

New Series.—Vol. VI., No. 3—issued January, 1902.]

[Price 3s. 6d.

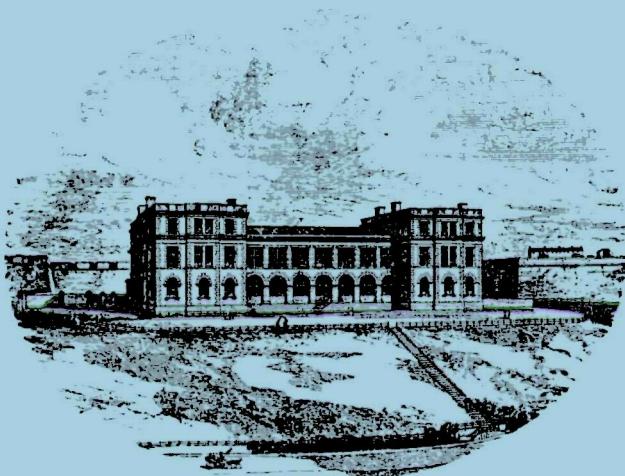
# Journal

OF THE

## MARINE BIOLOGICAL ASSOCIATION

OF

### THE UNITED KINGDOM.



THE PLYMOUTH LABORATORY.

#### PLYMOUTH:

PRINTED FOR THE MARINE BIOLOGICAL ASSOCIATION BY W. BRENDON & SON,  
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., 37, Soho Square, W.

**PATRON.**  
**HIS MAJESTY THE KING.**

**OFFICERS AND COUNCIL.**

*President.*

Prof. E. RAY LANKESTER, LL.D., F.R.S.

*Vice-Presidents.*

The Duke of ABERCORN, K.G., C.B.

The Earl of ST. GERMAN'S.

The Earl of MORLEY.

The Earl of DUCIE, F.R.S.

Lord AVEBURY, F.R.S.

Lord TWEEDMOUTH.

Lord WALSHAM, F.R.S.

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

Sir EDWARD BIRKBECK, Bart.

The Right Hon. JOSEPH CHAMBERLAIN, M.P.

Sir MICHAEL FOSTER, K.C.B., M.P., F.R.S.

A. C. L. GÜNTHER, Esq., F.R.S.

Sir JOHN MURRAY, K.C.B., F.R.S.

Prof. ALFRED NEWTON, F.R.S.

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

Sir HENRY THOMPSON, Bart.

Rear-Admiral Sir W. J. L. WHARTON,  
K.C.B., F.R.S.

**COUNCIL**

**Elected Members.**

Prof. F. JEFFREY BELL.

G. P. BIDDER, Esq.

G. C. BOURNE, Esq., F.L.S.

FRANCIS DARWIN, Esq., F.R.S.

G. HERBERT FOWLER, Esq.

S. F. HARMER, Esq., F.R.S.

Prof. W. A. HERDMAN, F.R.S.

Prof. G. B. HOWES, F.R.S.

J. J. LISTER, Esq., F.R.S.

Prof. E. A. MINCHIN.

D. H. SCOTT, Esq., F.R.S.

Prof. CHARLES STEWART, F.R.S.

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

Prof. W. F. R. WELDON, F.R.S.

**Governors.**

J. P. THOMASSON, Esq.

The PRIME WARDEN OF THE FISH-MONGERS' COMPANY.

E. L. BECKWITH, Esq. (Fishmongers' Company).

Prof. SIR J. BURDON SANDERSON, Bart.,  
F.R.S. (Oxford University).

A. E. SHIPLEY, Esq. (Cambridge  
University).

Prof. W. F. R. WELDON, F.R.S.  
(British Association for the Advancement of Science).

*Hon. Treasurer.*

J. A. TRAVERS, Esq., Field Place, Horsham.

*Hon. Secretary.*

E. J. ALLEN, Esq., The Laboratory, Citadel Hill, Plymouth.

**PERMANENT STAFF.**

*Director*—E. J. ALLEN, Esq., D.Sc.

*Naturalist in charge of Fishery Investigations.*

W. GARSTANG, Esq., M.A.

*Naturalist*—H. M. KYLE, Esq., M.A., D.Sc.

*Director's Assistant*—R. A. TODD, Esq., B.Sc.

# EXMOUTH ESTUARY.

0 5 10 CABLES.

SCALE OF 1 SEA MILE.

STATIONS - (18)

SOUNDINGS IN FEET.

