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**Atlas of Maritime Boundary Delimitation of the Kingdom of Saudi Arabia
A Study in Political Geography**

Faraj Mobarak Jam'an Al-Muwaled

**Thesis submitted for the Degree of Doctor of Philosophy
in Social Science in the Department of Geography,
Faculty of Social Sciences, University of Durham, U.K.**

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July 1993



- 4 FEB 1994

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Chapter 2 Keys

THE MATCHING PAIRS OF ORIGINAL AND PLAIN MAPS

Original Maps		Plain Maps "Thesis Figures"
Ports Authority Numbers	Thesis Figures	
12	2.10	2.28
13	2.11	2.29
14	2.12	2.30
15	2.13	2.31
16	2.15	2.32
17	2.16	2.33
18	2.17	2.34
19	2.18	2.35
20	2.19	2.36
21	2.20	2.37
22	2.21	2.38
23	2.22	2.39
24	2.23	2.40
25	2.24	2.41
26	2.25	2.42
27	2.26	2.43

Chapter 2 Keys

Original Maps (Figures 10 to 26)	Plain Maps (Figures 28 to 47)
 Saudi 1958 SB*	 Theoretical SB Based on the 1982 Convention
 The 12 nm TS	 The 12 nm TS
	 Saudi 1958 SB*
	 The 12 nm TS

* Saudi Arabia 1958 Straight Baselines

ABBREVIATIONS


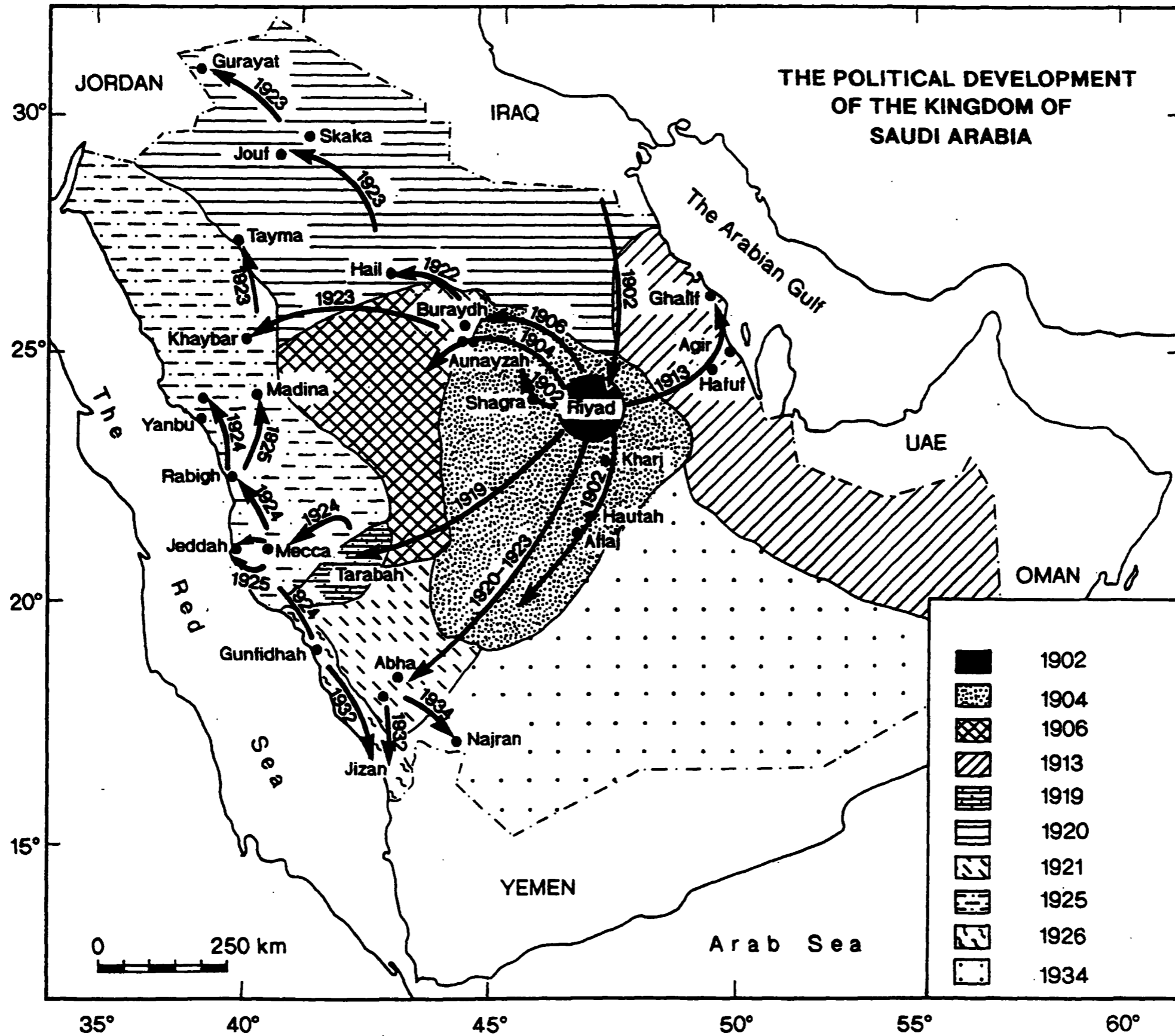
SB	Straight Baselines
TS	Territorial Sea Limits
L.H.	Lighthouses
	Reef

Figure 1.1



Adapted from Bindagji, 1978

Figure 2.1

a) Shi'b Al-Kabir at High Tide



b) A close view to Shi'b Al-Kabir



The pictures taken by the author in a field work visit

c) Another close view to the Shi'b



d) The eastern part of the Shi'b



Figure 2.2

THE WATERS OF THE BAYS ALONG THE COAST
OF THE KINGDOM OF SAUDI ARABIA

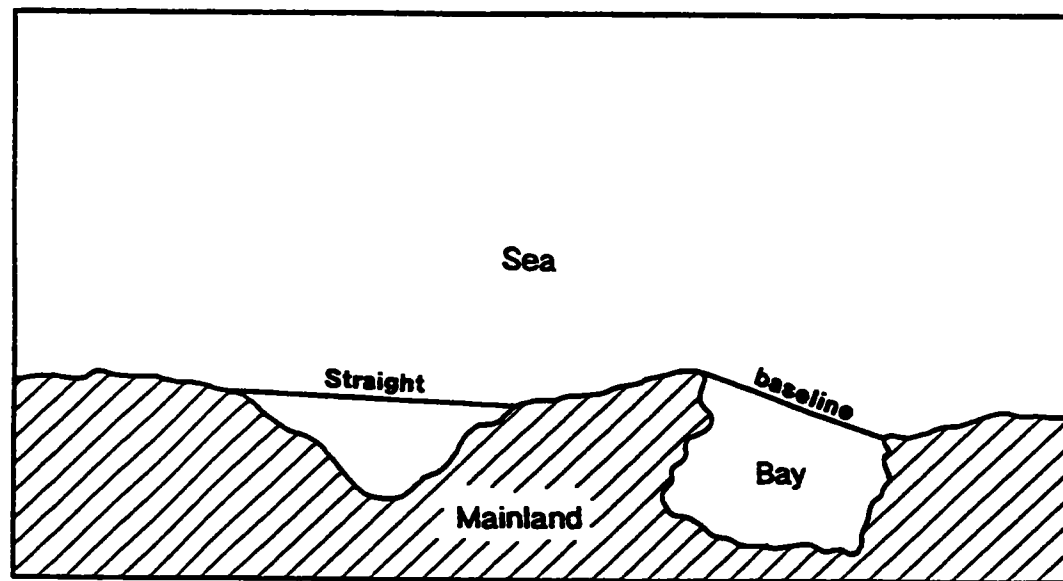


Figure 2.3(a)

THE WATERS ABOVE AND LANDWARD OF ANY SHOAL
NOT MORE THAN 12 NM FROM THE MAINLAND

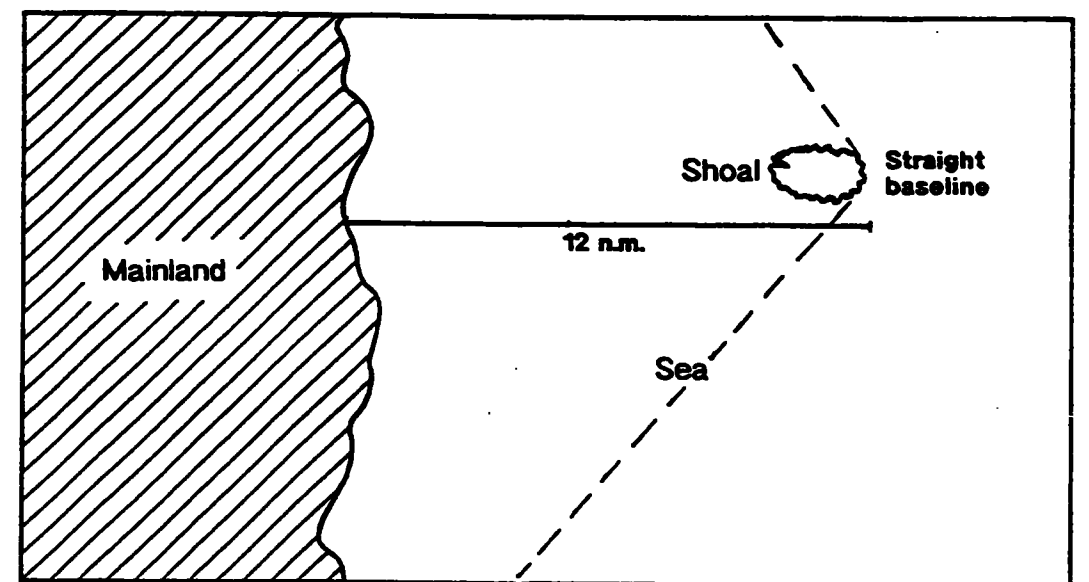


Figure 2.3(b)

THE WATERS ABOVE AND LANDWARD FROM ANY SHOAL
NOT MORE THAN 12 NM FROM A SAUDI ISLAND

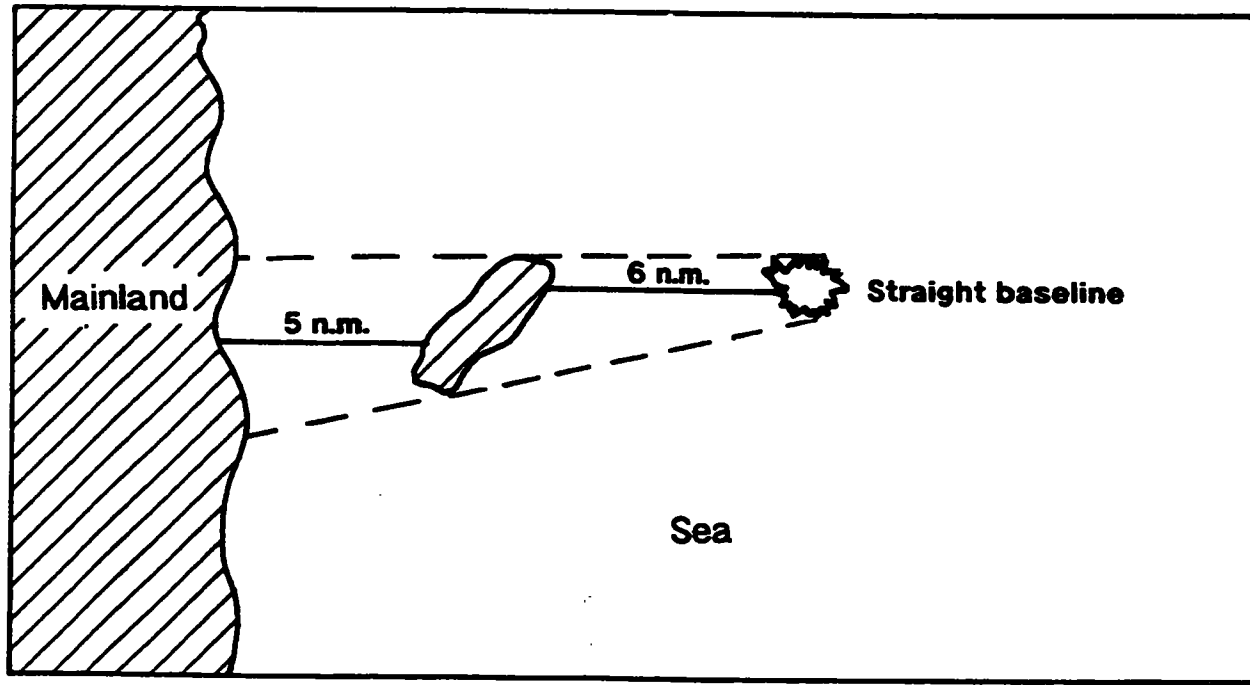


Figure 2.4

PORT CONFRONTS THE OPEN SEA: LINES SHOWN ALONG THE
SEAWARD SIDE OF THE OUTERMOST WORKS OF THE PORT

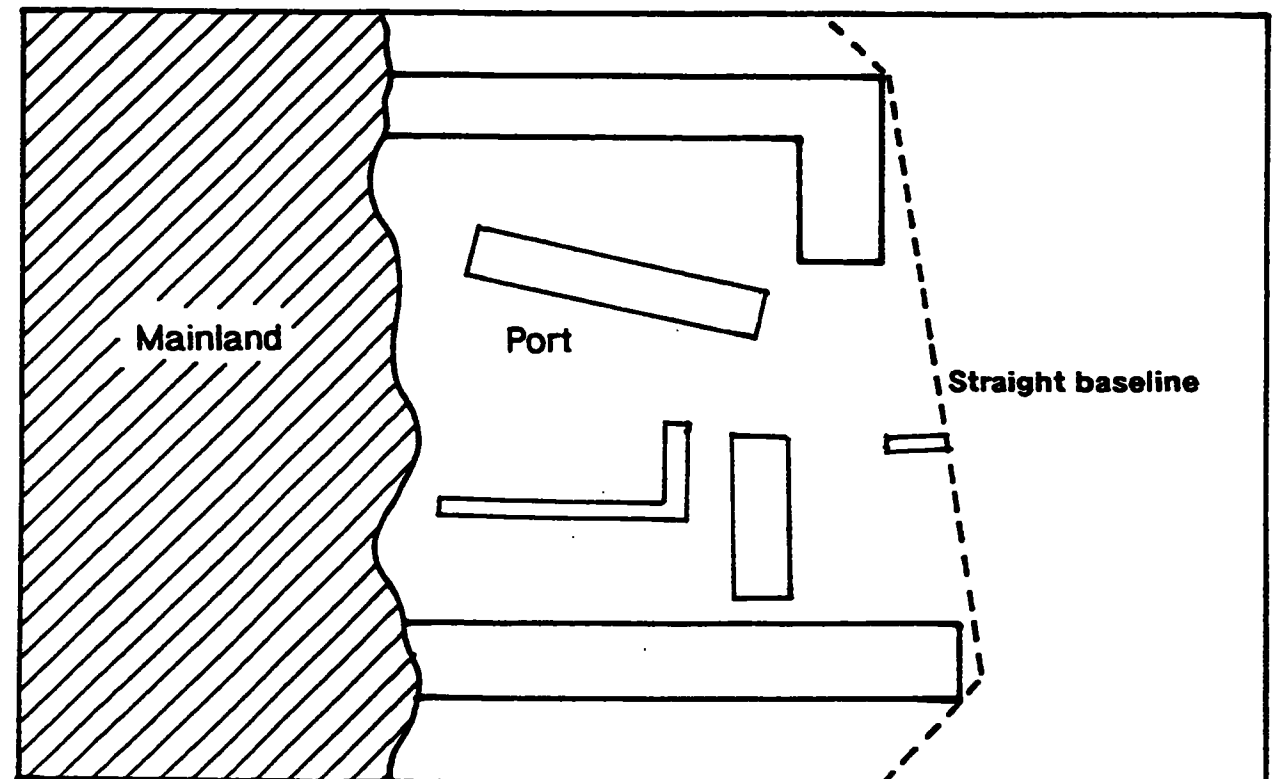


Figure 2.5

THE WATERS BETWEEN THE MAINLAND AND A SAUDI ISLAND NOT MORE THAN 12 NM FROM THE MAINLAND

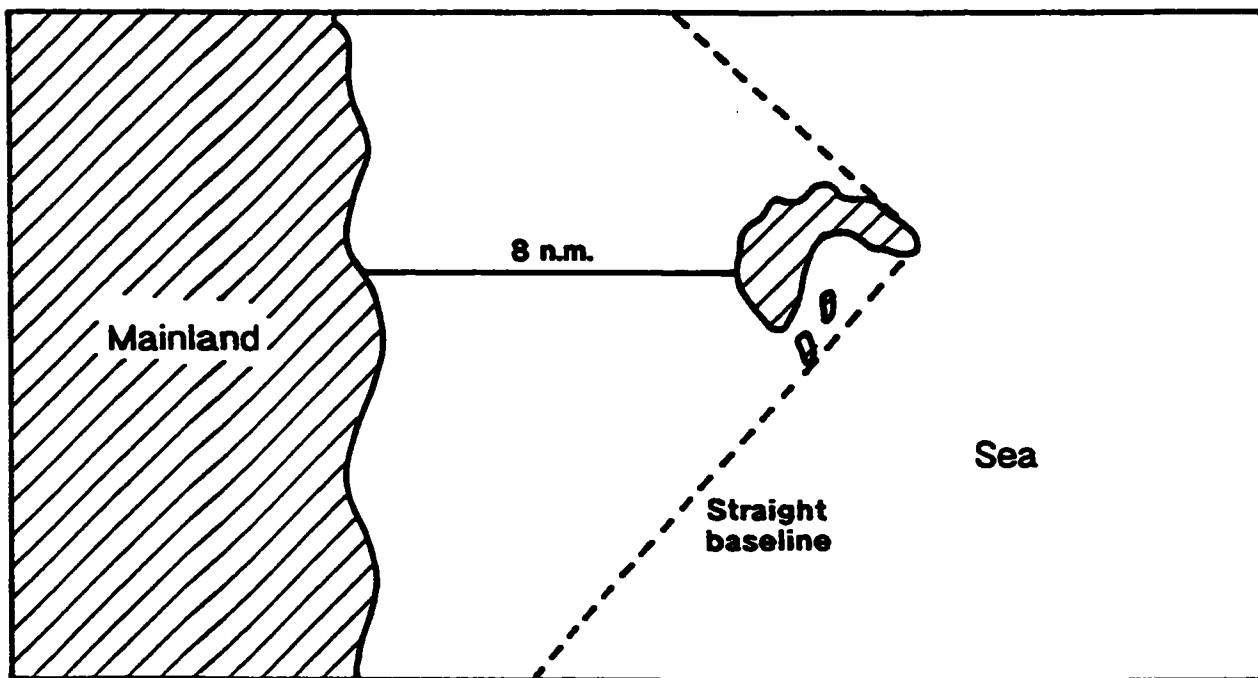


Figure 2.6

GROUP OF ISLANDS CONNECTED BY LINES NOT MORE THAN 12 NM LONG AND THE NEAREST ISLAND IS NOT MORE THAN 12 NM FROM THE MAINLAND

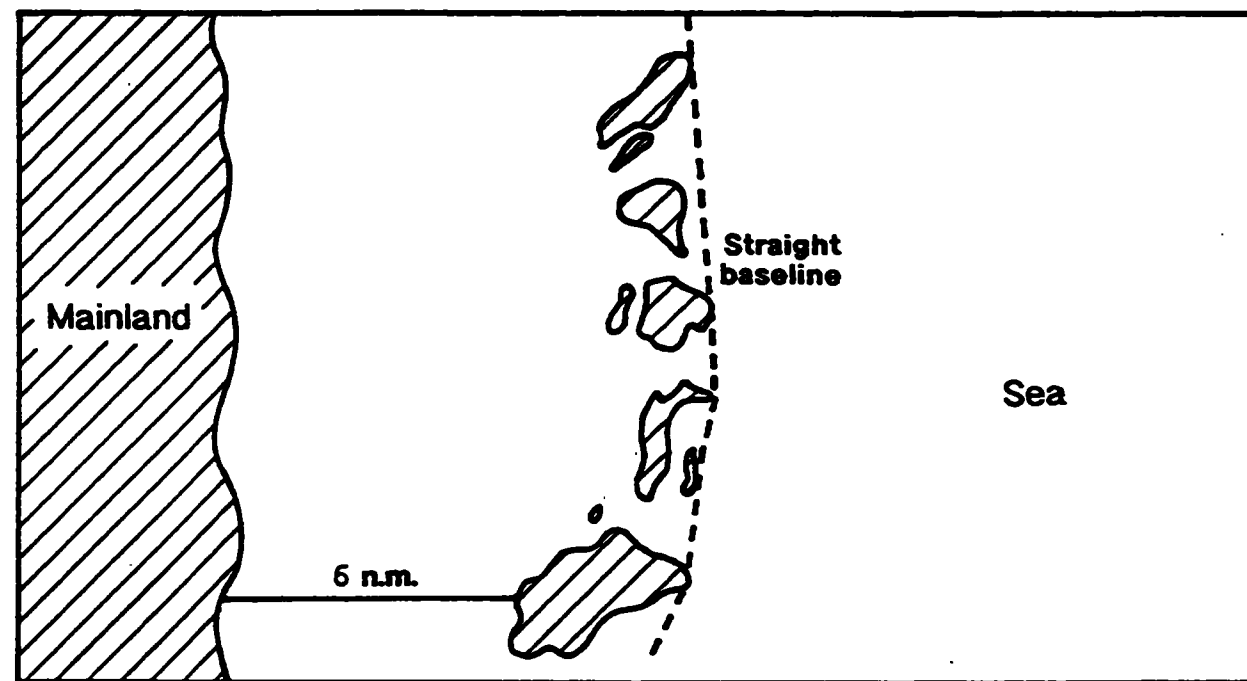


Figure 2.7

THE WATERS BETWEEN SAUDI ISLANDS
NOT FURTHER APART THAN 12 NM

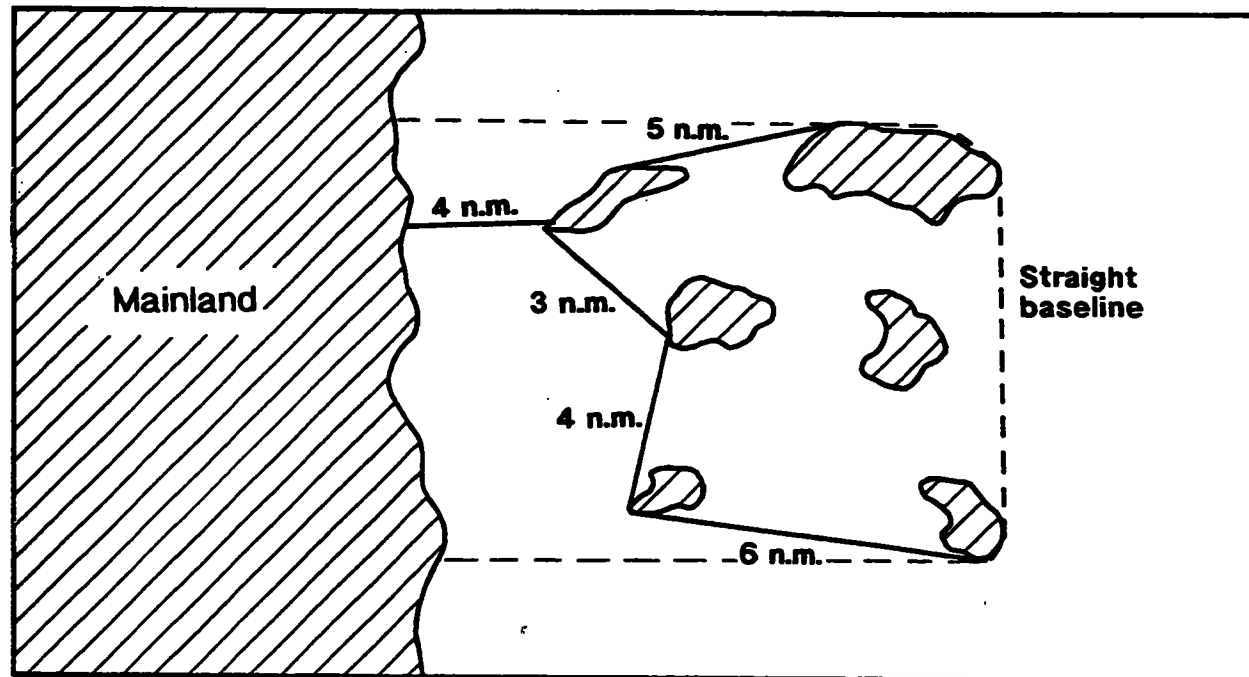


Figure 2.8

GROUP OF ISLANDS CONNECTED BY
LINES NOT MORE THAN 12 NM LONG

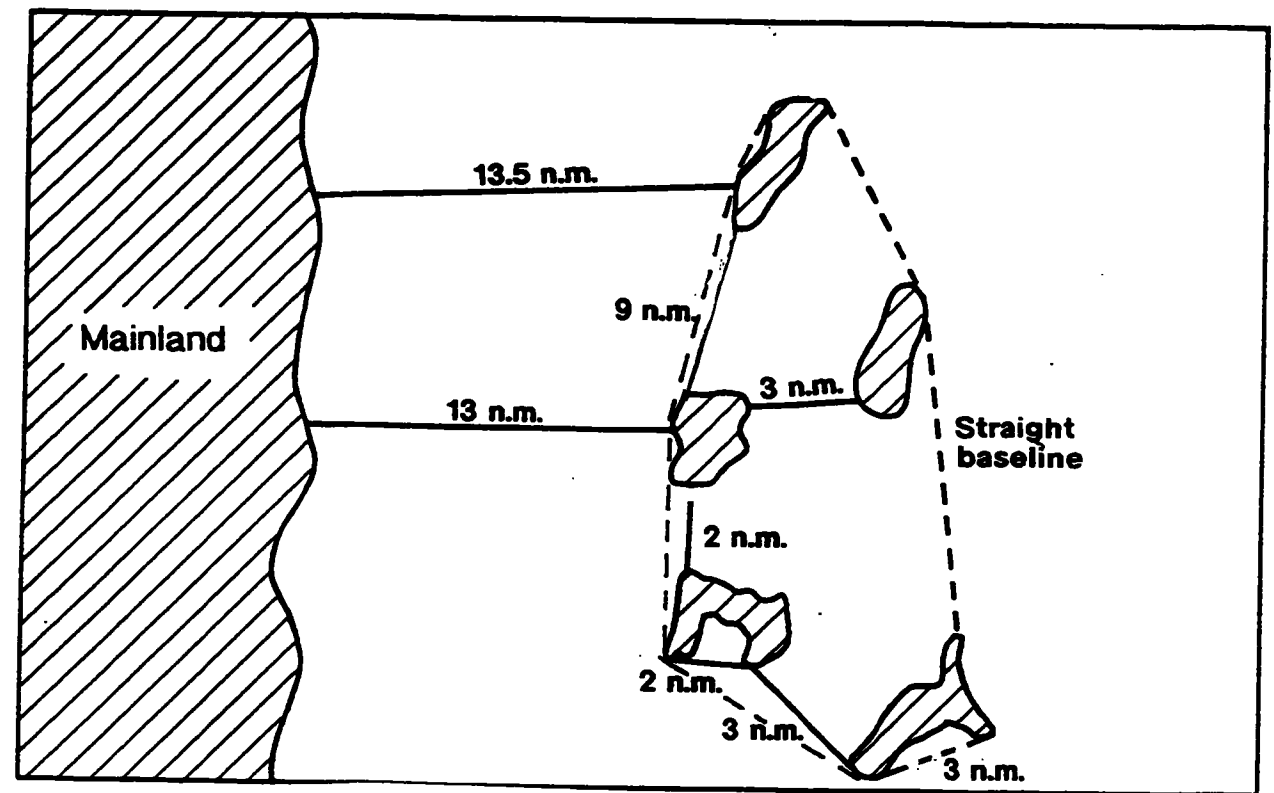


Figure 2.9

AN AREA OF HIGH SEA WHOLLY SURROUNDED BY THE TERRITORIAL SEA WHICH EXTENDS NOT MORE THAN 12 NM IN ANY DIRECTION

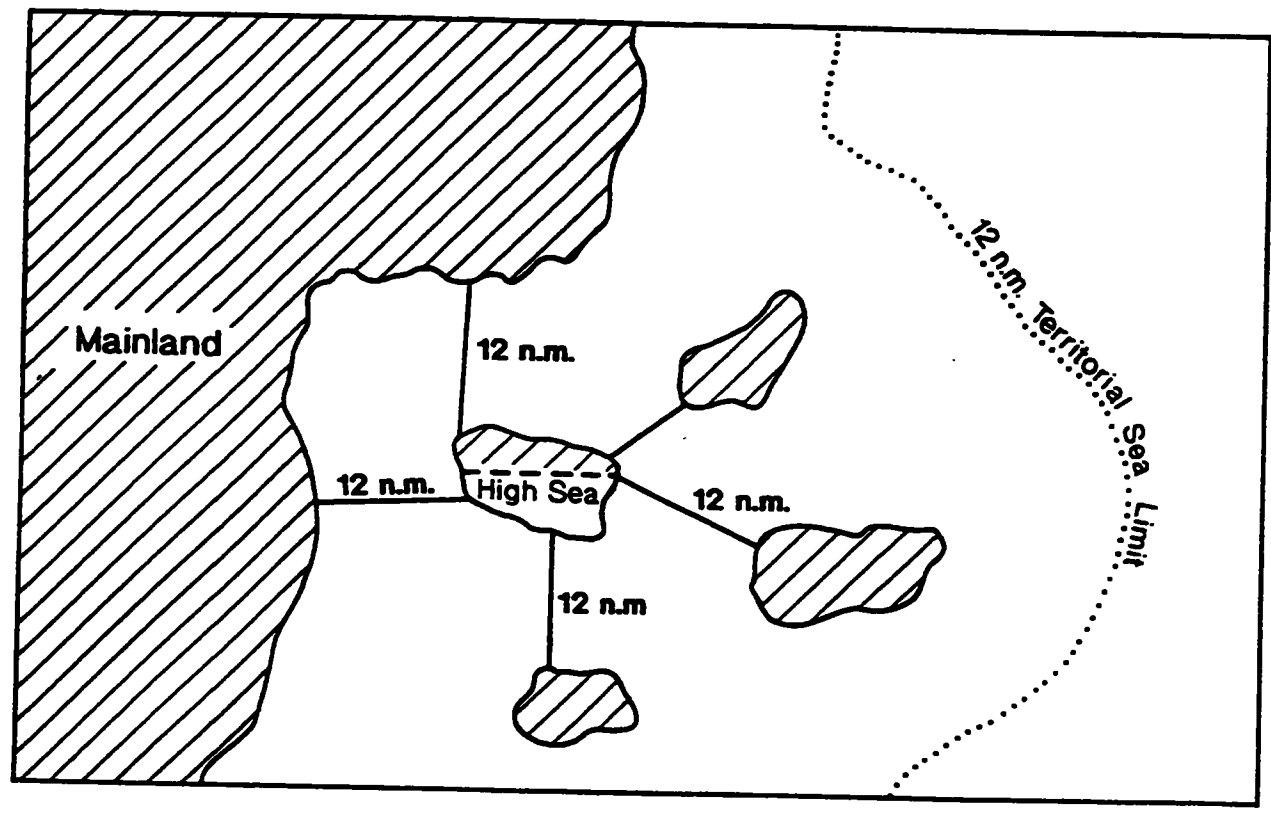
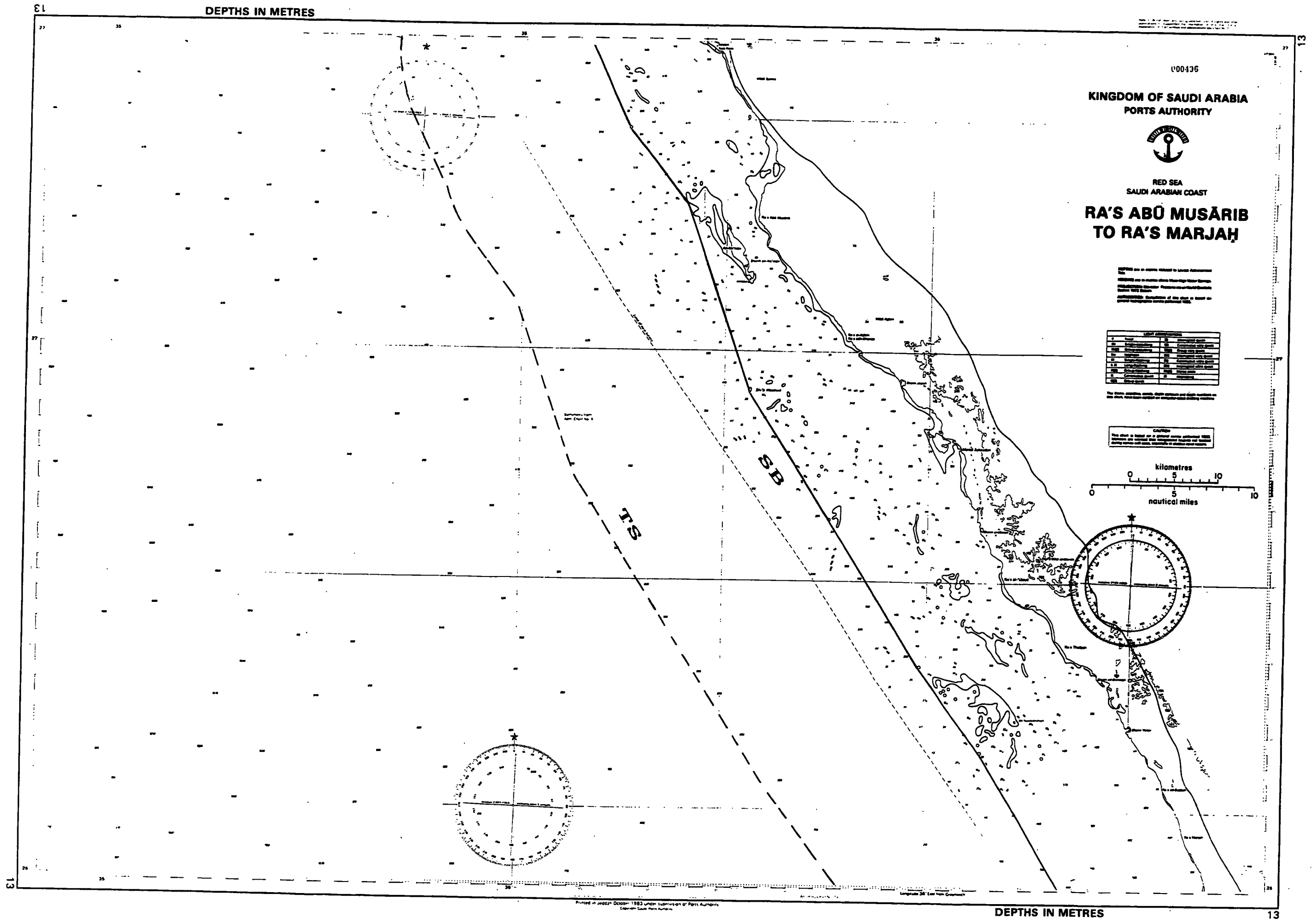
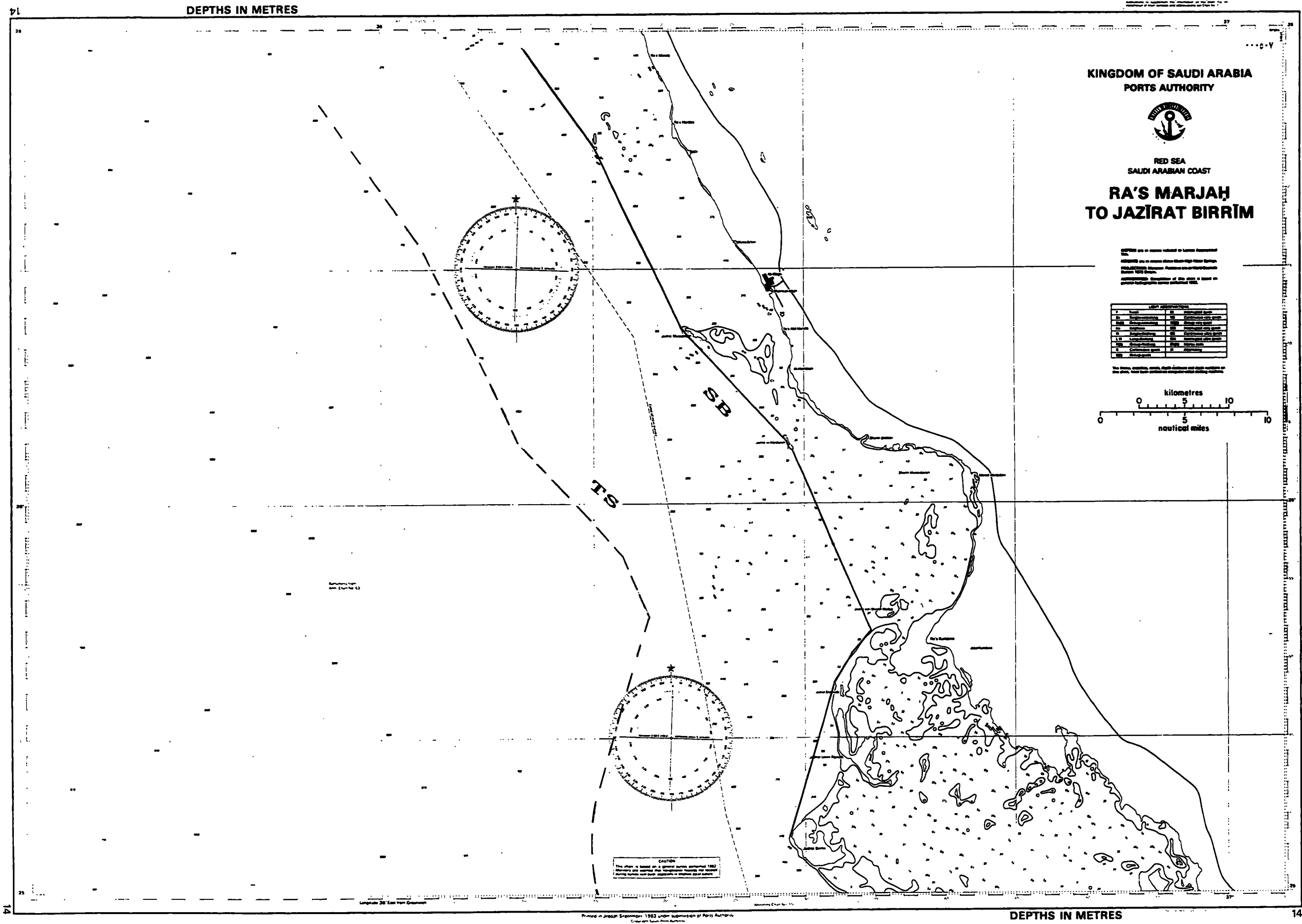


Figure 2.11



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Figure 2.12



KINGDOM OF SAUDI ARABIA
PORTS AUTHORITY

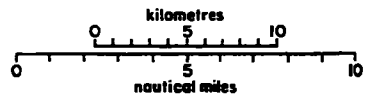


RED SEA
SAUDI ARABIAN COAST

**RA'S MARJAḤ
TO JAZIRAT BIRRİM**

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LIGHTS	
1	Light
2	Light
3	Light
4	Light
5	Light
6	Light
7	Light
8	Light
9	Light
10	Light
11	Light
12	Light
13	Light
14	Light
15	Light
16	Light
17	Light
18	Light
19	Light
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35	Light
36	Light
37	Light
38	Light
39	Light
40	Light
41	Light
42	Light
43	Light
44	Light
45	Light
46	Light
47	Light
48	Light
49	Light
50	Light



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This chart is based on a general survey conducted in 1982. It is not intended for use as a substitute for the original charts. The Ports Authority is not responsible for any loss or damage to a vessel or to persons or property on board a vessel resulting from the use of this chart.

