

ARBITRATION UNDER ANNEX VII OF THE UNITED NATIONS  
CONVENTION ON THE LAW OF THE SEA



PEOPLE'S REPUBLIC OF BANGLADESH

V.

REPUBLIC OF INDIA

MEMORIAL OF BANGLADESH

VOLUME II  
FIGURES

31 MAY 2011

## VOLUME II

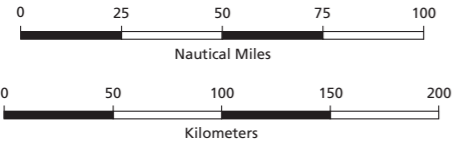
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# EQUIDISTANCE CUTOFF IN THE BAY OF BENGAL

Mercator Projection  
WGS-84 Datum  
(Scale accurate at 18°N)



Coastal Data Compiled from: NGA charts 63290, 63310, 63320, 63330, 63340, 63341, 63350 & 63410.

Prepared by: International Mapping

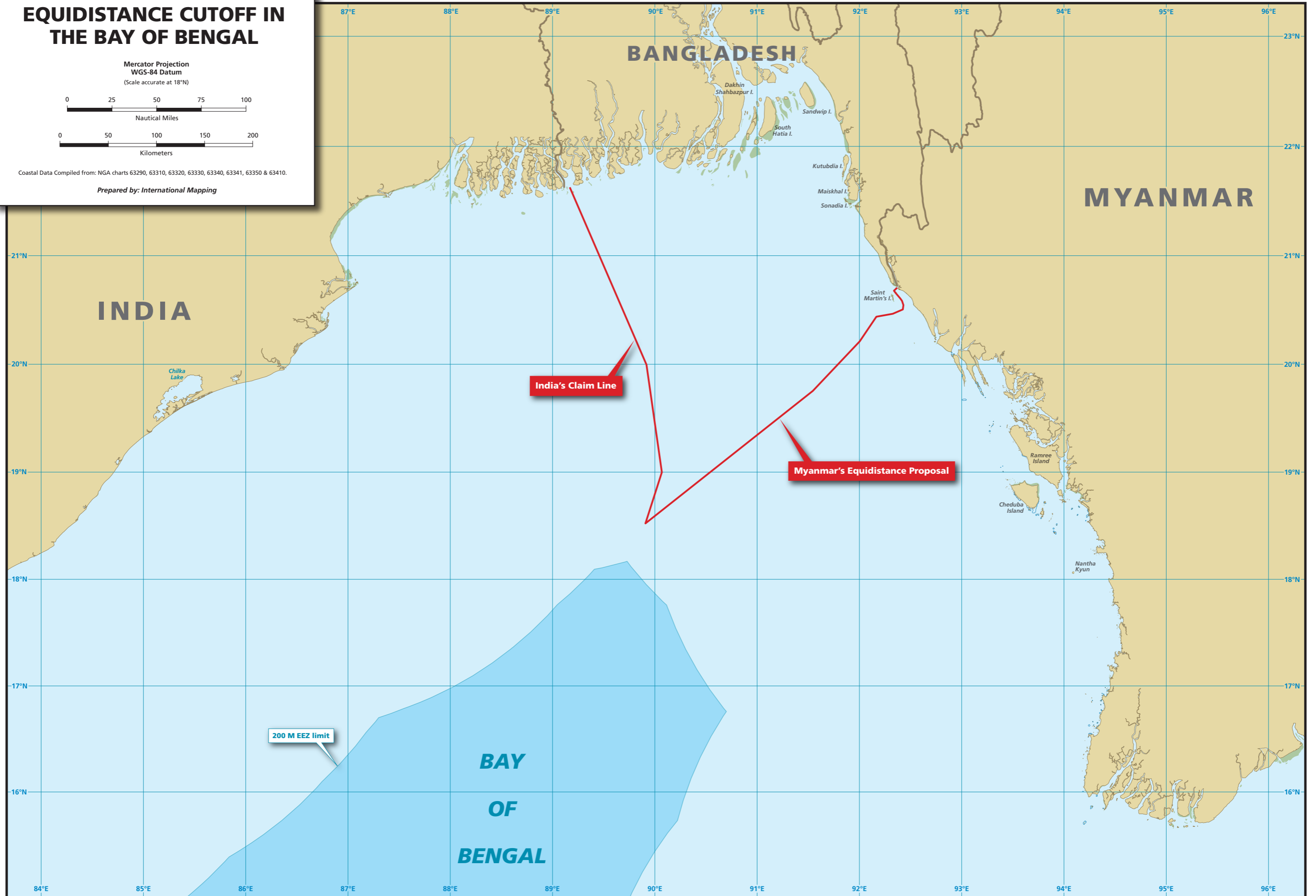


Figure 1.1

**FIGURE NO. 9 FROM THE MEMORIAL  
SUBMITTED BY THE FEDERAL REPUBLIC OF GERMANY:  
21 AUGUST 1967**

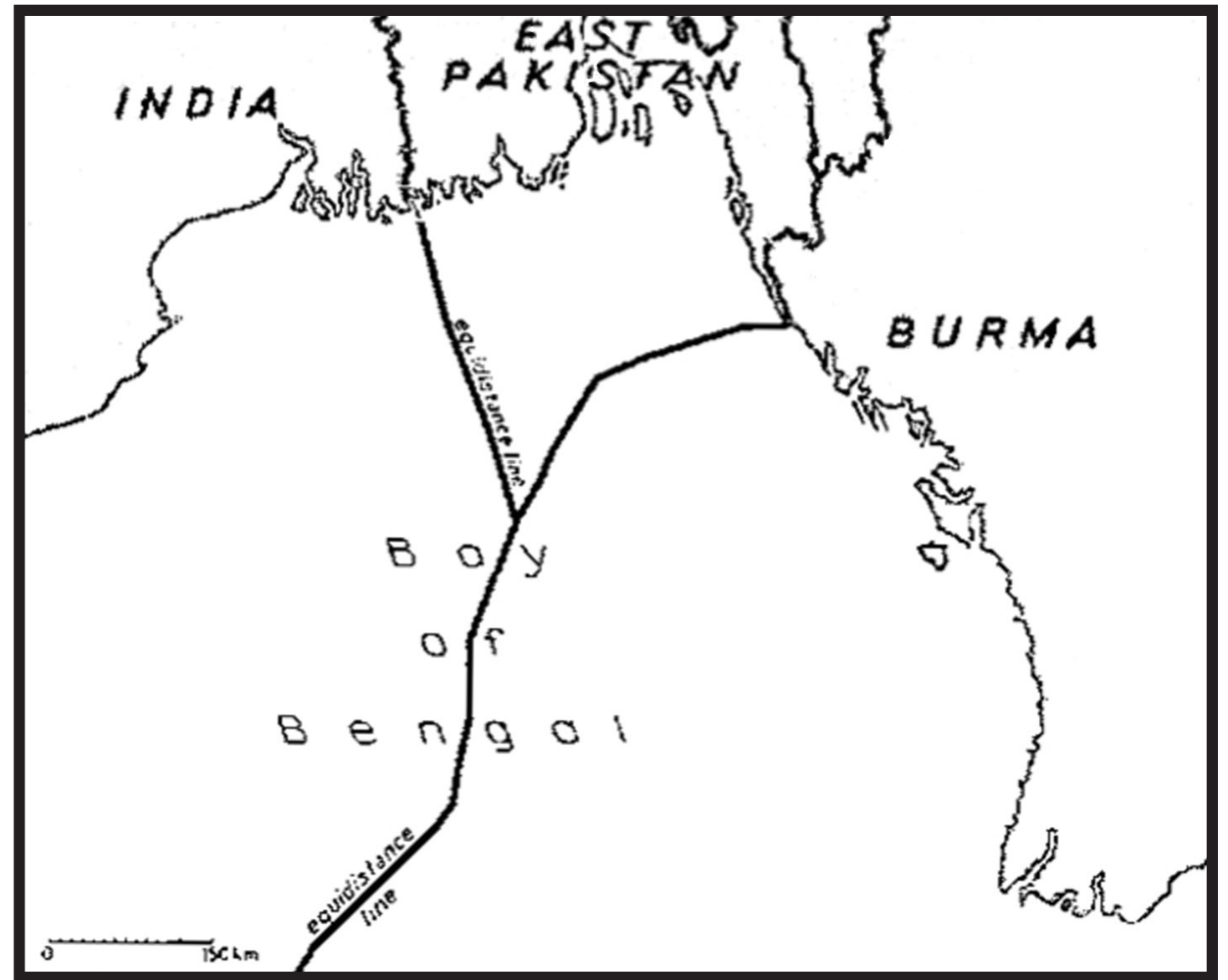


Figure 1.2

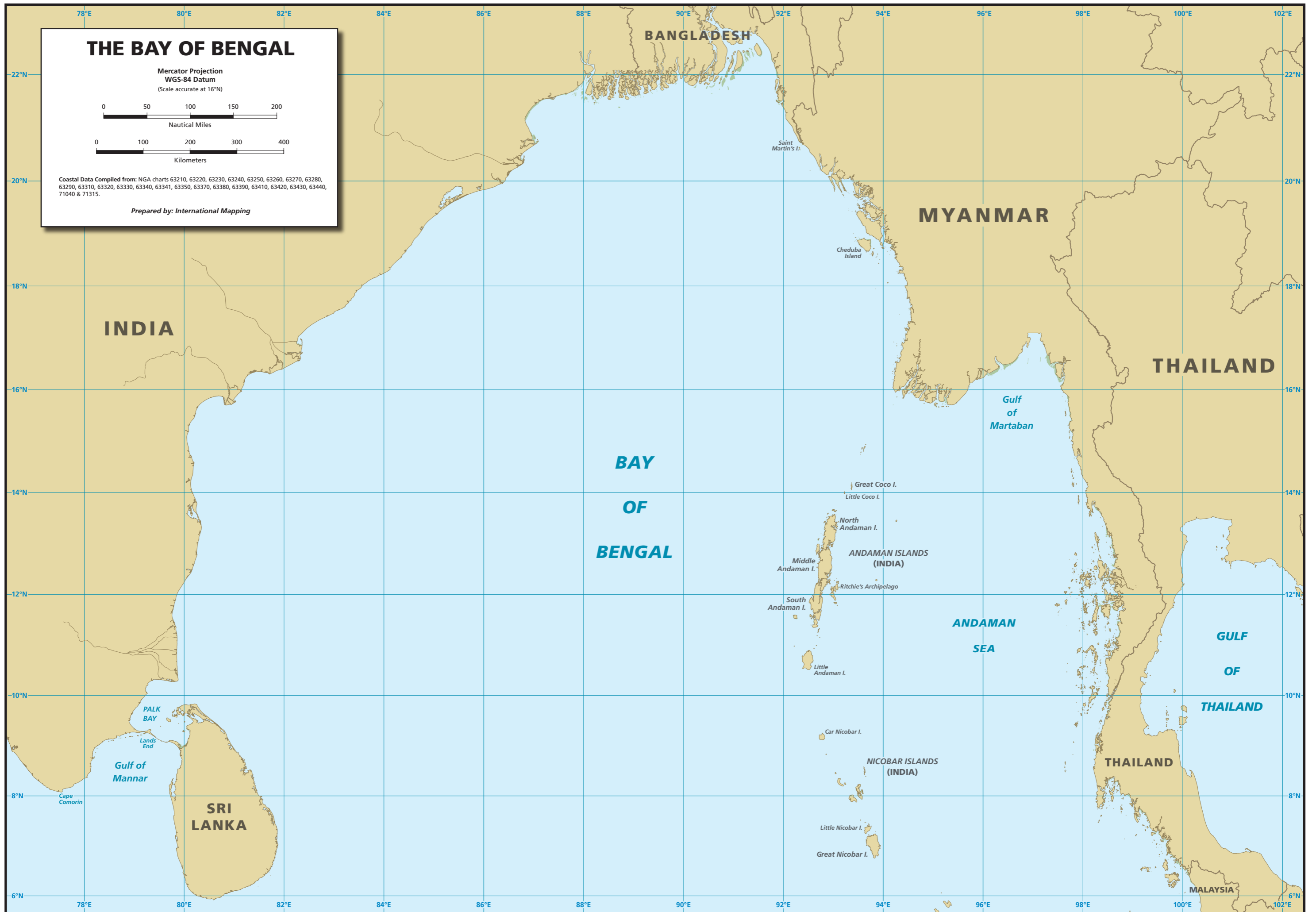


Figure 2.1

**SATELLITE IMAGE OF THE BENGAL DELTA**

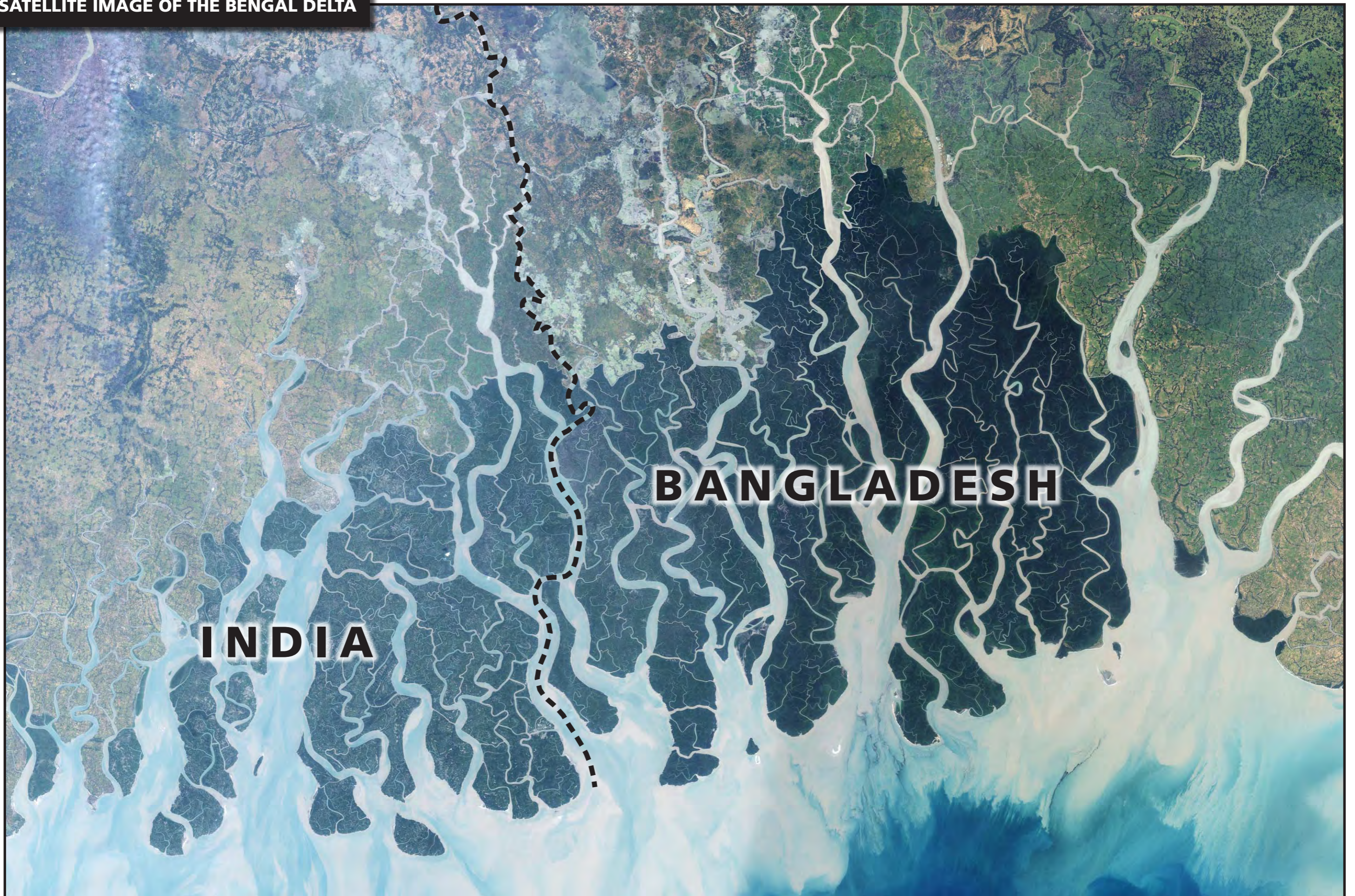
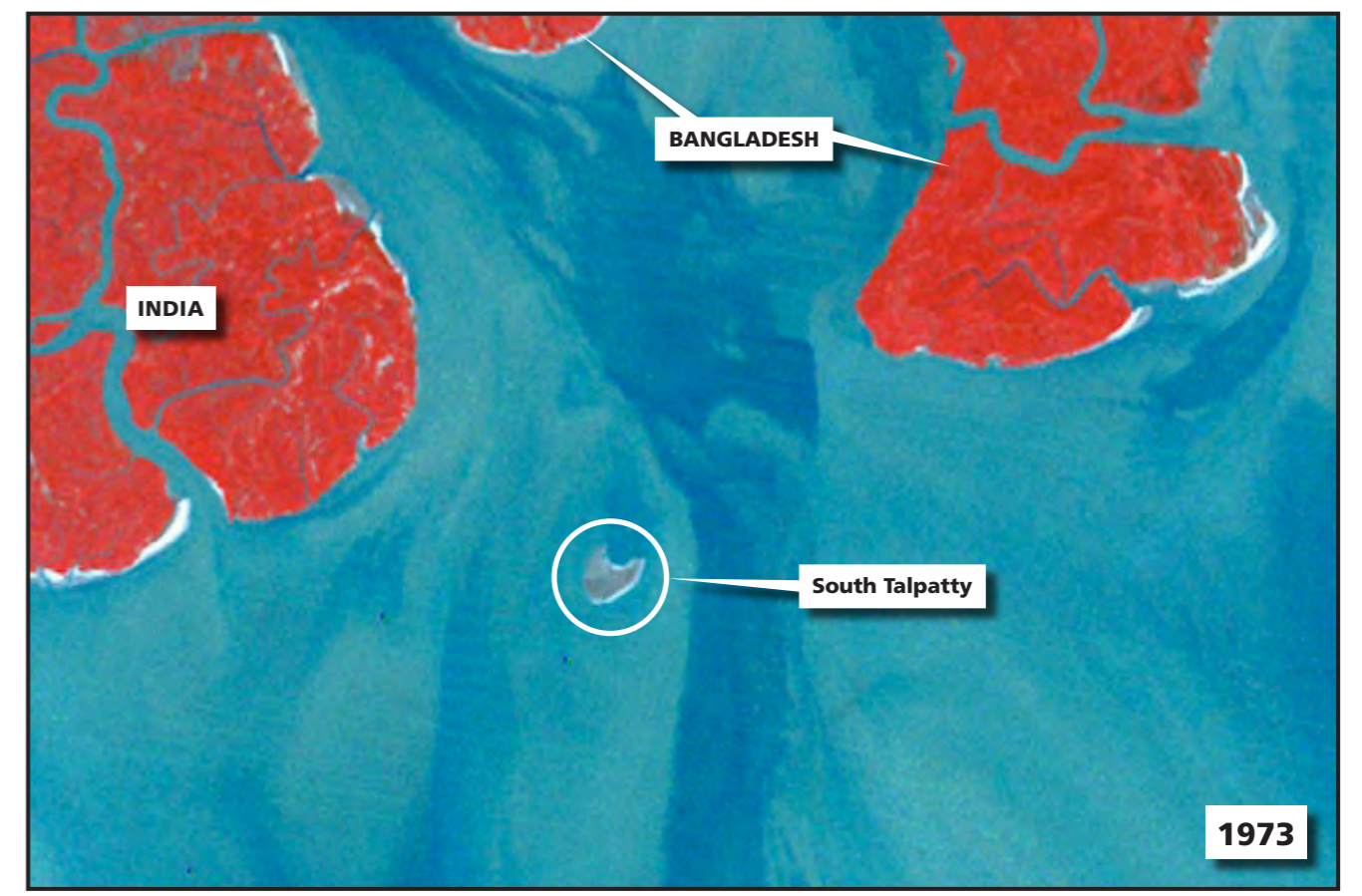


