

New Series.—Vol. X., No. 2—issued June, 1914.

[Price Three Shillings and Sixpence, net.]

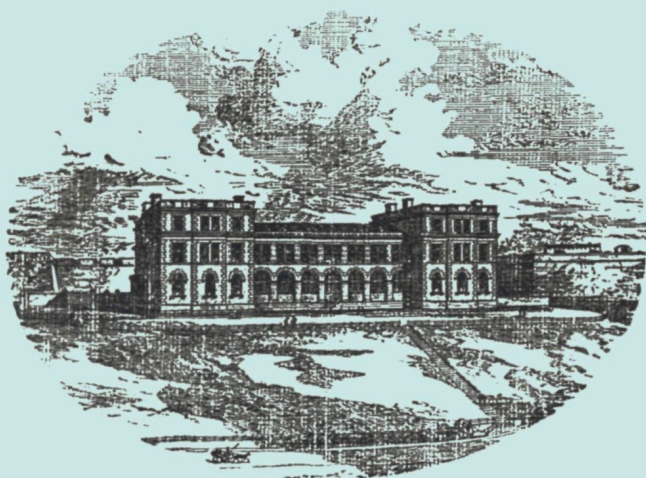
# Journal

OF THE

## MARINE BIOLOGICAL ASSOCIATION

OF

THE UNITED KINGDOM.



THE PLYMOUTH LABORATORY.

PLYMOUTH:

PRINTED FOR THE MARINE BIOLOGICAL ASSOCIATION BY W. BRENDON & SON, LTD.,

AND

PUBLISHED BY THE ASSOCIATION AT ITS OFFICES ON THE CITADEL HILL.

SENT FREE BY POST TO ALL MEMBERS OF THE MARINE BIOLOGICAL ASSOCIATION:

ANNUAL SUBSCRIPTION FOR MEMBERSHIP, ONE GUINEA.

Agents in London:—Messrs. DULAU & Co., LTD., 37 Soho Square, W.

## PATRON.

HIS MAJESTY THE KING.

## OFFICERS AND COUNCIL.

### *President.*

Sir E. RAY LANKESTER, K.C.B., LL.D., F.R.S.

### *Vice-Presidents.*

The Duke of BEDFORD, K.G.

The Earl of DUCIE, F.R.S.

The Earl of STRADBROKE, C.V.O., C.B.

Lord MONTAGU OF BEAULIEU.

Lord WALSINGHAM, F.R.S.

The Right Hon. A. J. BALFOUR, M.P.,  
F.R.S.

The Right Hon. JOSEPH CHAMBER-  
LAIN, M.P.

The Right Hon. AUSTEN CHAMBER-  
LAIN, M.P.

W. ASTOR, Esq., M.P.

G. A. BOULENGER, Esq., F.R.S.

A. R. STEEL-MAITLAND, Esq., M.P.

Rev. Canon NORMAN, D.C.L., F.R.S.

EDWIN WATERHOUSE, Esq.

## COUNCIL.

### **Elected Members.**

E. T. BROWNE, Esq.

L. W. BYRNE, Esq.

Prof. H. J. FLEURE, D.Sc.

Sir EUSTACE GURNEY.

Commander M. W. CAMPBELL-HEP-  
WORTH, C.B., R.N.R.

Prof. J. P. HILL, D.Sc., F.R.S.

E. W. L. HOLT, Esq.

Prof. E. W. MACBRIDE, D.Sc., F.R.S.

H. G. MAURICE, Esq.

Dr. P. CHALMERS MITCHELL, F.R.S.

F. A. POTTS, Esq.

EDGAR SCHUSTER, Esq., D.Sc.

GEOFFREY W. SMITH, Esq.

Prof. D'ARCY W. THOMPSON, C.B.

### **Governors.**

G. P. BIDDER, Esq.

Major-General W. E. BLEWITT, C.B., C.M.G.  
(Prime Warden of the Fishmongers'  
Company).

The Earl of PORTSMOUTH (Fishmongers'  
Company).

Sir RICHARD MARTIN, Bart. (Fish-  
mongers' Company).

The Hon. NATHANIEL CHARLES ROTHS-  
CHILD (Fishmongers' Company).

Prof. G. C. BOURNE, D.Sc., F.R.S. (Ox-  
ford University).

A. E. SHIPLEY, Esq., D.Sc., F.R.S. (Cam-  
bridge University).

Prof. W. A. HERDMAN, D.Sc., F.R.S.  
(British Association).

### *Chairman of Council.*

A. E. SHIPLEY, Esq., D.Sc., F.R.S.

### *Hon. Treasurer.*

J. A. TRAVERS, Esq., Tortington, Arundel.

### *Hon. Secretary.*

E. J. ALLEN, Esq., D.Sc., F.R.S., The Laboratory, Citadel Hill, Plymouth.

## PERMANENT STAFF.

*Director*—E. J. ALLEN, Esq., D.Sc., F.R.S.

*Hydrographer*—D. J. MATTHEWS, Esq.

*Naturalists*—L. R. CRAWSHAY, Esq., M.A.

E. W. NELSON, Esq.

J. H. ORTON, Esq., B.Sc.

R. S. CLARK, Esq., M.A., B.Sc.

*Assistant Naturalist*—E. FORD, Esq., A.R.C.Sc.