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DEPTHS IN METRES

Figure 2.13

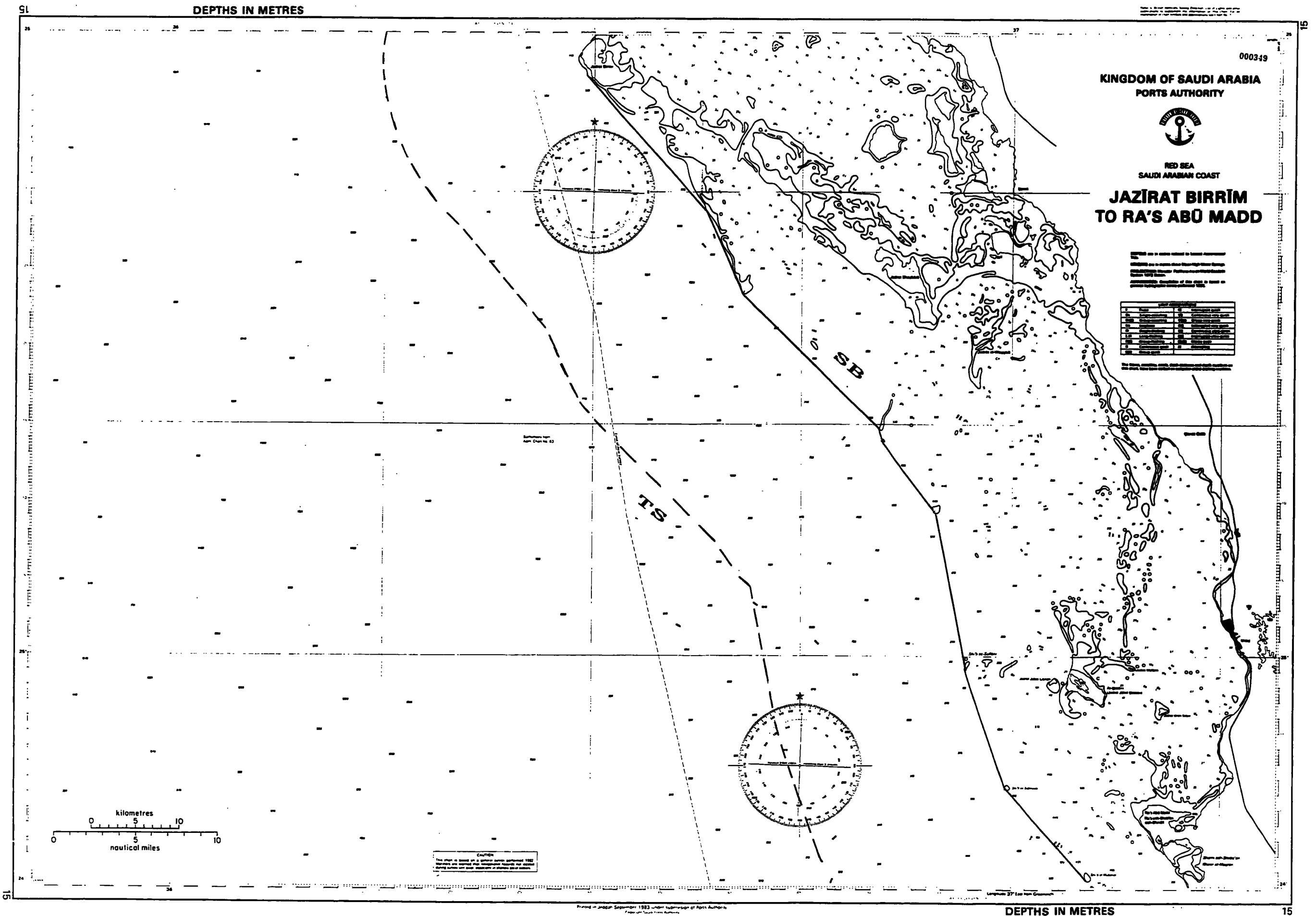
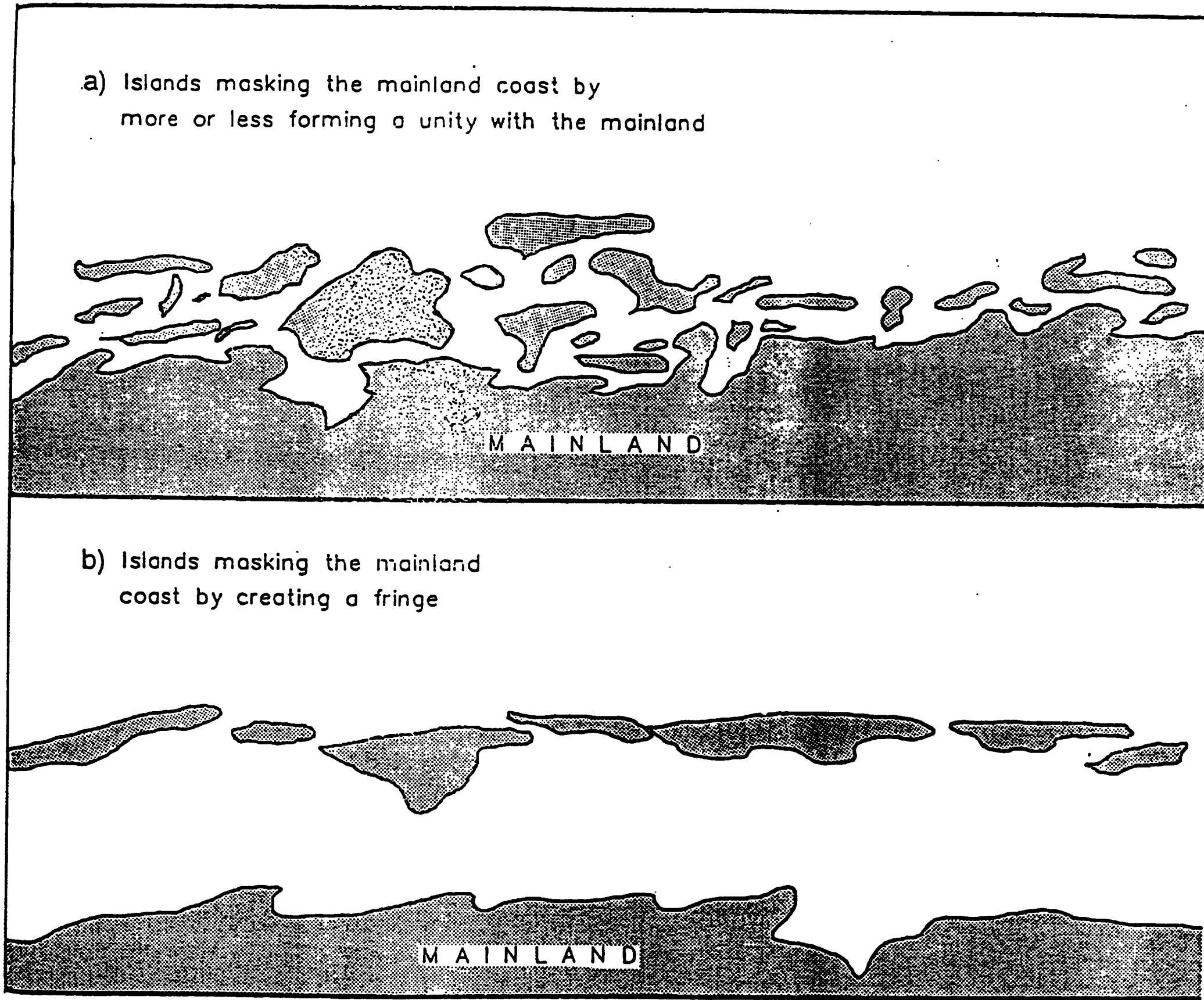


Figure 2.14



Source: US Department of State, 1987

Figure 2.15

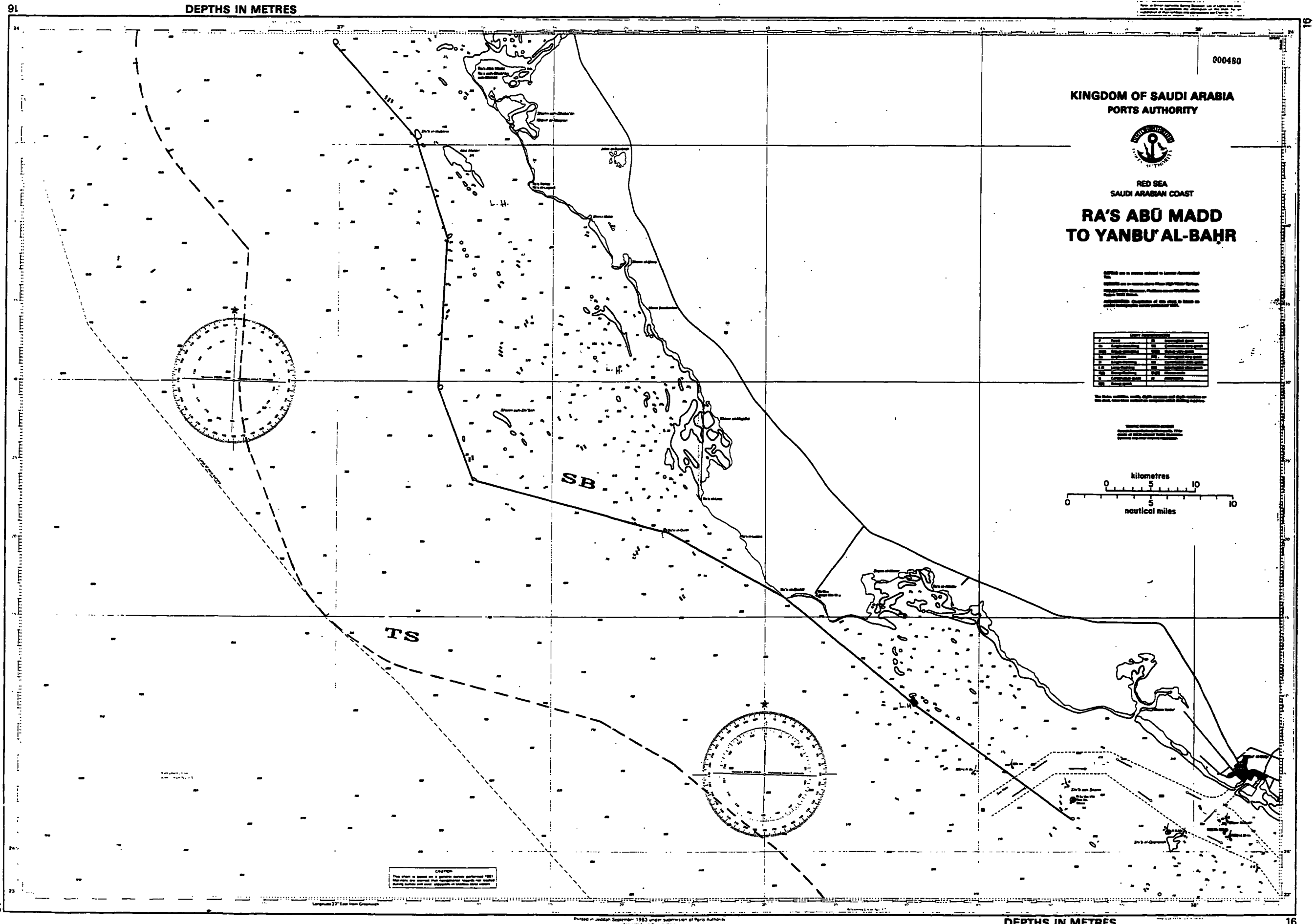
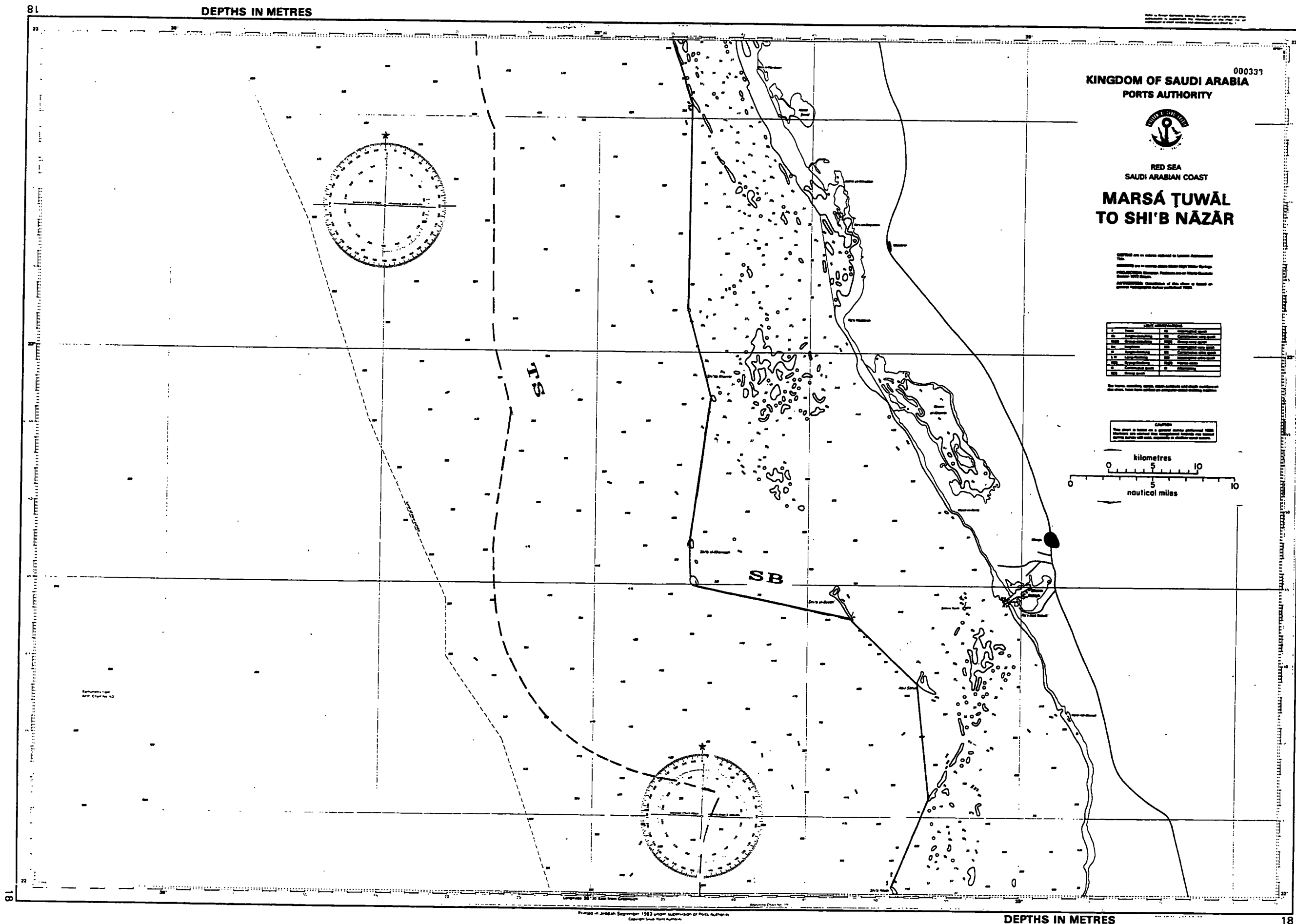


Figure 2.17



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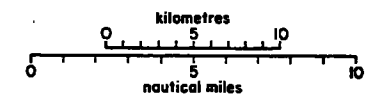
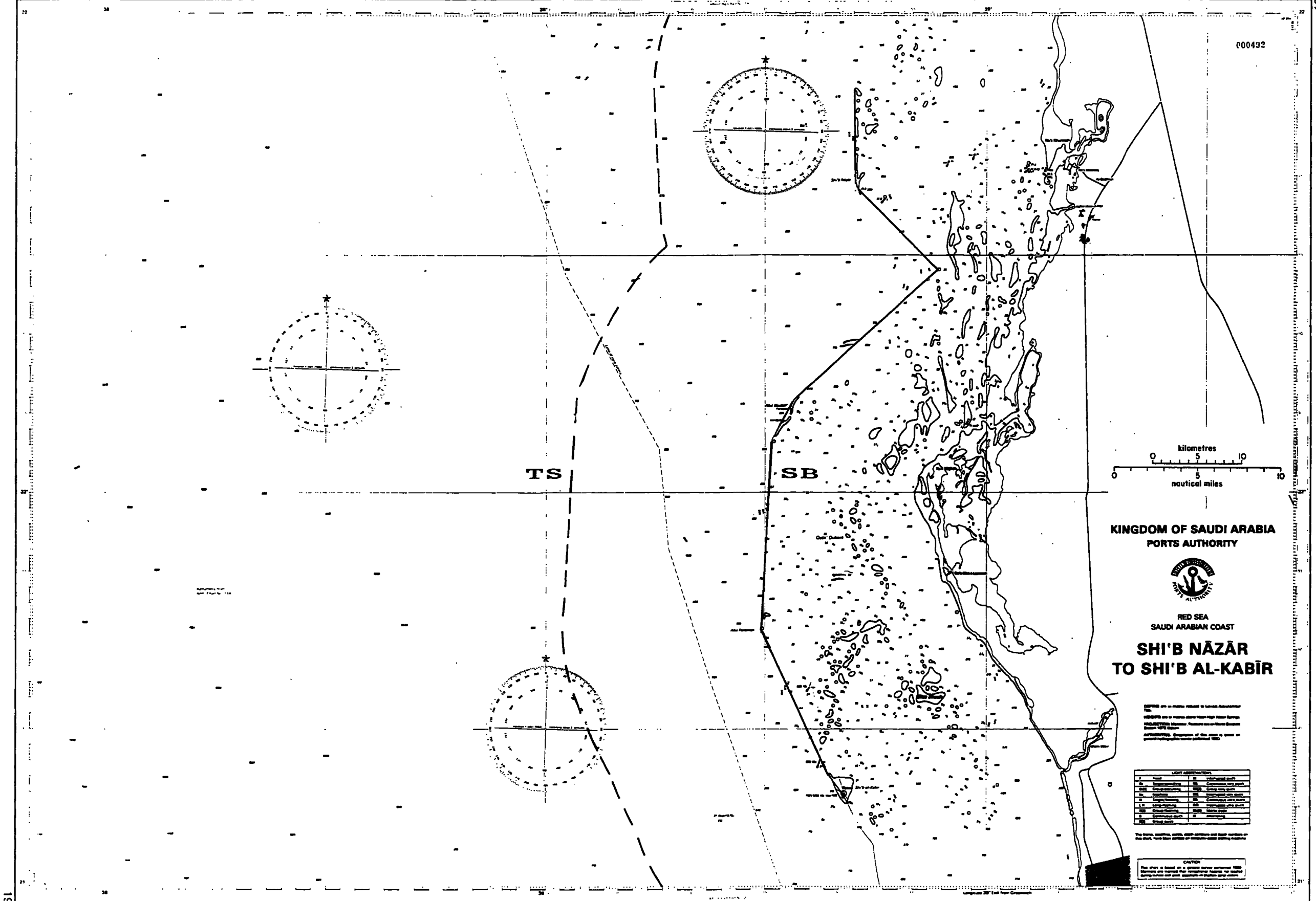
Figure 2.18

61

DEPTHS IN METRES

000492

19



KINGDOM OF SAUDI ARABIA
PORTS AUTHORITY



RED SEA
SAUDI ARABIAN COAST

**SHI'B NĀZĀR
TO SHI'B AL-KABĪR**

Soundings are in metres unless otherwise indicated.
Contours are in metres unless otherwise indicated.
Contours are in metres unless otherwise indicated.
Contours are in metres unless otherwise indicated.

LOCAL ABREVIATIONS	
1	1
2	2
3	3
4	4
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8	8
9	9
10	10
11	11
12	12
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100	100

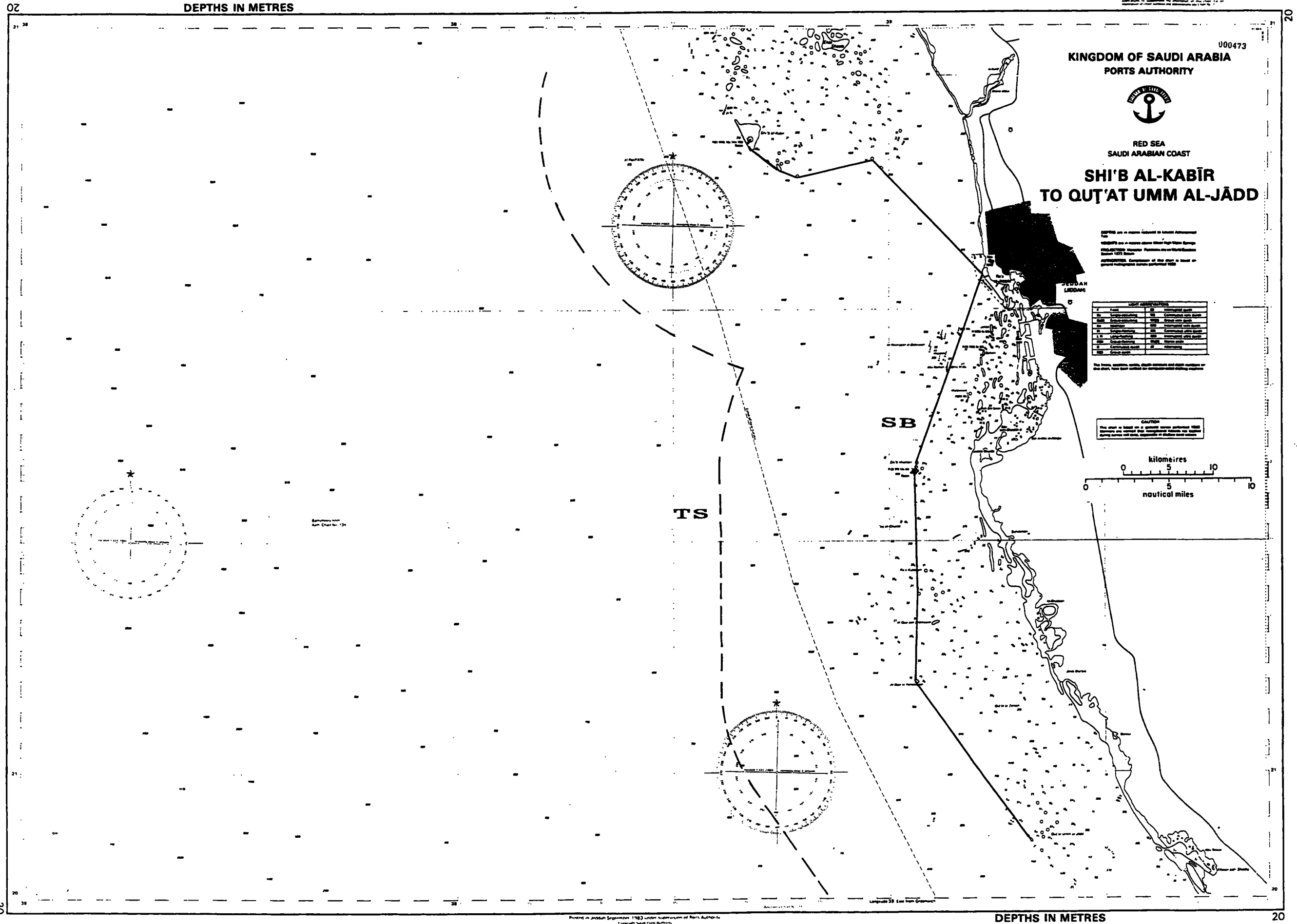
The name, number, symbol, depth and light number of the light, when shown within an enclosure, shall be shown.

CAUTION
This chart is based on a general survey performed in 1980. It should be used with caution. It is not intended for use in shallow water. It is not intended for use in shallow water.

DEPTHS IN METRES

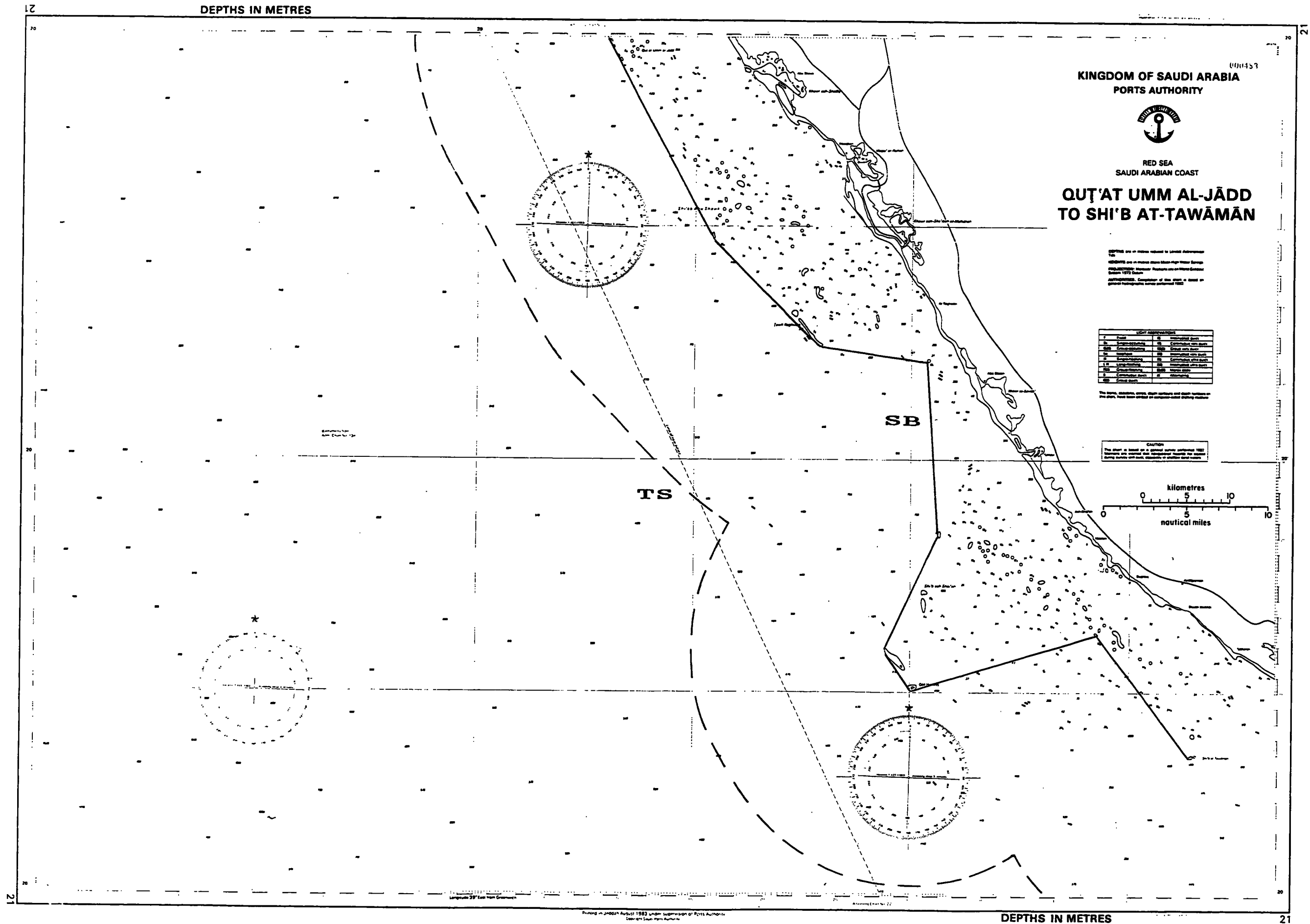
19

Figure 2.19



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Figure 2.20



001457
KINGDOM OF SAUDI ARABIA
PORTS AUTHORITY



RED SEA
 SAUDI ARABIAN COAST

QU'AT UMM AL-JÄDD
TO SHI'B AT-TAWÄMÄN

QU'ATTS are in metres unless stated otherwise
 QU'ATTS are in metres unless stated otherwise
 QU'ATTS are in metres unless stated otherwise
 QU'ATTS are in metres unless stated otherwise

LIGHT ABREVIATIONS	
F	Flashing light
Fl	Flashing light
Fl (G)	Flashing light (Green)
Fl (R)	Flashing light (Red)
Fl (W)	Flashing light (White)
Fl (Y)	Flashing light (Yellow)
Fl (B)	Flashing light (Blue)
Fl (V)	Flashing light (Violet)
Fl (I)	Flashing light (Infrared)
Fl (U)	Flashing light (Ultraviolet)
Fl (S)	Flashing light (Sound)
Fl (L)	Flashing light (Light)
Fl (M)	Flashing light (Morse)
Fl (C)	Flashing light (Cyclic)
Fl (D)	Flashing light (Dial)
Fl (E)	Flashing light (Electric)
Fl (G)	Flashing light (Gas)
Fl (H)	Flashing light (Hydrogen)
Fl (I)	Flashing light (Iron)
Fl (J)	Flashing light (Jewelry)
Fl (K)	Flashing light (Kilowatt)
Fl (L)	Flashing light (Lumen)
Fl (M)	Flashing light (Mile)
Fl (N)	Flashing light (Nautical)
Fl (O)	Flashing light (Ounce)
Fl (P)	Flashing light (Pound)
Fl (Q)	Flashing light (Quintal)
Fl (R)	Flashing light (Rope)
Fl (S)	Flashing light (Square)
Fl (T)	Flashing light (Tonne)
Fl (U)	Flashing light (Unit)
Fl (V)	Flashing light (Vessel)
Fl (W)	Flashing light (Watt)
Fl (X)	Flashing light (X-ray)
Fl (Y)	Flashing light (Yard)
Fl (Z)	Flashing light (Zinc)

CAUTION
 This chart is based on a general survey performed 1982
 and is subject to change. It is not to be used for navigation
 unless it is checked against the latest information.

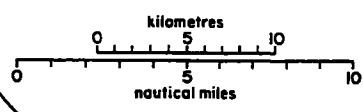


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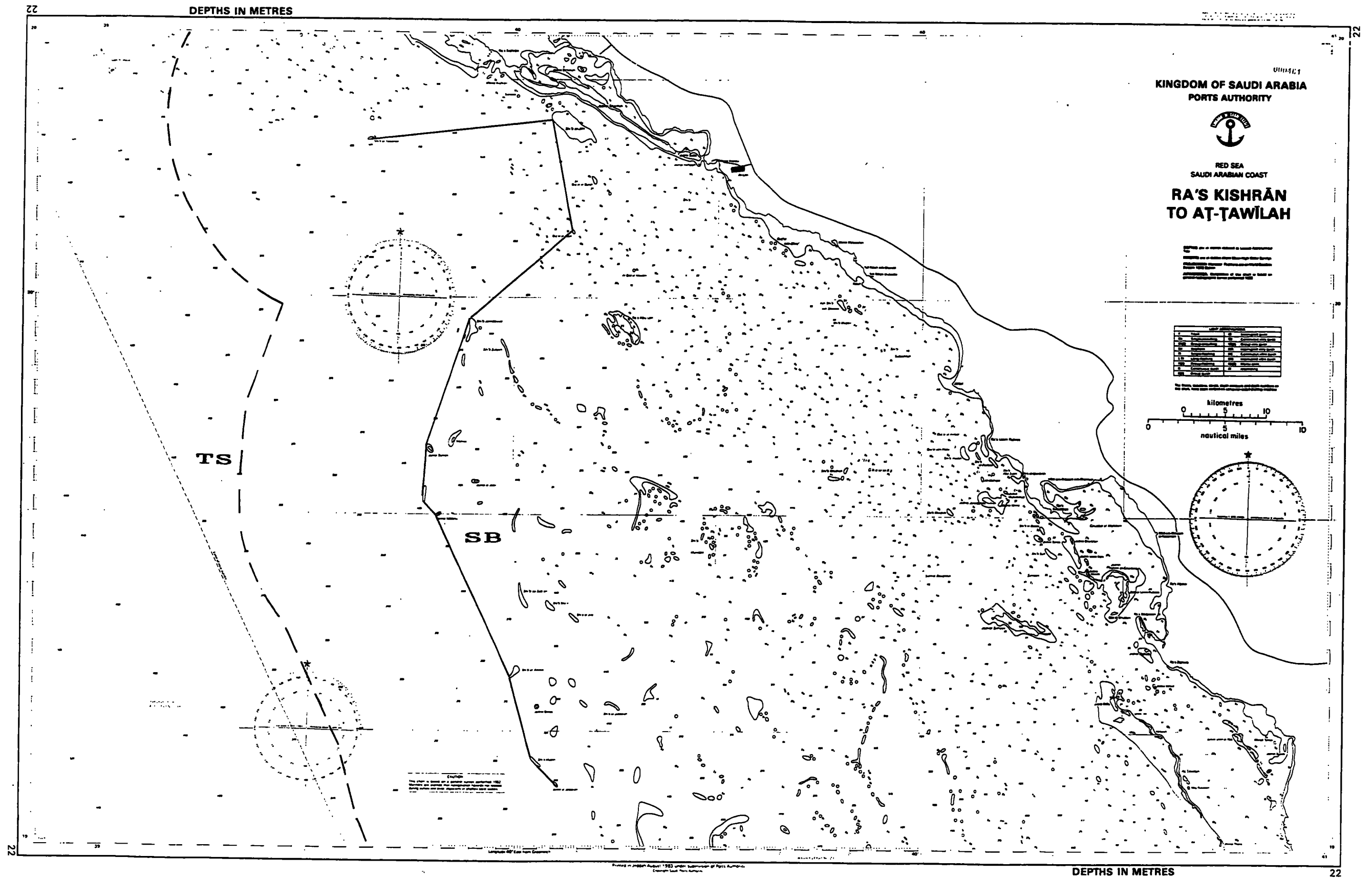


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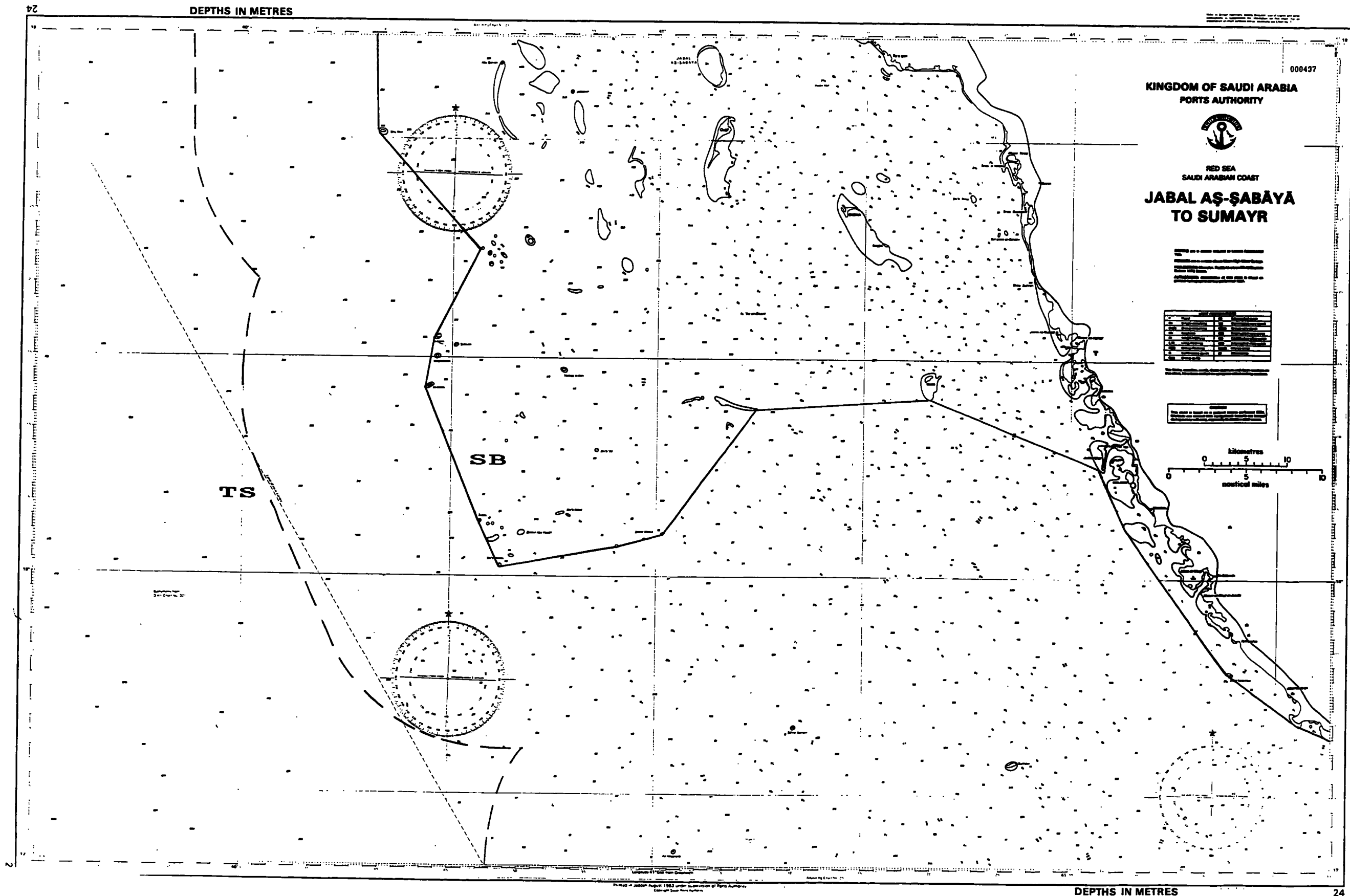