Figure 2.2

# SATELLITE IMAGERY OF SOUTH TALPATTY



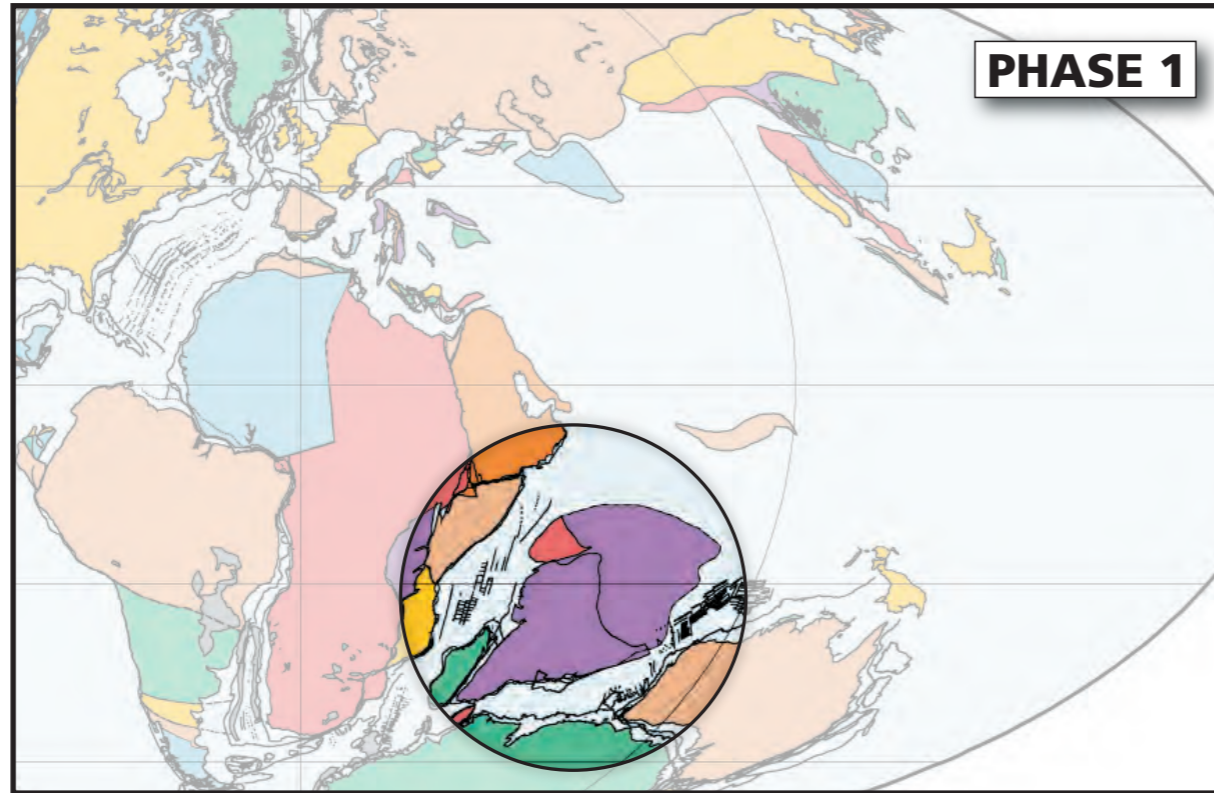
Landsat 1 MSS Imagery



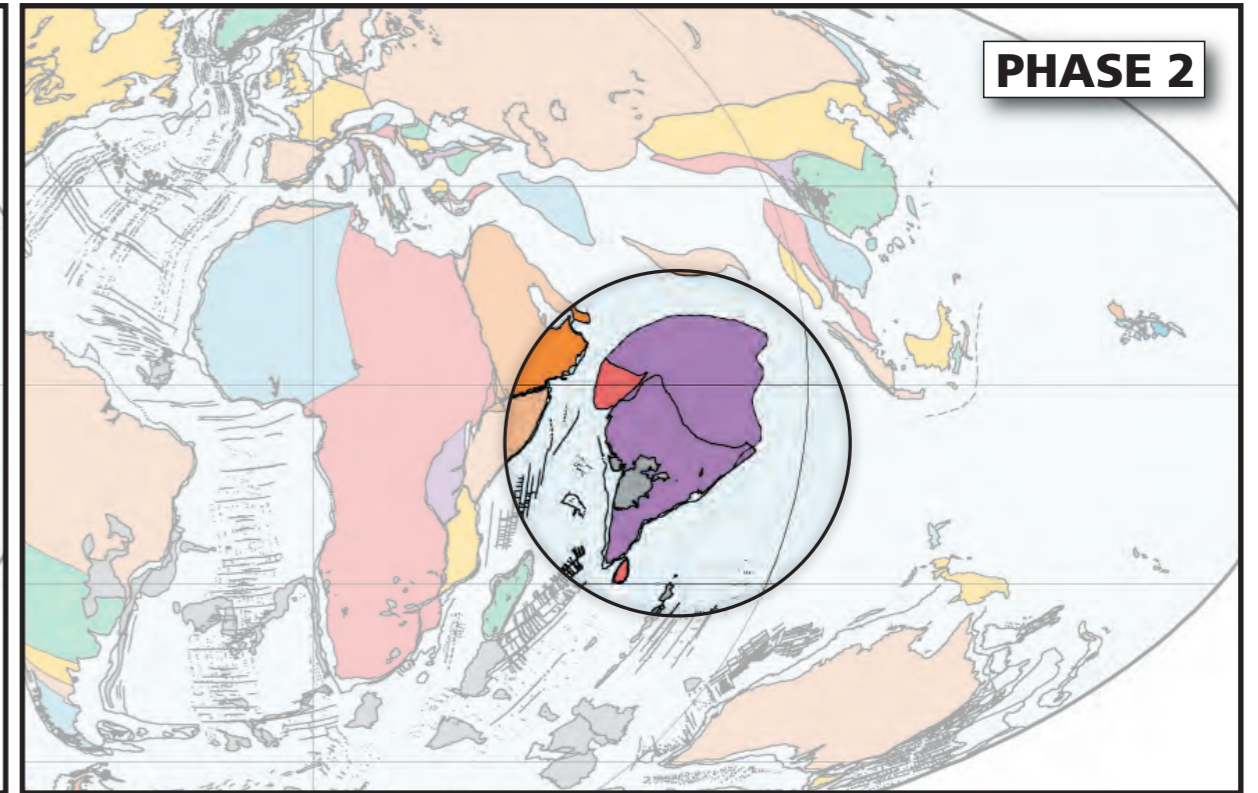
Landsat 5 MSS Imagery

Figure 2.3

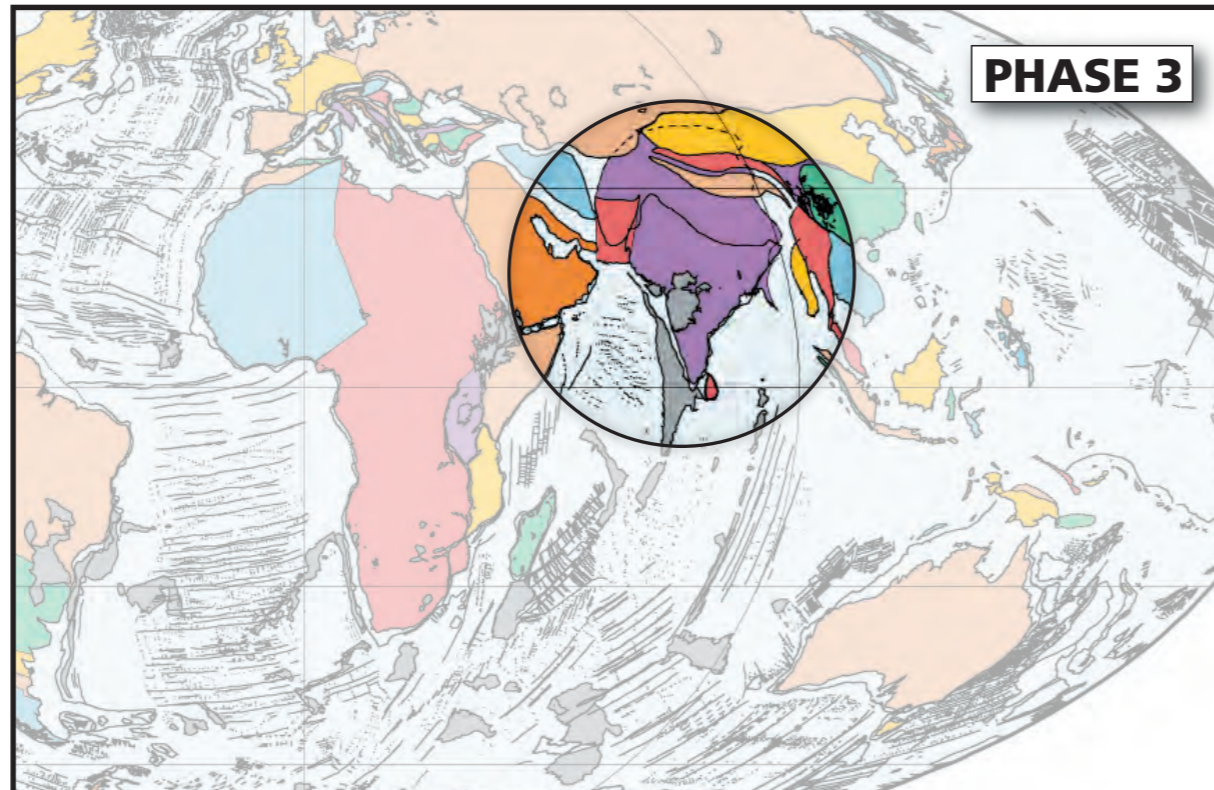
**APTIAN (EARLY CRETACEOUS)**  
(120 million years ago)



