SURVEYING VESSELS

NORWAY.

The Norwegian Hydrographer has kindly caused the attached photographs of the surveying vessels of Norway to be forwarded to the International Hydrographic Bureau.

The first represents the *Hydrograf*, which vessel is similar to the *Wilhelm Huth* of the same type.

Displacement	98 tons.
Length	22 m. (72 ft.).
Breadth	4.60 m. (15 ft.).
Draft	2.40 m. (8 ft.).
Engines.....	125 h.p.

The second photograph represents the Motor Vessel *Röst* engaged in towing one of the tenders used as accommodation vessels for detached parties.

The dimensions of the *Röst* are as follows :

Length	18.30 m. (60 ft.).
Breadth	3.66 m. (11.7 ft.).
Paraffin oil motor	40 h.p.

COMMONWEALTH OF AUSTRALIA.

For surveys in Australian waters the Commonwealth of Australia employs H.M. Australian Surveying Vessel *Moresby*, a photograph of which is reproduced herewith.

The Australian Surveying Vessel *Moresby* (formerly H.M.S. *Silvio*) has been lent to the Australian Navy by the British Admiralty. The *Moresby* was so named after the late Admiral John MORESBY, the discoverer of Port Moresby, New Guinea. She was fitted as an up-to-date Surveying Ship in 1925 before leaving England for Australia, and is a sister ship of H.M.S. *Herald* and *Ormonde*. All the latest surveying appliances are carried and the two chart rooms are commodious and well lighted.

Displacement : 1650 tons.

Builders : BARCLAY, CURLE & Co., Whiteinch, Glasgow, 1918.

Length overall : 267 ft. 6 in. ; length between perpendiculars : 258 ft. ; extreme breadth : 34 ft. 10 in.

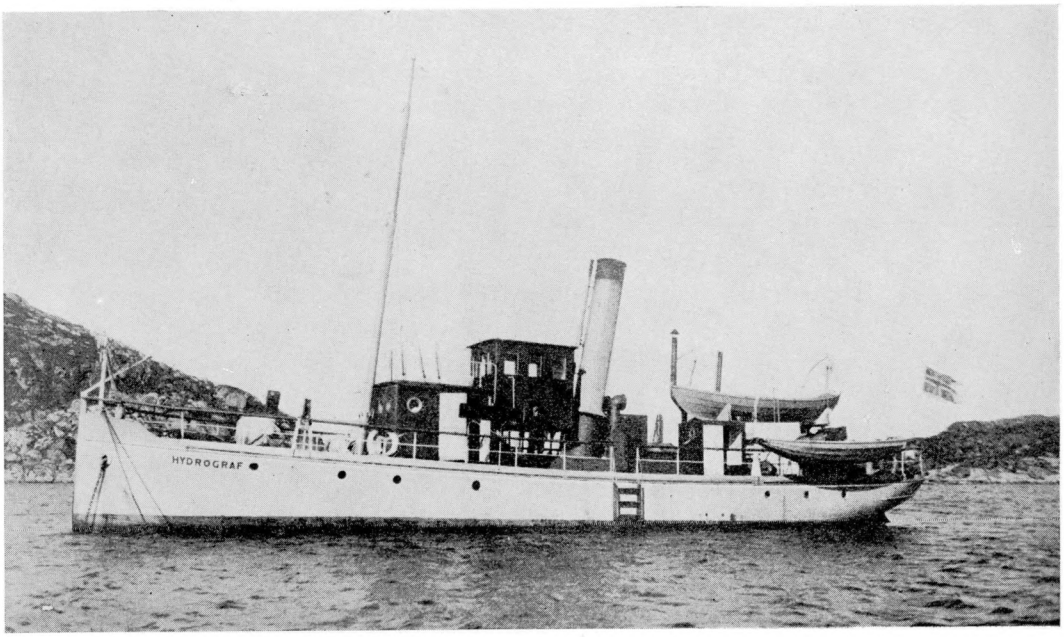
Power of engine : 2,500 h.p.