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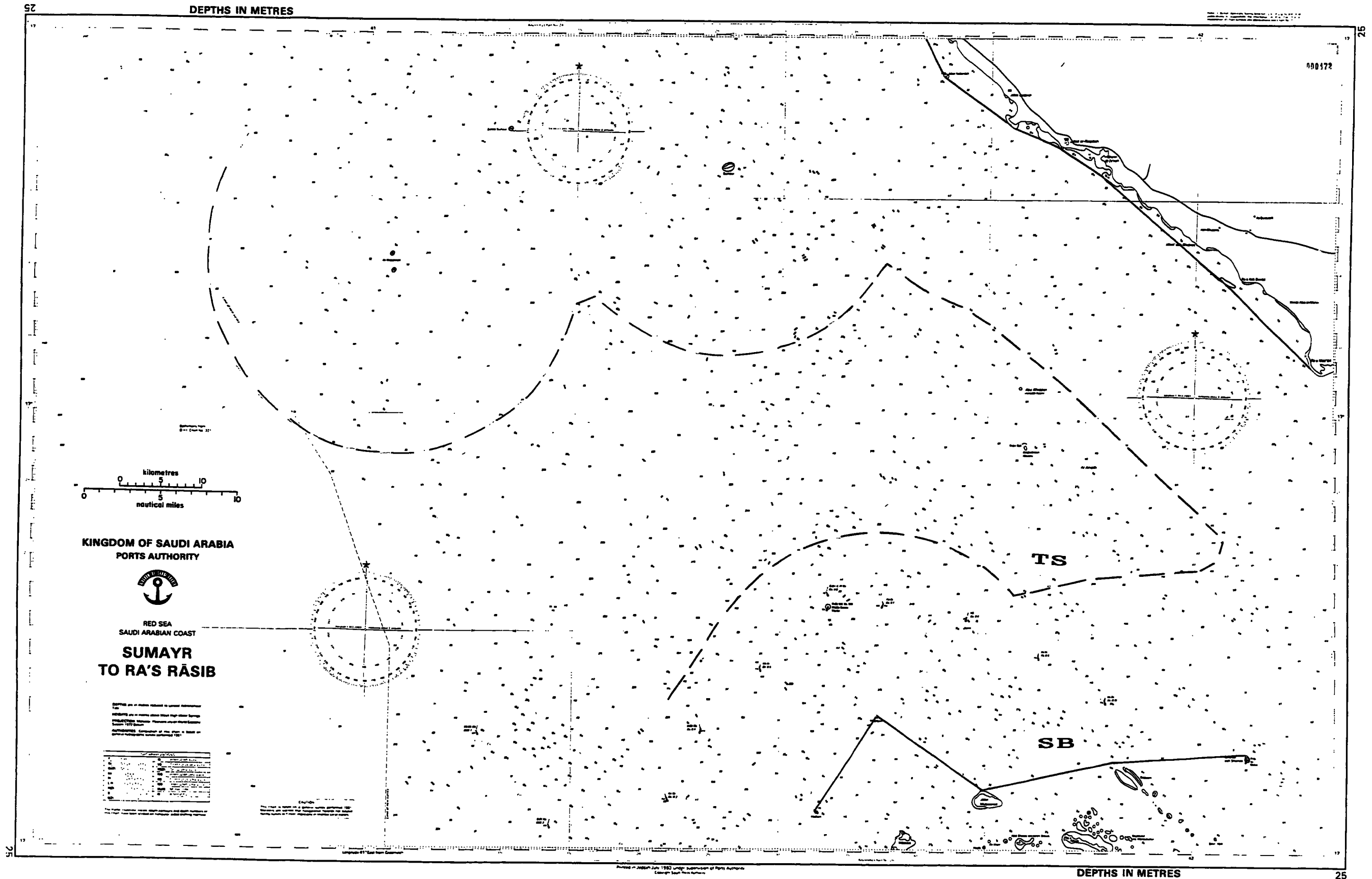


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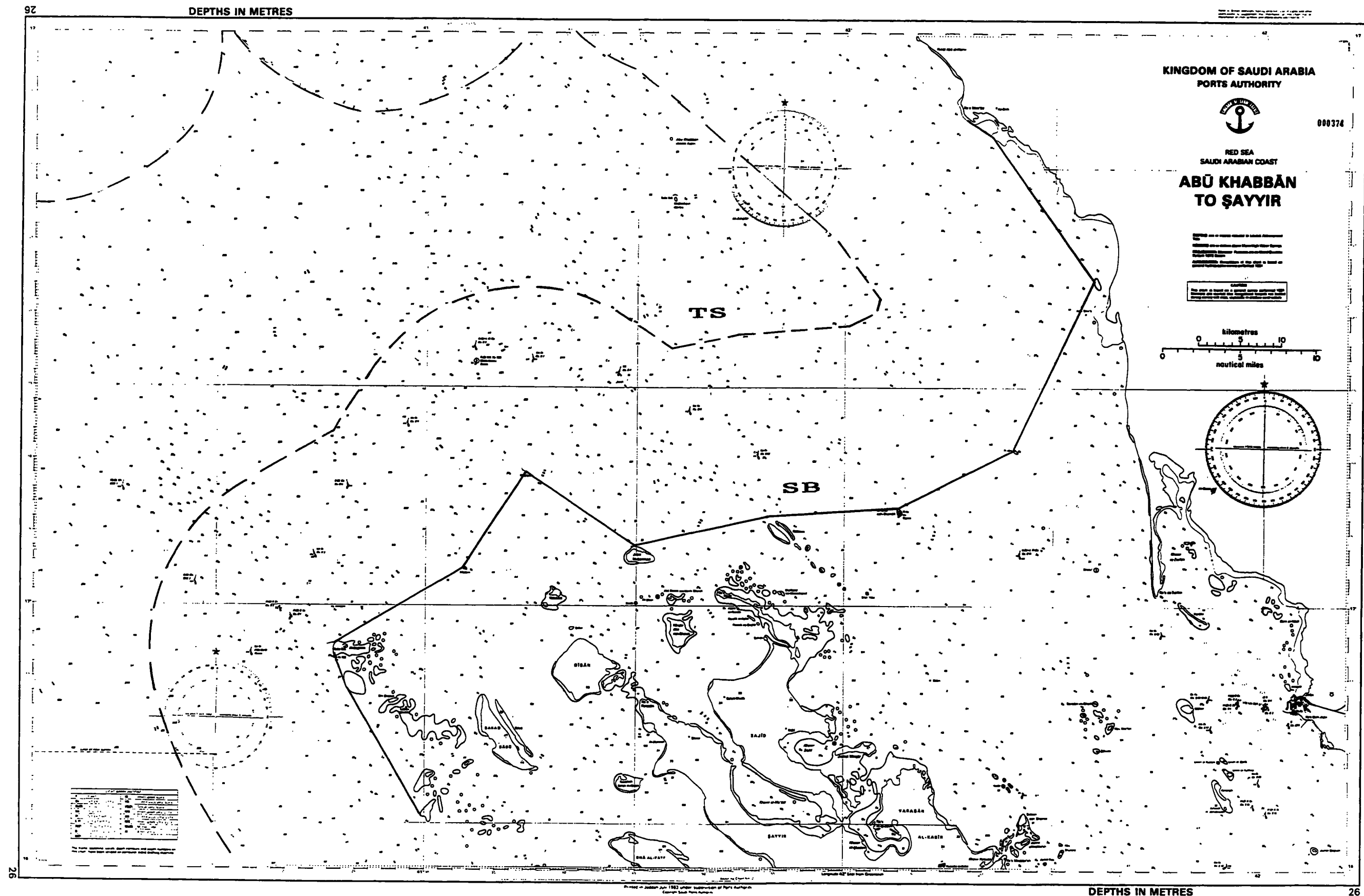
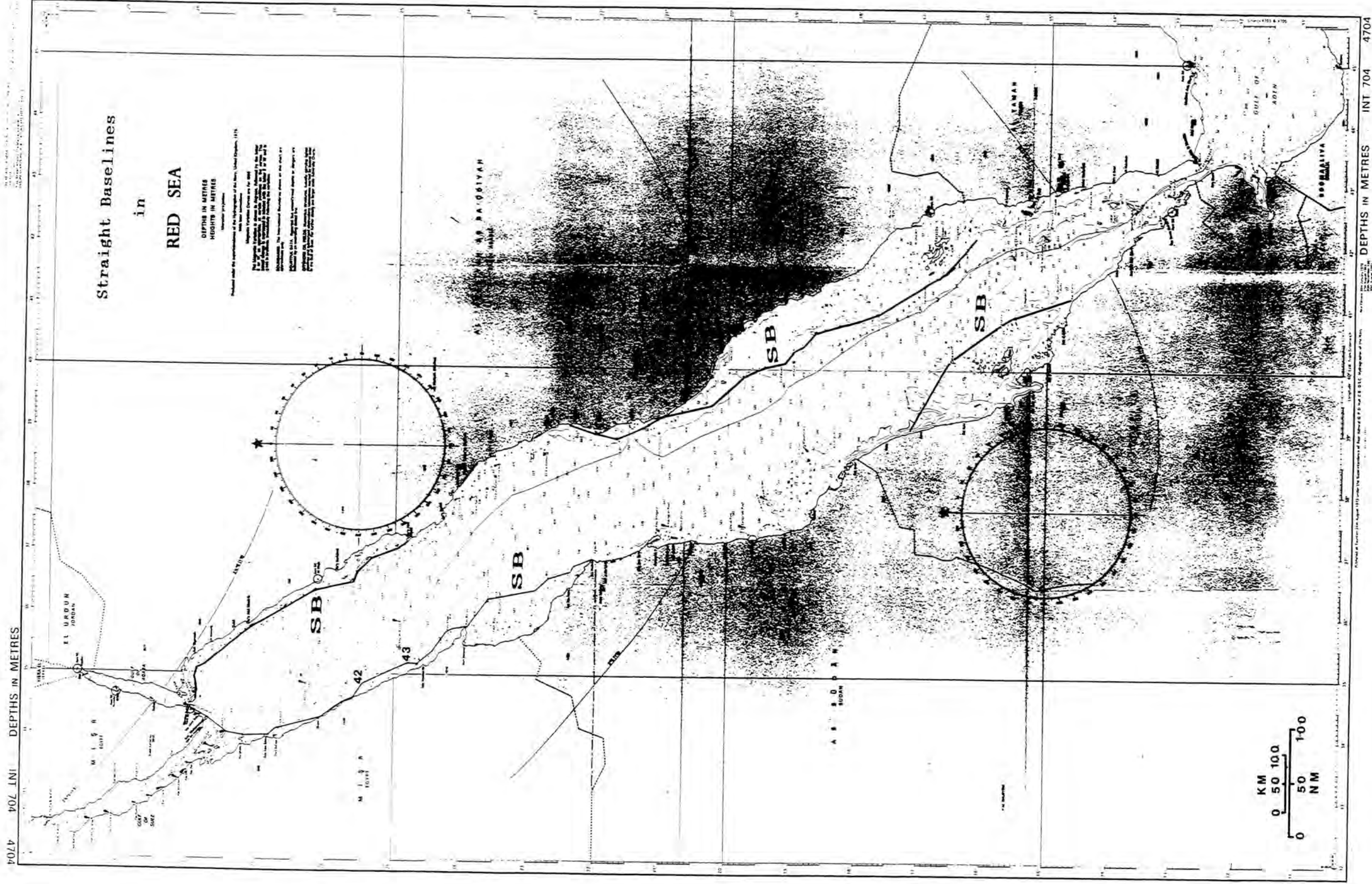


Figure 2.27



DEPTHS IN METRES INT 704 4704

Figure 2.28

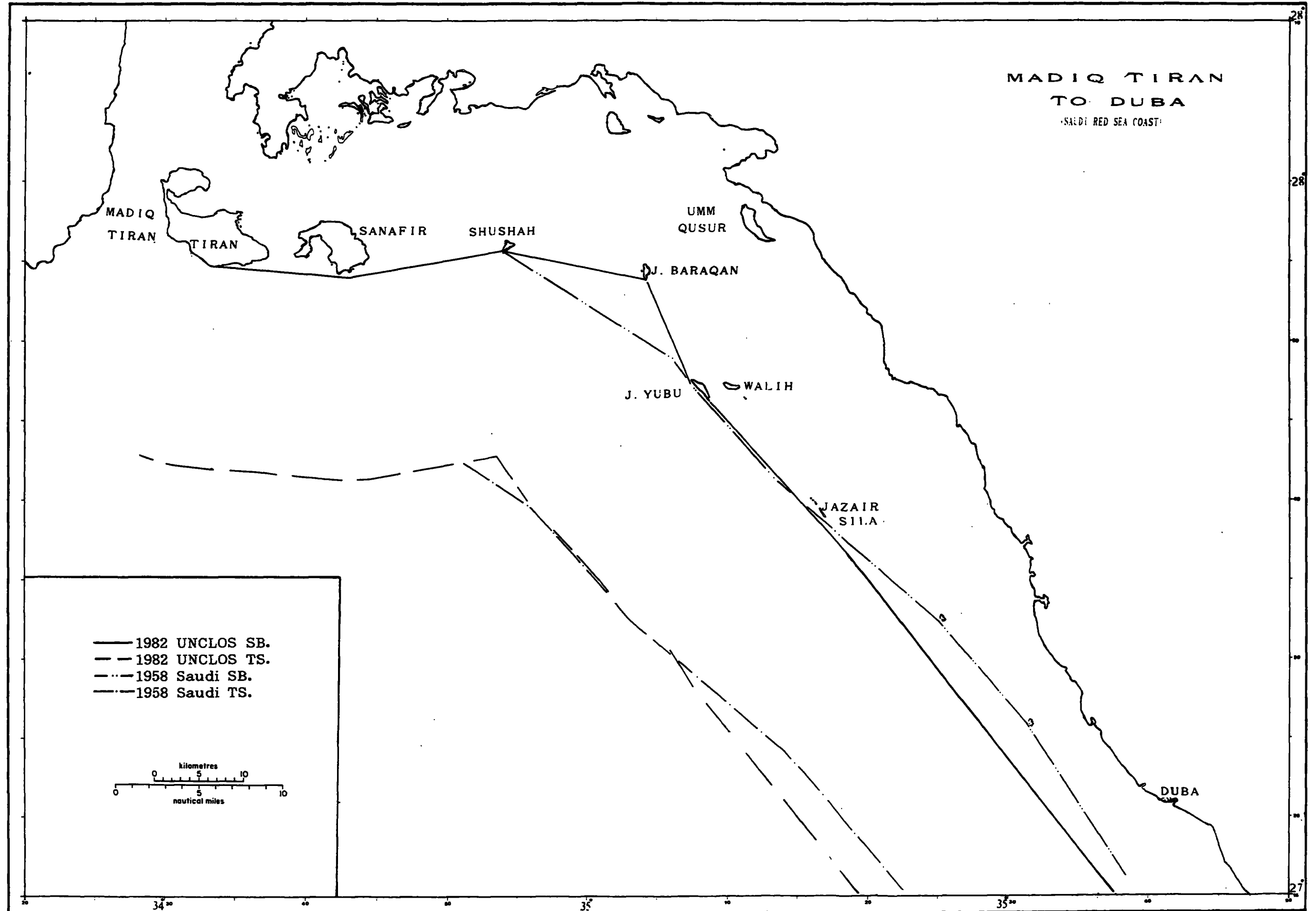


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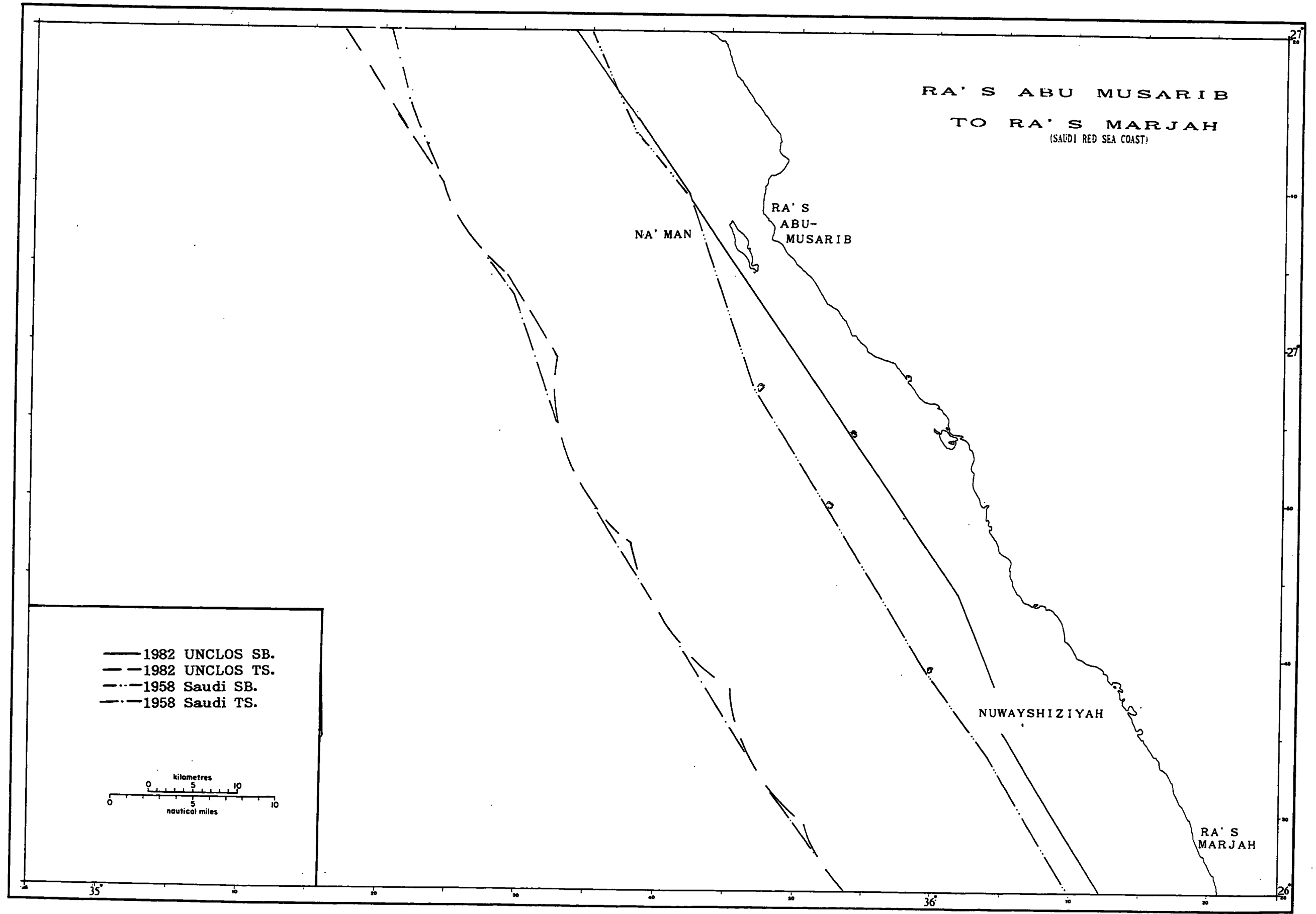


Figure 2.30

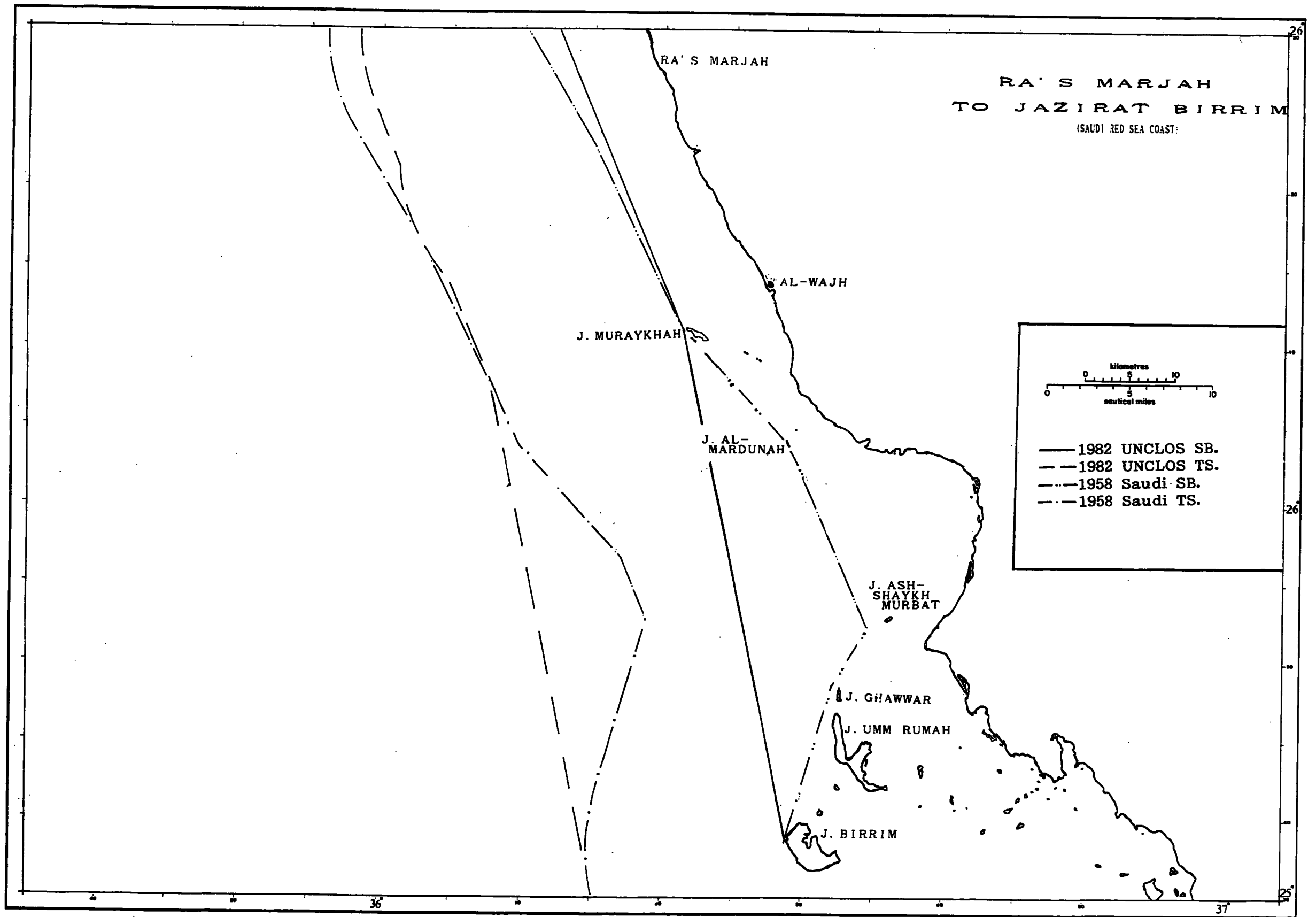


Figure 2.31

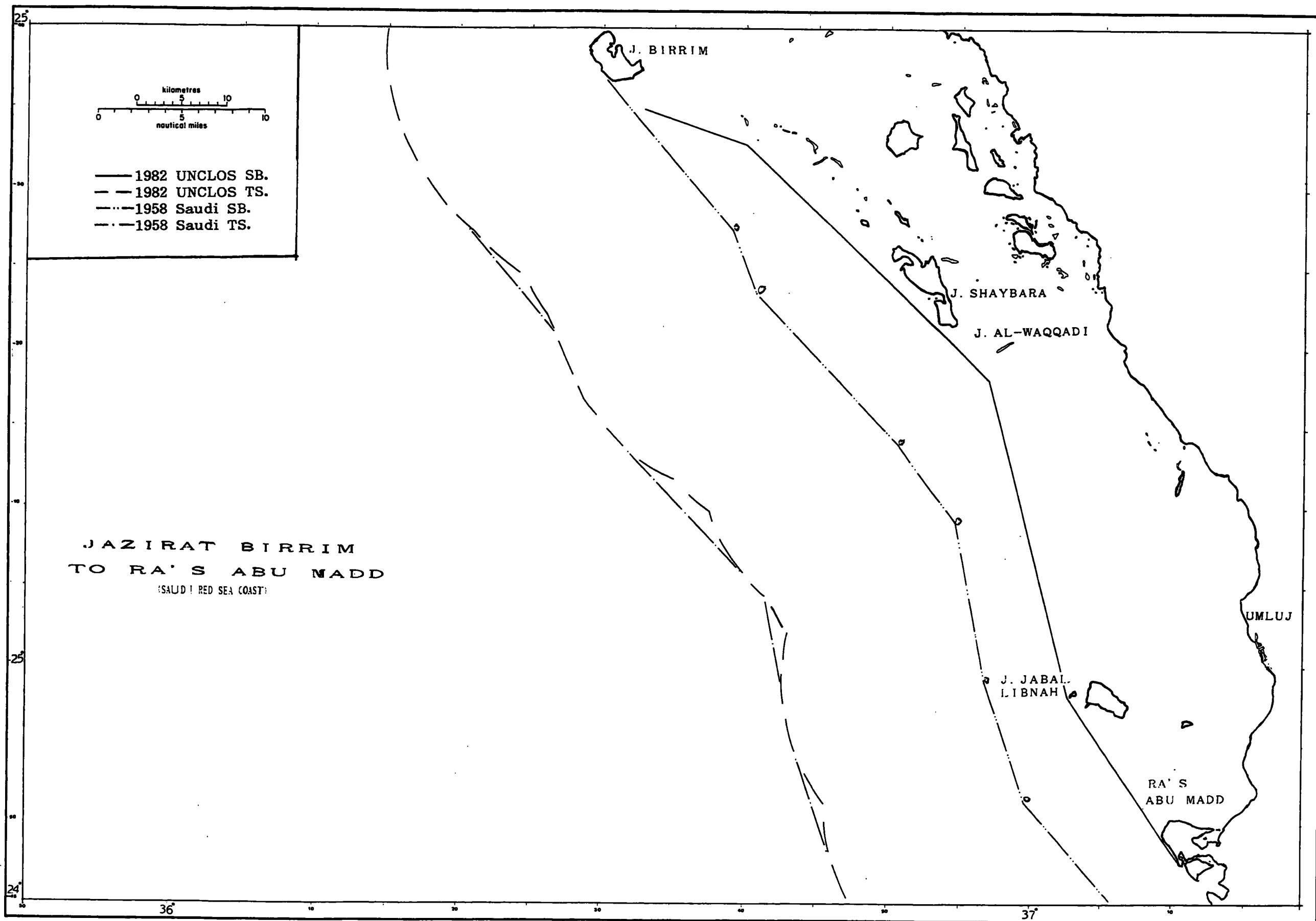


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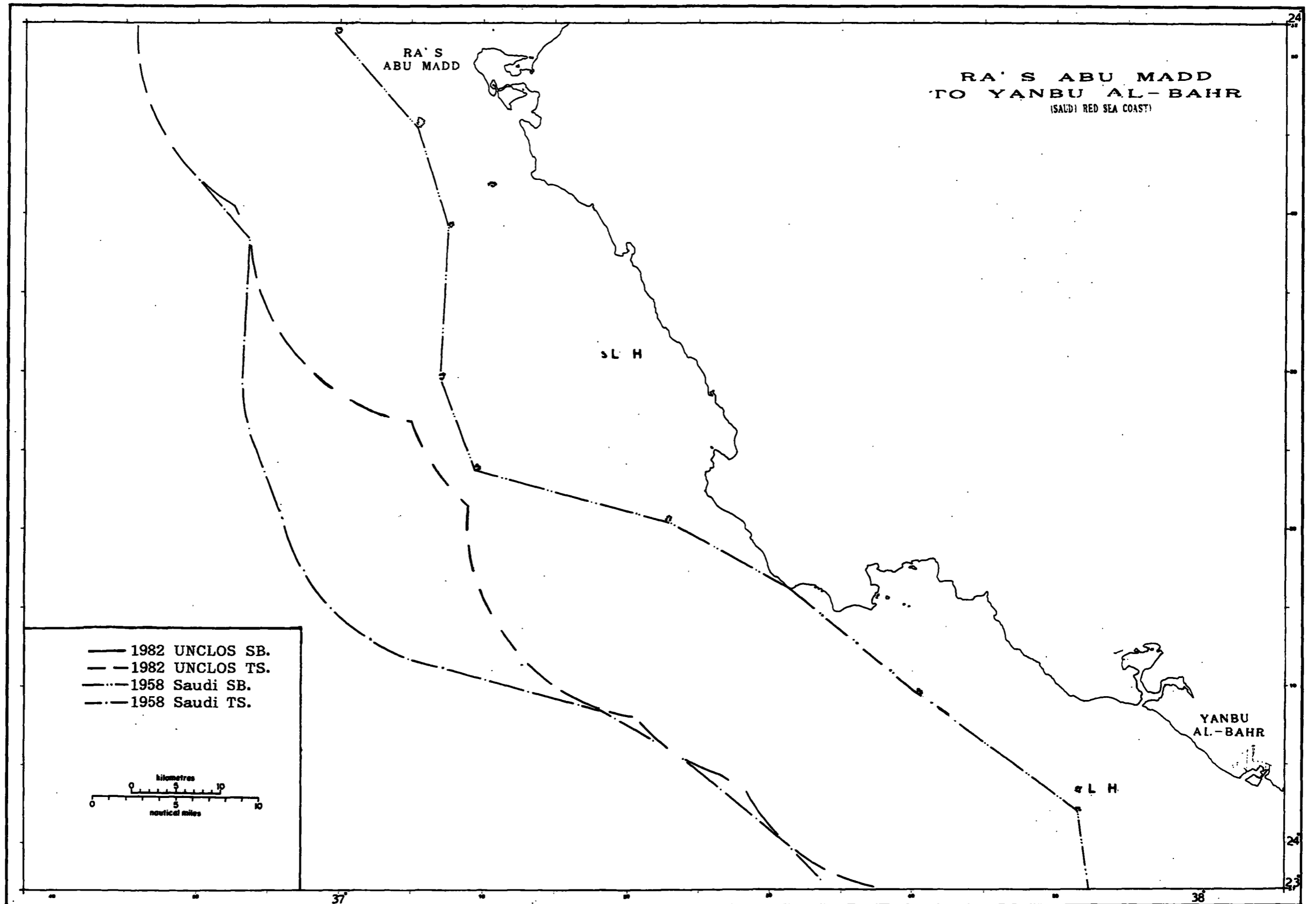


Figure 2.33

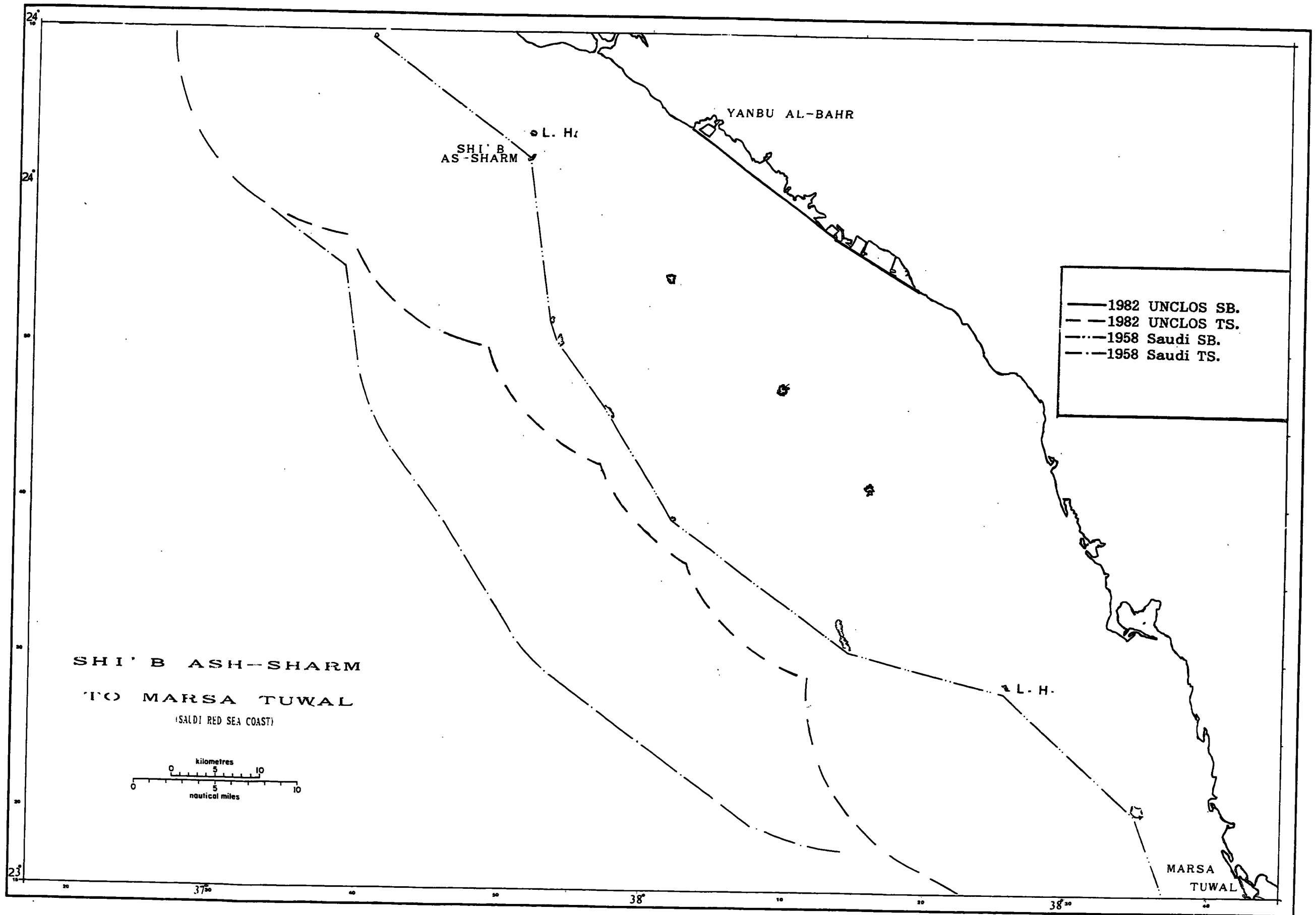


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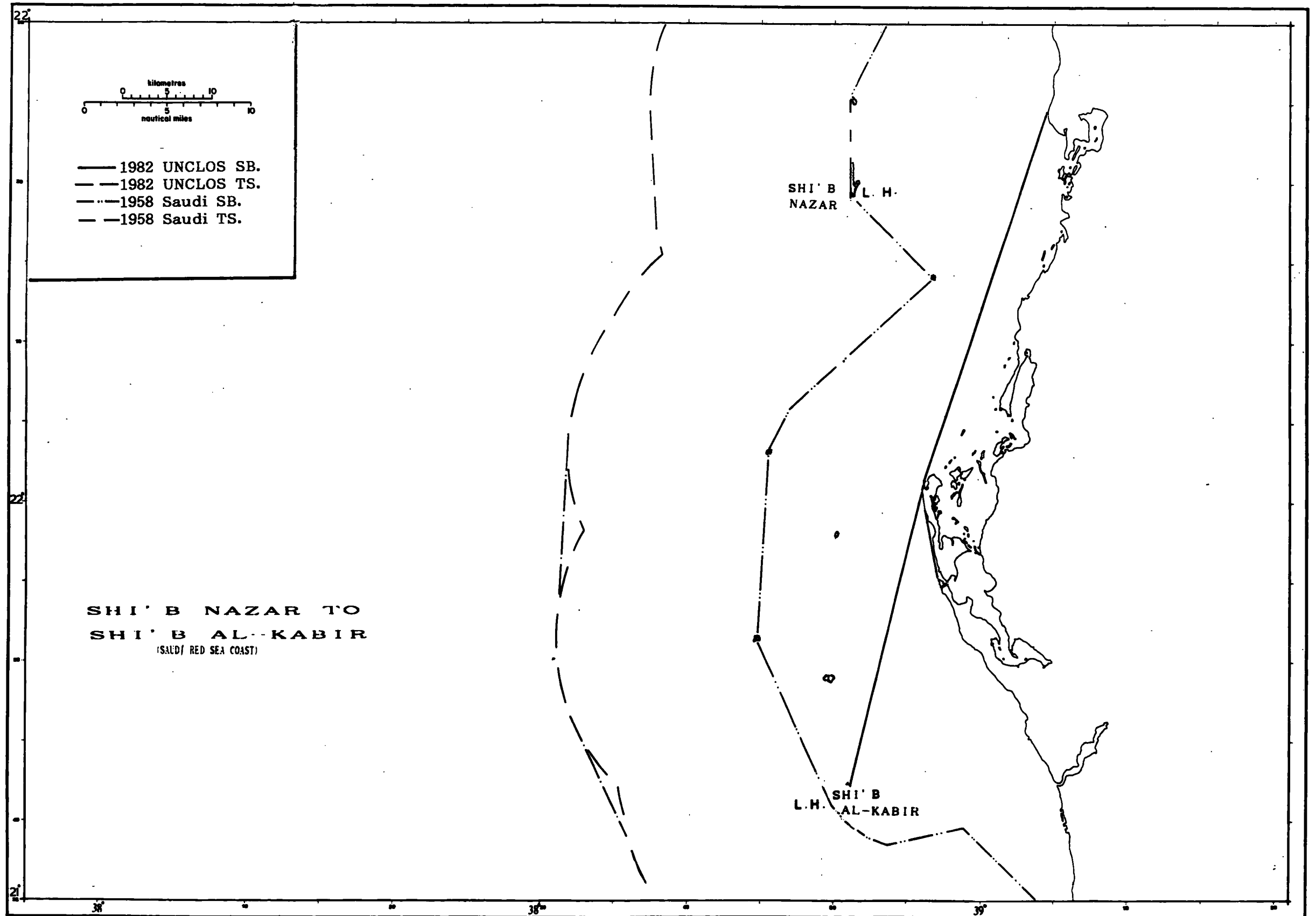