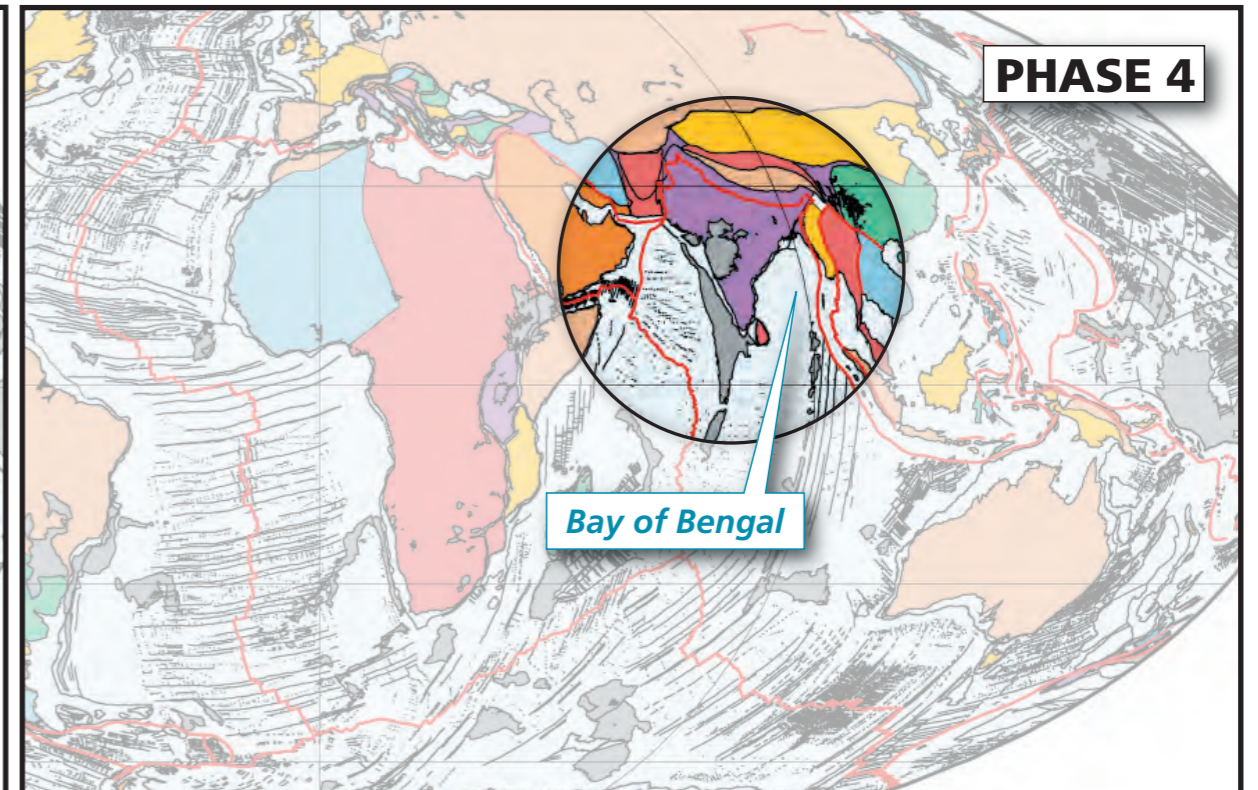
**LATE PALEOCENE**  
(60 million years ago)



**EARLY MIOCENE**  
(25 million years ago)



**PRESENT DAY**





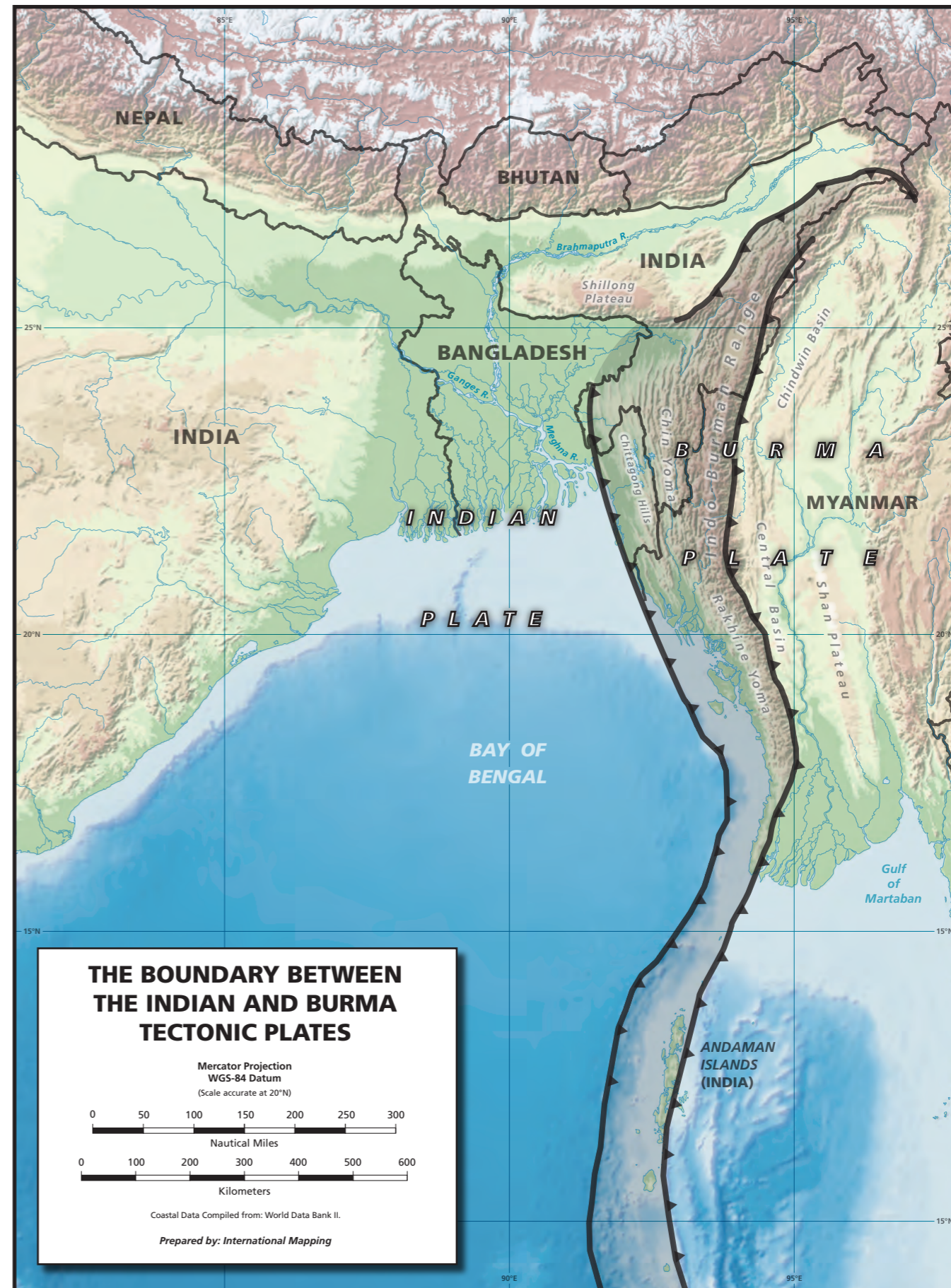
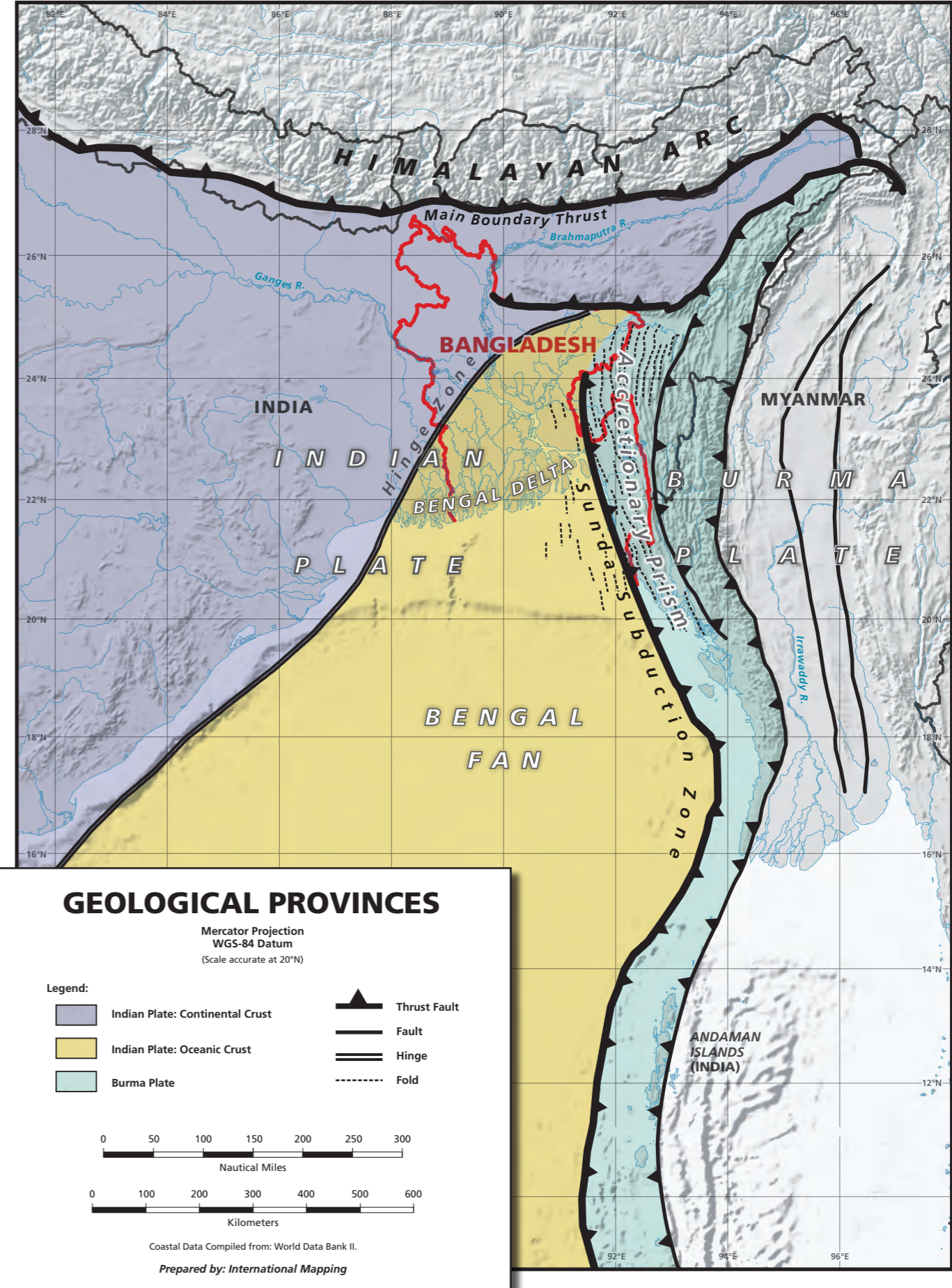


