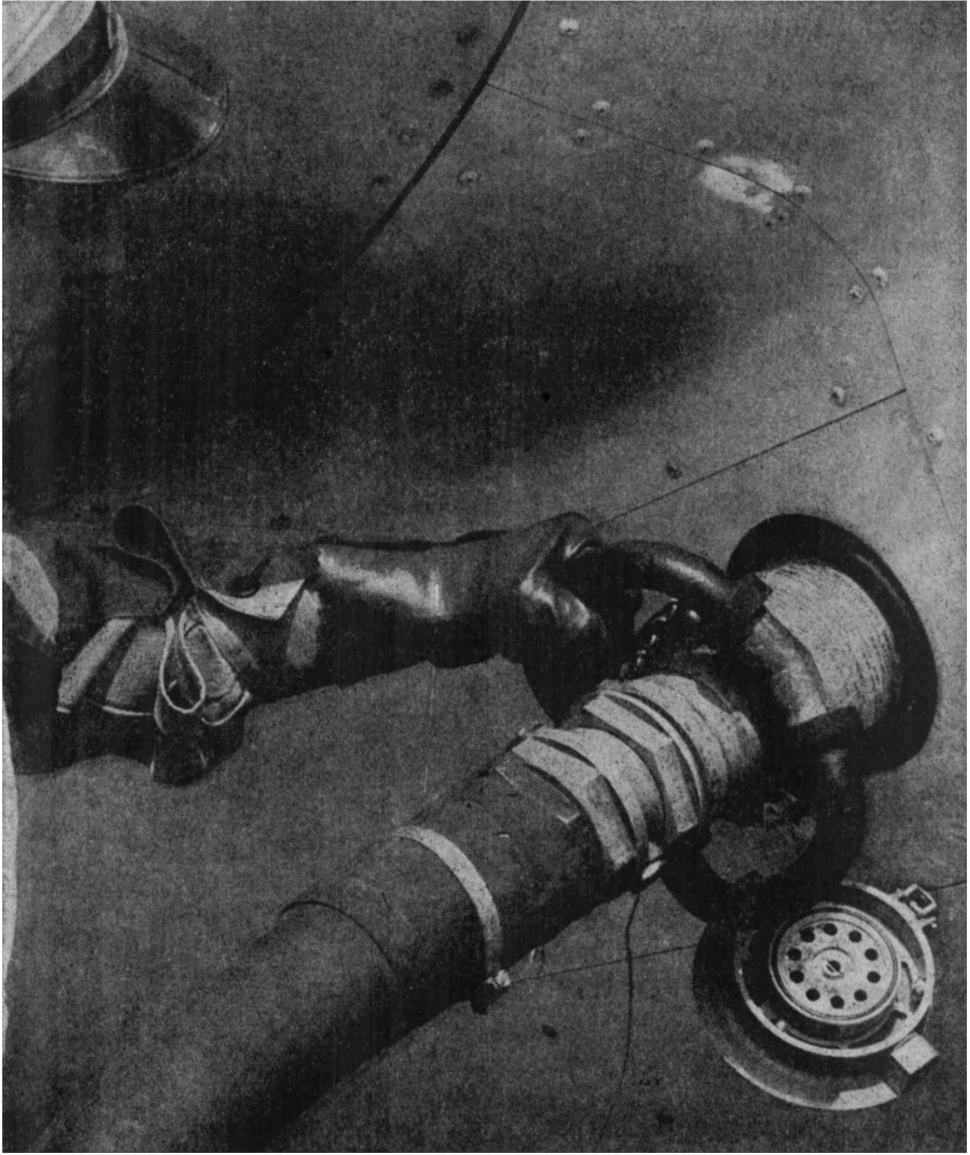


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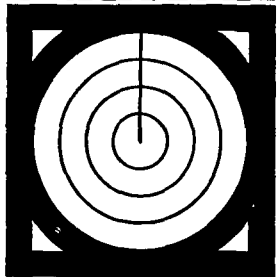