Figure 2.36

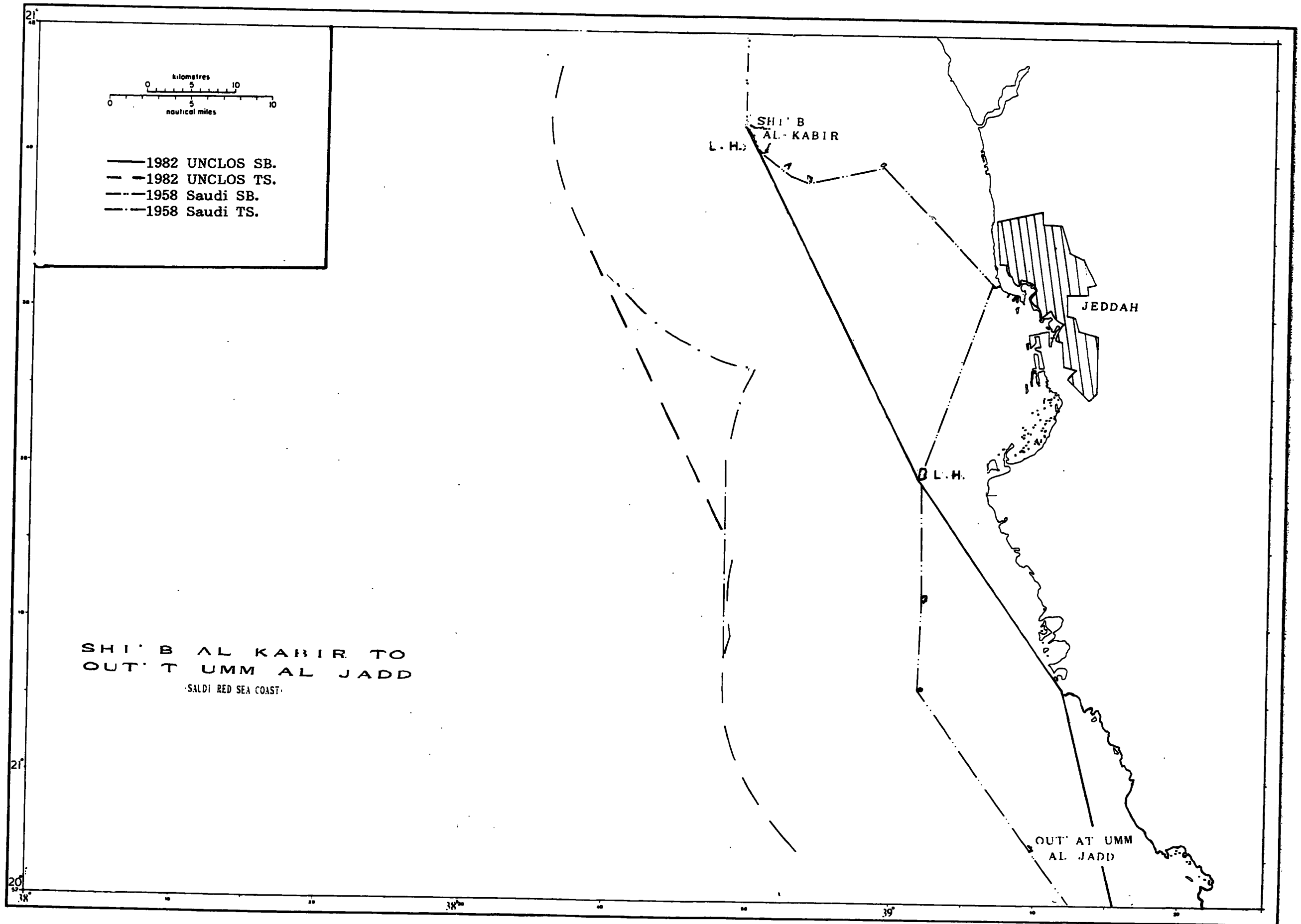


Figure 2.37

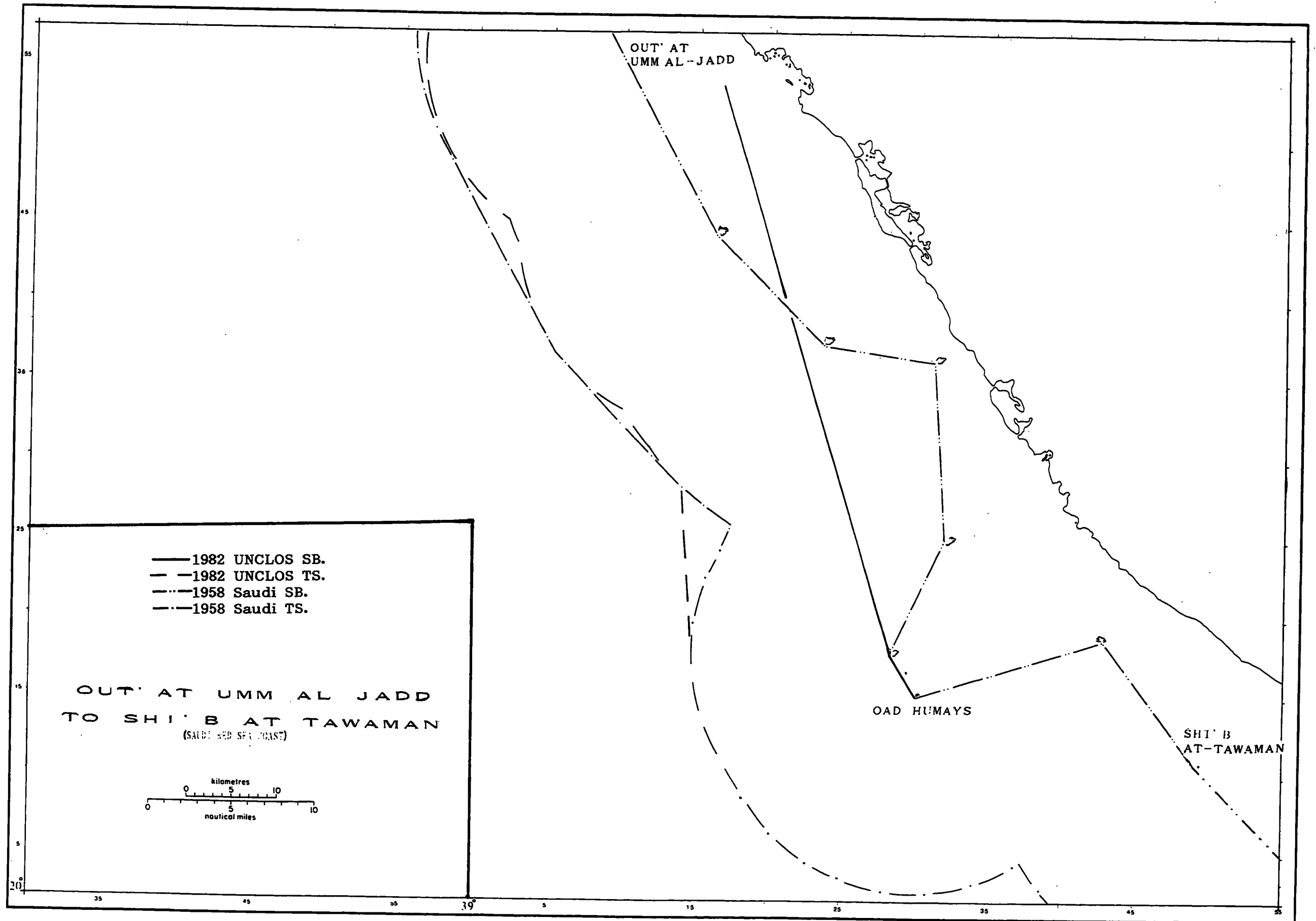


Figure 2.39

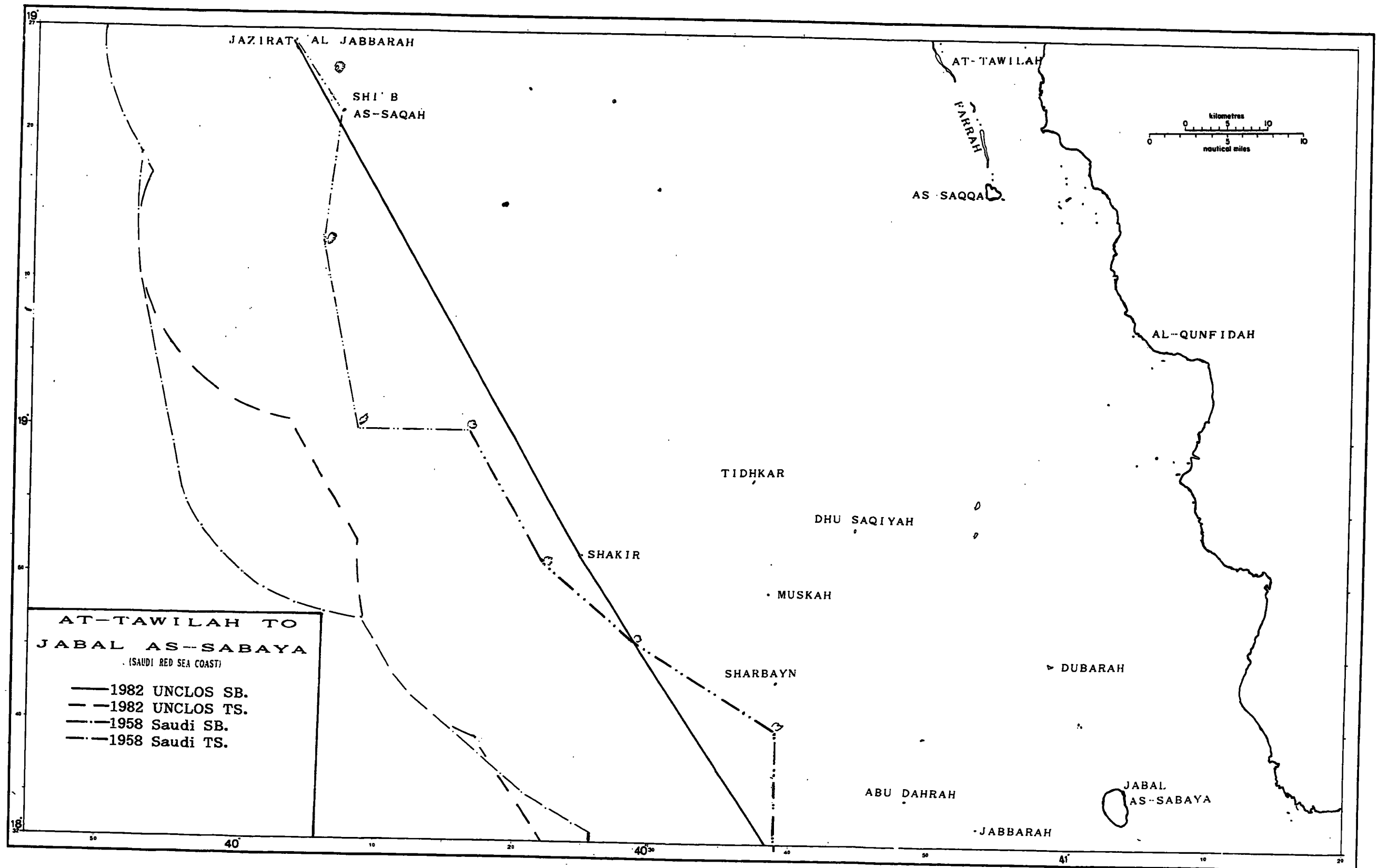


Figure 2.40

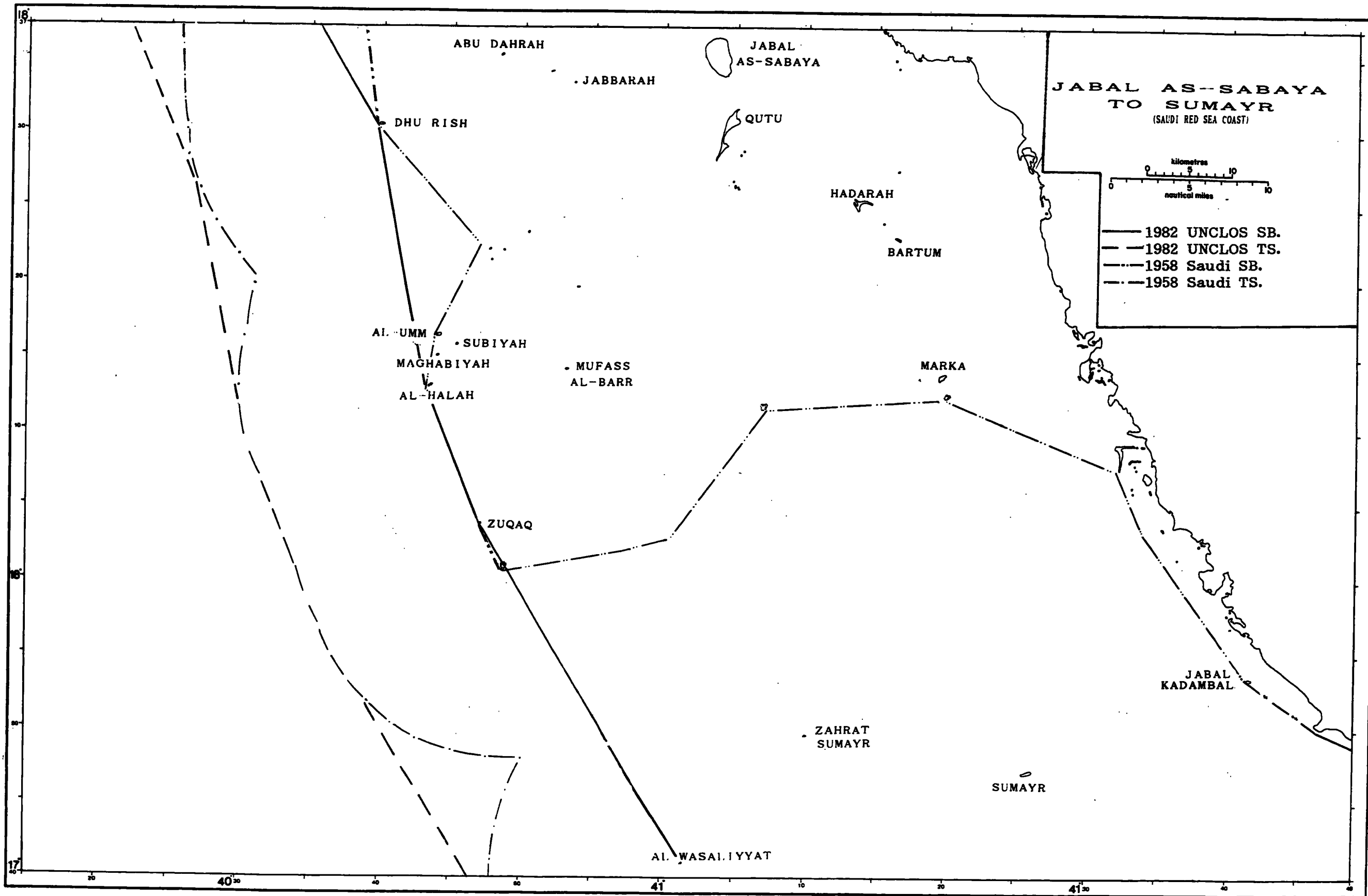


Figure 2.41

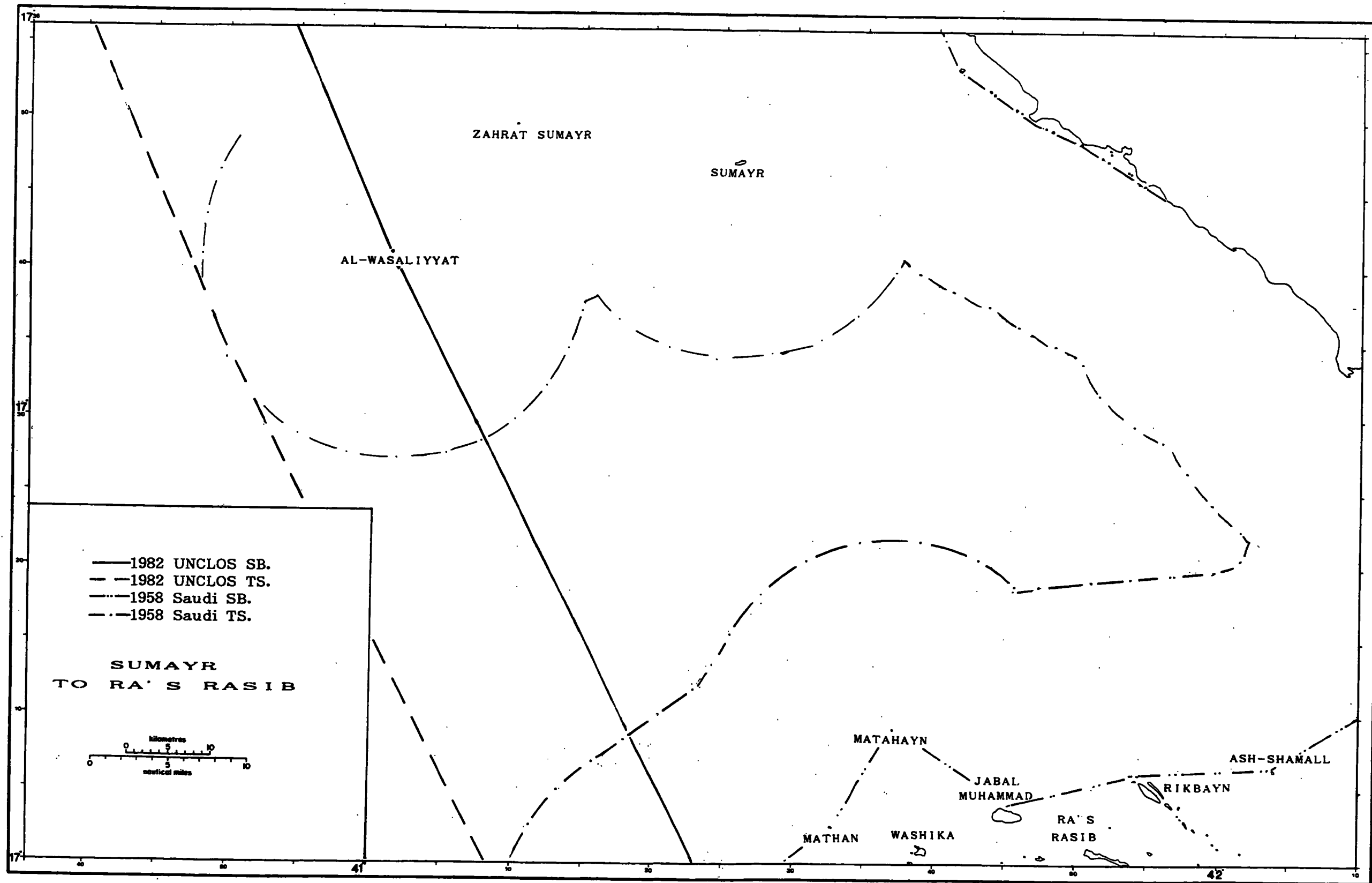


Figure 2.42

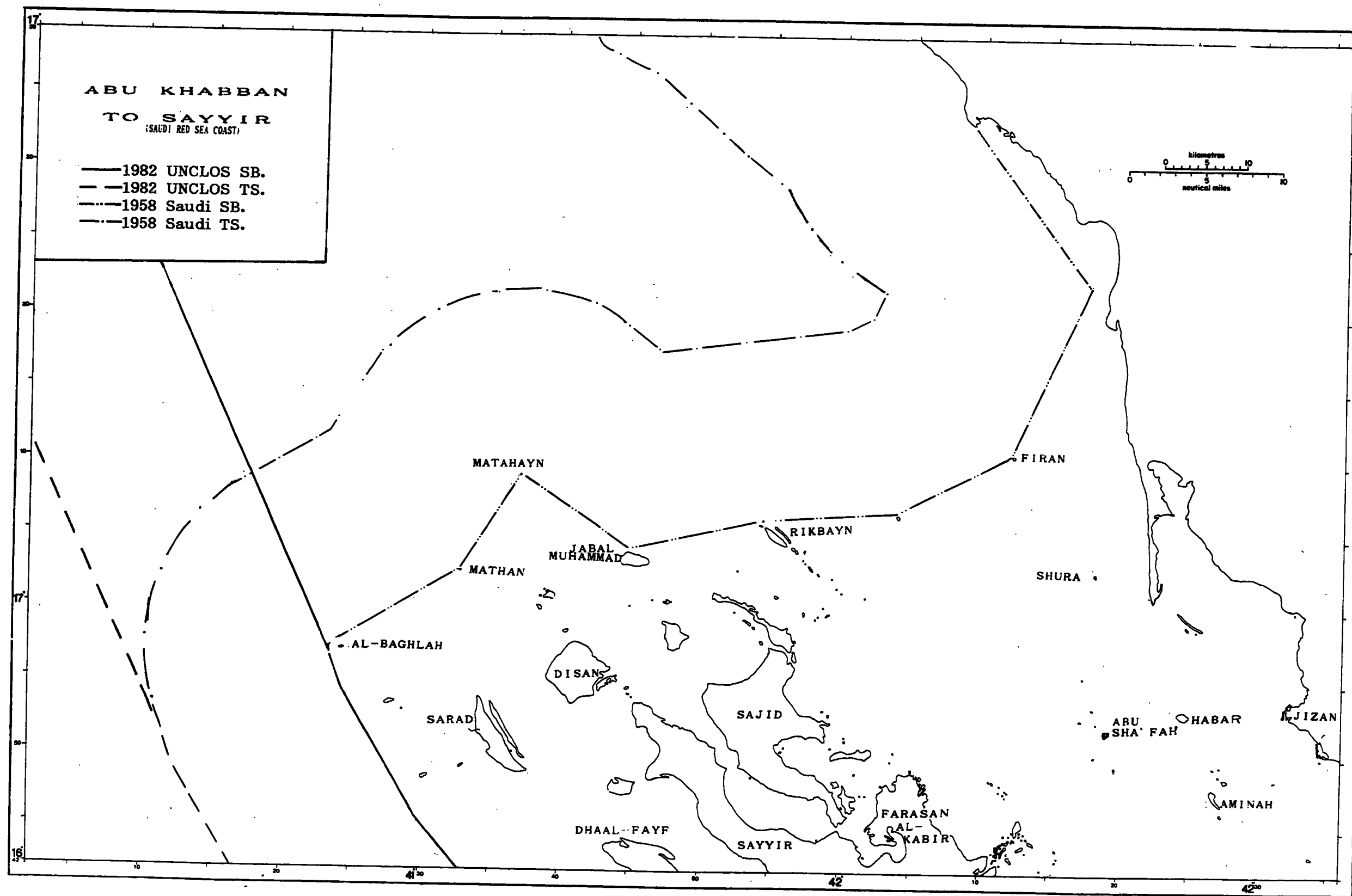


Figure 2.43

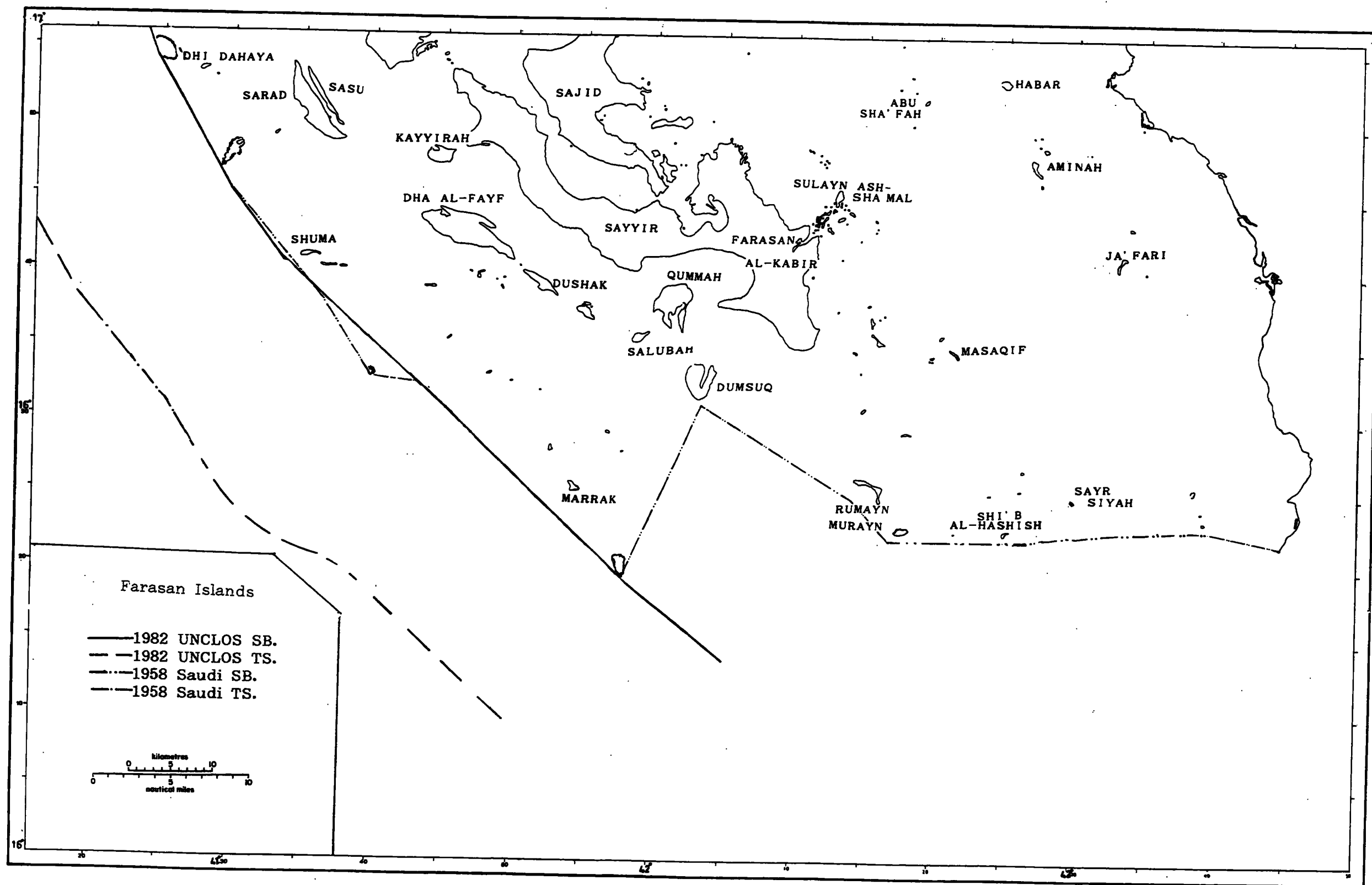


Figure 2.44

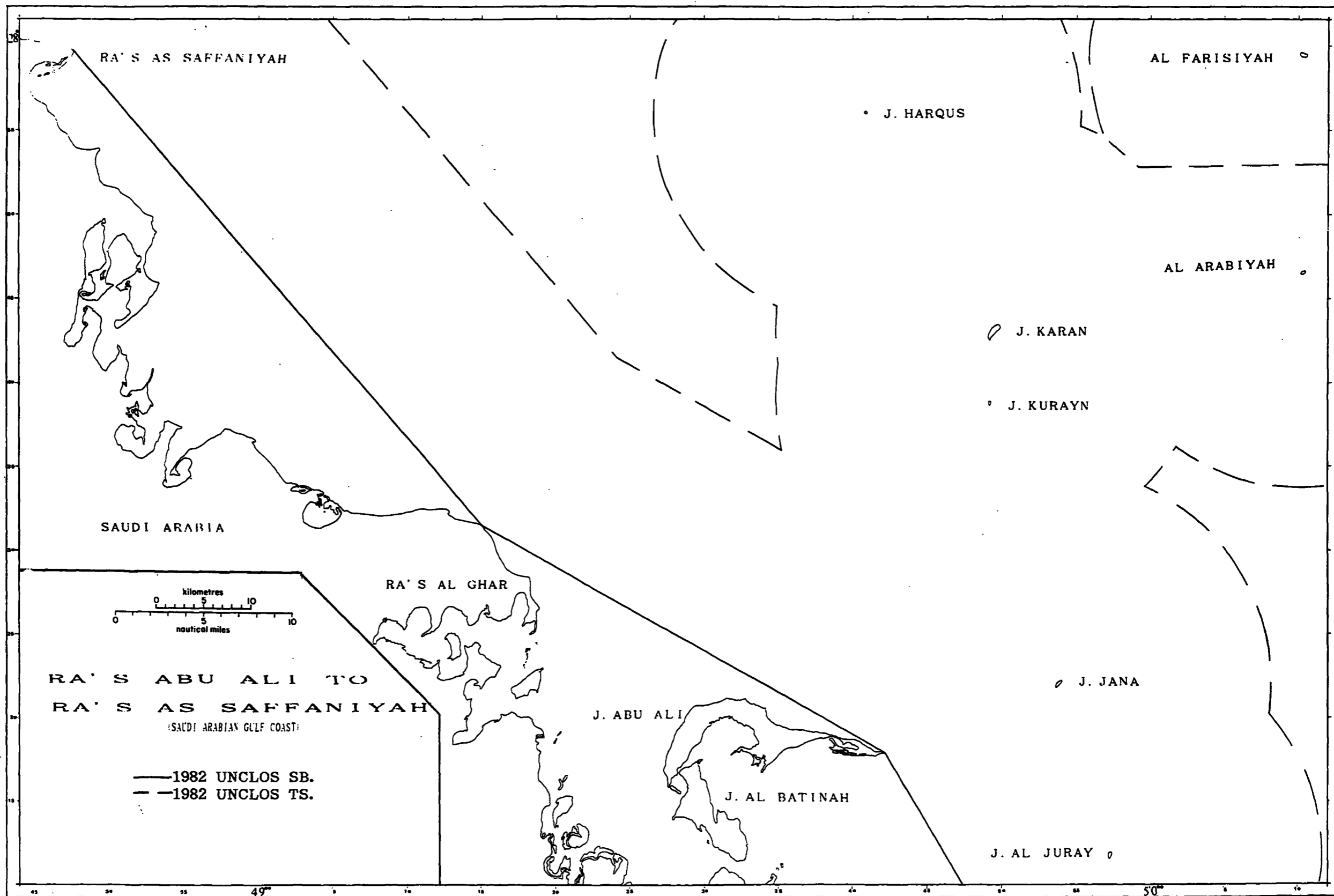


Figure 2.45

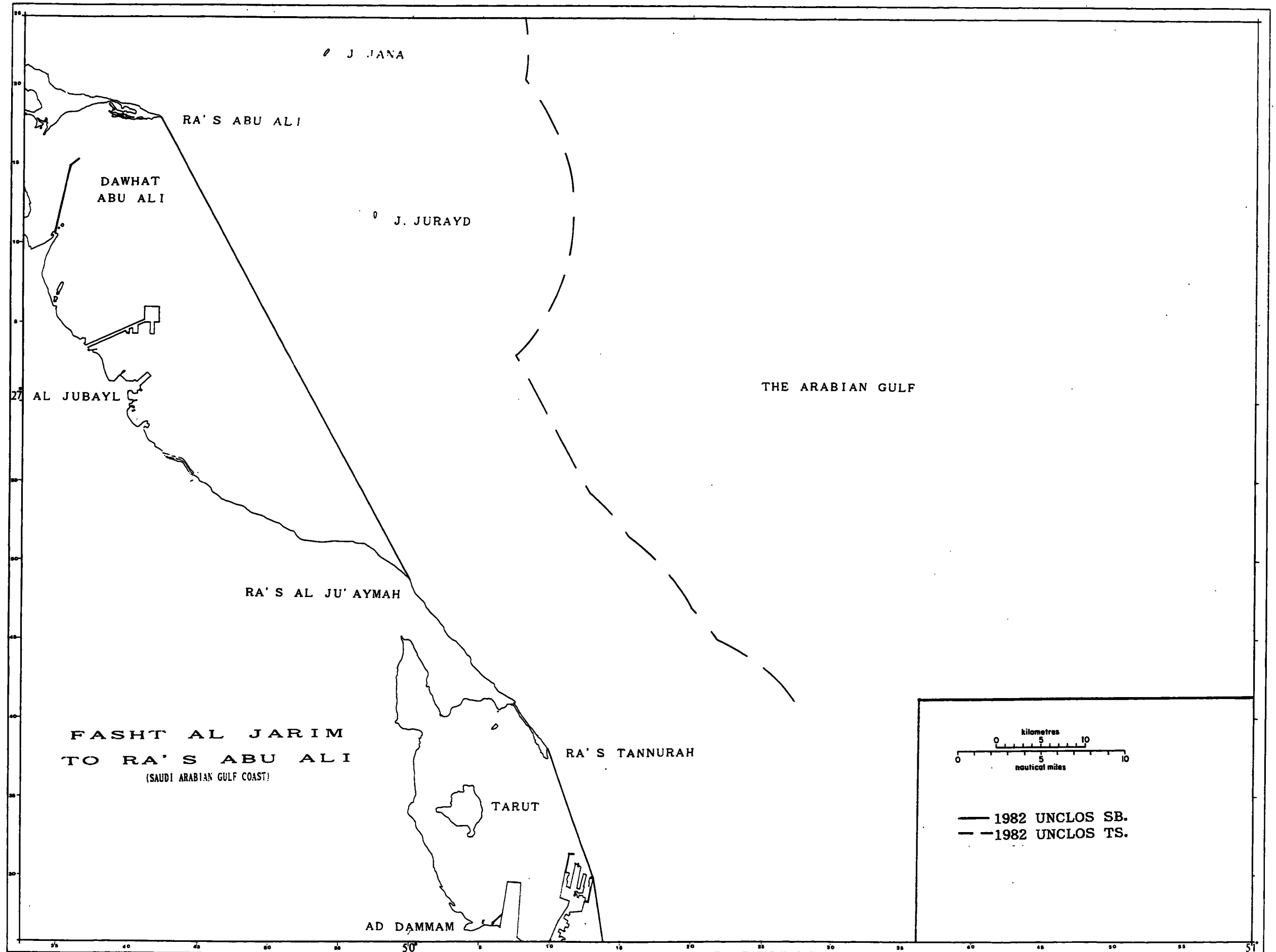


Figure 2.46

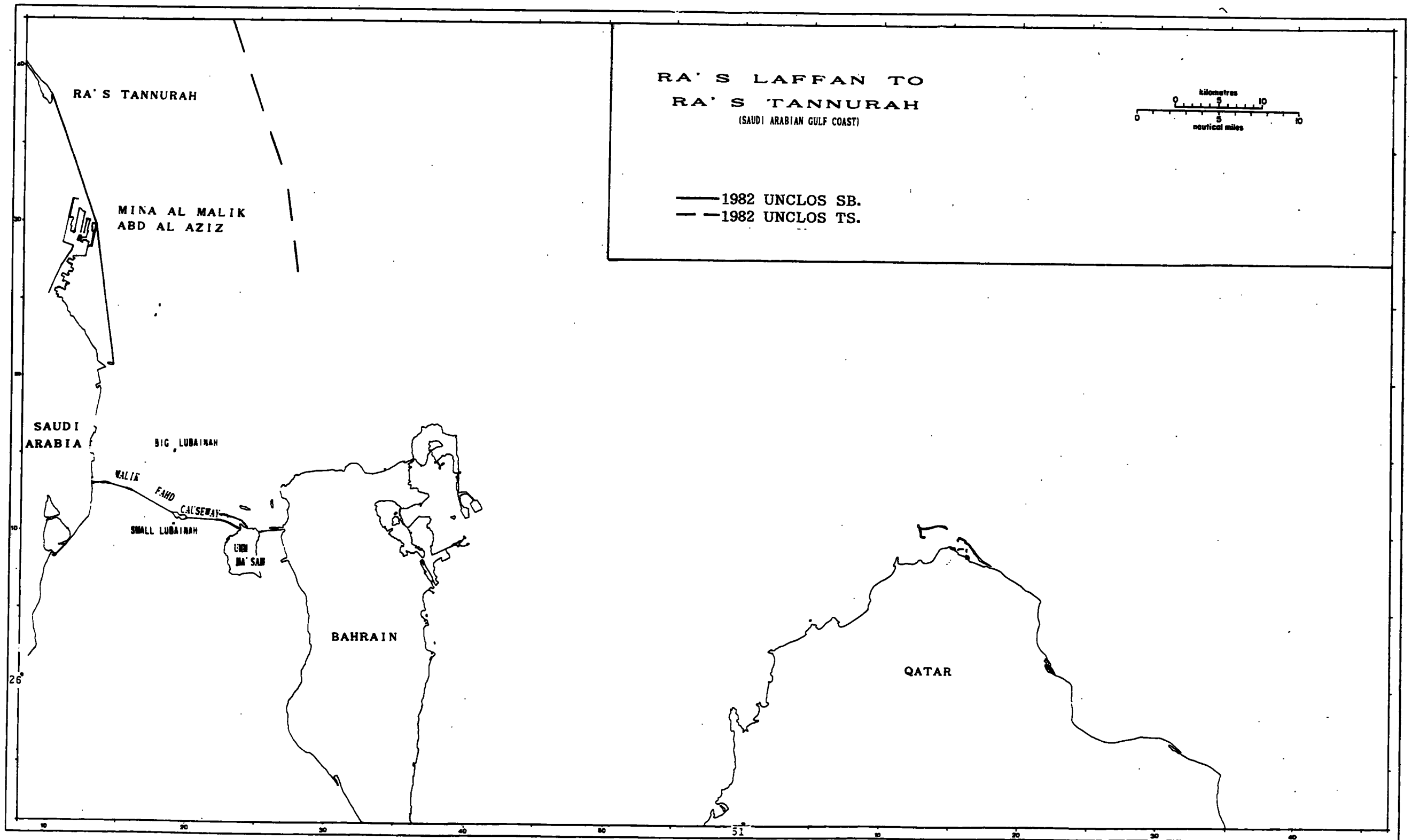


Figure 2.47

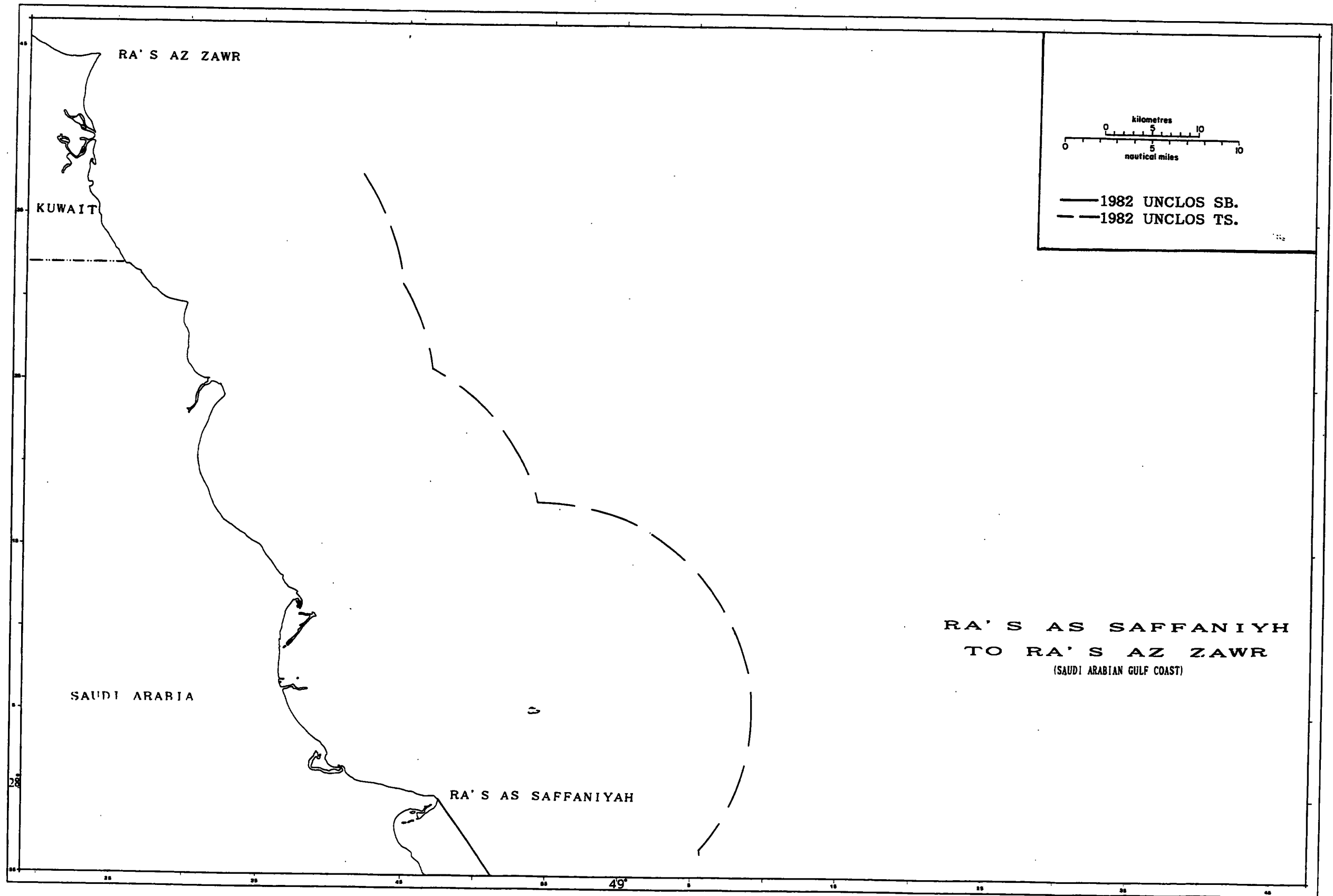


Figure 3.1