Figure 2.5

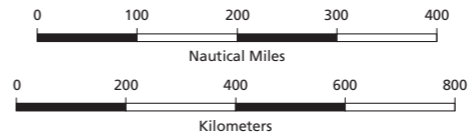


Source: Alam, et al, 2003.

Figure 2.6

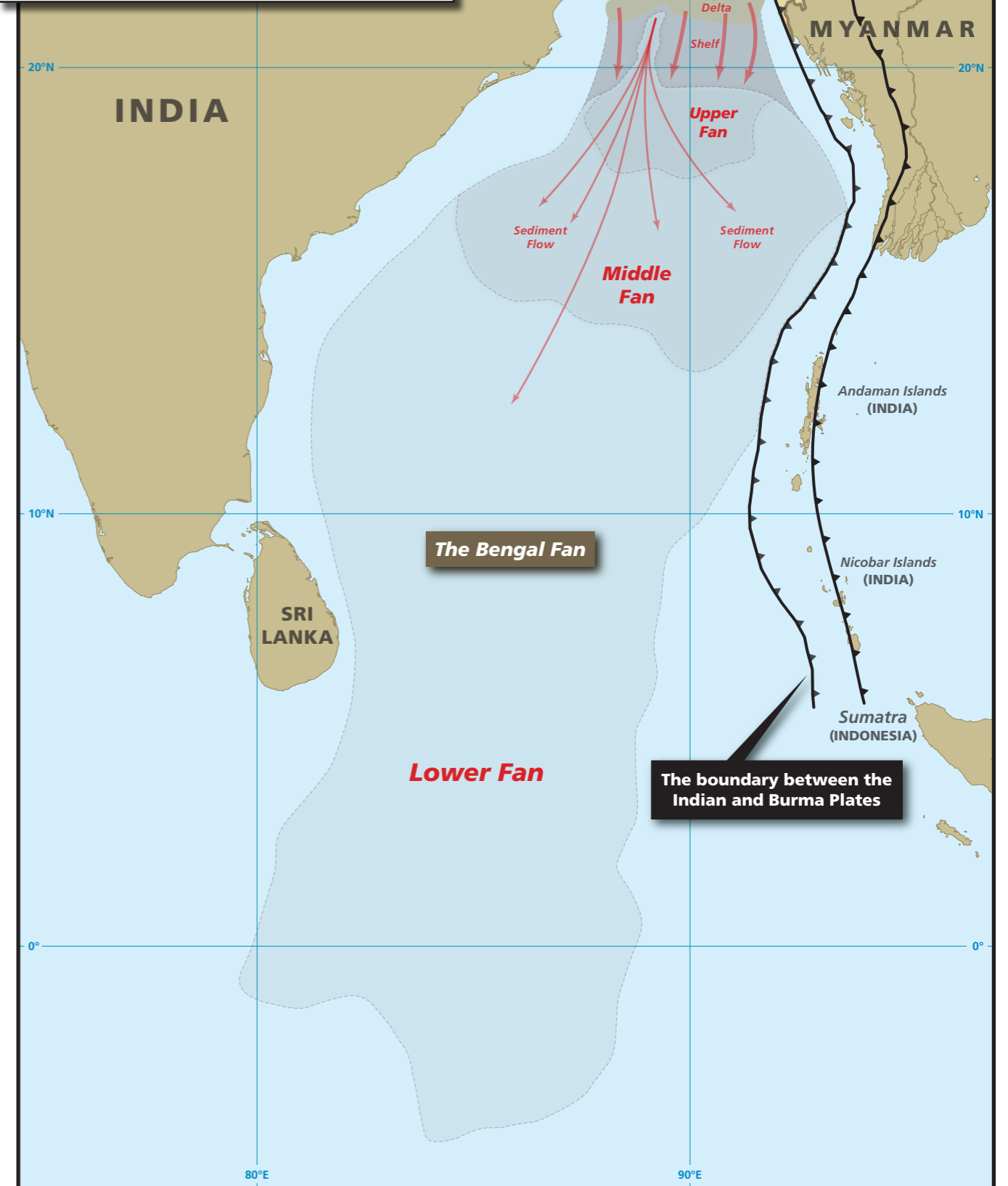
# THE BENGAL DEPOSITIONAL SYSTEM

Mercator Projection  
WGS-84 Datum  
(Scale accurate at 10°N)



Coastal Data Compiled from: World Data Bank II.

Prepared by: International Mapping



Source: Adapted from Joseph R. Curran, "The Bay of Bengal: Tectonics, Stratigraphy and History of Formation," 26 May 2011.