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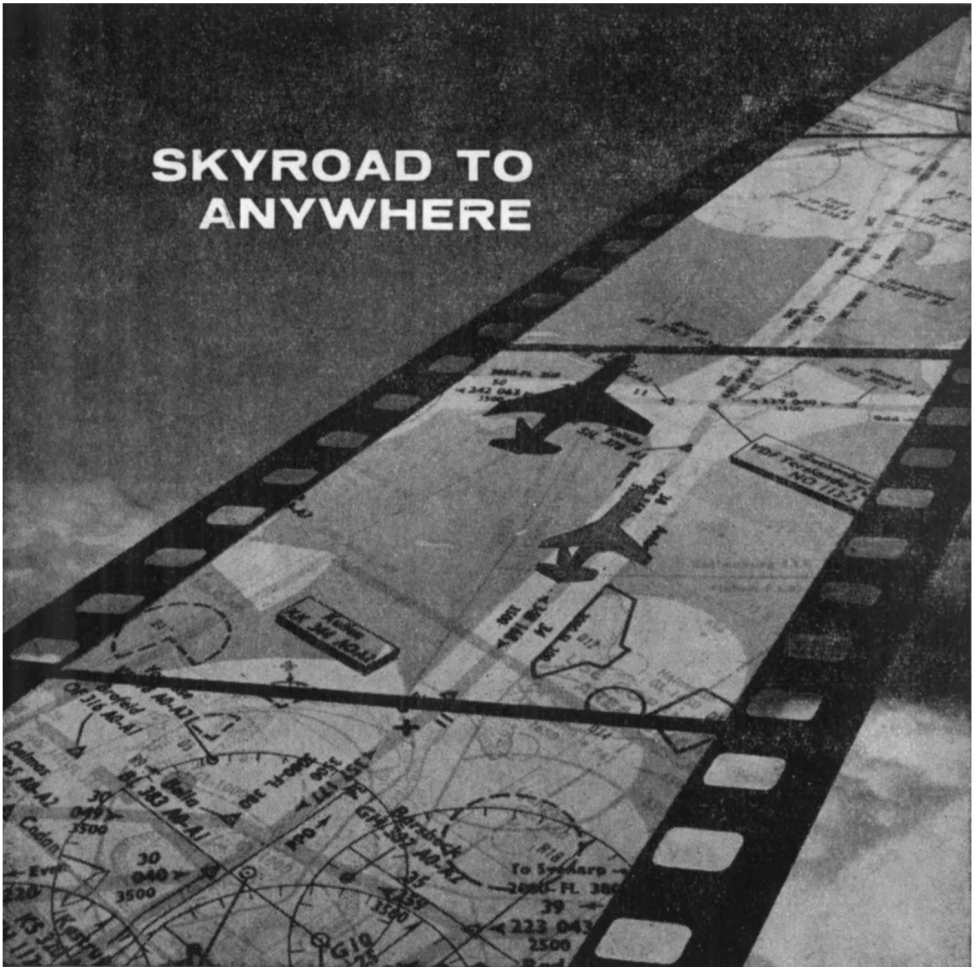
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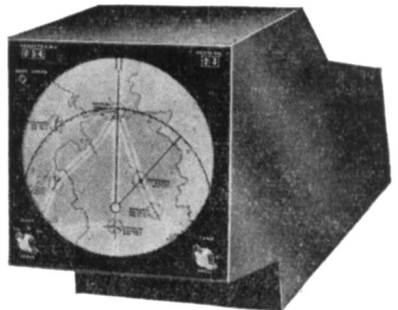
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Navigation, the quarterly Journal of the American Institute of Navigation, is available to members of this Institute at a reduced subscription of £1 a year. Volume 12, No. 1 (Spring 1965), contains the following papers.

NAVIGATION TECHNIQUES USED IN THE *THRESHER* SEARCH
S. J. Knott

THE CURRENT STATE OF THE SCIENCE OF MARINE NAVIGATION
C. M. Jansky, Jr.