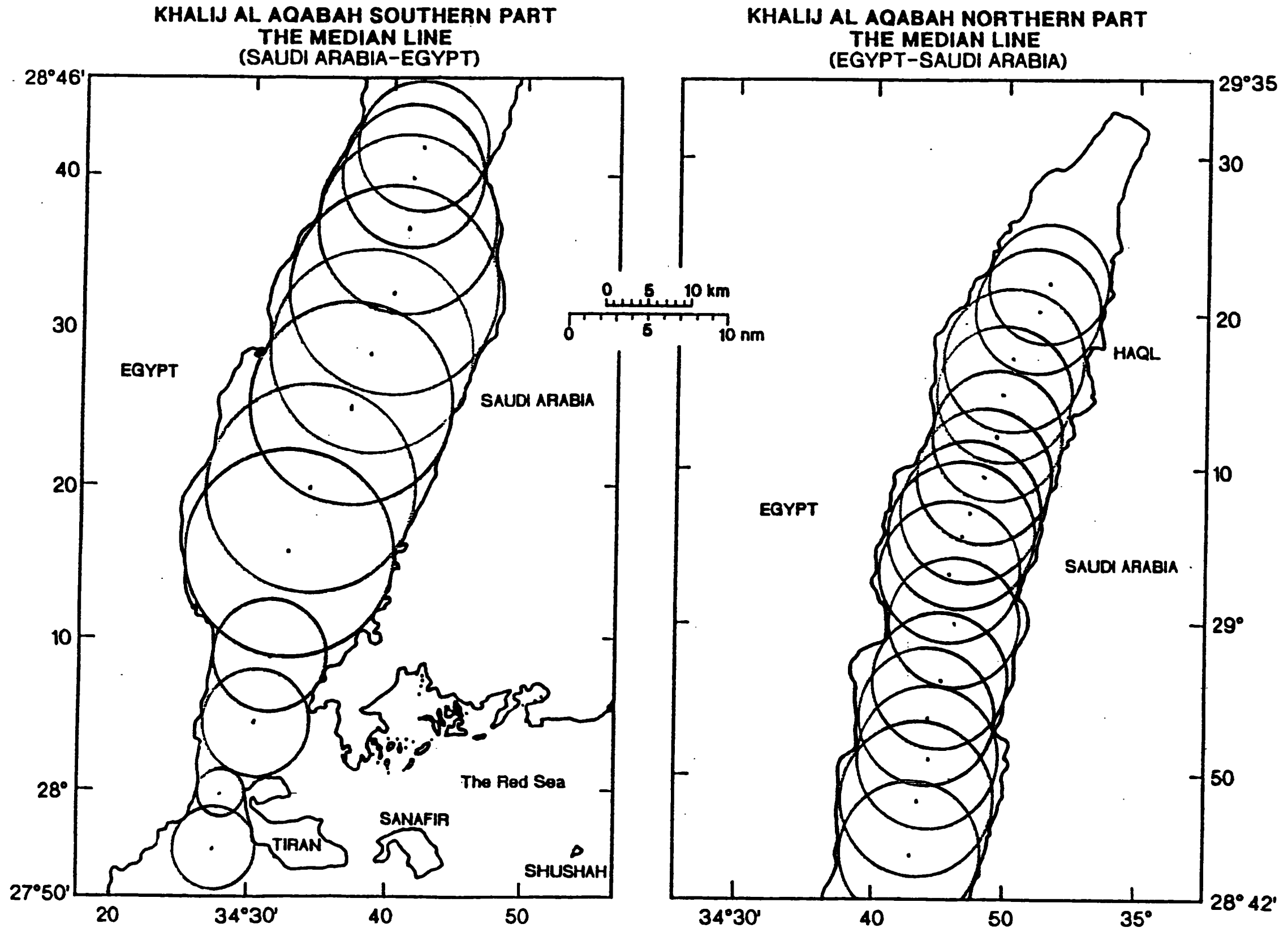


Figure 3.2

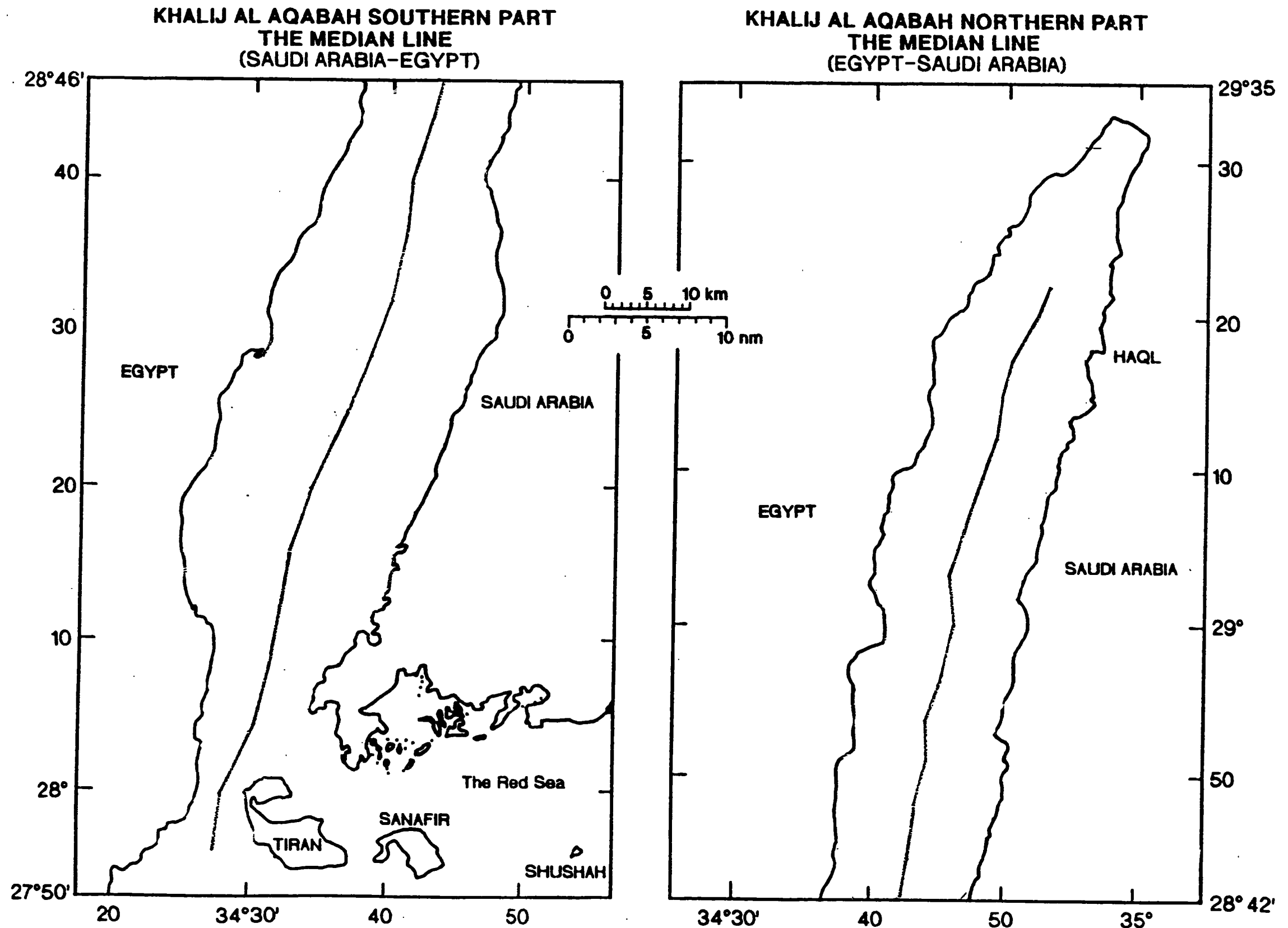
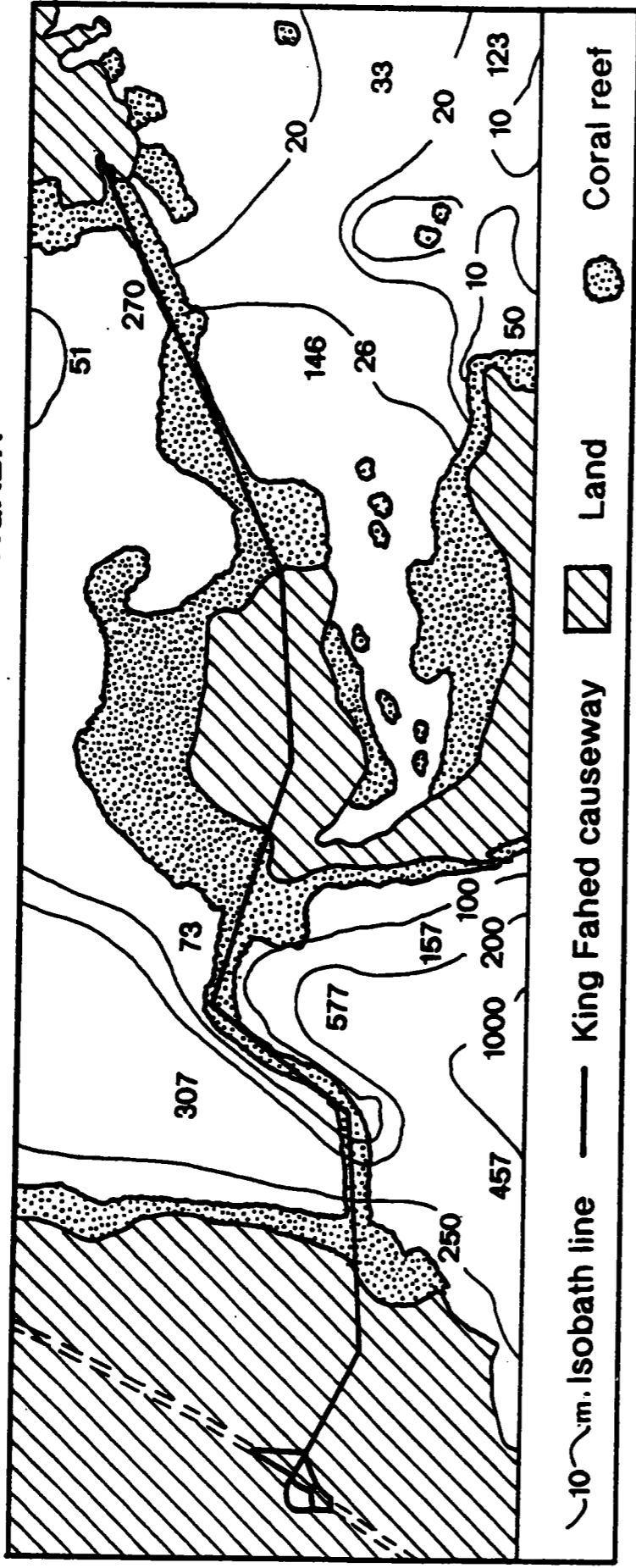
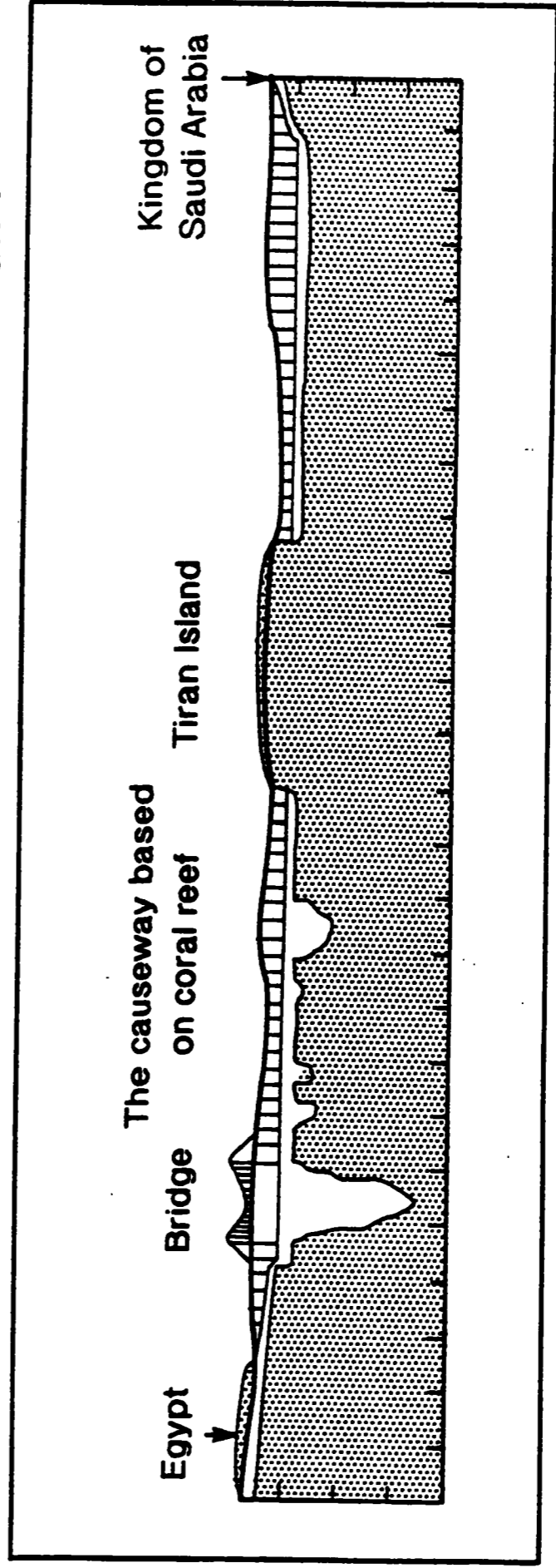


Figure 3.3

**KING FAHAD CAUSEWAY BETWEEN SAUDI ARABIA AND EGYPT
AT THE ENTRANCE OF THE GULF OF AQABA**

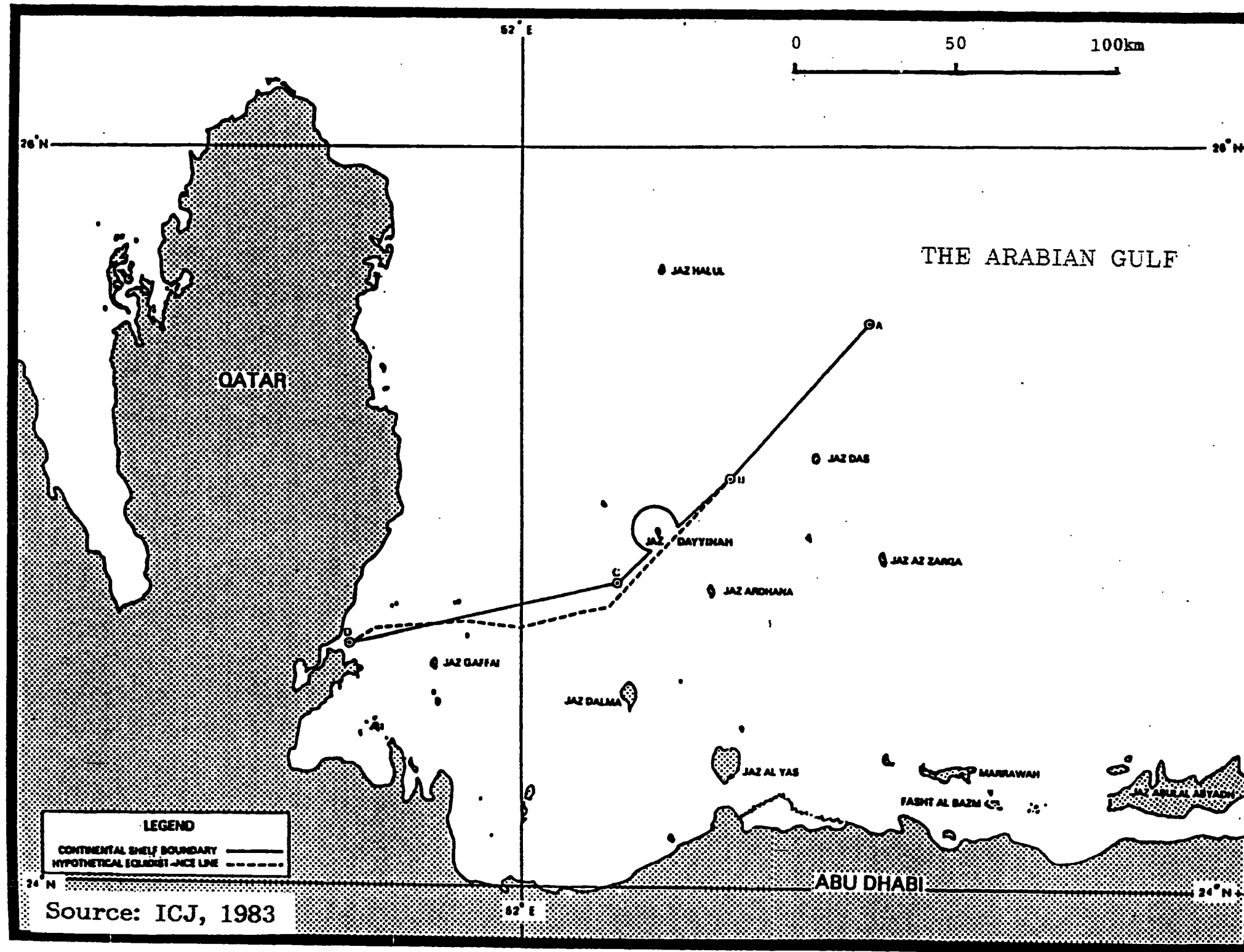


KING FAHAD CAUSEWAY PLAN BETWEEN SAUDI ARABIA AND EGYPT



SOURCE: Al-Sayf, 1990

Figure 3.4



Qatar-Abu Dhabi Continental Shelf Boundary

Figure 3.5

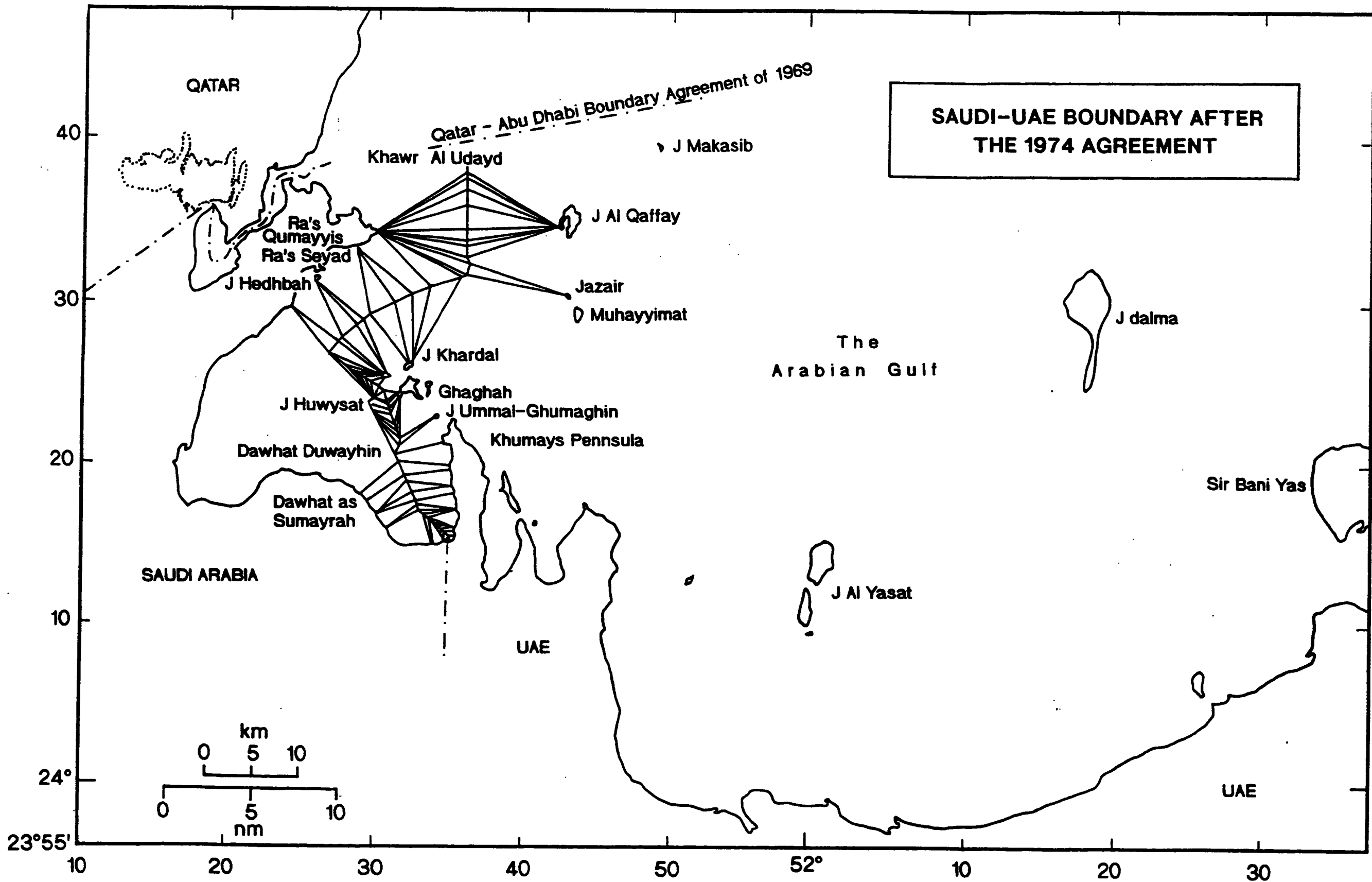


Figure 3.6

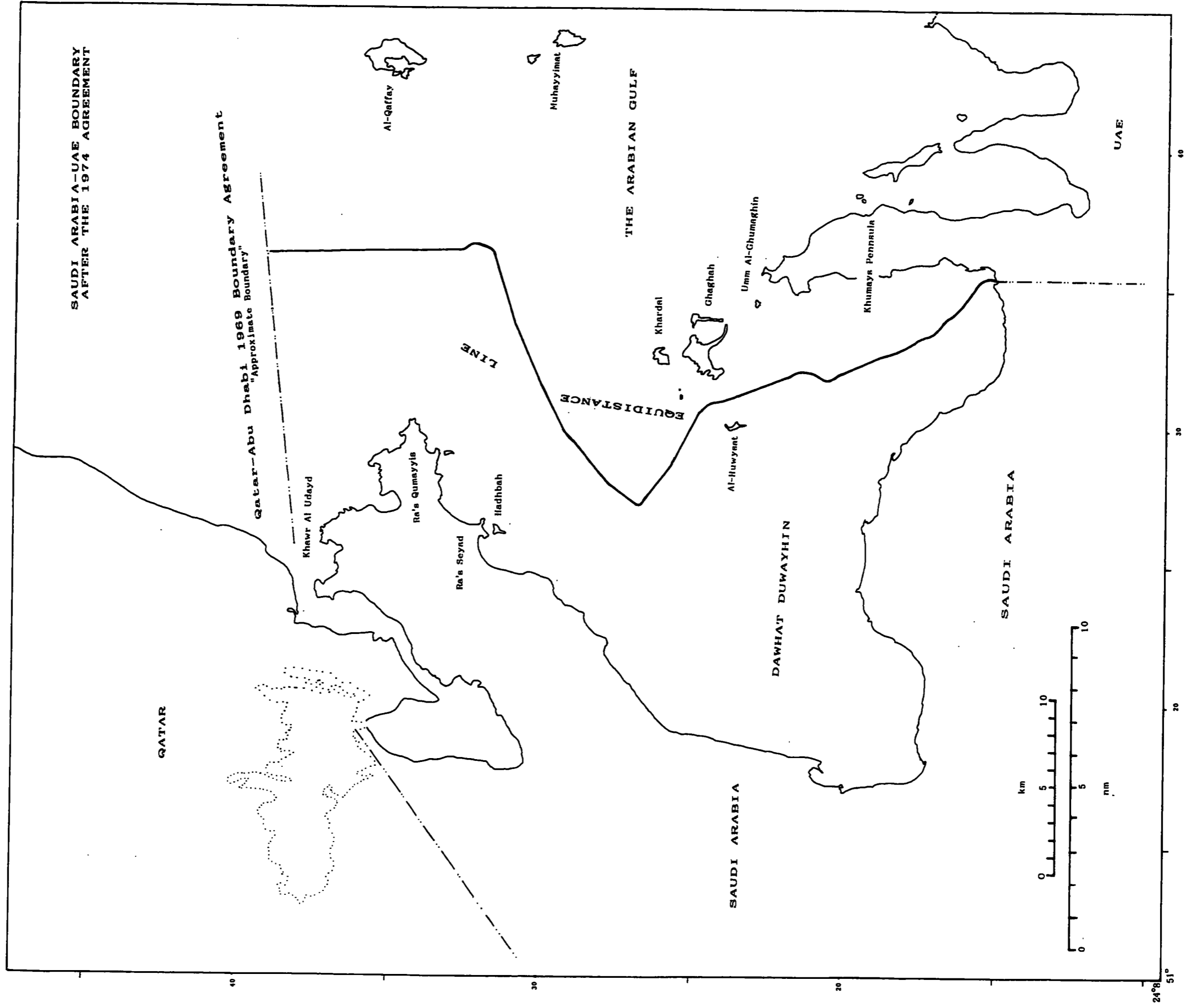
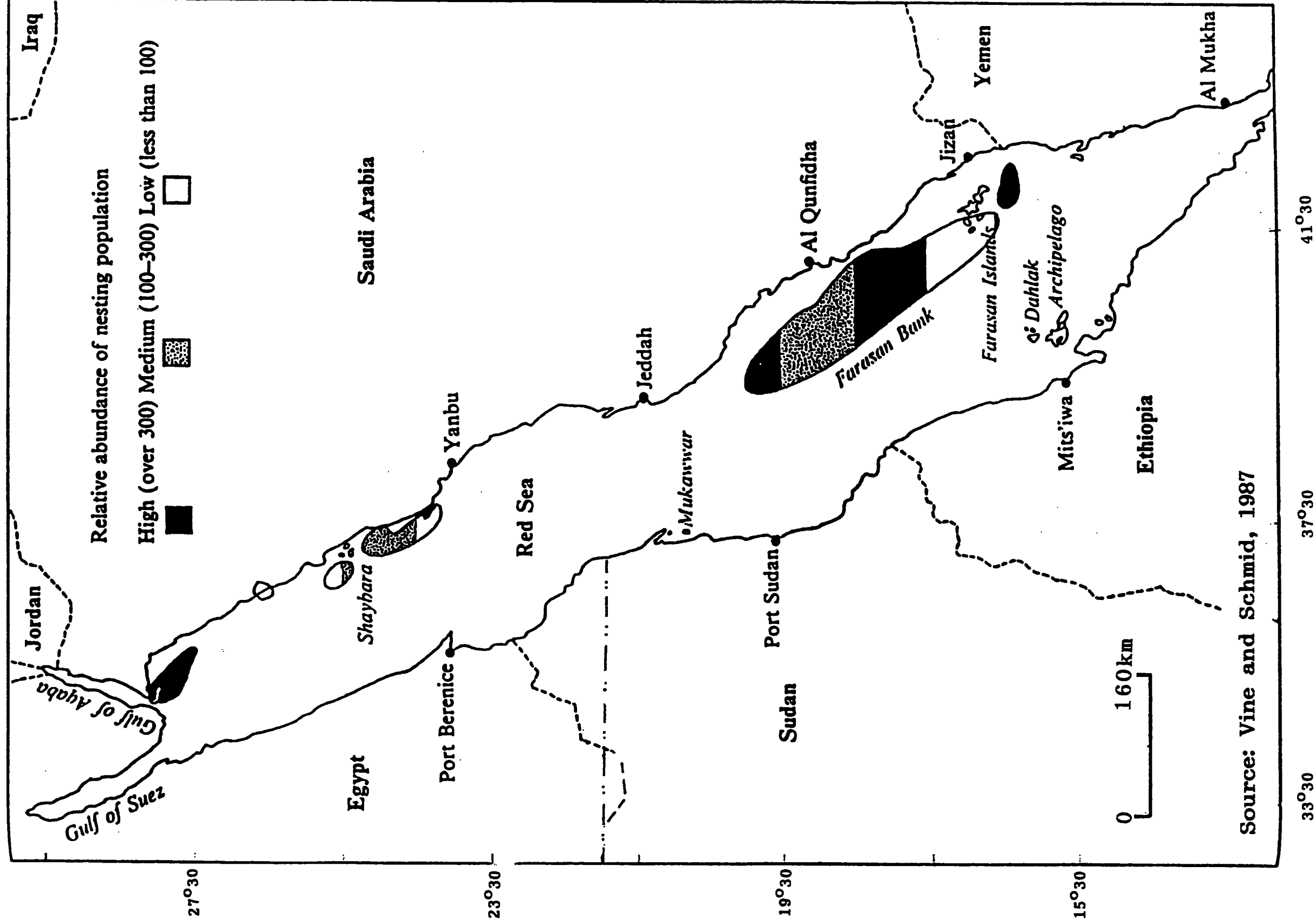
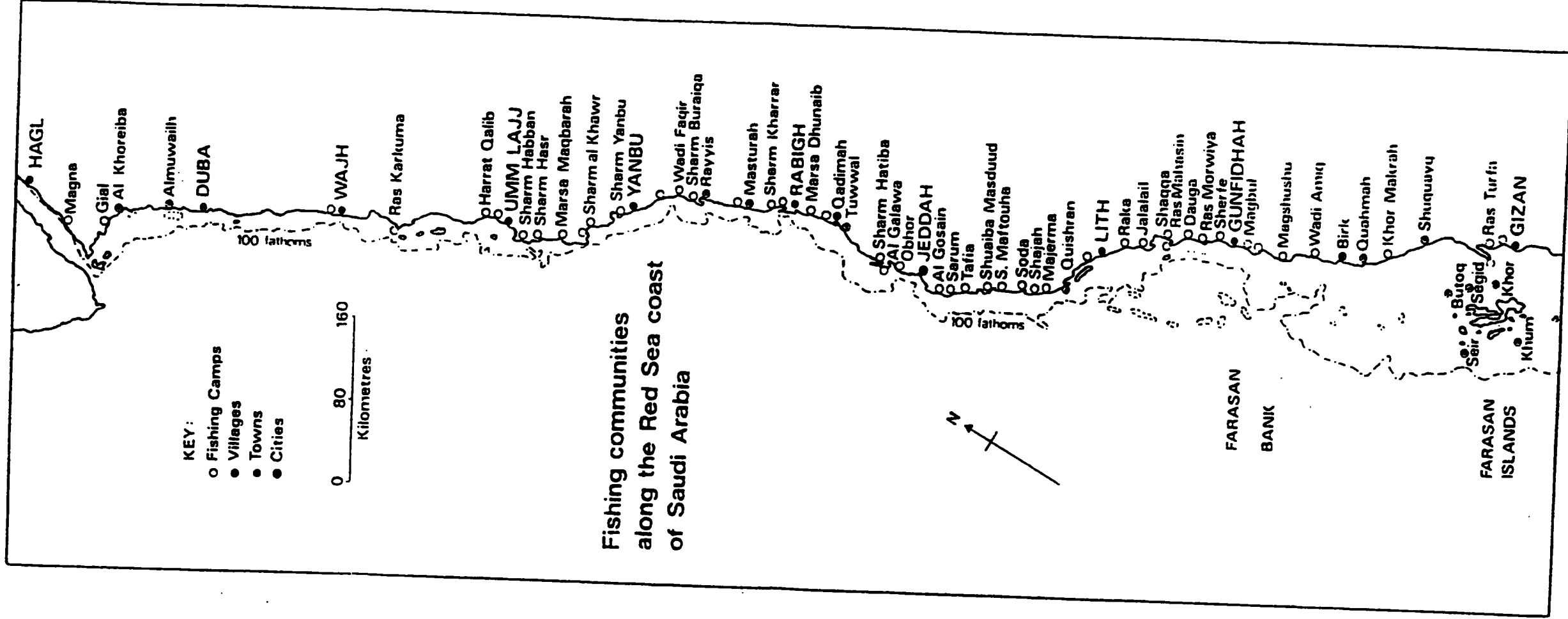