Figure 2.7

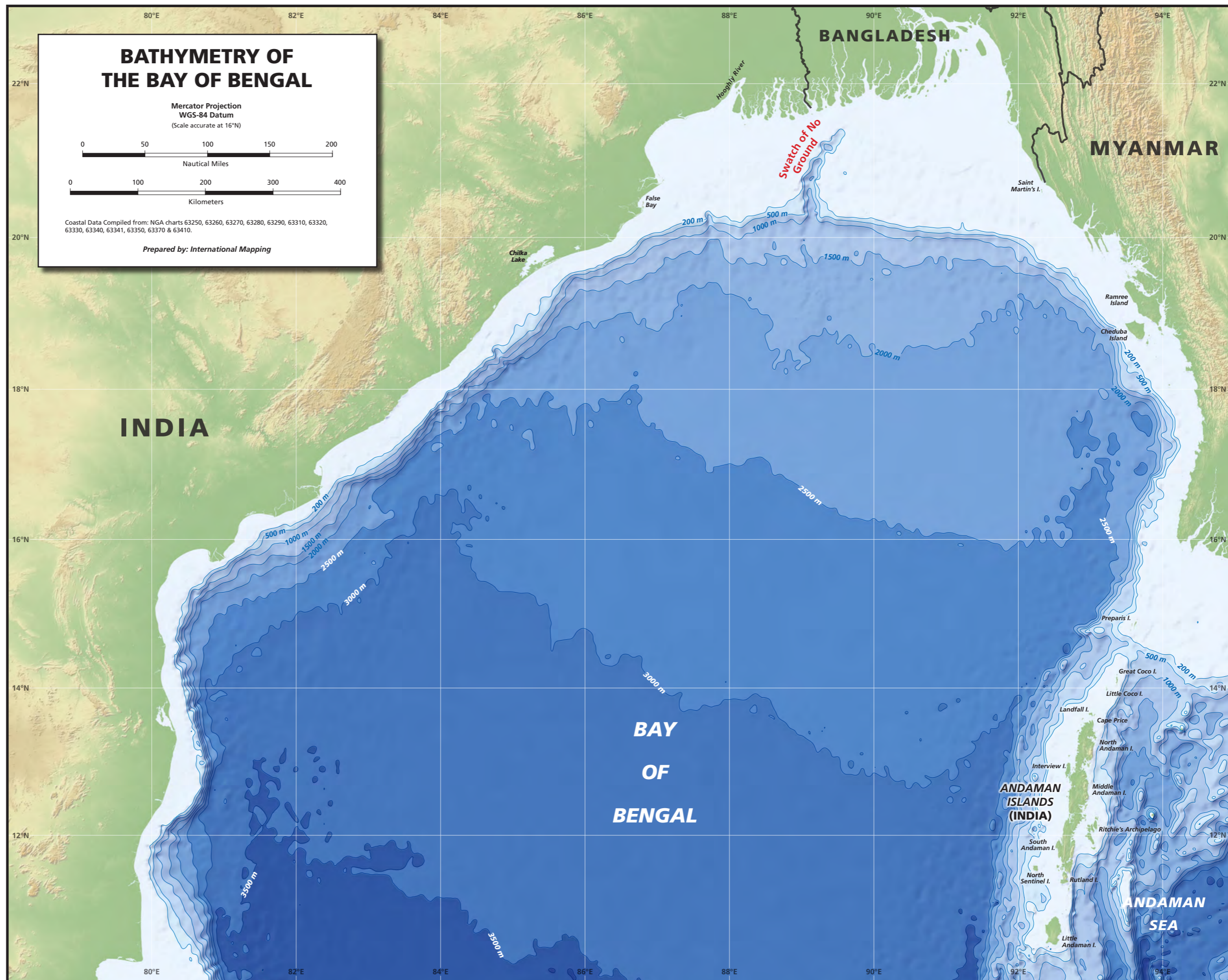


Figure 2.8

### A: India's Continental Margin

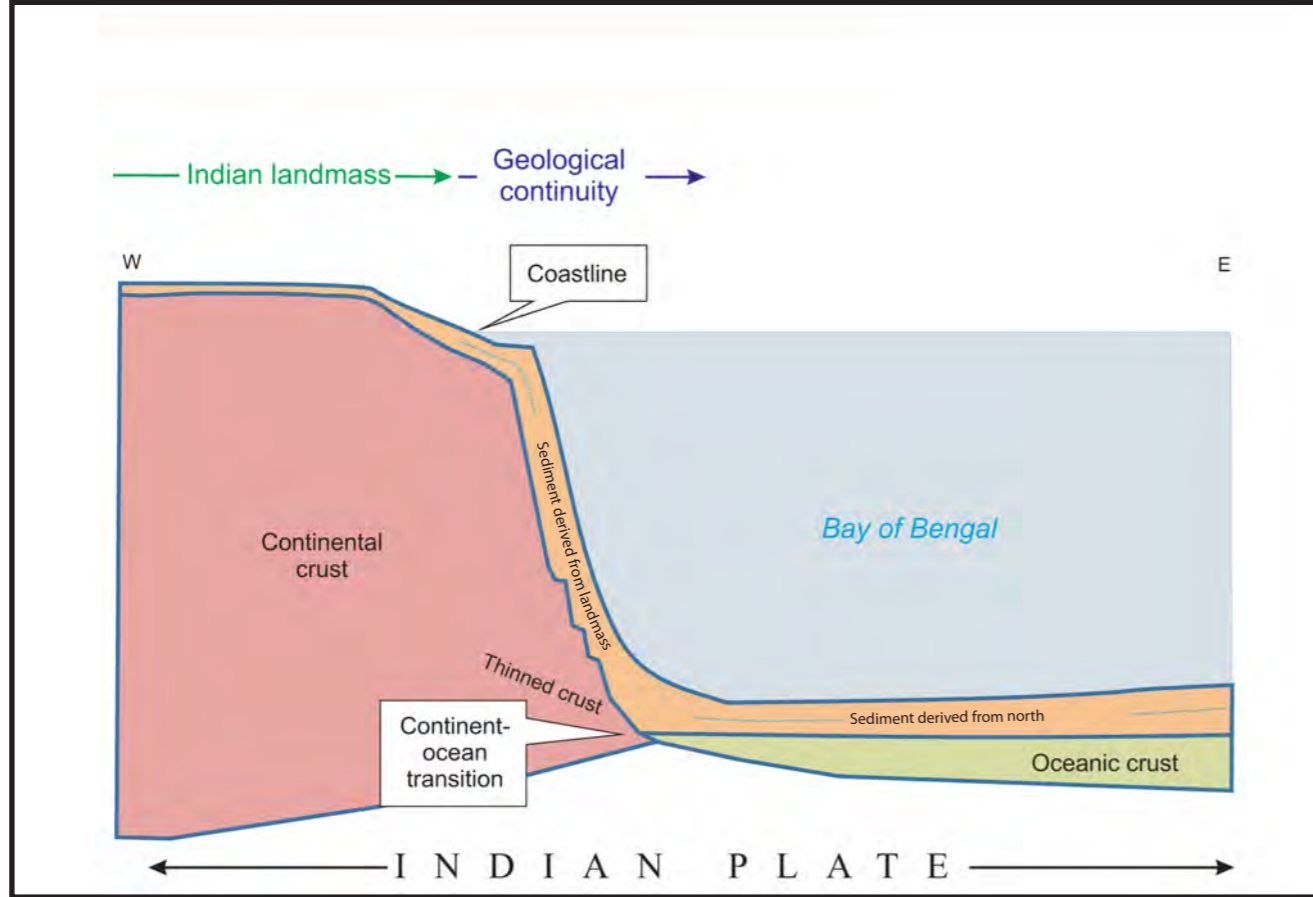


Figure 2.9A

### B: Bangladesh's Continental Margin

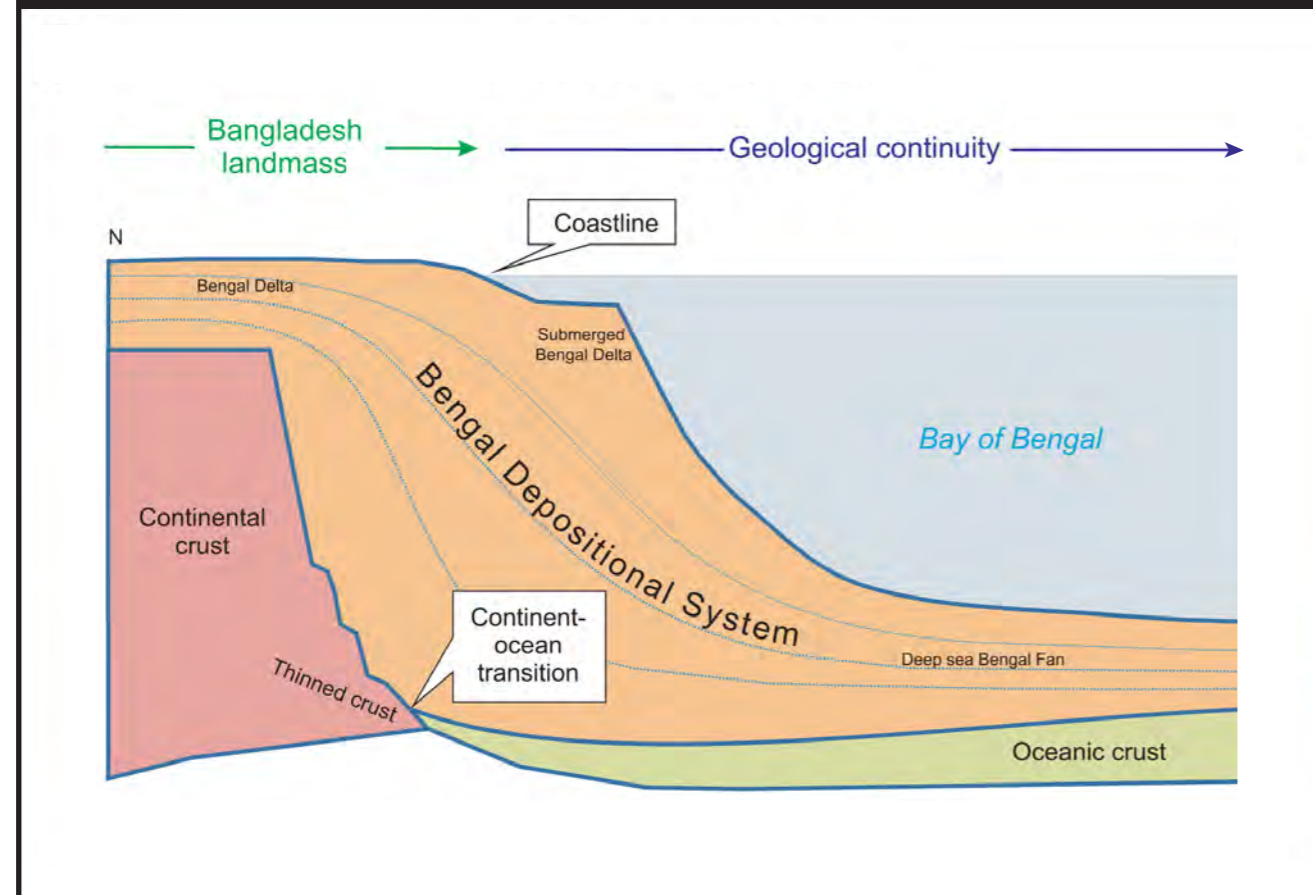


Figure 2.9B

### C: India's Andaman Margin

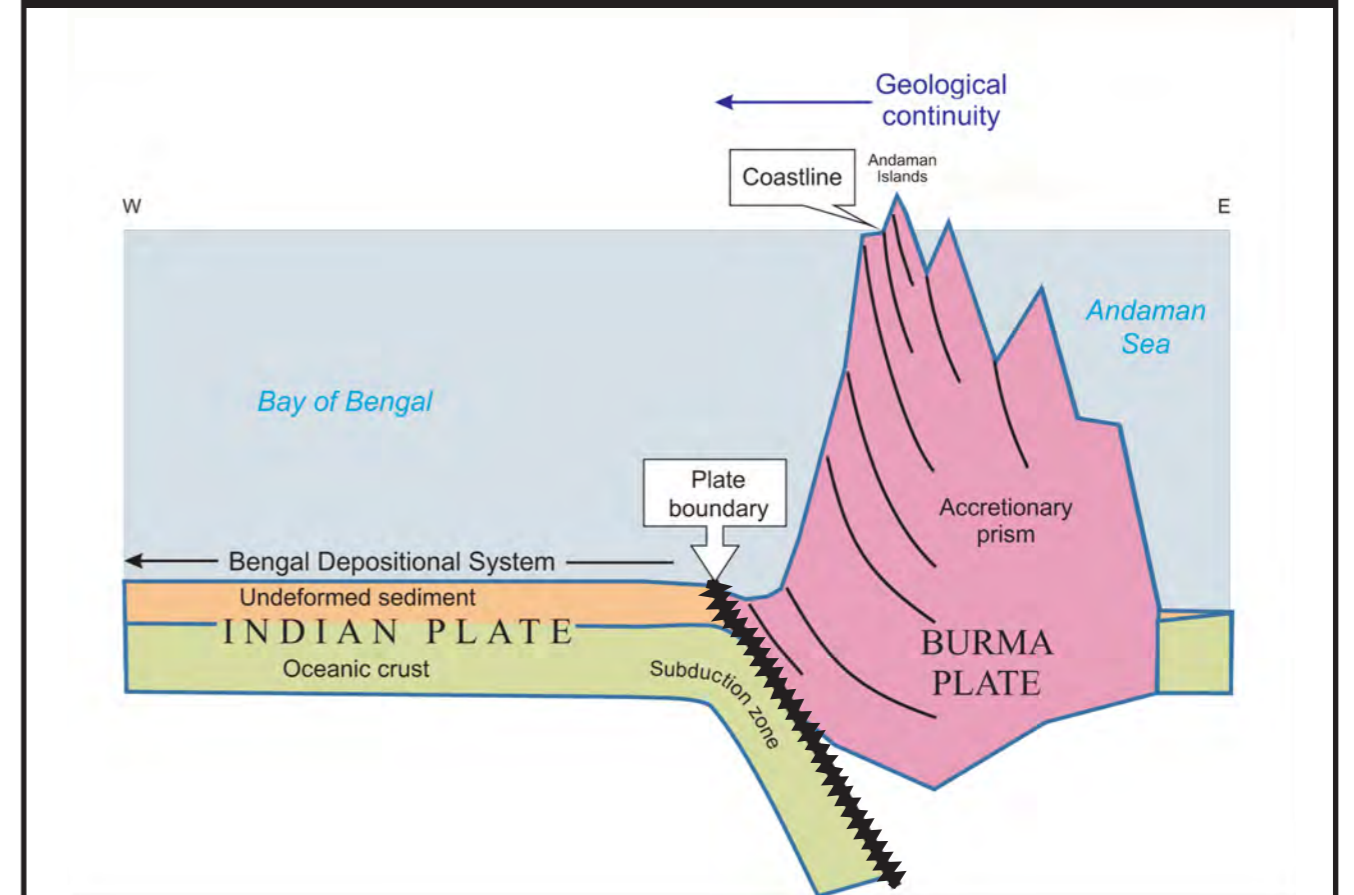


Figure 2.9C

**EXCERPT FROM THE 1924 EDITION OF ADMIRALTY CHART 859**

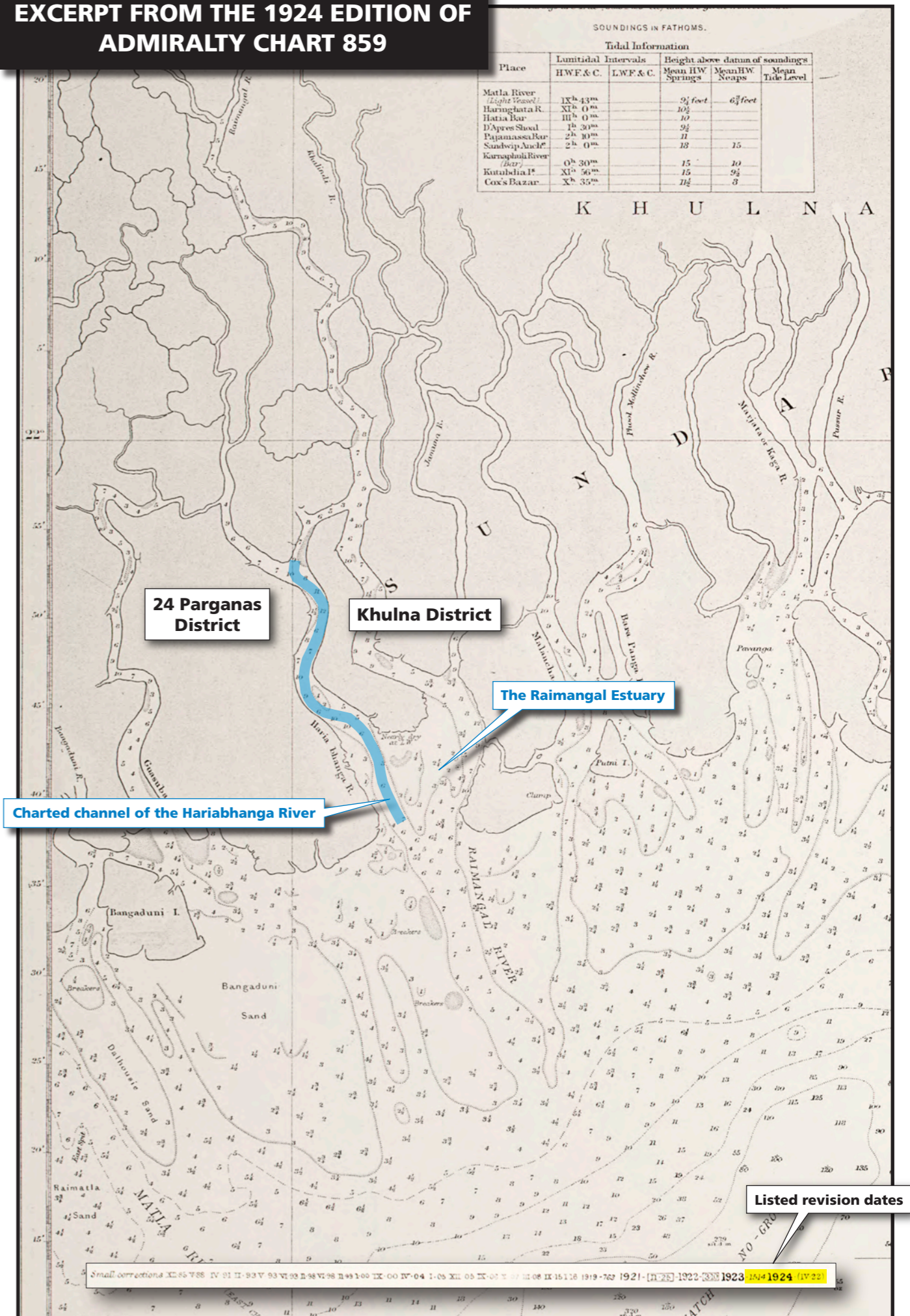


Figure 3.1

**EXCERPT FROM THE 1931 EDITION  
OF ADMIRALTY CHART 859**