Fuel carried : Coal, 266 tons.

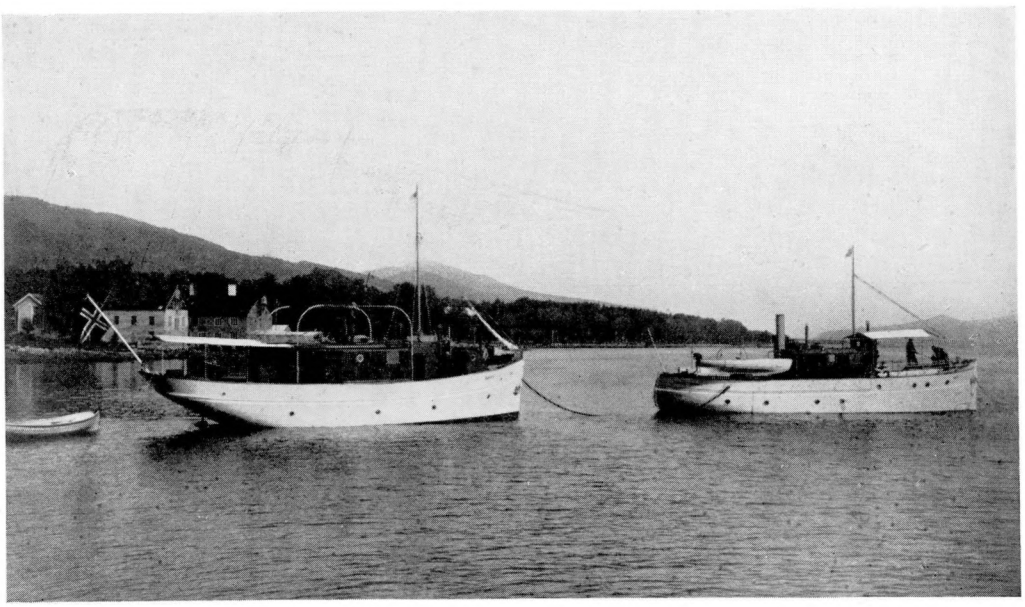
Full speed : 15 ½ knots ; economical speed : 10 ½ knots ; steaming radius at economic speed : (no figure available).

Officers : 6 ; Petty Officers and Leading Seamen : 5 ; Civil technical staff : Nil.

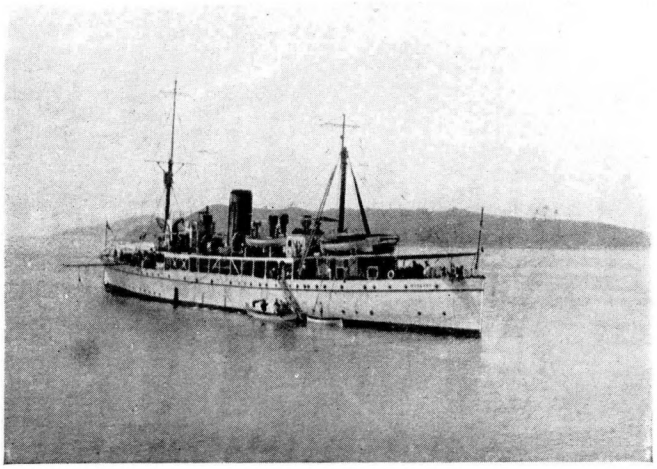
Crew : 138.



Hydrograf.