Figure 4.1



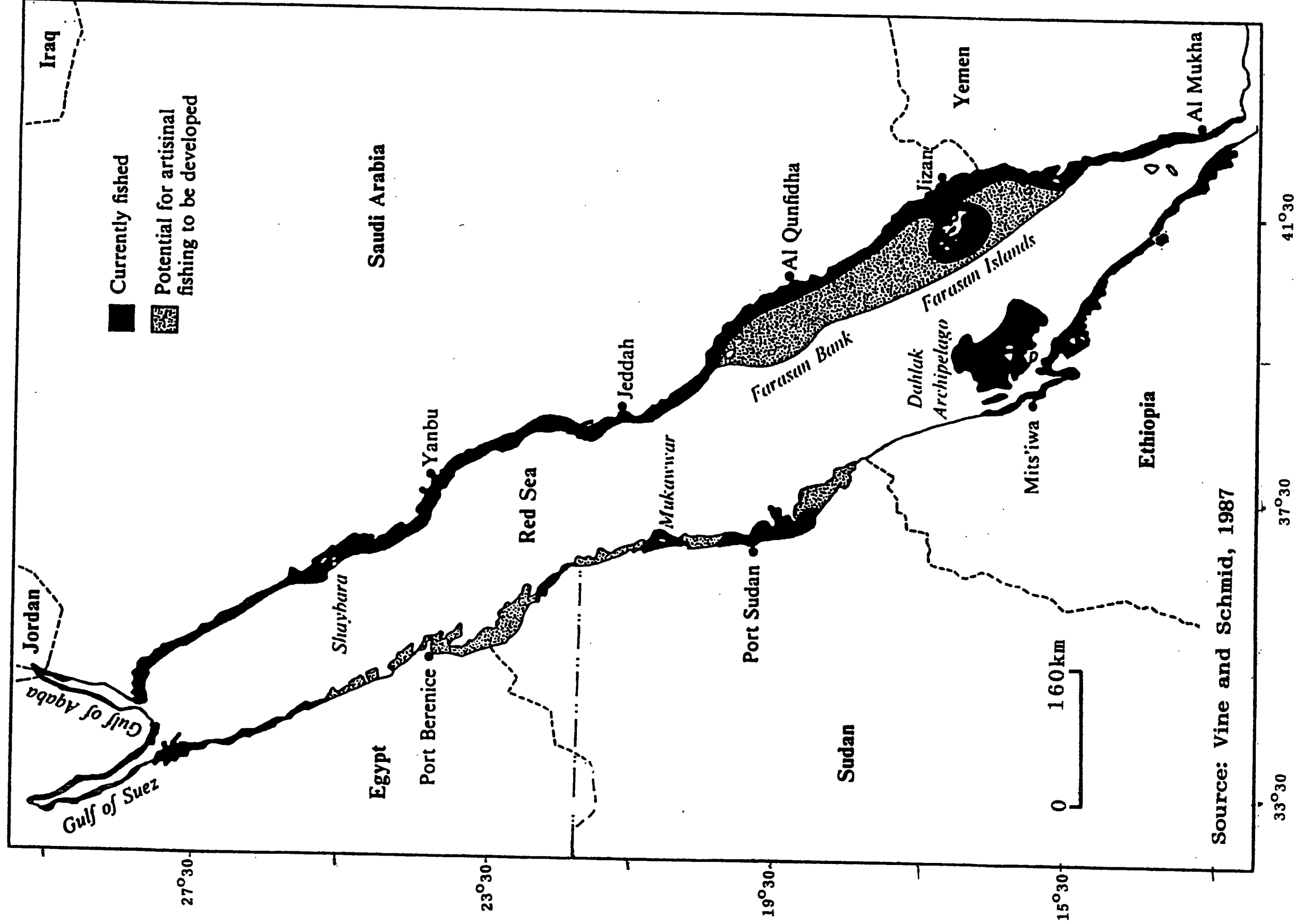
Turtle Nesting Populations in the Red Sea

Figure 4.2



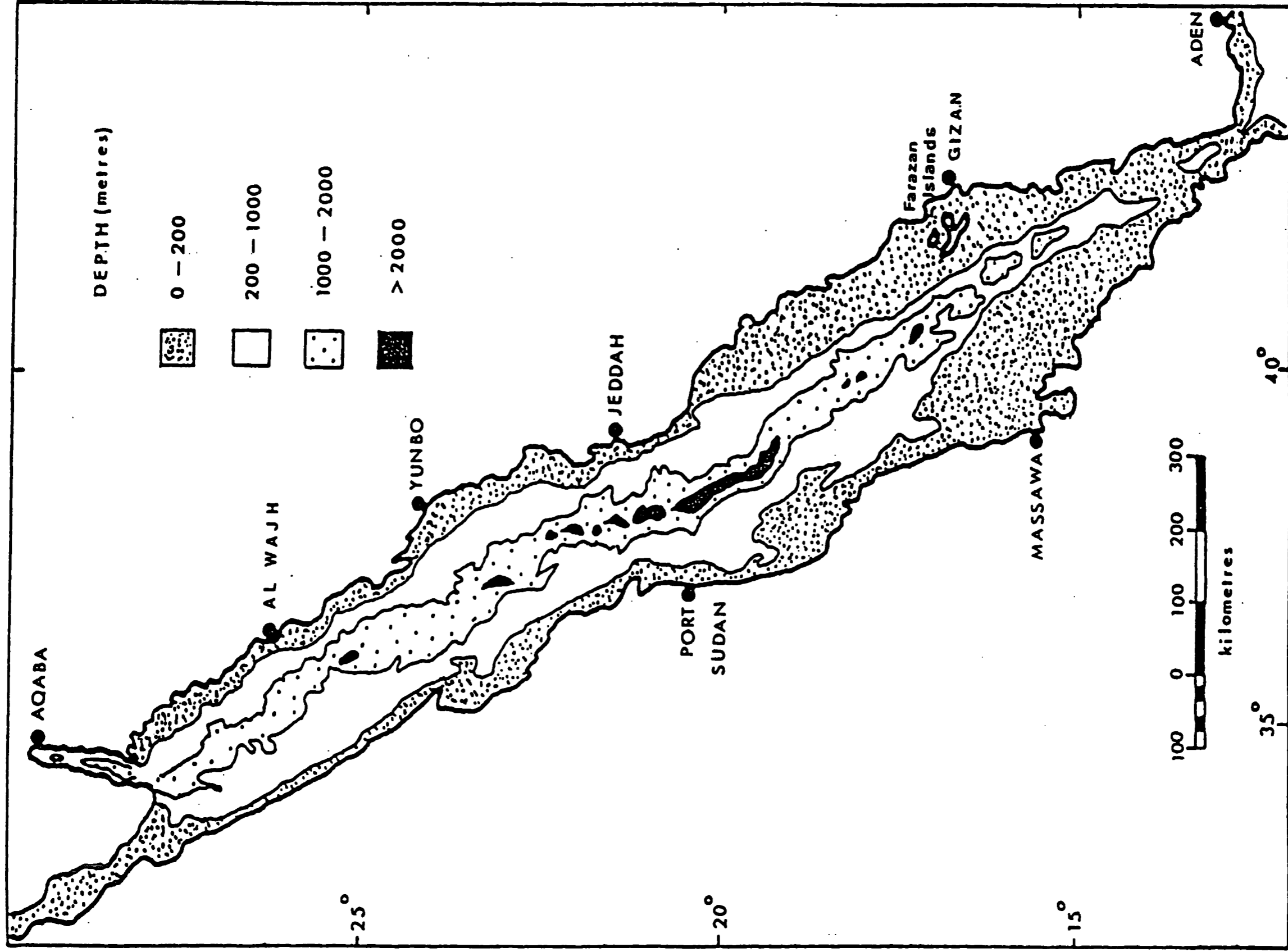
Source: MAWR, no date

Figure 4.3



Source: Vine and Schmid, 1987

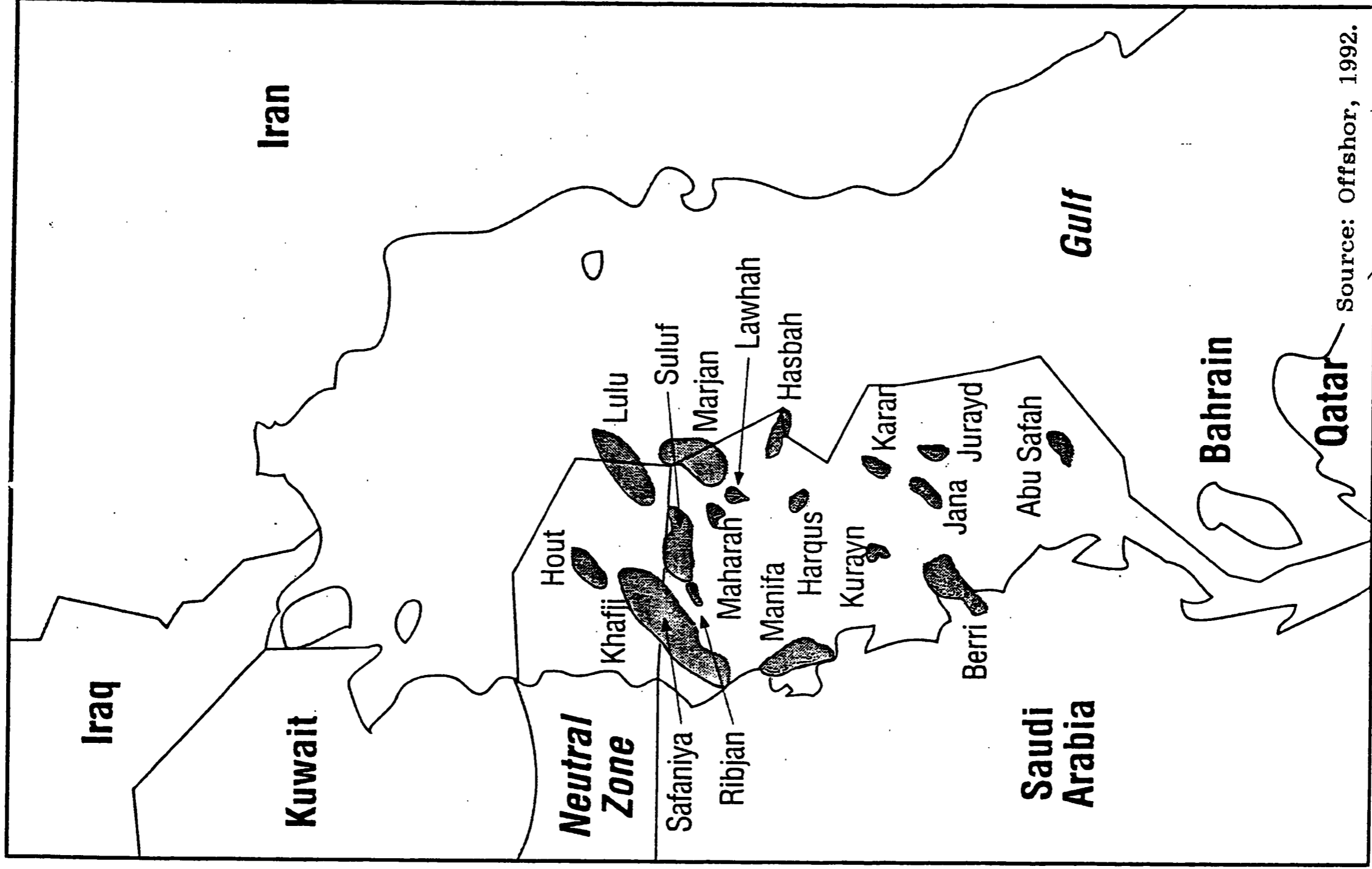
Figure 5.1



Bathymetric Chart of the Red Sea
(From data supplied by Admiralty Chart C 6359)

Source: Morley, 1975

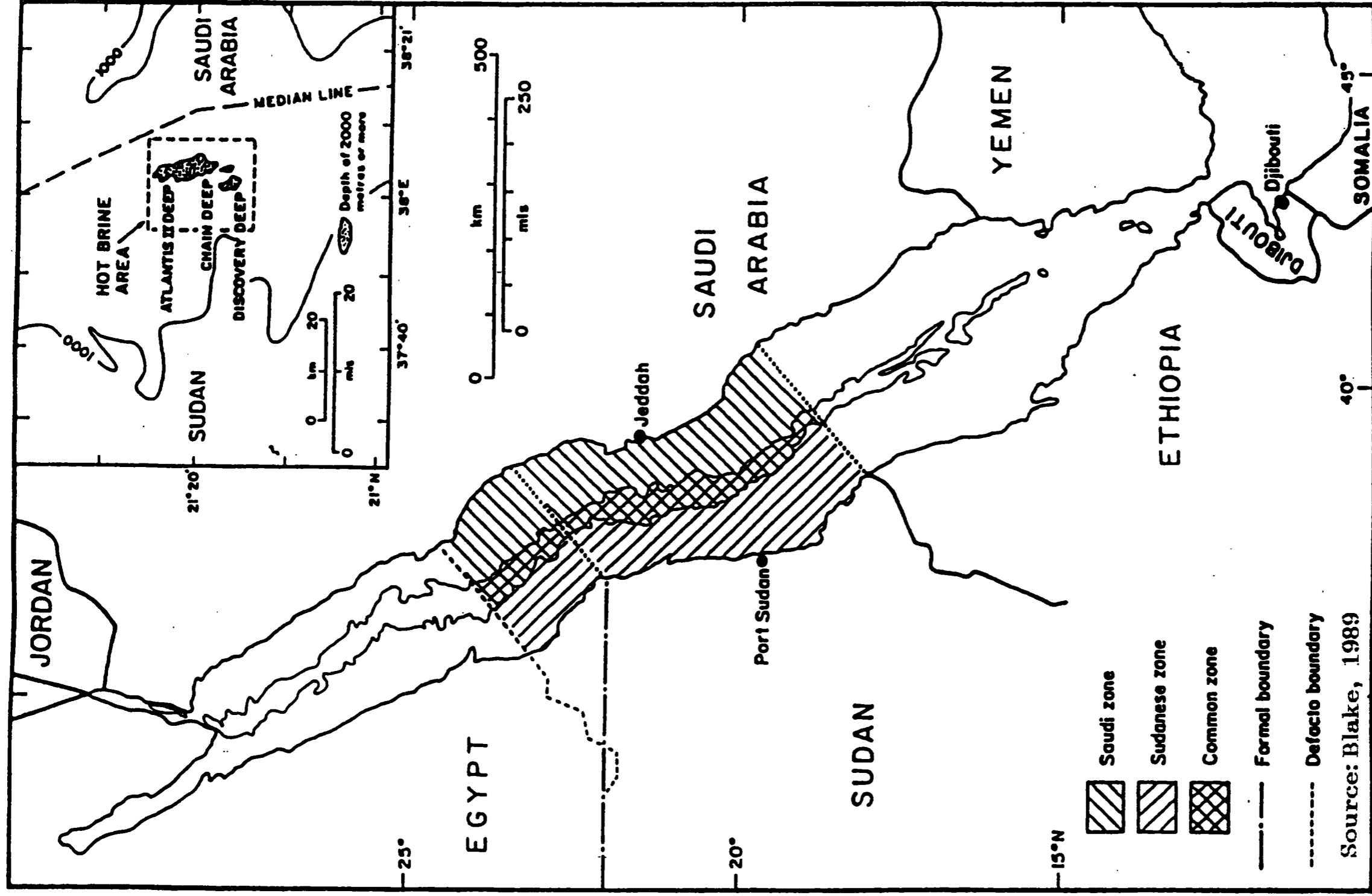
Figure 5.2



Source: Offshor, 1992.

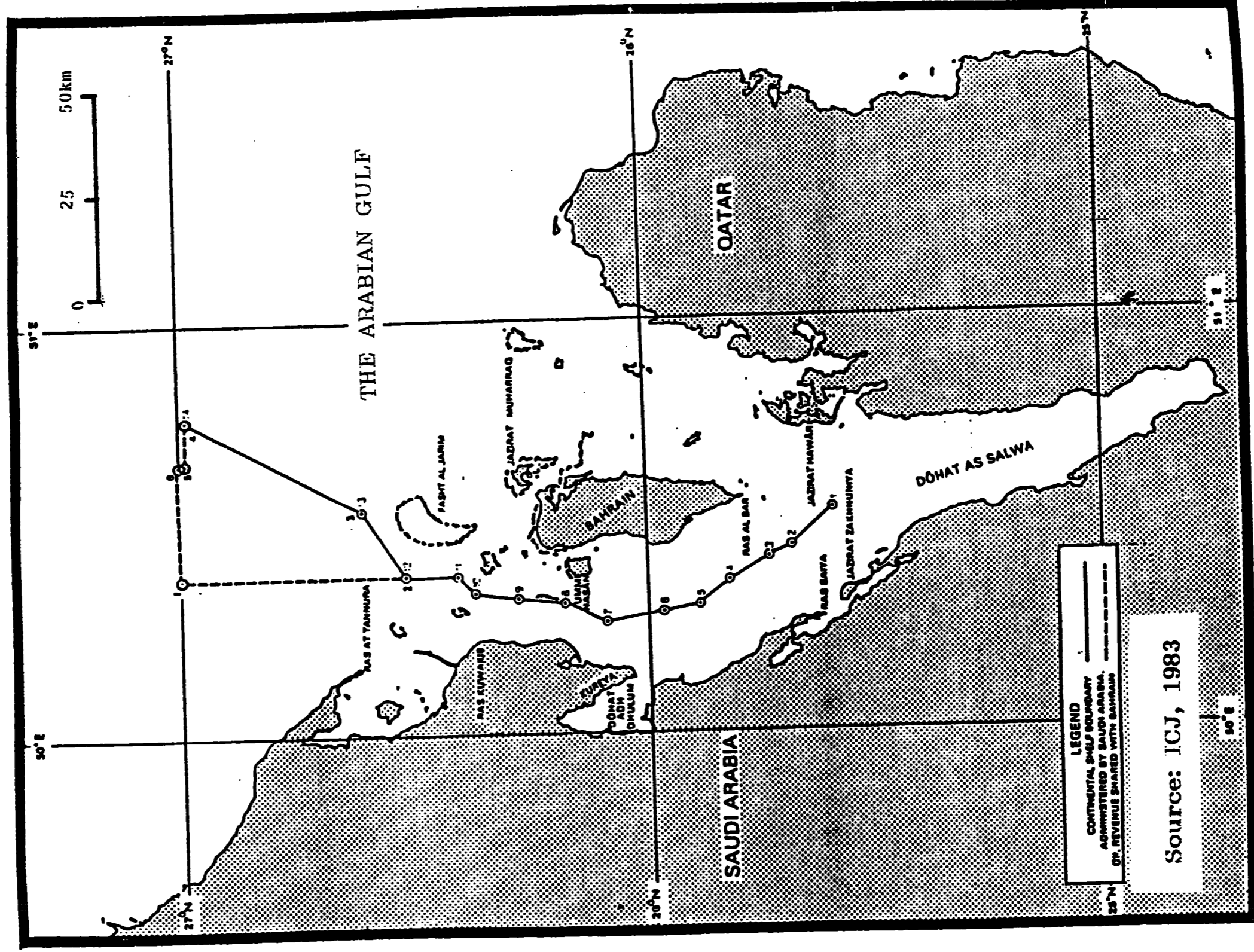
Saudi Offshore Oil Fields in the Arabian Gulf

Figure 5.3



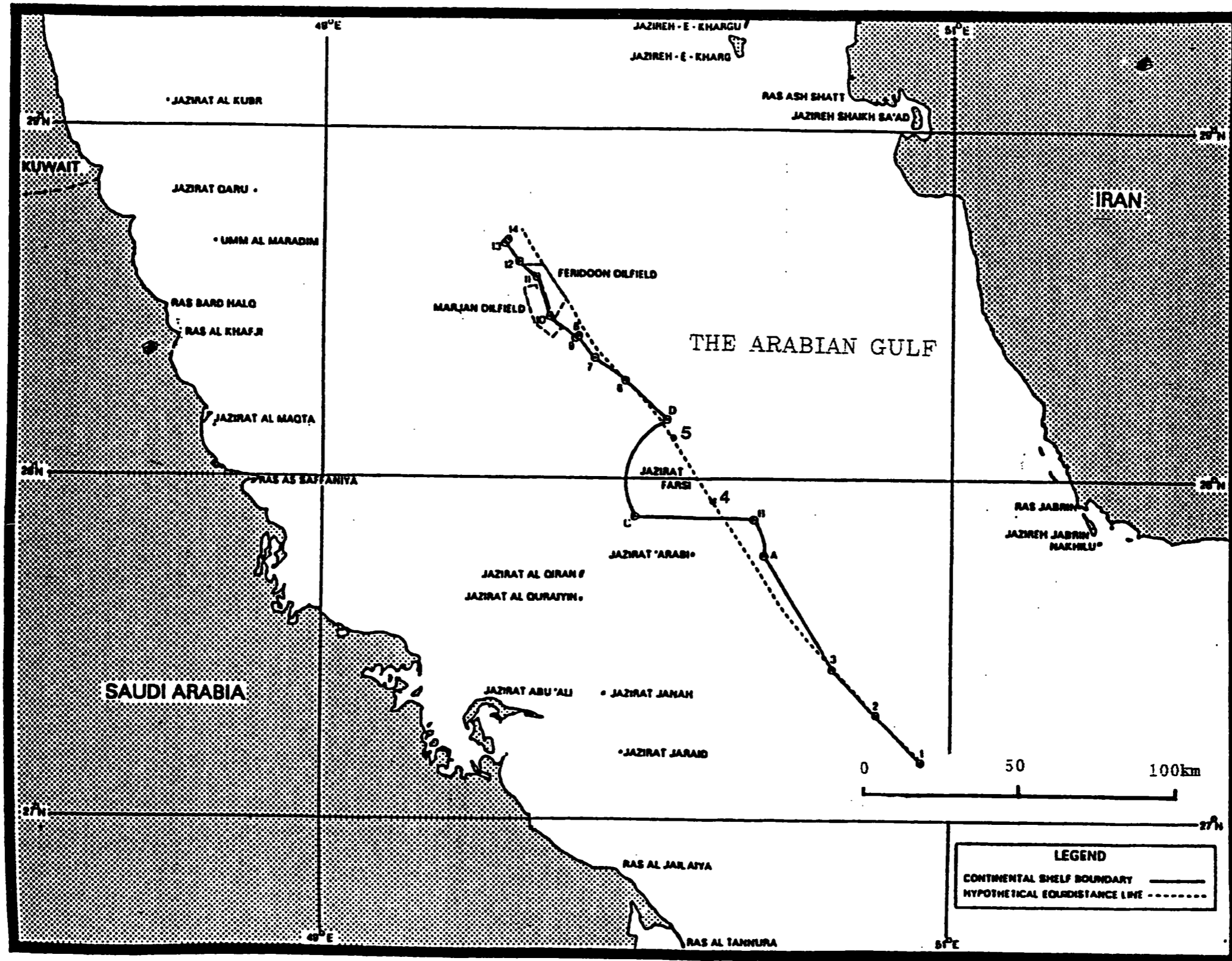
Saudi Arabia-Sudan 1974 Agreement on the Red Sea
 Inset: Hypothetical Median Line and Atlantis II Deep

Figure 6.1



Saudi Arabia-Baharin Continental Shelf Boundary

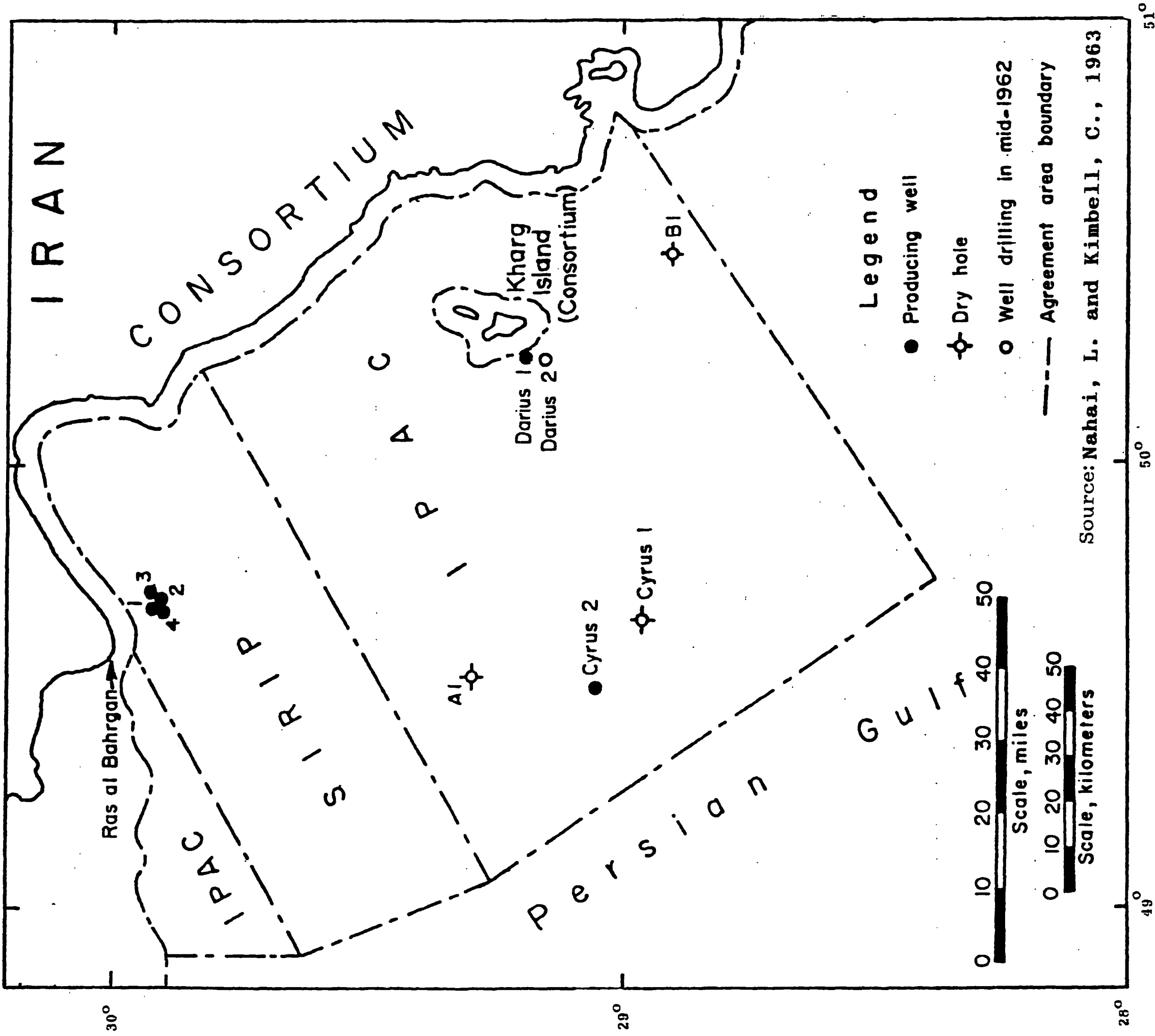
Figure 6.2



Source: ICJ, 1983

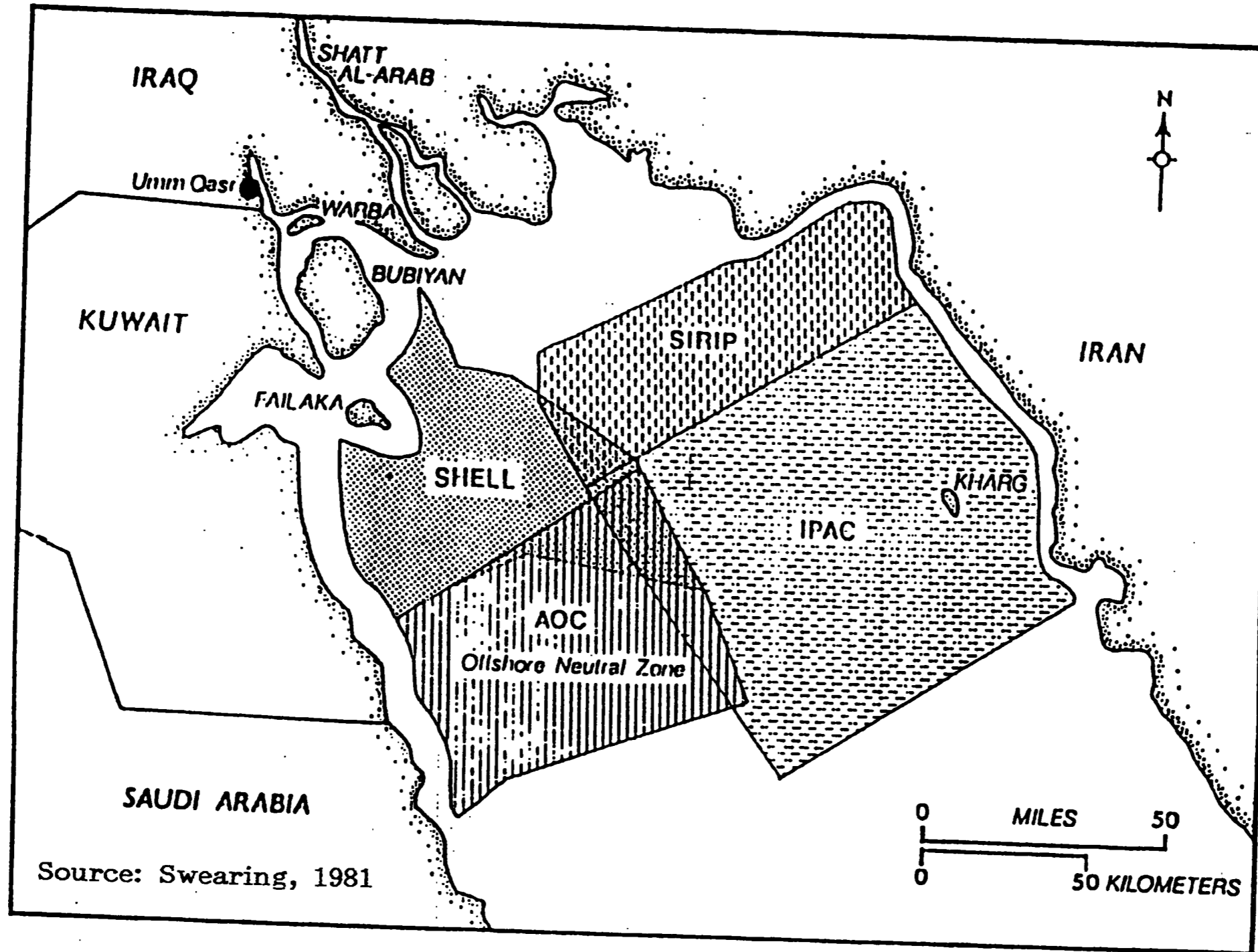
Saudi Arabia-Iran Continental Shelf Boundary