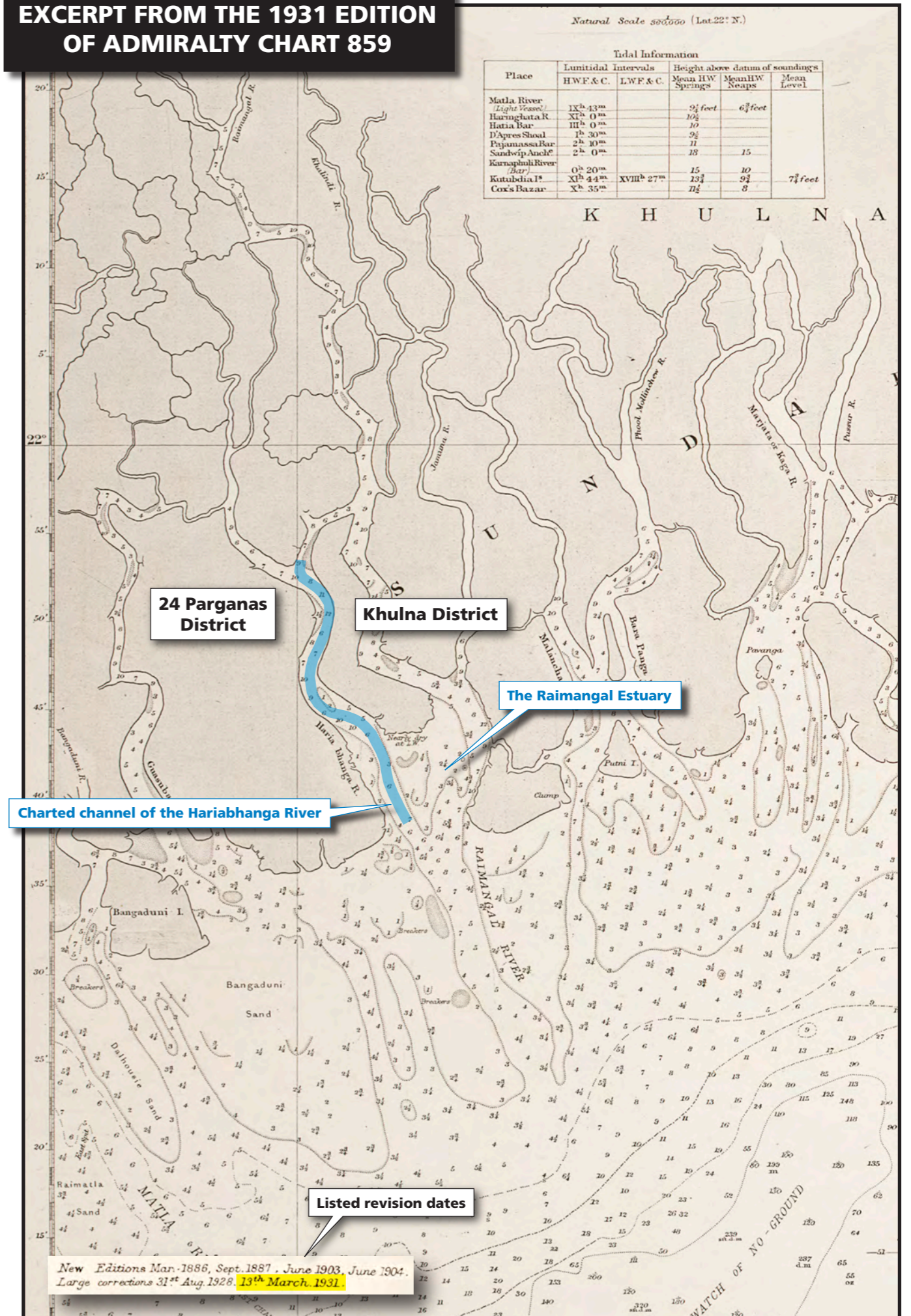


Figure 3.2

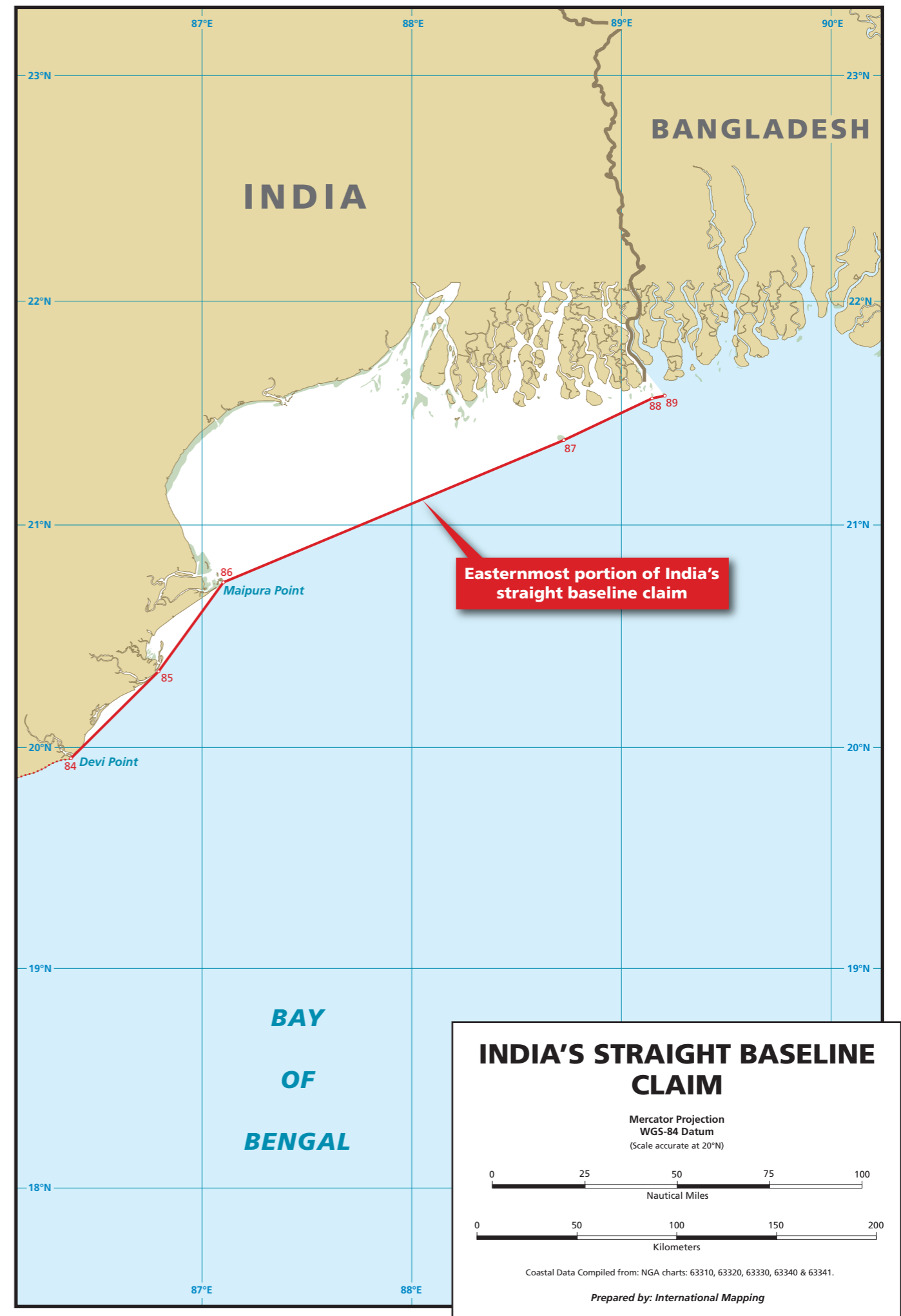


Figure 3.3



### INDIA'S OUTER CONTINENTAL SHELF CLAIM DRAWN FROM ITS MAINLAND COAST

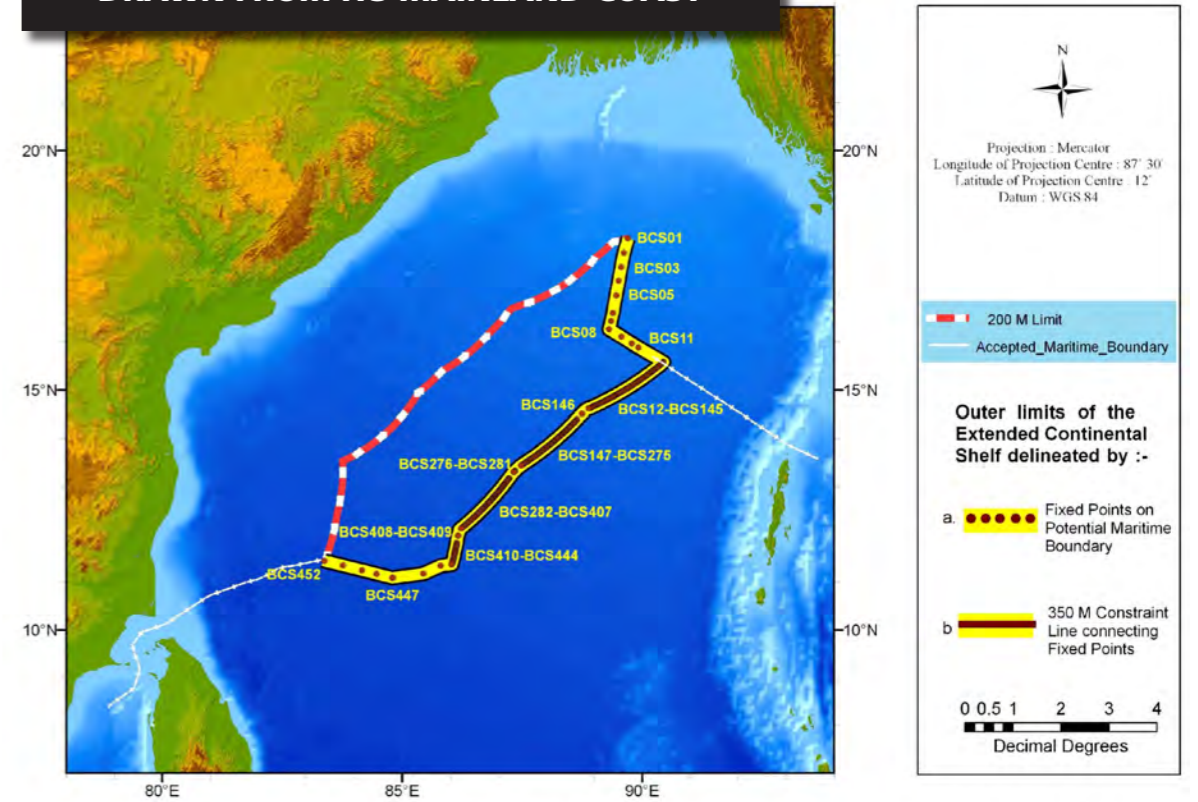


Figure IND-ES-2. Map of the outer limits of the extended continental shelf in the Bay of Bengal sector of the Eastern offshore region

Source: India's Submission to the Commission on the Limits of the Continental Shelf, Part I Executive Summary, pg 10.

