

Indian Ocean Survey Programme for  
H.M. Surveying Ship OWEN,  
1961-62

Attached as Appendix I is Hydrographer's proposed programme for H.M.S. OWEN during her 1961-62 Survey Season in the Indian Ocean.

2. The Scientific Work to be carried out during this season has been discussed with the various interested parties and agreed in principle.
3. It should be borne in mind that this is the first of five seasons' work covering the Indian Ocean Expedition period and Oceanographers and others should consider what their requirements are for future seasons and submit these to Hydrographer for discussion at an early date.
4. OWEN's Survey programme, in general, is expected to cover the following areas of interest over the five year period:-
  - (a) Kenya Banks and North Kenya Coast
  - (b) Seychelles Group of Islands generally
  - (c) Mauritius and Chagos groups of Islands.

In the case of (b) and (c) above work will be carried out only in those Islands under British control.

Hydrographer can arrange her programme to make maximum use of her in scientific directions.

5. It will be noted on the attached sketch track chart that a track for DALRYMPLE is also shown to her current Survey Area in the Persian Gulf.
6. The Scientific programme already arranged for OWEN, and which does not allow for deviations from the Programme laid down in Appendix I, is as follows. She will accommodate a maximum of 4 Scientific Personnel and these are expected to come from N.I.O. and the Department of Geodesy and Geophysics at Cambridge. She will operate continually along the tracks shown:-
  - (1) Ship borne Gravimeter
  - (2) Proton Magnetometer
  - (3) Precision Depth Recorder
  - (4) Deep Bathythermograph
  - (5) Continuous Reading Sea Surface Thermograph
  - (6) Water Samples for Salinity determination
  - (7) Standard 6 hourly Meteorological observations.

In addition to the above the following activities will probably be carried out at the atolls visited and/or in the Survey areas at Seychelles and Kenya Banks:-

- (1) Gravimeter Surveys (Underway)
- (2) Gravity Surveys (Ashore)
- (3) Magnetic Surveys (Ashore)

7. DALRYMPLE will carry out Magnetometer Surveys and may do some coring. OWEN will not take any deep cores as far as can be foreseen.

8. The following Scientific Bodies are already committed to participation in this Season's work:-

Department of Geodesy and Geophysics, Cambridge.

National Institute of Oceanography, Wormley.

Fisheries Laboratory, Lowestoft. (Equipment only and Analysis)

Imperial College of Science & Technology, London.

(Possibly Shore Gravimetry and possibly cores from DALRYMPLE).

HYDROGRAPHER.



Appendix I

Indian Ocean Programme for H.M. Surveying Ship OWEN  
1961/62 Season

1961

September 14th.	Sail U.K.
October 9th	Sail Aden. Having called at Gibraltar and Aden on passage.
" 21st.	Arrive Formosa Bay. Having set up a tide gauge (Kenya) Survey Area. at Mikindani on passage.
" 31st.	Arrive Mombasa. After putting <sup>in</sup> hand the Kenya Banks Survey and left a camp in Formosa Bay.
November 3rd.	Sail Mombasa.
" 14th	Arrive Karachi
" 16th	Sail Karachi
" 24th	Arrive Seychelles to erect Tide Gauges and 2 Range Decca Stations and prepare for Hydrographic Survey.
December 4th	Sail Seychelles
" 8th	Arrive Mombasa
" 11th	Sail Mombasa to resume work in Kenya Banks Area.
" 22nd	Arrive Mombasa Having withdrawn from Kenya Banks area for this season.
	Christmas Period in Mombasa.
" 28th	Sail Mombasa
" 31st	Arrive Farquhar Is. Set up T.G. and carry out (Seychelles Group) minor Survey.

1962

January 2nd	Sail Farquhar Is.
" 3rd	Arrive Agelegas. As for Farquhar.
" 5th	Sail Agelegas
" 13th	Arrive Mombay
" 15th	Sail Mombay
" 23rd	Arrive Addu Atoll.
" 30th	Sail Addu Atoll.

/February 5th