Figure 6.3



Detailed Map of Offshore Concession Areas in Iran

Figure 6.4



Source: Swearing, 1981

Overlapping Oil Concession Areas in the Upper Gulf

Figure 6.5

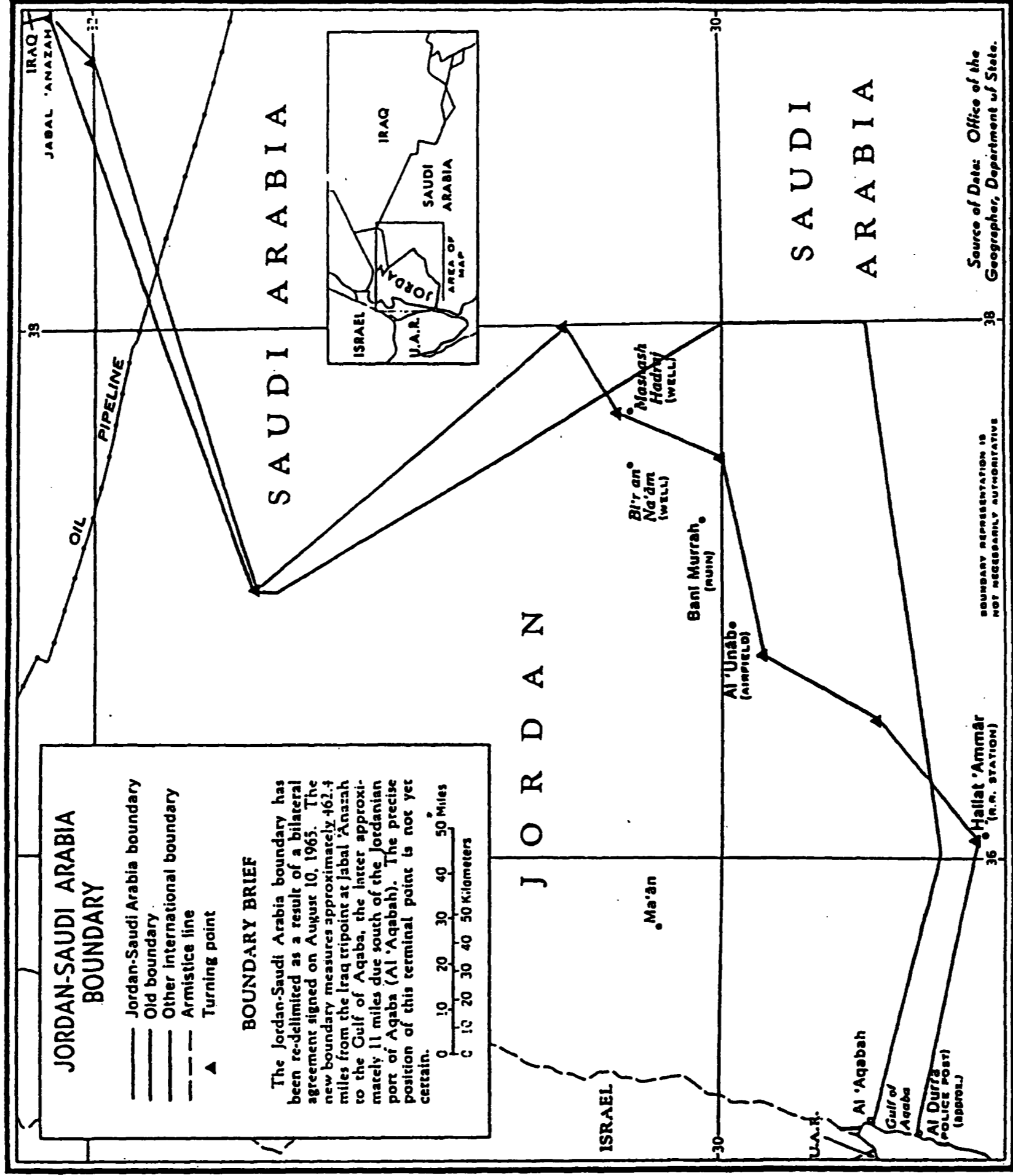


Figure 6.6

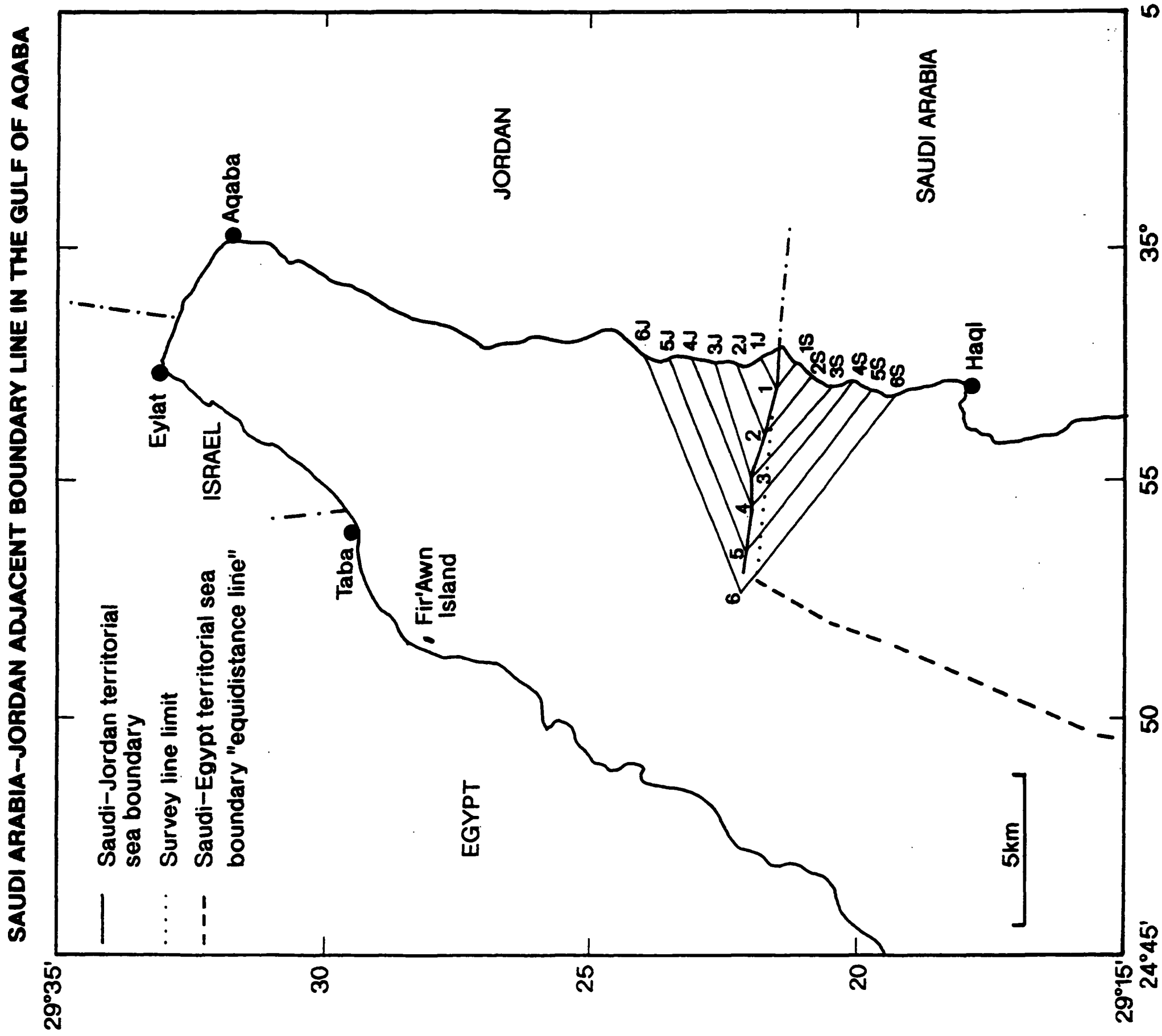
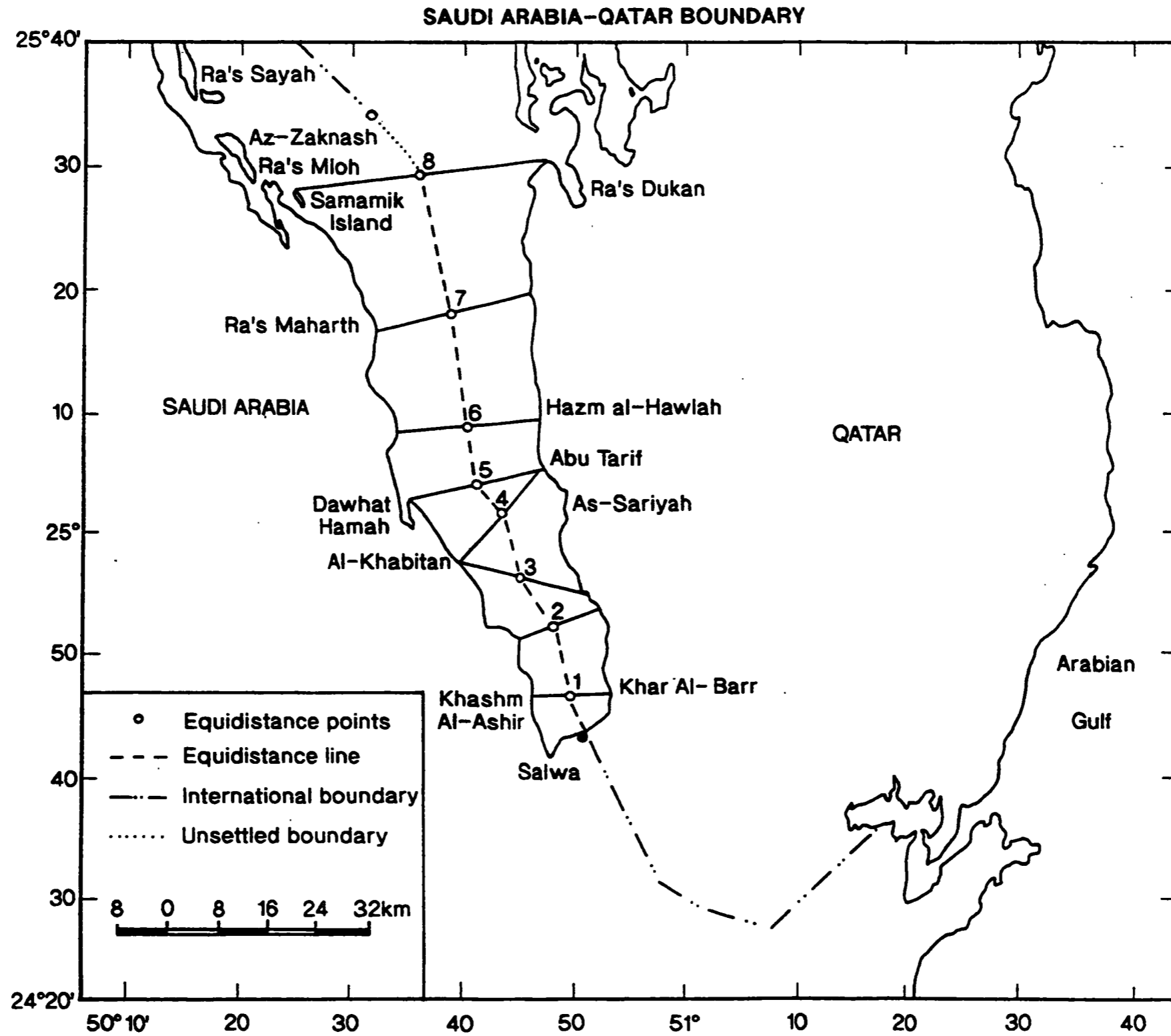
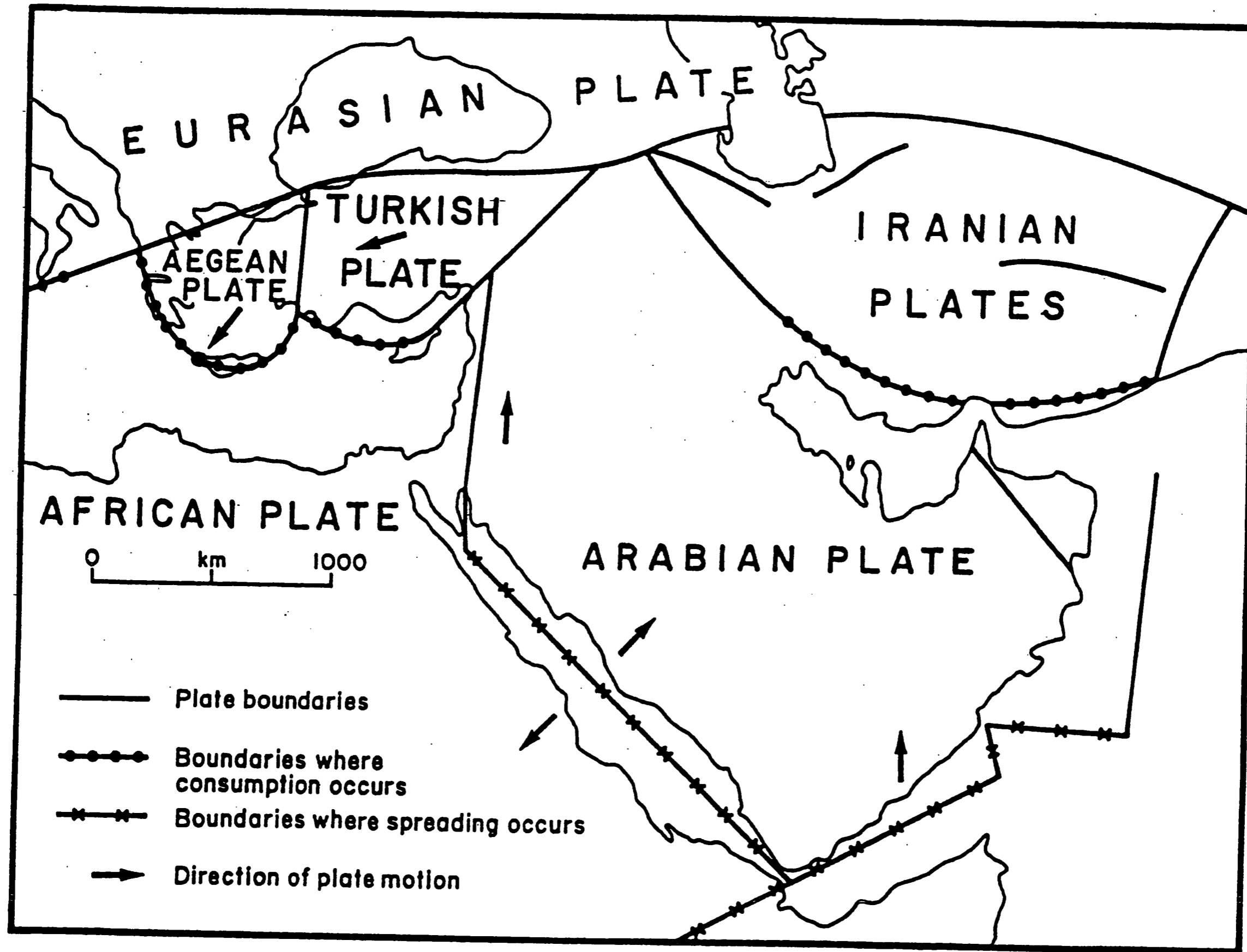


Figure 6.7



SOURCE: Al-Sayf 1990 based on Saudi Arabia-Qatar boundary map no. GF 222Y issued 1985

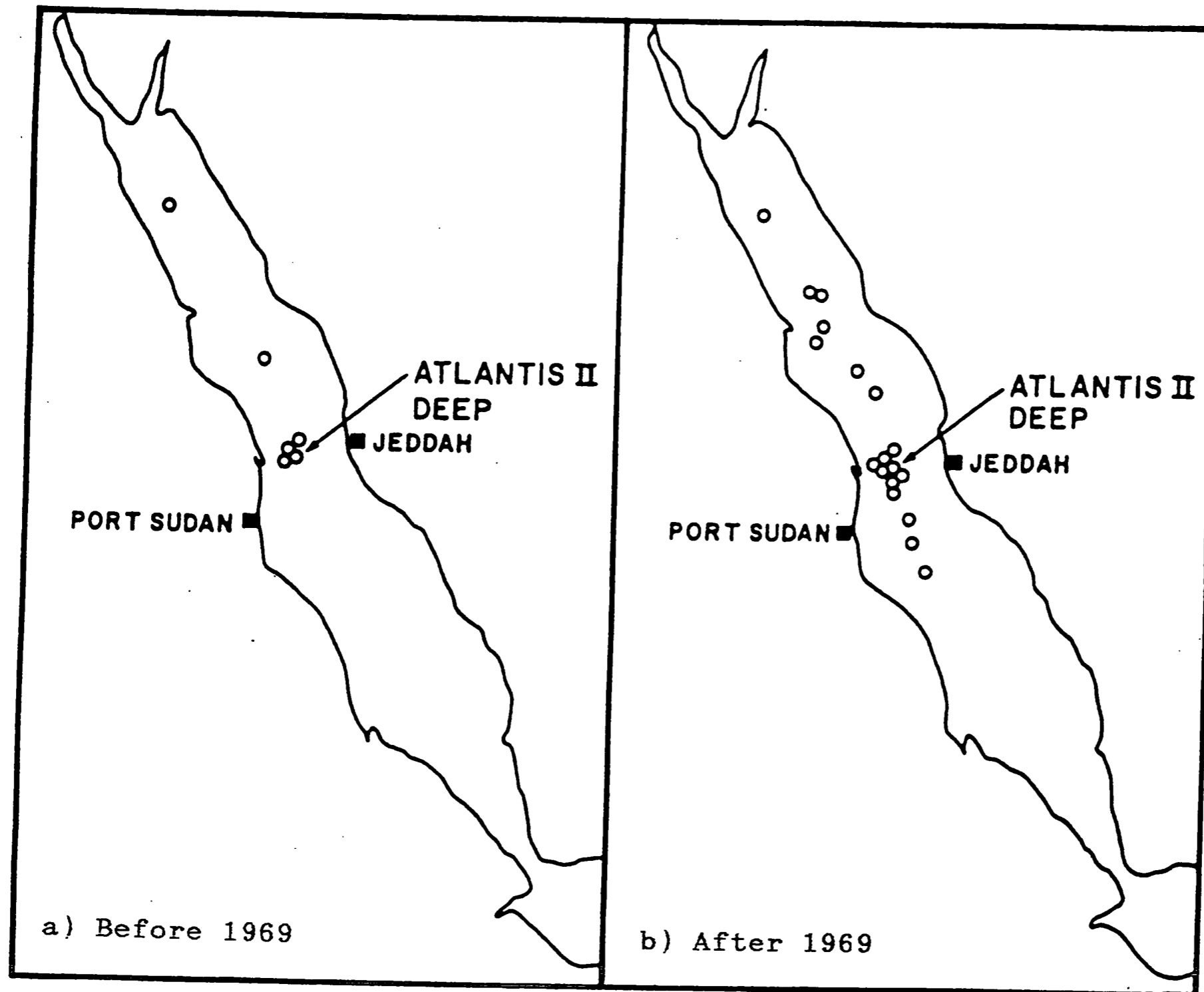
Figure 7.1



Source: Abunafeesa, 1985

Plate Tectonics and Formation of the Red Sea

Figure 7.2



Discovery of Brine Deepes and/or Metalliferous Sediments

Source: Blessenbach and Nawab, 1982

Figure 8.1

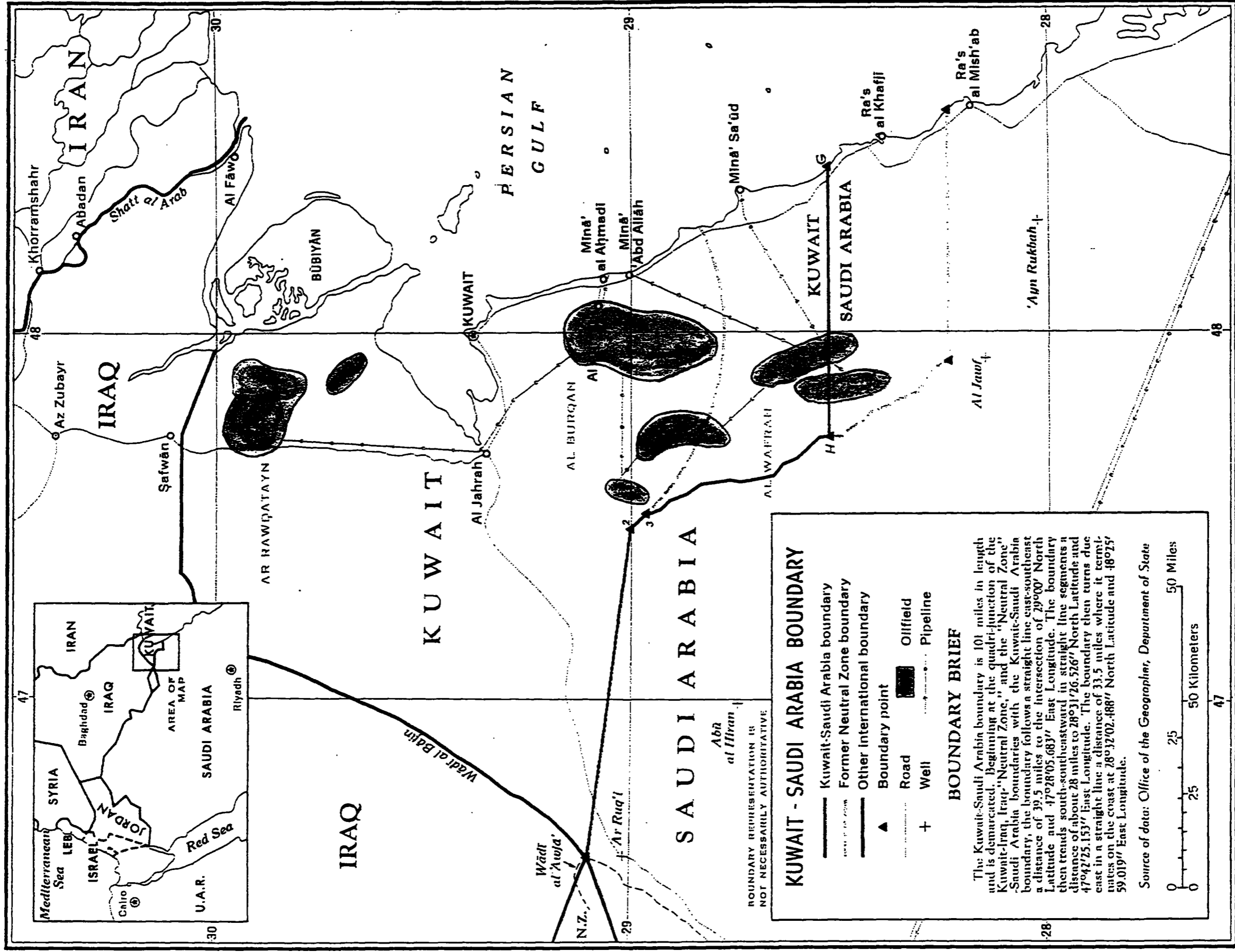
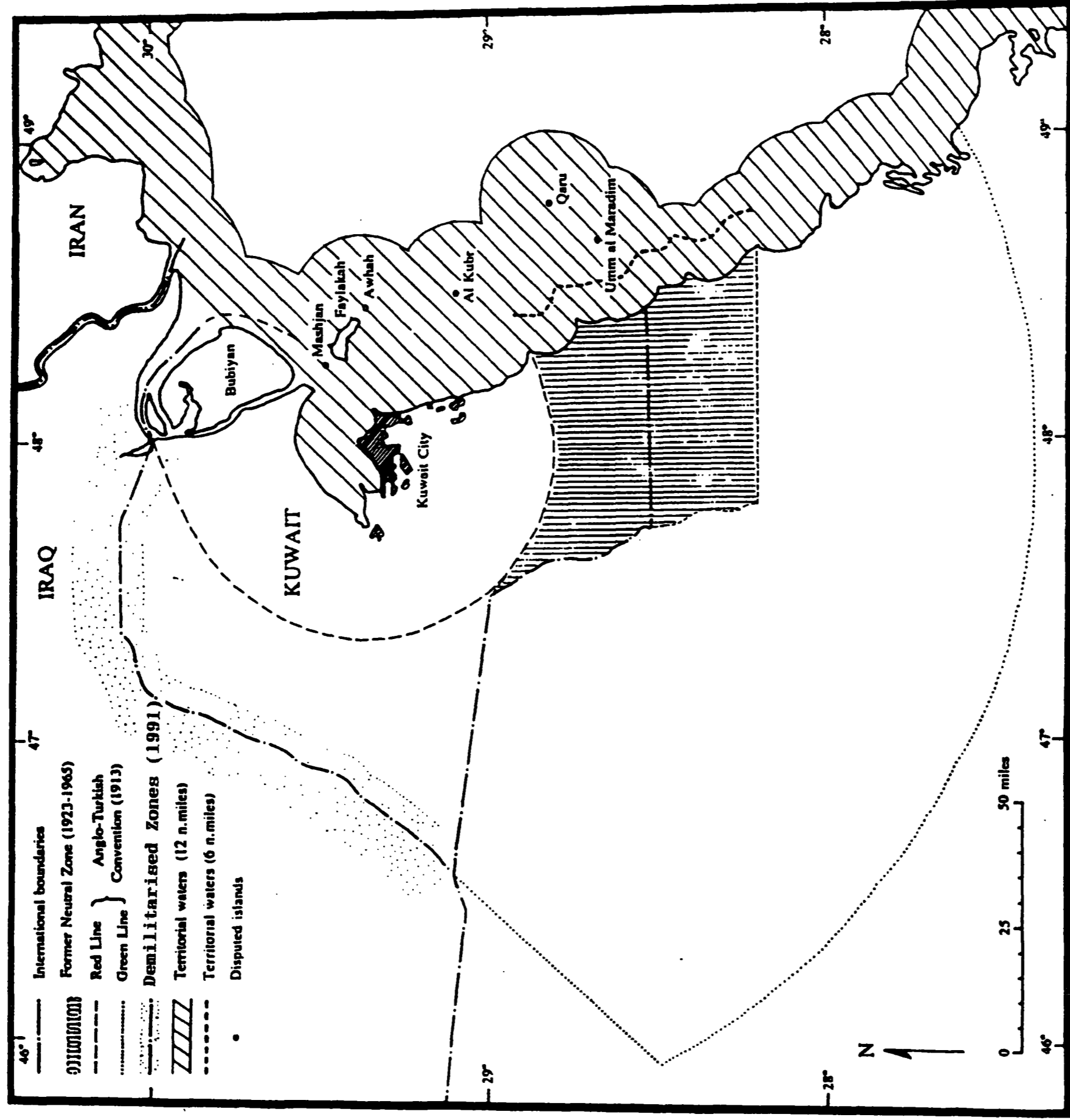


Figure 8.2



Kuwait, Showing the 1913 Red and Green lines, the Former Neutral Zone, and the 1991 Demilitarised Zone

Source: Blake, 1991

Figure 8.3

THE SAUDI ARABIA-KUWAIT
MARITIME BOUNDARY

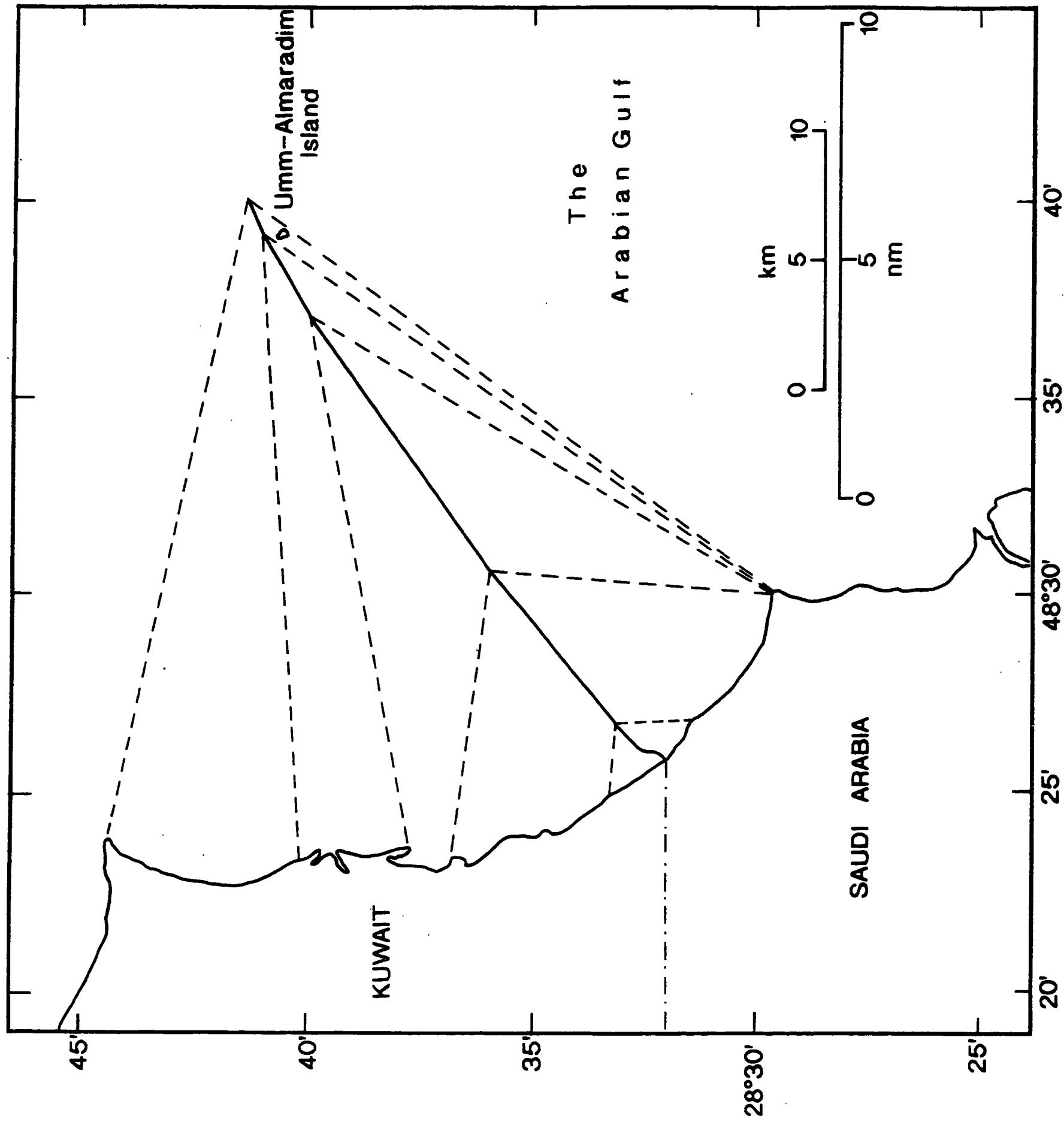
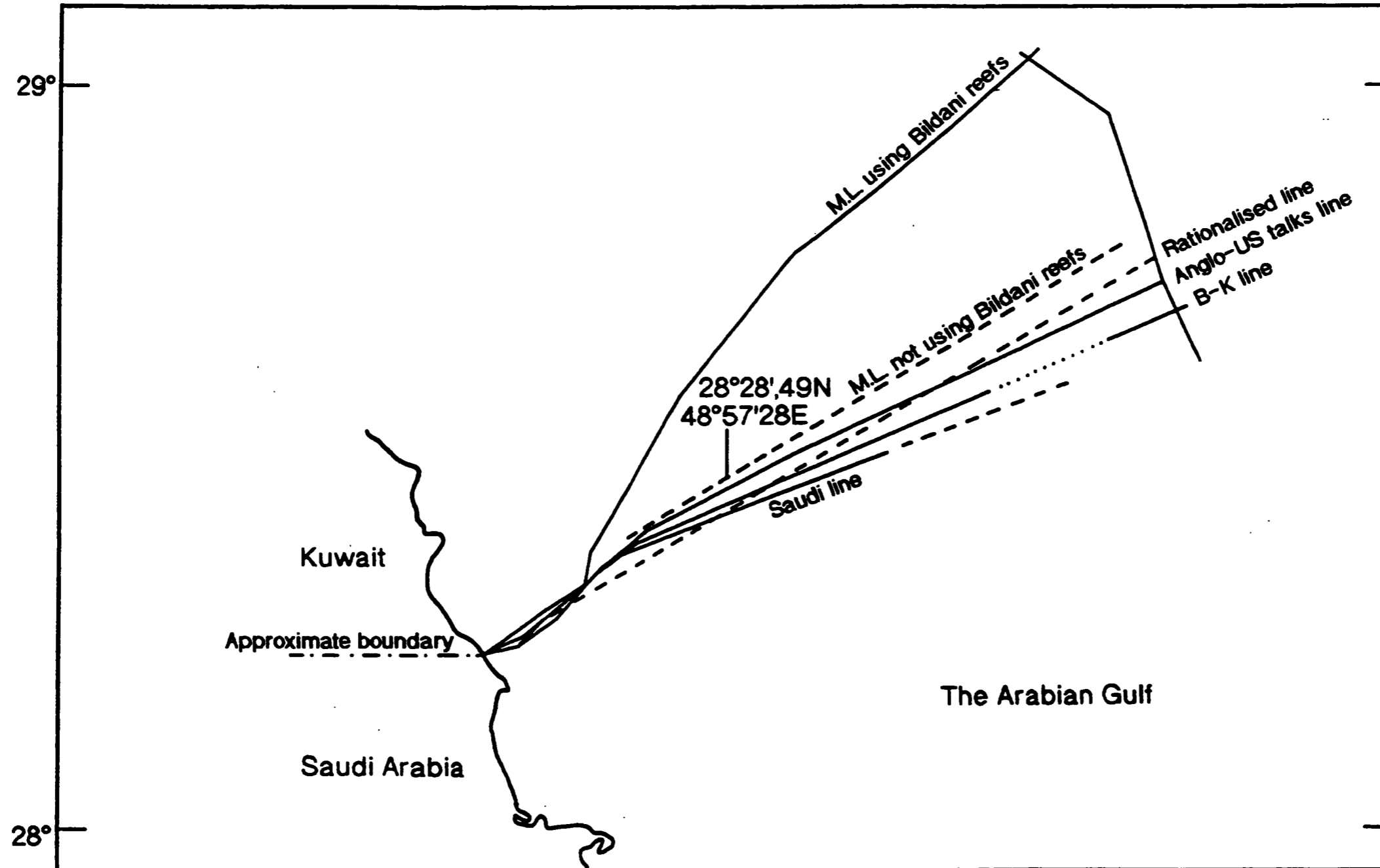


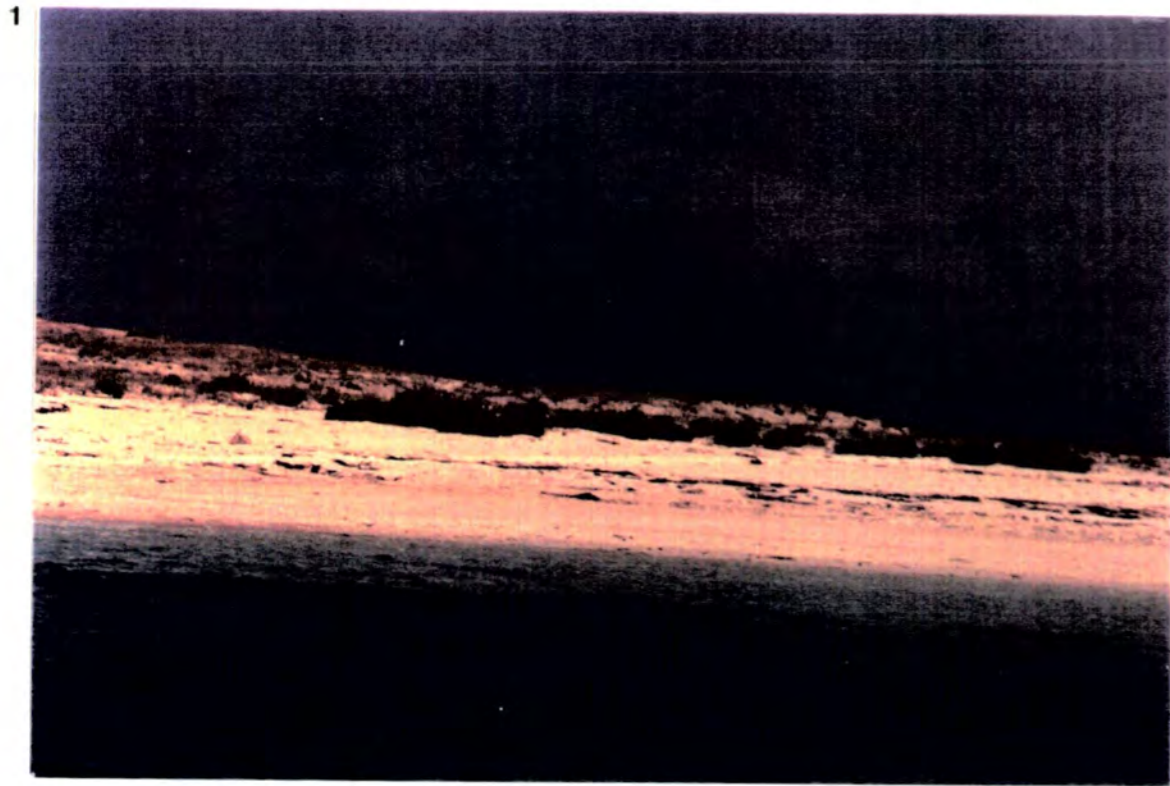
Figure 8.4

TRACING OF VARIOUS PROPOSED MEDIAN LINES (SAUDI LINE, RATIONALISED LINE, ANGLO-US TALKS LINE, LINE TAKING ACCOUNT OF BILDANI REEFS) FOR THE KUWAIT-SAUDI ARABIA NEUTRAL ZONE SEABED DIVISION, APRIL 1959



SOURCE: Schofield, 1990

1 THE LANDSCAPE OF IMENAH ISLAND (SAUDI SOUTHERN RED SEA)



3 BIRDS AT AL-DAHRAH ISLAND (SAUDI SOUTHERN RED SEA)



2 FISHING ACTIVITIES IN AL-QADIYAH (SAUDI SOUTHERN RED SEA)

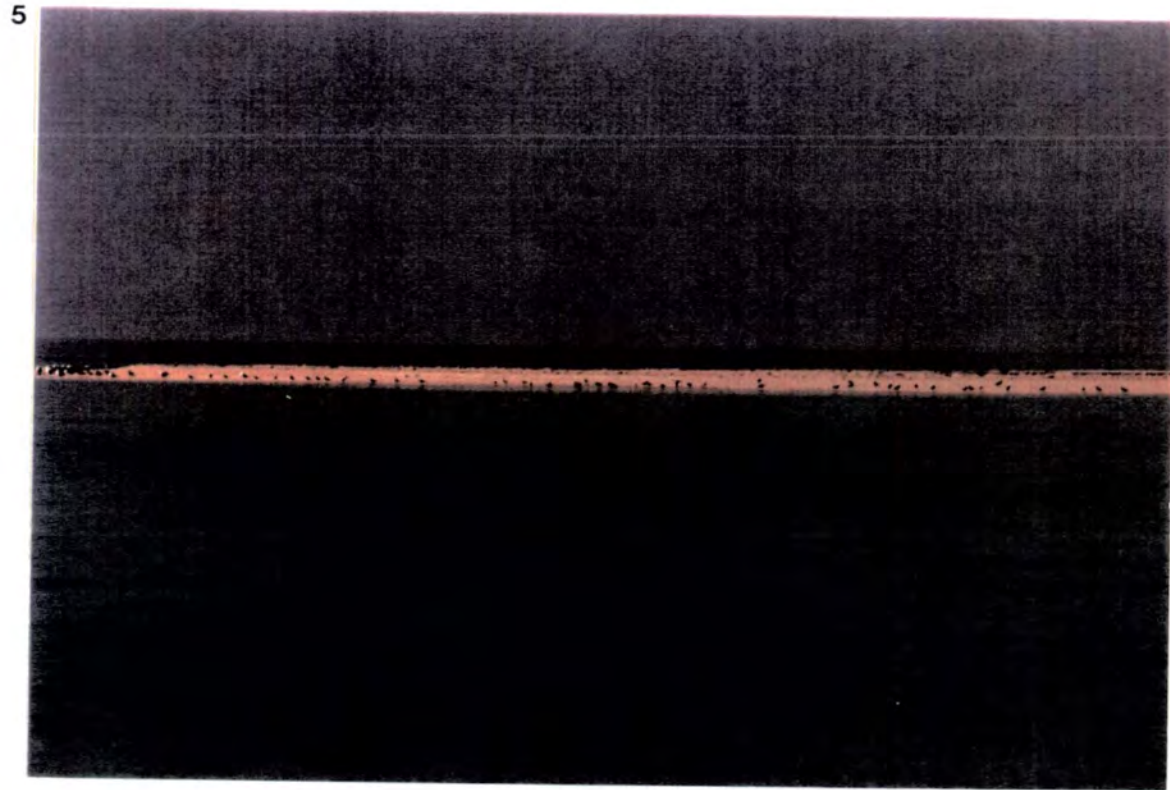


4 ISLAND WITH CIRCULAR SHAPE (SAUDI SOUTHERN RED SEA)



Figure 8.5

ANOTHER VEIW TO AL-DAHRAH ISLAND



AL-JA'AFARI IS A VERY LONG ISLAND

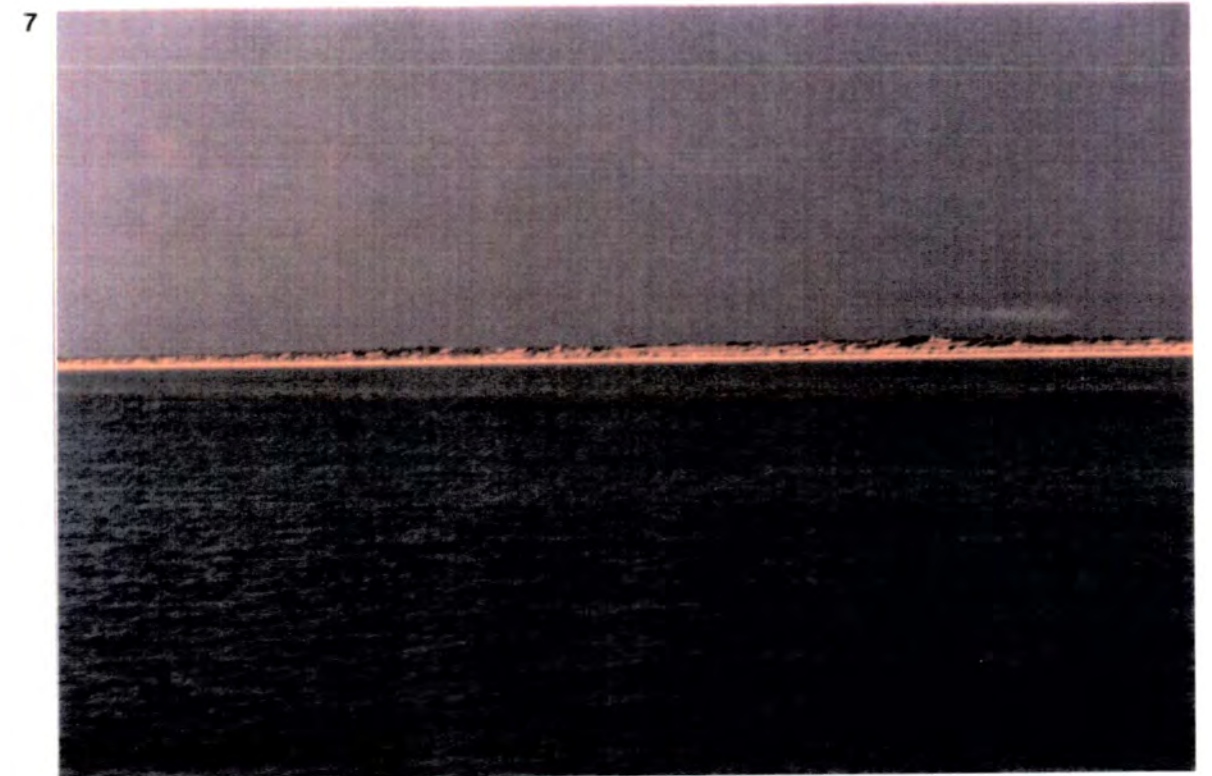
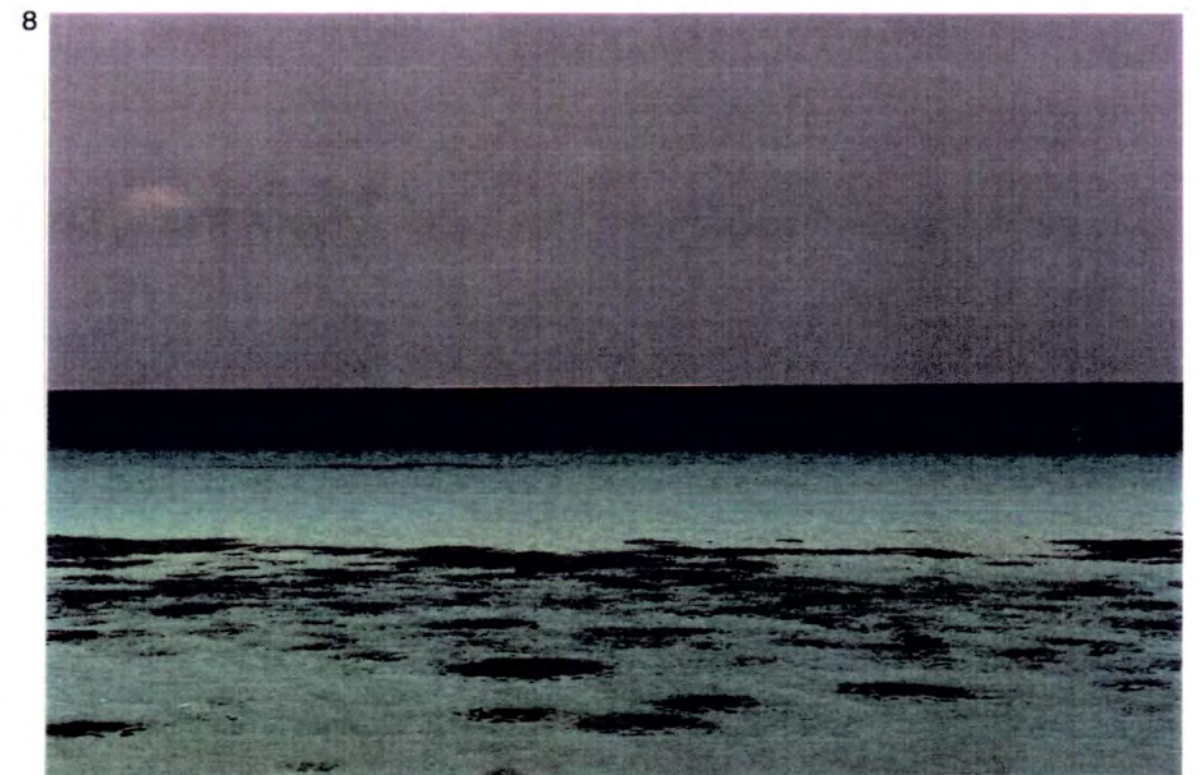