### INDIA'S OUTER CONTINENTAL SHELF CLAIM DRAWN FROM THE ANDAMAN ISLANDS

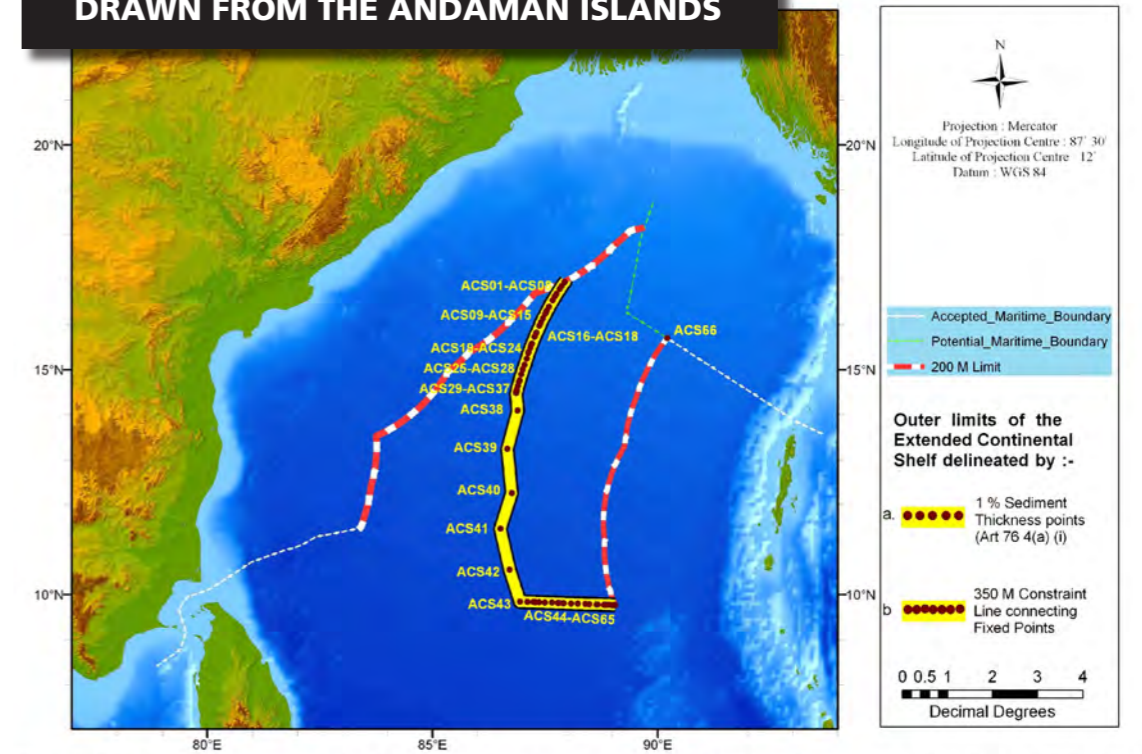
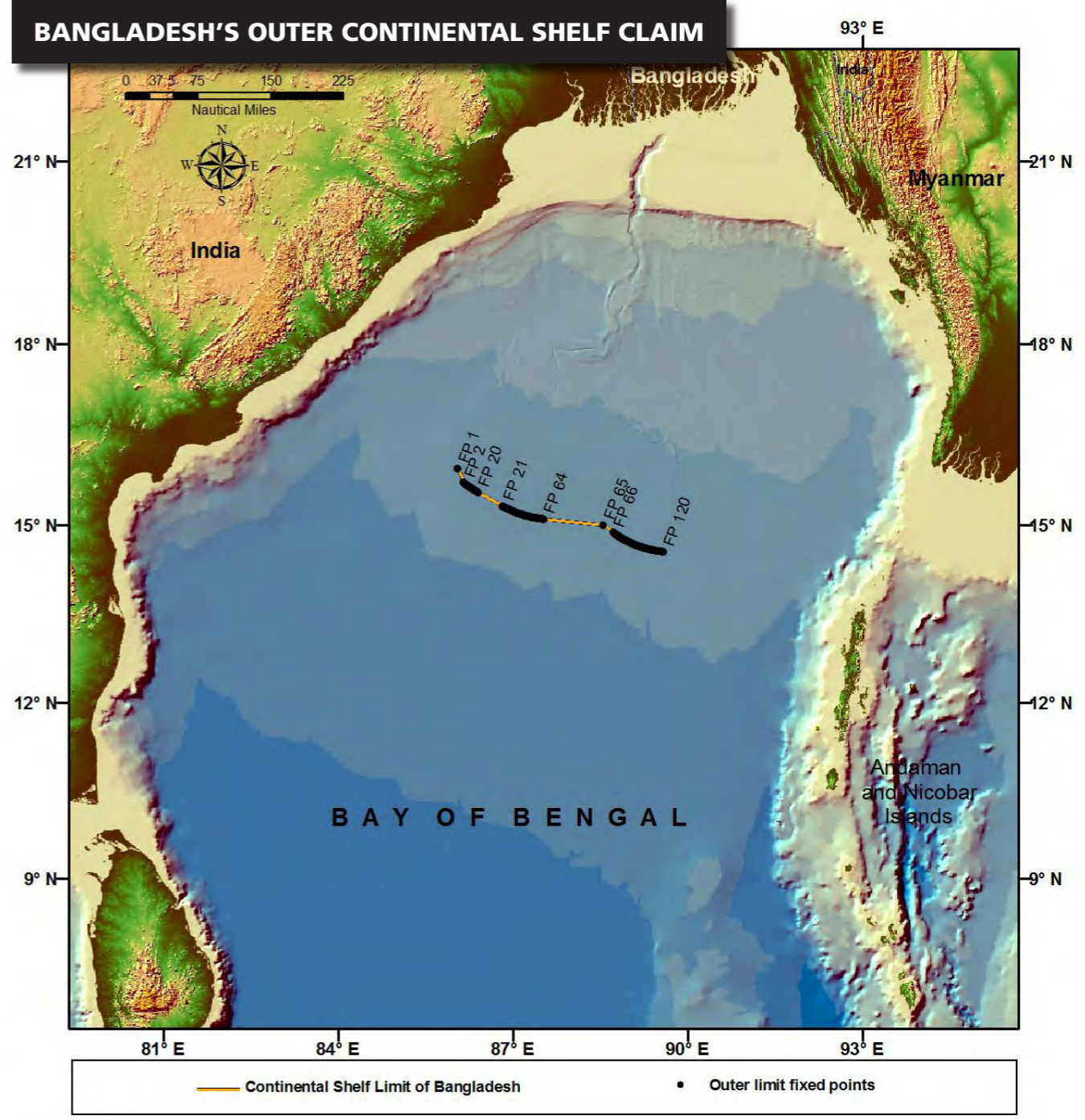


Figure IND-ES-3. Map of the outer limits of the extended continental shelf in the Western Andamans sector of the Eastern offshore region

Source: India's Submission to the Commission on the Limits of the Continental Shelf, Part I Executive Summary, pg 11.



Source: Bangladesh's Submission to the Commission on the Limits of the Continental Shelf, Executive Summary, pg 11.