THE OMEGA NAVIGATION SYSTEM
E. R. Swanson and M. L. Tibbals

VLF RANGE-RANGE NAVIGATION ERROR CONTOURS
Ronald Braff and Nathaniel Braverman

MARINE COURSE COMPUTER SEA EVALUATION
Karl Burfeindt

AN AUTOMATIC SHIPBOARD DEPTH PLOTTING SYSTEM
W. J. Tyler

THE IMPORTANCE OF THE BASIC MAGNETIC COMPASS IN GENERAL AVIATION
William V. Kielhorn

A METHOD FOR THE EXACT CALCULATION OF SEA AND AIR MINIMUM TIME TRACKS BY MEANS OF A DIGITAL ELECTRONIC PROGRAMMED COMPUTER
Edgar Rössger and Gerhard Ränike

THE INSTITUTE FILE

RADAR WATCHKEEPING

Captain W. D. Moss
With a foreword by
Captain J. H. Quick,
C.B.E.

Practical guide on the safe use of Radar as outlined in Ministry of Transport Notices, Nos. M445 and M463 (Use of Radar and Navigation with Shipborne Radar in reduced visibility).

An entirely new approach towards a clearer understanding of the many problems encountered when using Radar at Sea. These problems are presented in such a way that the watch-keeper will think about them and be better prepared to relate what he sees on a properly adjusted P.P.I. to the safe navigation of his vessel.

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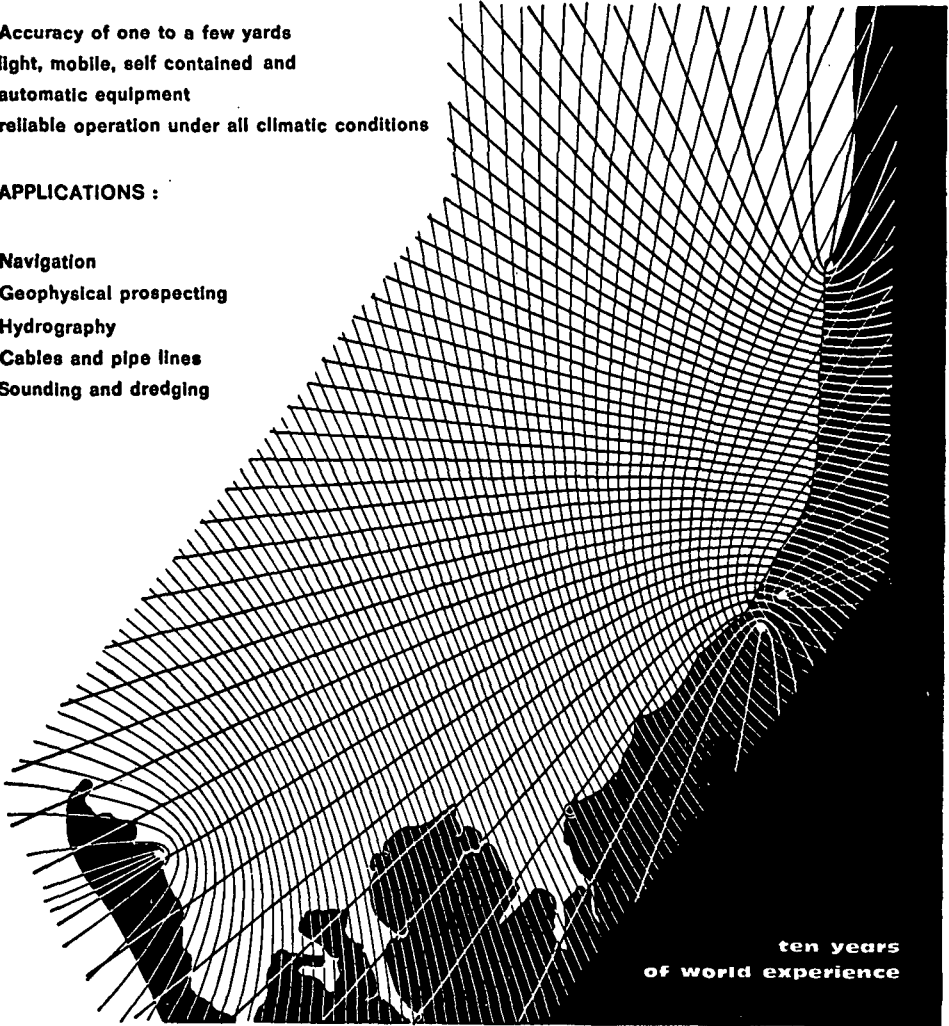
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MEETINGS 1965