Figure 8.6

FISHING ACTIVITIES ON AL-JA'AFARI ISLAND (SAUDI SOUTHERN RED SEA)



A VEIW FROM AL-ASHIQ ISLAND SHOWS AN ISLAND AS A WHITE LINE ON THE PICTURE (SAUDI SOUTHERN RED SEA)



PART OF AL-ASHIQ ISLAND COAST

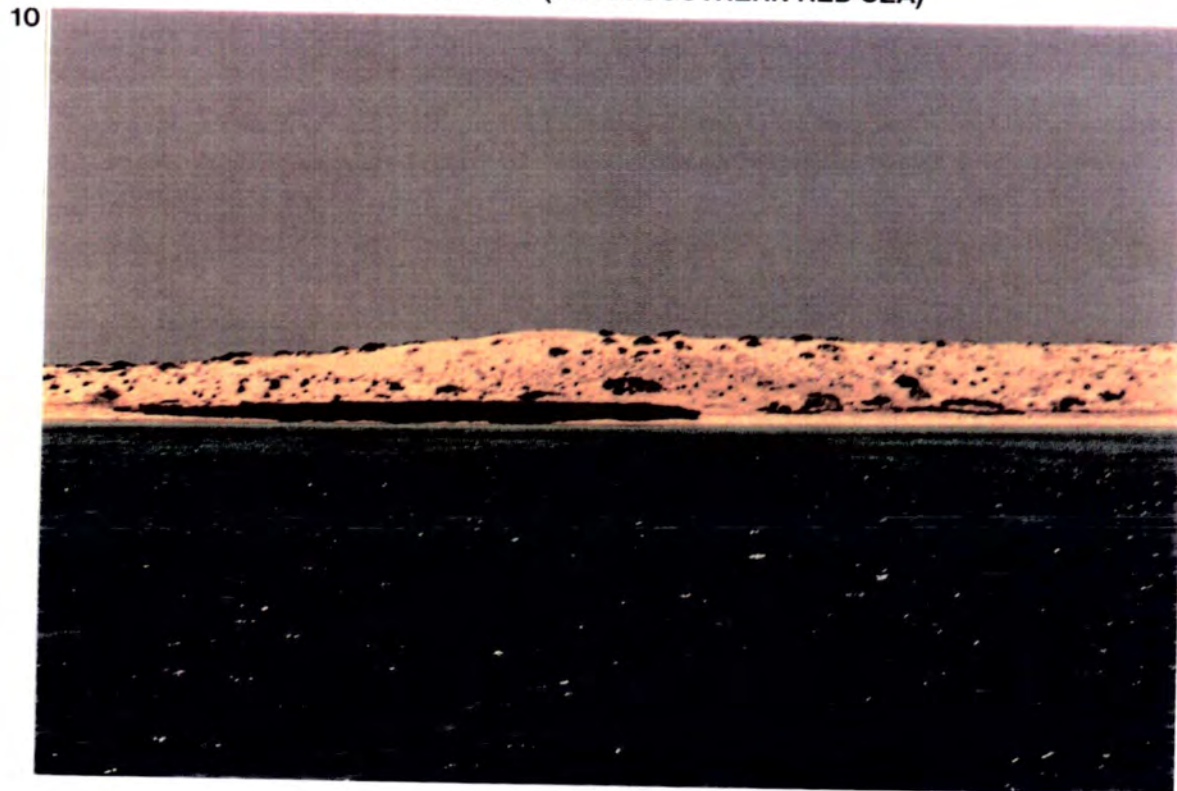


SAUDI PART ON RUMAYN ISLAND (SAUDI SOUTHERN RED SEA)



Figure 8.7

MARRYN ISLAND (SAUDI SOUTHERN RED SEA)

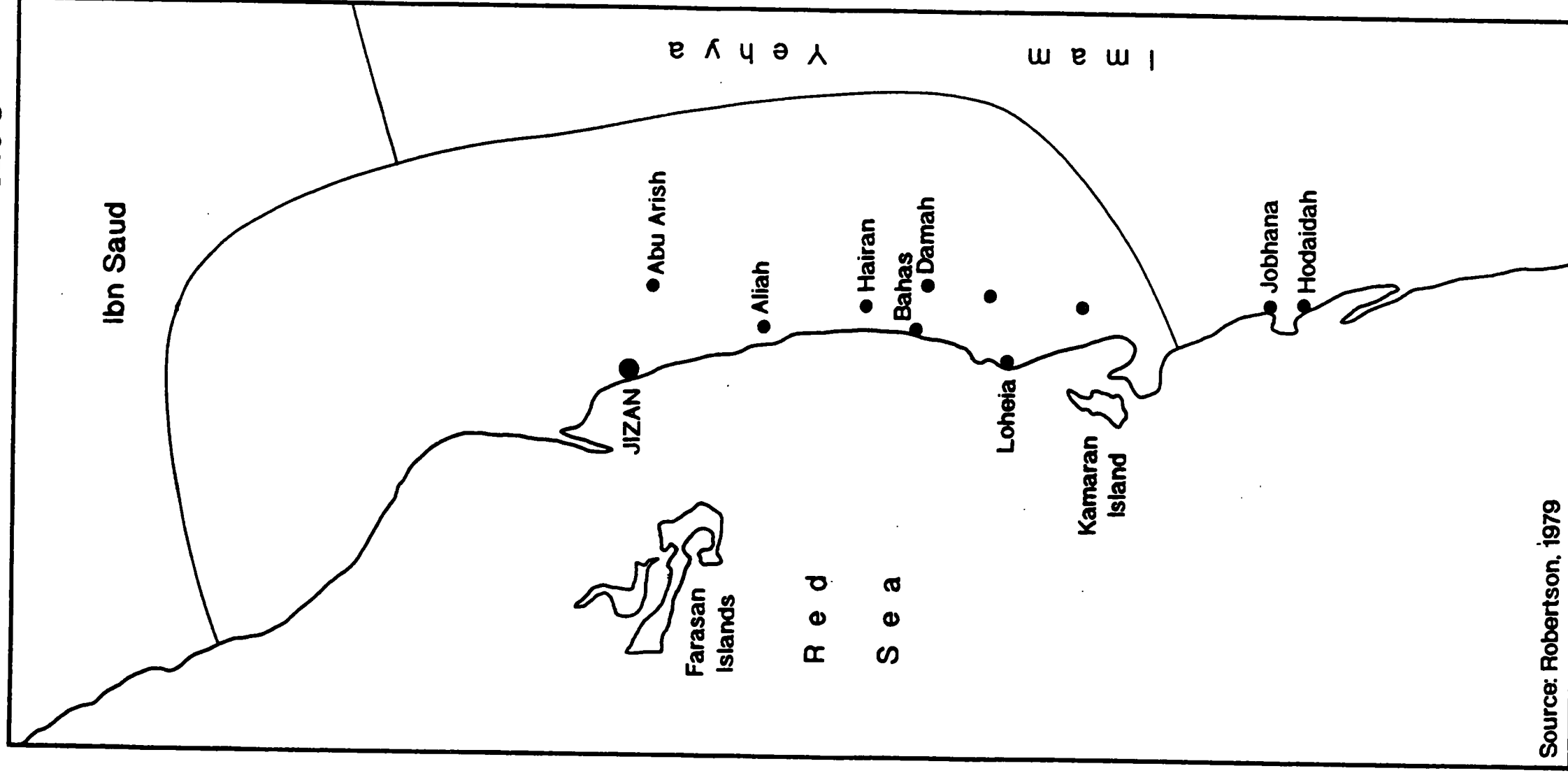


VEGETATION ON RAMAYN ISLAND



Figure 8.8

TERRITORIAL STATUS IN SOUTH WESTERN ARABIA AT THE END OF THE 1920'S



Source: Robertson, 1979

Figure 8.9

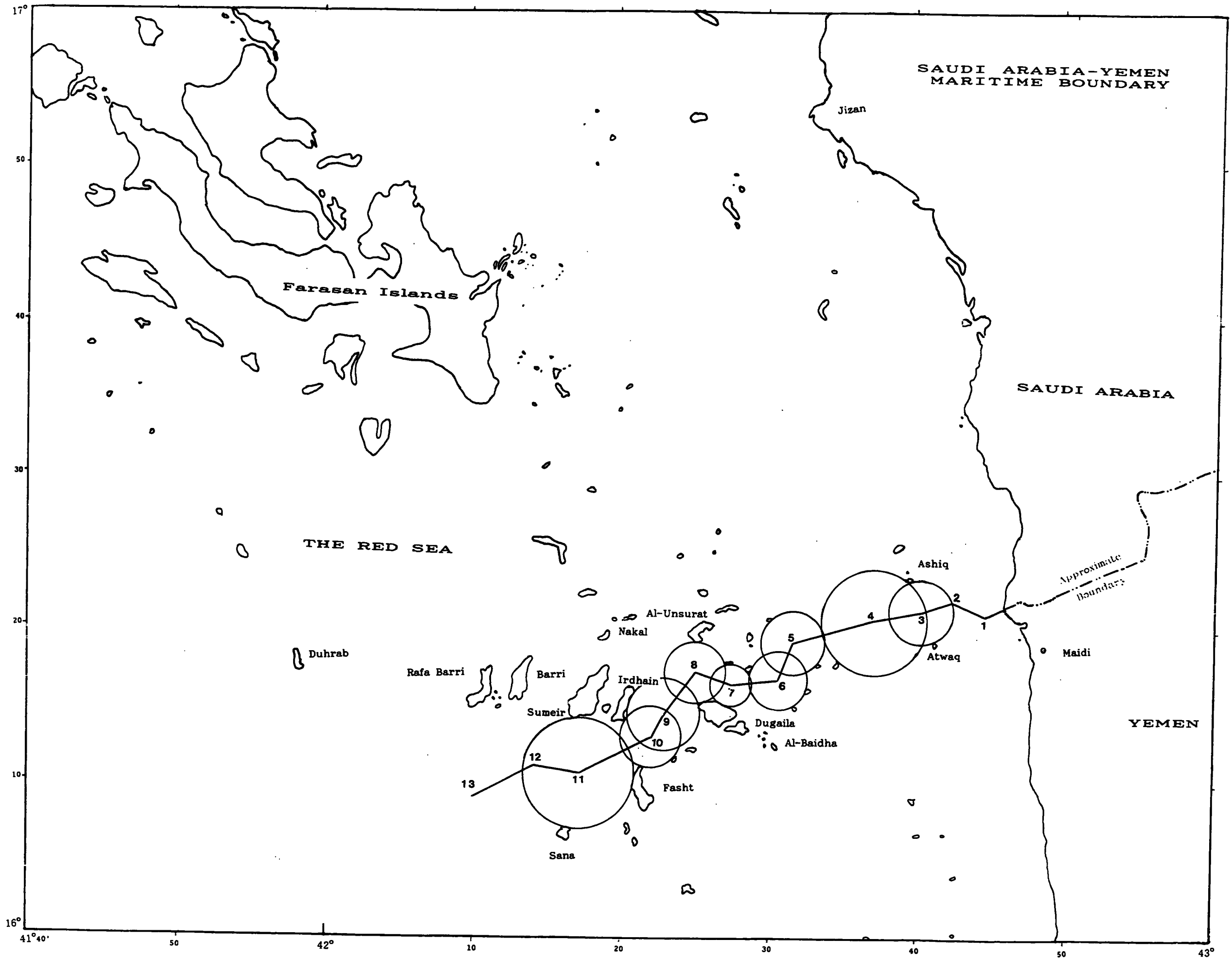


Figure 8.10

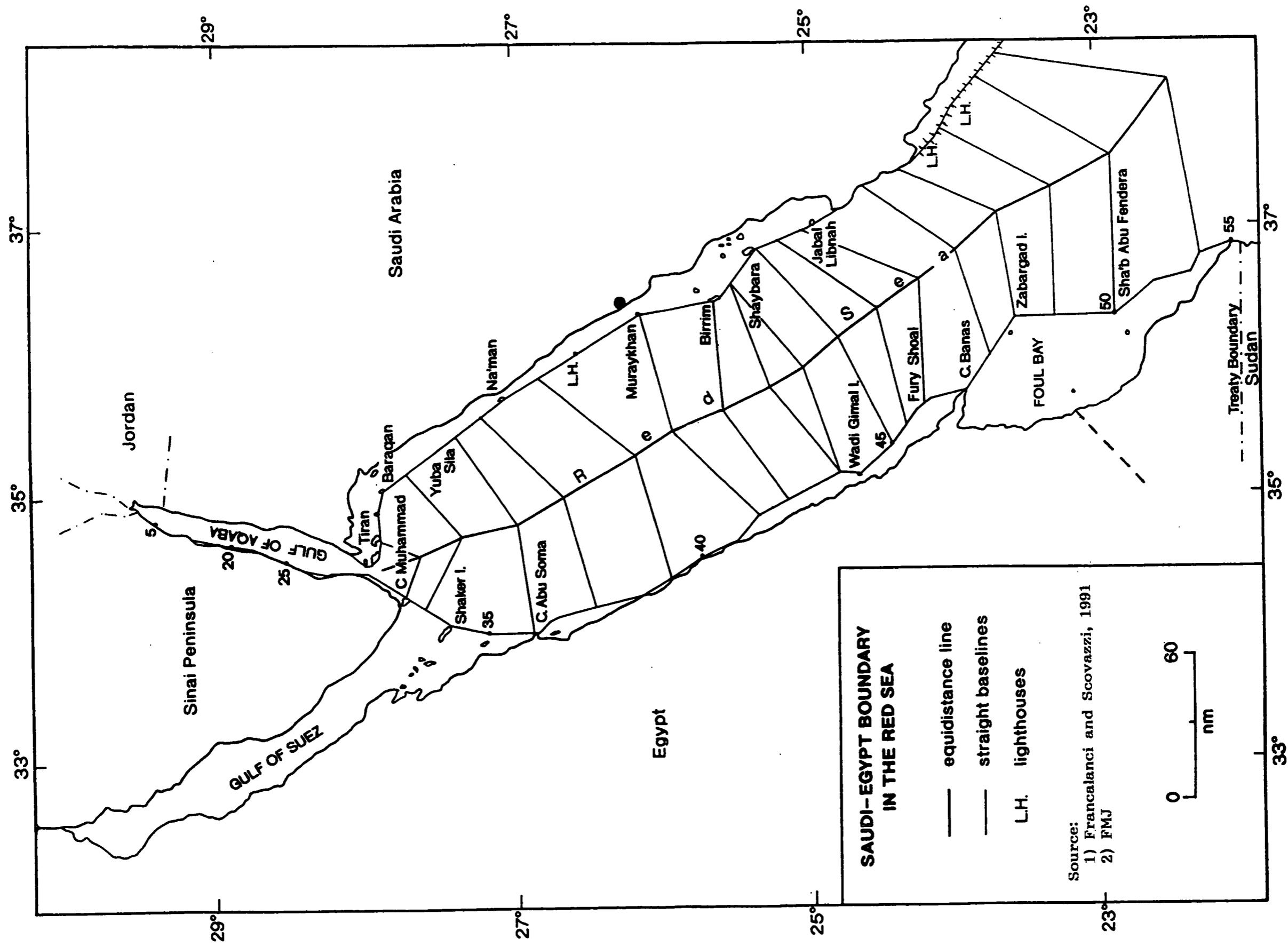
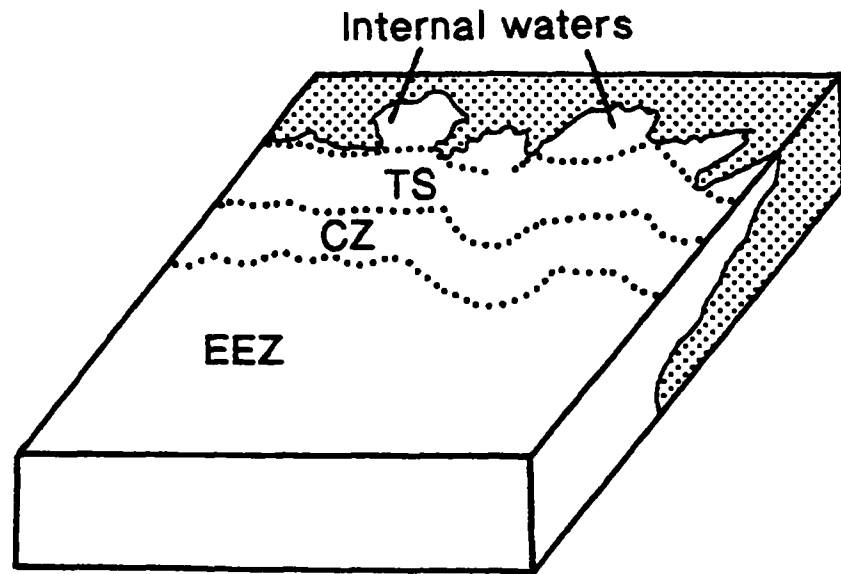
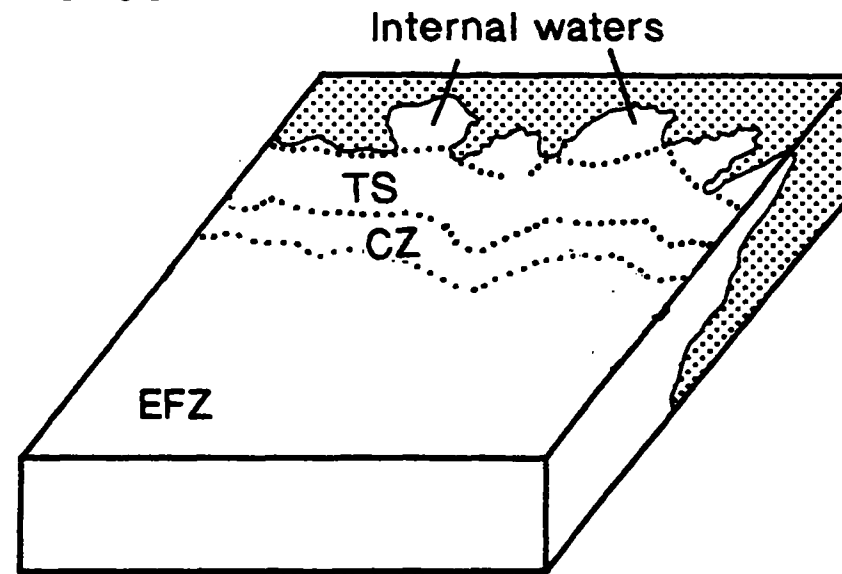


Figure 9.1

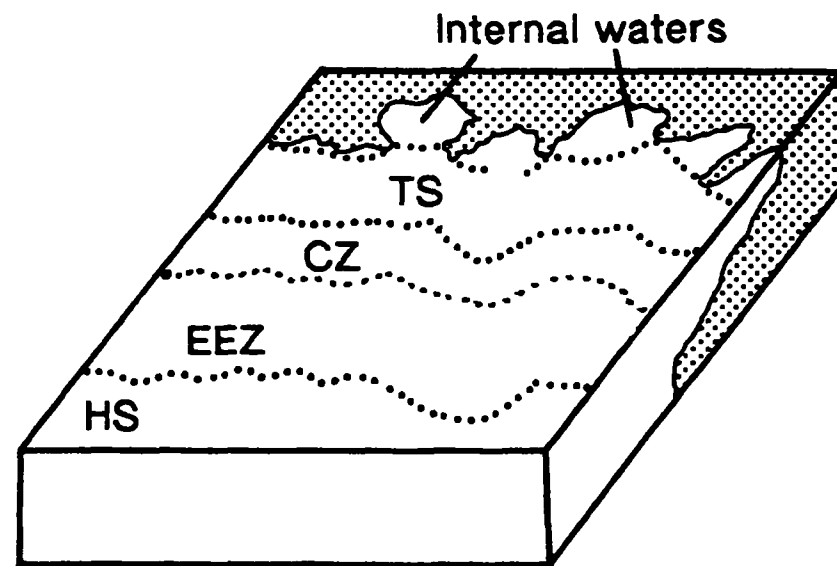
Maritime Zones



Maritime zones of Saudi Arabia according to the 1982 convention



Maritime zones according to Saudi Arabia decrees



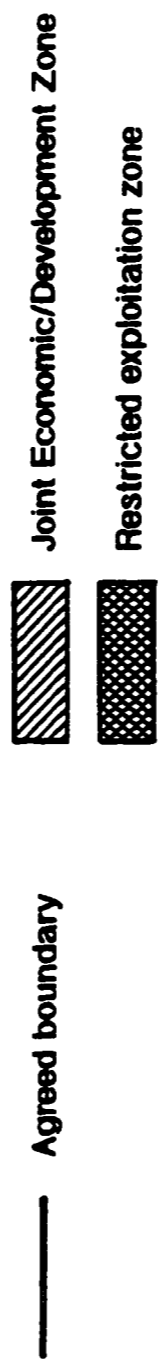
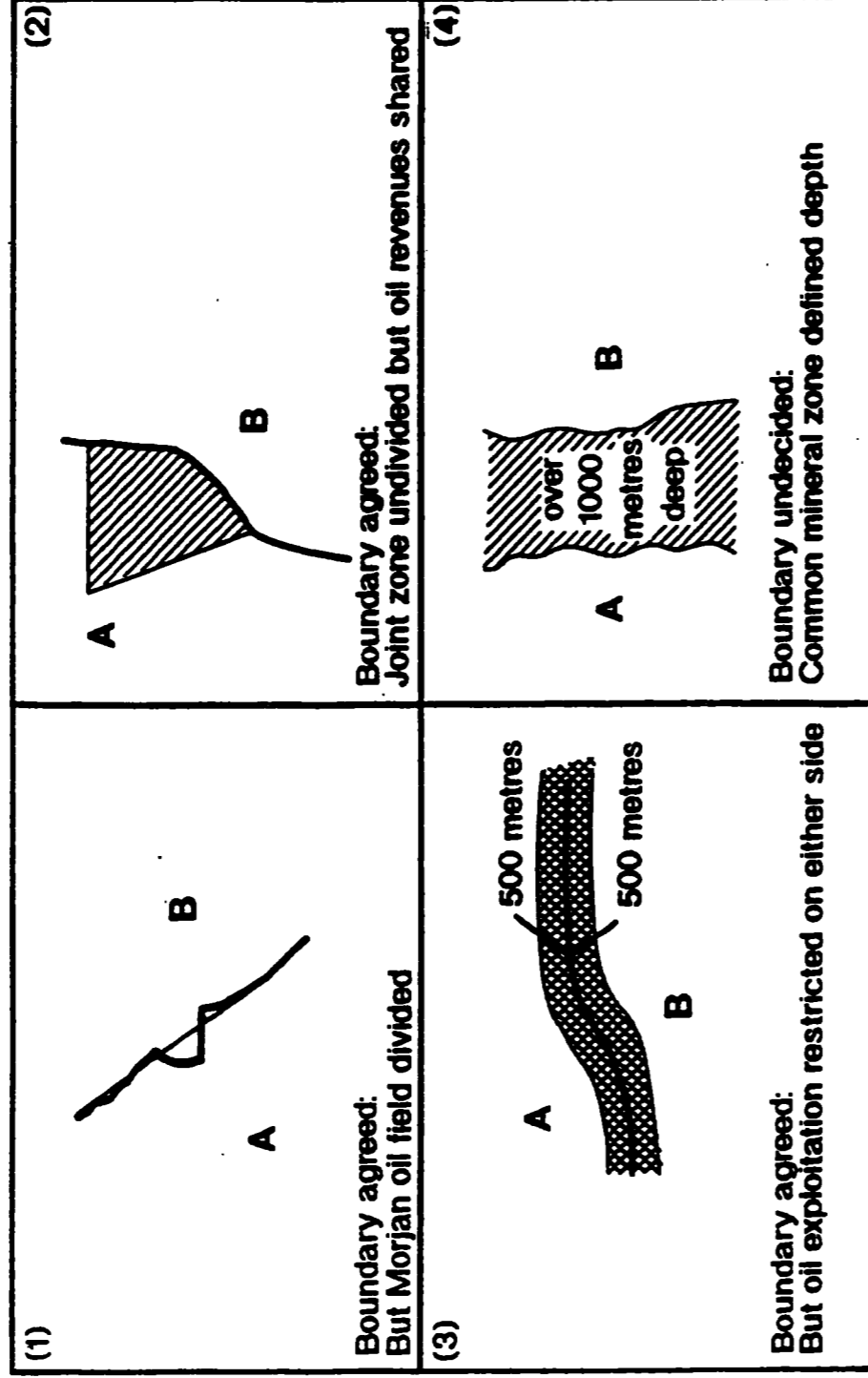
Maritime zones according to the 1982 convention

- TS -Territorial Sea
- CZ -Contiguous Zone
- EEZ -Exclusive Economic Zone
- EFZ -Exclusive Fishing Zone
- HS -High Sea

Adapted from Al-Sayf, 1990

Figure 9.2

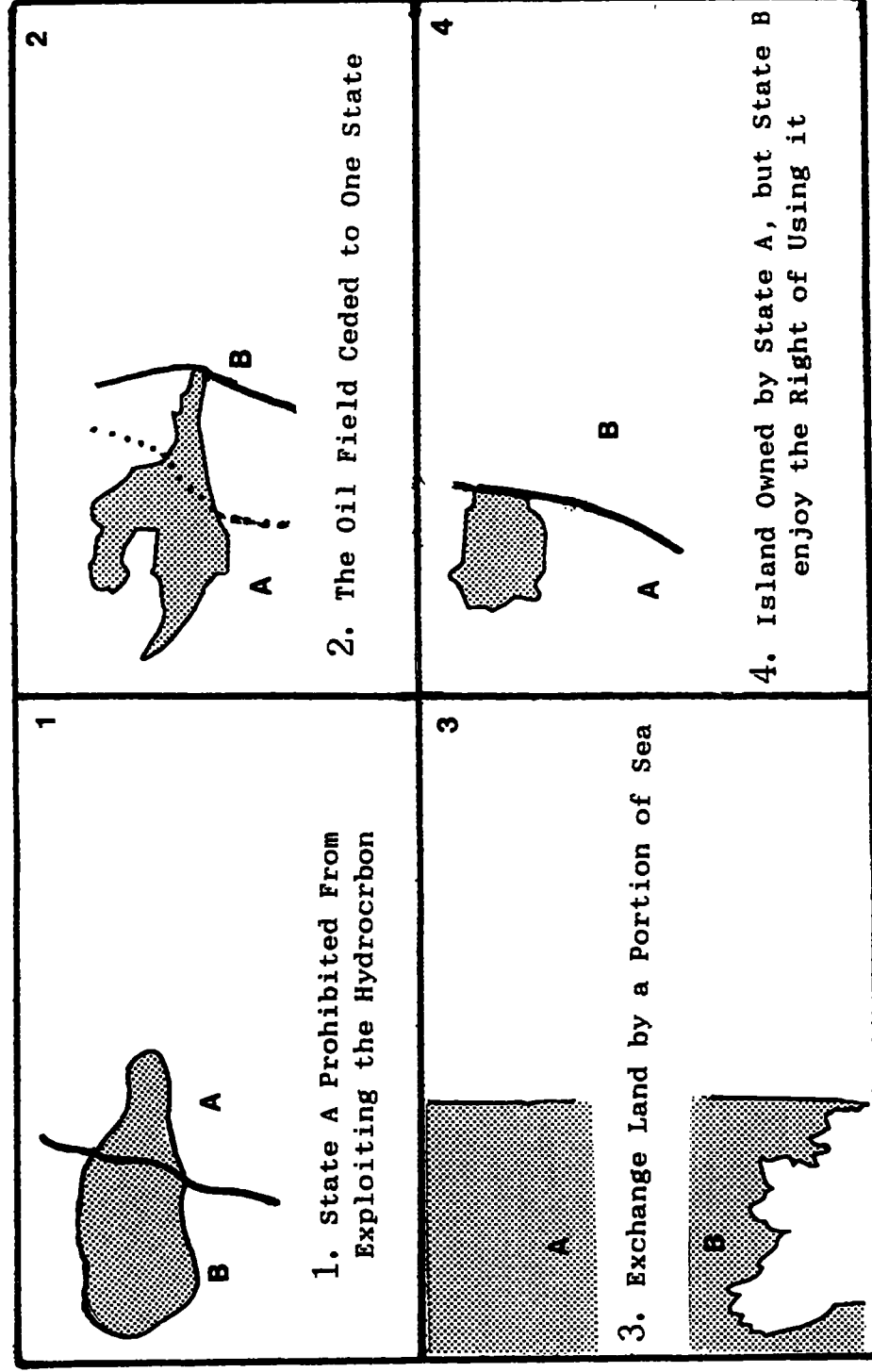
MARITIME BOUNDARIES AND ECONOMIC ZONES



- (1) Example of Saudi-Iran (1969)
 - (2) Example of Saudi-Bahrain (1958)
 - (3) Example of Saudi-Iran (1969)
 - (4) Example of Saudi-Sudan (1974)
- Source: 1) Blake, 1987
2) ICJ, 1983 (1)

Figure 9.3

Methods Used in the 1974
Saudi Arabia-UAE Agreement

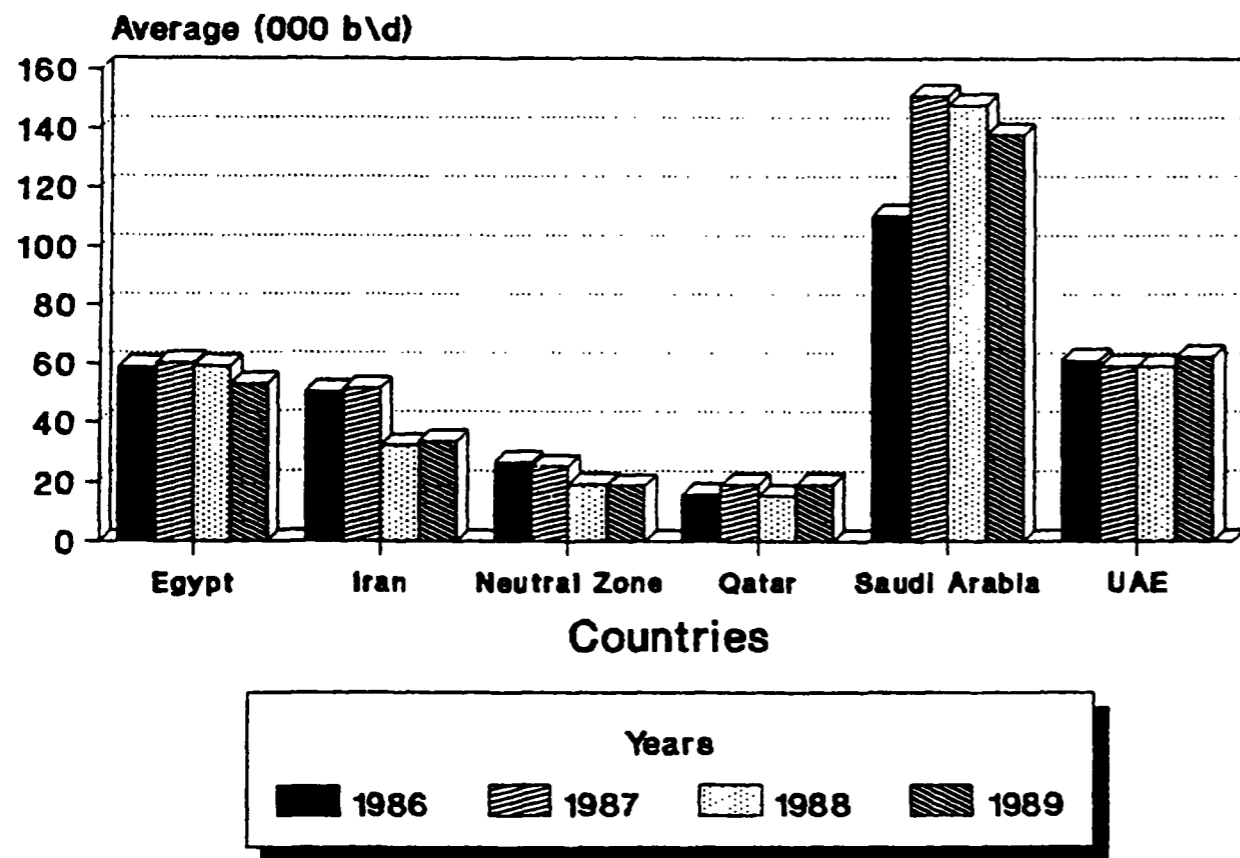


————— Agreed Boundary

..... The Boundary Before 1974 Agreement

Figure 9.4

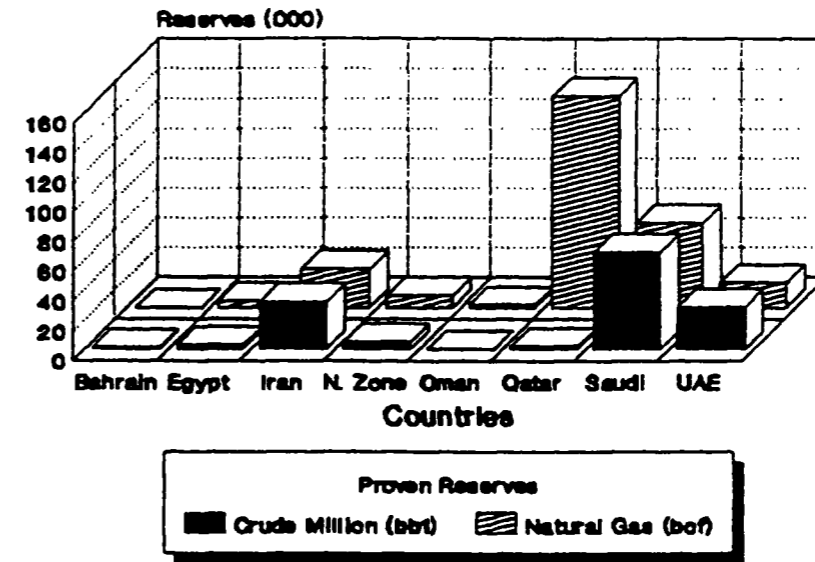
Middle East Offshore Oil Production



Source: Offshore, June 1990

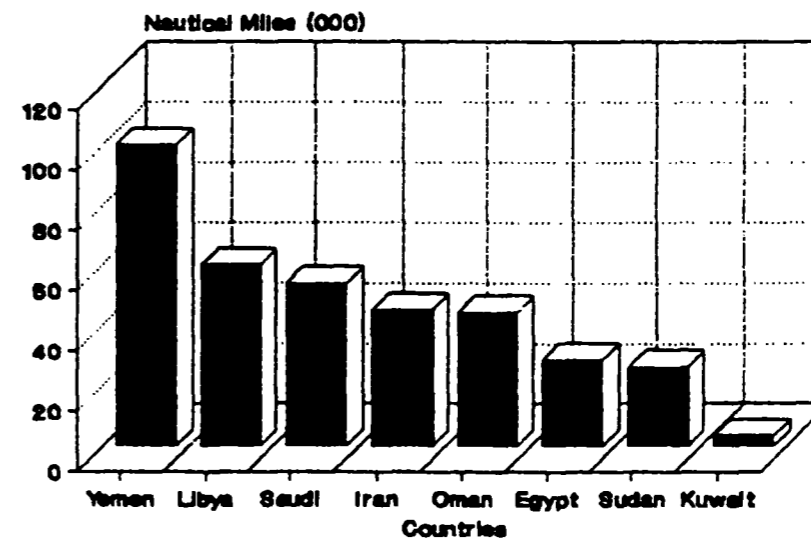
Middle East Continental Shelf Resources

Middle East Offshore Proven Reserves



Source: Offshore, June 1990

The Continental Shelf in Some Middle Eastern States



The Geographer, 1970.