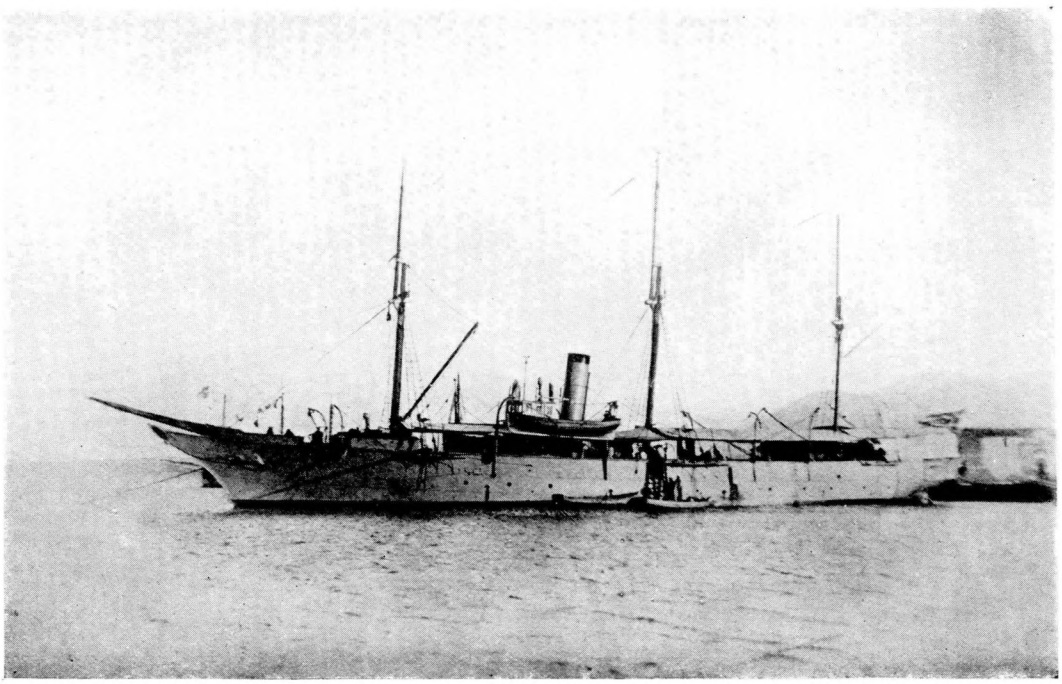


M. V. Röst *towing tender* — *Navire à moteur* Röst *remorquant une annexe*



H. M. A. S. Moresby.

GREECE — *GRÈCE*



Nautilus.

3 Surveying motor boats :
Two of : 28 ft. × 8 ft. 4 in. × 4 ft. 1 in.
One of : 25 ft. × 7 ft. 2 in. × 4 ft. 2 in.
1 Cutter : 30 ft. × 8 ft. 3 in. × 3 ft. 3 in. for ship's duties and transport of crew.
3 Whalers : 27 ft. × 6 ft. 0 in. × 2 ft. 5 in.
3 Dinghies :
Two of : 16 ft. × 5 ft. 3 in. × 2 ft. 5 in. } fitted to take outboard motors
One of : 16 ft. × 5 ft. 4 ½ in. × 2 ft. 5 in. } and for transport.
The ship is fitted with echo sounding gear.

GREECE.

The accompanying photograph is of the Greek Surveying Vessel *Nautilus* the principal characteristics of which are as follows :

(*a*) Displacement : 404 tons.
(*b*) Where and when built : BLACKWALL, London, 1884.
(*c*) Dimensions : 130 ft. × 25 ft. × 13 ft.
(*d*) Power of engines : 420 h.p.
(*e*) Amount and description of fuel carried : 55 tons, coal.
(*f*) Full speed : 9 knots ; economical speed : 7 ; steaming radius : 1100 miles.
(*g*) Number of officers carried, trained for surveying duties : 4 (maximum) ; Petty Officers and Leading Seamen : 6 (maximum) ; Technical civilians carried : None.
(*h*) Total number of crew : 45.
(*i*) Number of boats carried : 4 boats of the usual type, 1 large, 2 medium-sized and 1 small.
(*j*) Special surveying fittings and appliances :
(1) Screen for meteorological instruments ;
(2) 3 mechanical sounding appliances ;
(3) Special lockers to contain various hydrographic instruments ;
(4) 2 sounding posts at the foremast and 2 others at the mizzen mast for sounding and the handling of the shapes indicating the moment of sounding.

By means of certain alterations it has been possible to instal a drafting room for plotting results.