Wednesday, 22 September at 5.30 p.m. at the Royal Aeronautical Society

INERTIAL NAVIGATION AS A BASIS FOR ANIMAL NAVIGATION

Dr. J. S. Barlow

Dr. Barlow, of the Neurology Service, Massachusetts General Hospital, examines the ways in which animals may instinctively use inertial navigation. The author writes from the point of view both of a biologist and an engineer.

Wednesday, 20 October at 2.30 p.m. at the Royal Geographical Society

OFF THE BEATEN TRACK

The twelfth in the annual series of lectures for nautical school cadets.

Wednesday, 27 October at 4.30 p.m. at the Royal Geographical Society

ANNUAL GENERAL MEETING DUKE OF EDINBURGH'S LECTURE THE CONTINENTAL DRIFT

Professor P. M. S. Blackett, C.H., F.R.S.

Professor Blackett will present the fourth Duke of Edinburgh's Lecture. In the last two decades the studies of rock magnetism and oceanography have provided fresh evidence in the controversy, first raised by Francis Bacon in the seventeenth century, as to whether the continents of the earth have always been in the same place or have moved. The lecturer, lately Professor of Physics at the Imperial College of Science and Technology, University of London, is now deputy chairman of the Ministry of Technology's newly formed advisory council.

Friday, 19 November at 5.30 p.m. at the Royal Aeronautical Society

MULTI-PURPOSE AIRBORNE RADAR

T. G. Thorne

Mr. Thorne, of the Royal Radar Establishment, suggests additions to the weather radar carried by civil aircraft which would give facilities for terrain clearance, collision avoidance and airfield approach.

Wednesday, 8 December at 3.00 p.m. at the Royal Institution of Naval Architects

THE TRAINING OF NAVIGATORS

A meeting of the Technical Committee, which is open to Members and others on application to the Executive Secretary.

Friday, 17 December at 5.30 p.m. at the Royal Institution of Naval Architects

RECENT NAVIGATIONAL AIDS TO FISHING

R. Bennett

An account by Mr. Bennett, head of the Industrial Development Unit of the White Fish Authority, of recent developments in aids to fishing which may have navigational implications.

The Institute of Navigation

INSTITUTE PUBLICATIONS

The Use of Radar at Sea

A Handbook on Marine Radar. (Hollis & Carter, 45s.)

Observational Errors

An elementary account of the ideas behind the statistical theory of errors, by E. W. Anderson & J. B. Parker. (John Murray, 5s.)

The Geometrical Seaman

An illustrated work on early navigational instruments, by E. G. R. Taylor & M. W. Richey. (Hollis & Carter, 30s.)

The Mathematical Practitioners of Tudor and Stuart England

by E. G. R. Taylor. (Cambridge University Press, 55s.)

An account of the ideas, instruments and methods in navigation and surveying between 1485 and 1715 with lists of the mathematical practitioners with biographical notes and details of their work.

The Mathematical Practitioners of Hanoverian England

by E. G. R. Taylor. (Cambridge University Press, 70s.) *To be published shortly.*

This book, a sequel to the earlier volume, takes the story up to 1840, by which time the independent mathematical practitioner had virtually disappeared, absorbed into the large firm or organization as a consequence of industrial and social change.

Journal Index

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