Figure 3.5

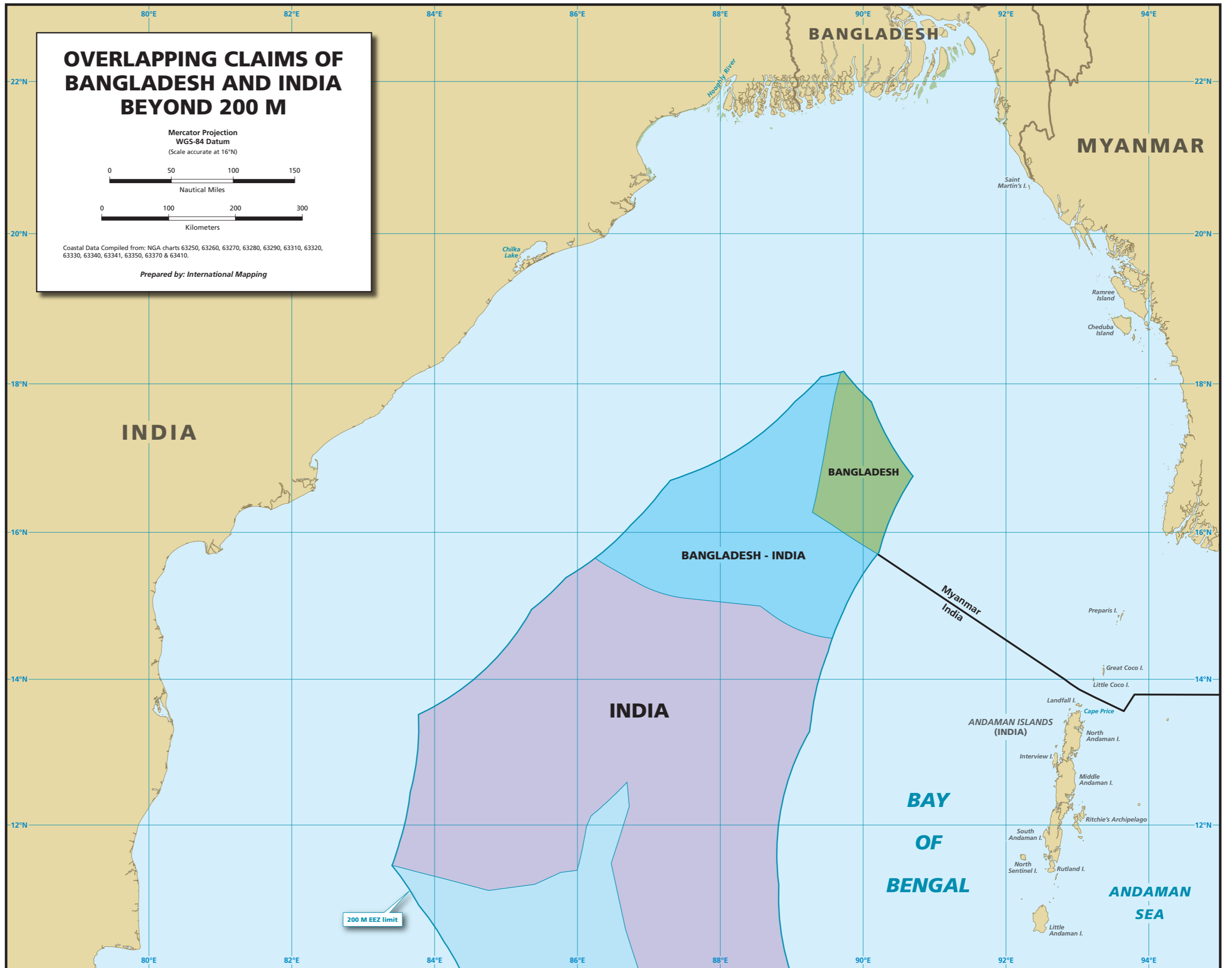


Figure 3.6

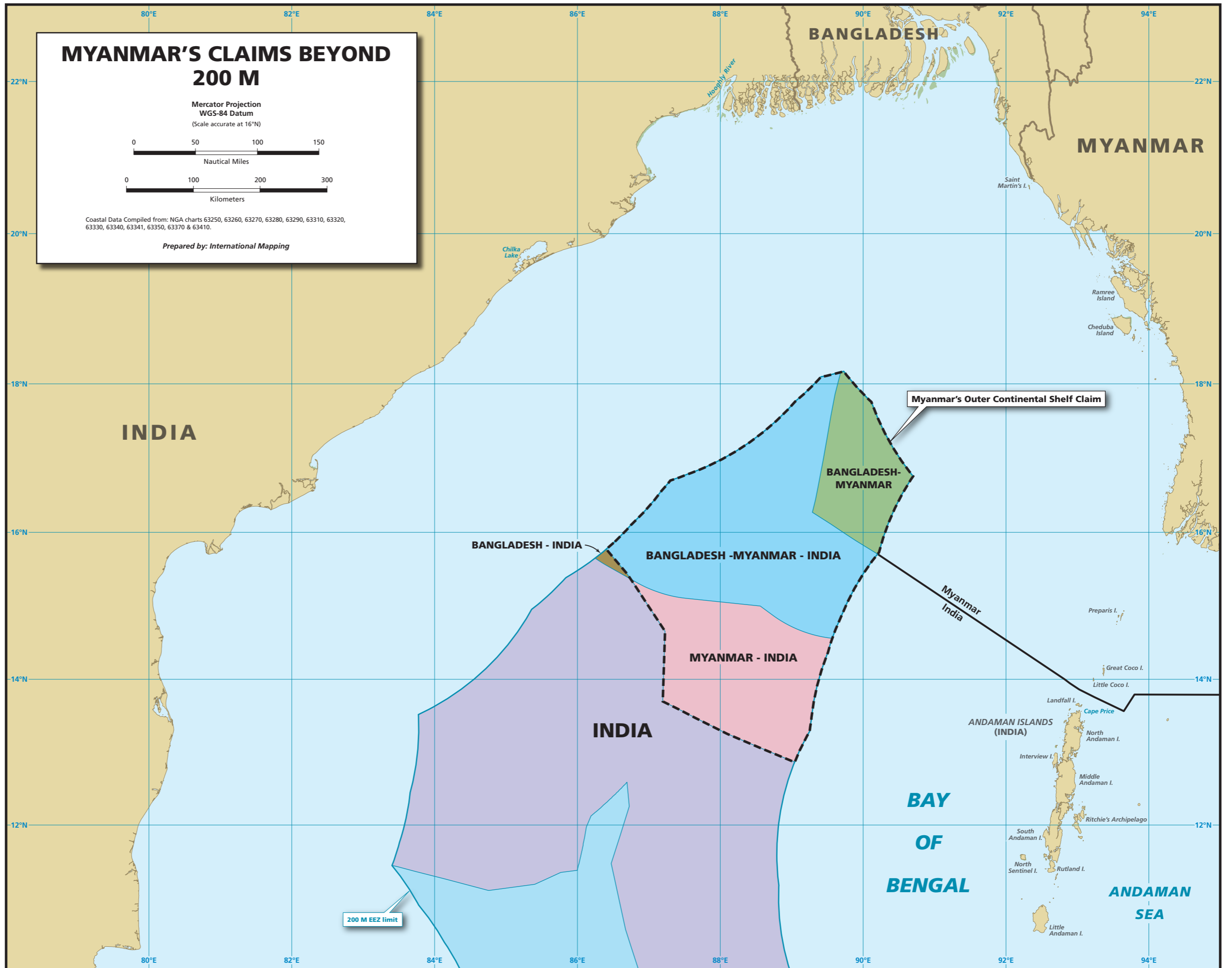


Figure 3.7

**RADCLIFFE AWARD, ANNEXURE "B"  
FROM THE 1947 GAZETTE OF PAKISTAN**

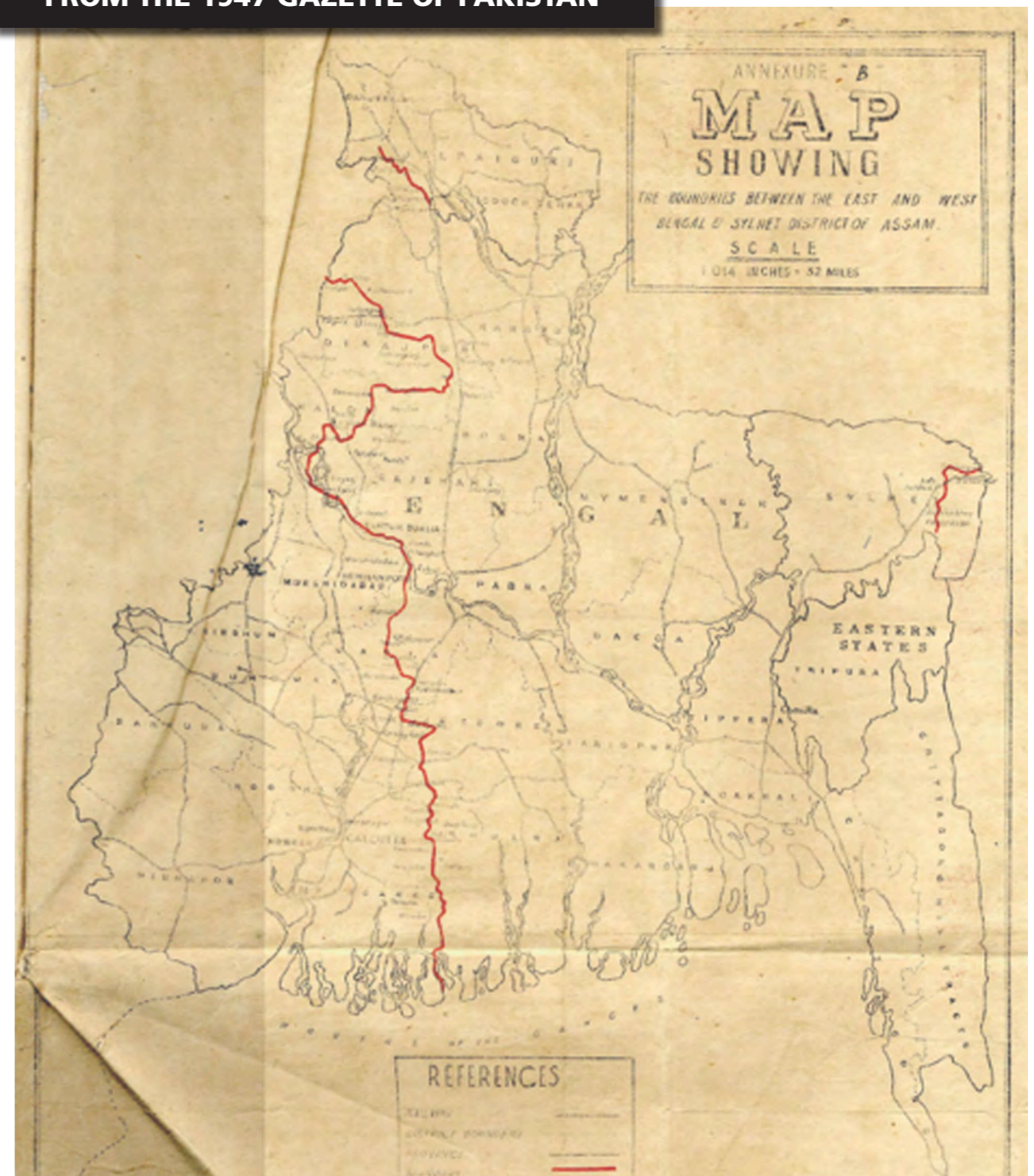


Figure 5.1

**REPRODUCTION OF THE RADCLIFFE AWARD MAP  
FROM THE BRITISH FOREIGN OFFICE**

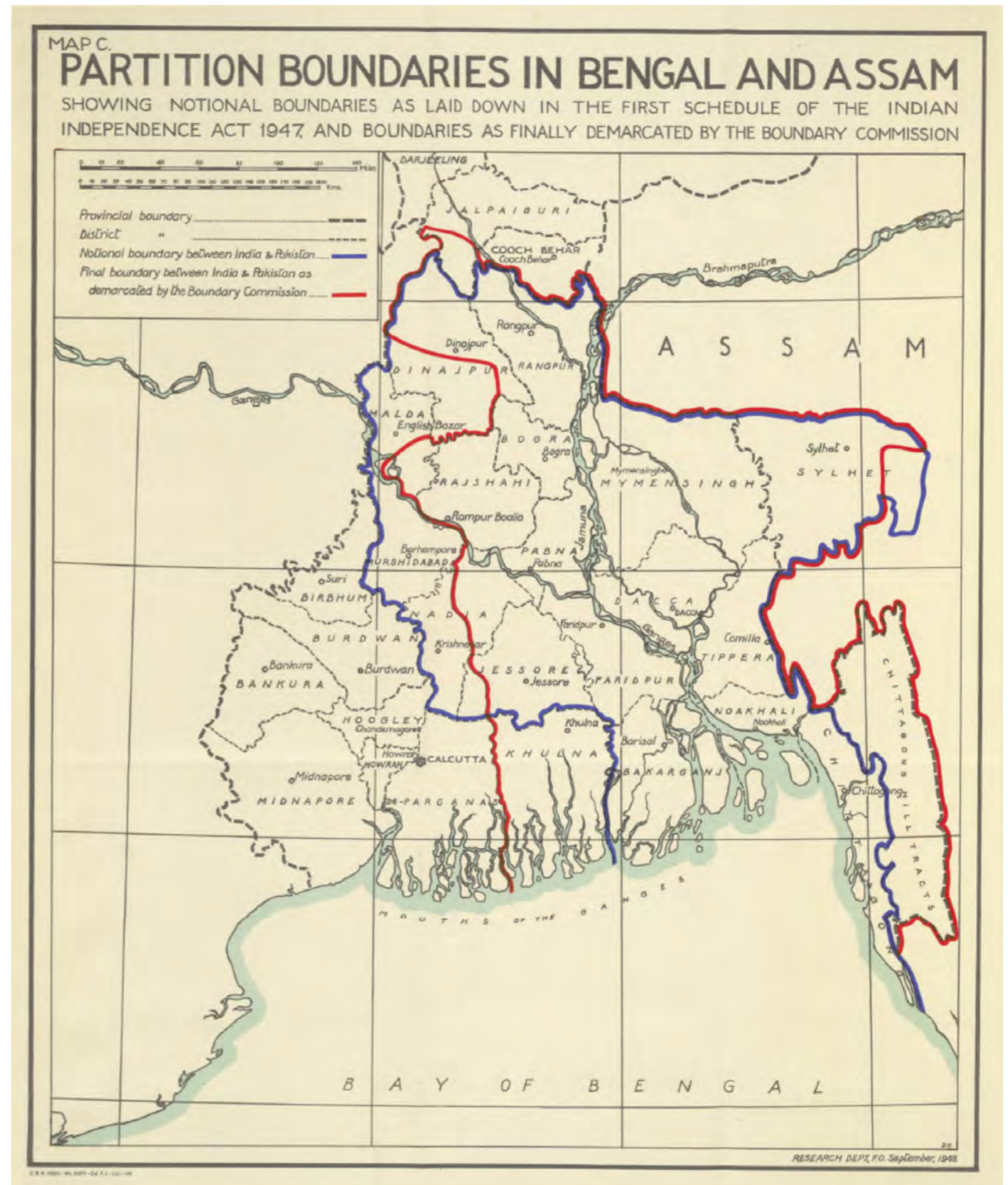


Figure 5.2

**THE RADCLIFFE AWARD LINE DEPICTED ON THE 1931 EDITION OF ADMIRALTY CHART 859**

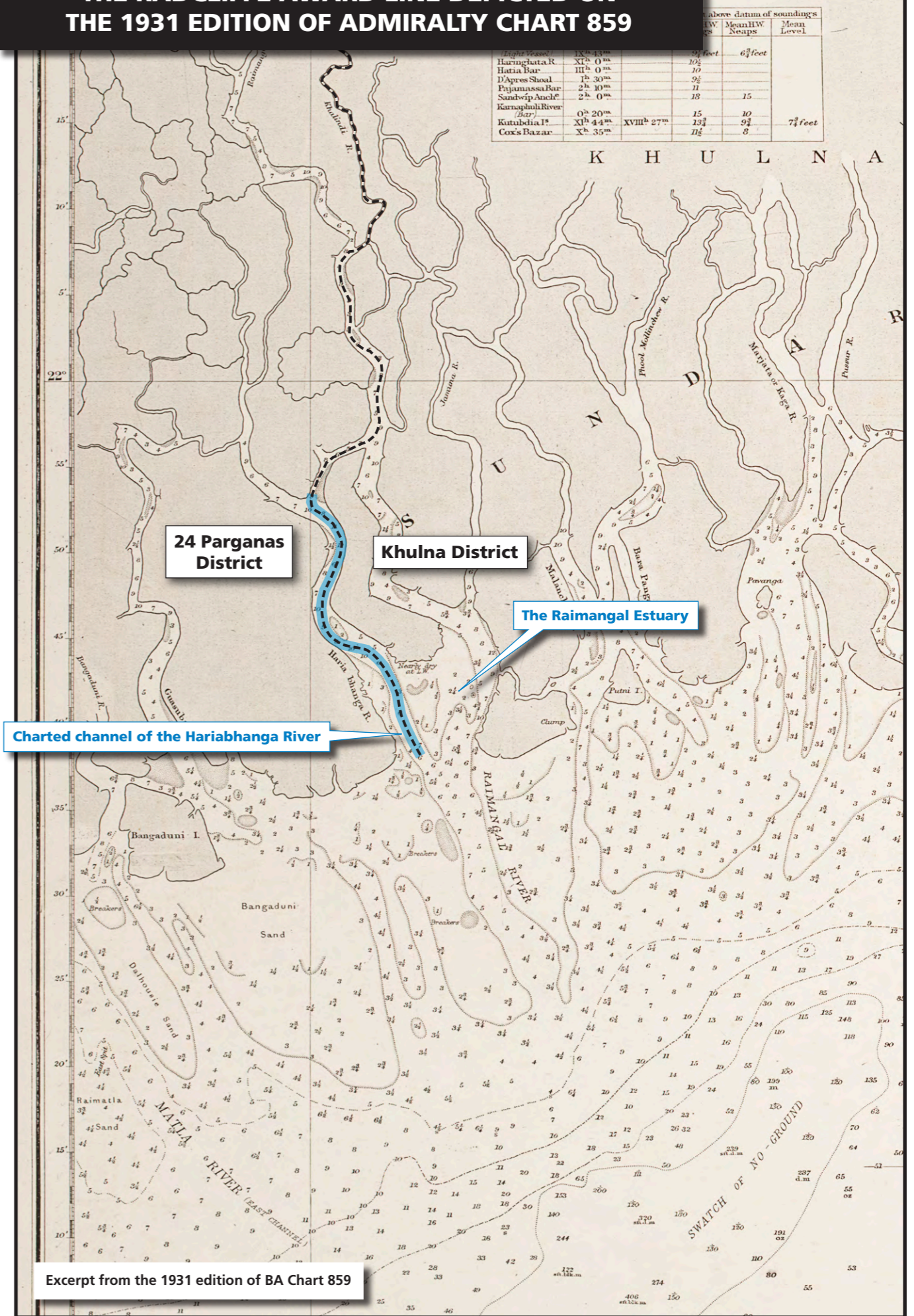


Figure 5.3

**THE RADCLIFFE AWARD LINE DEPICTED ON AN EXCEPT FROM THE 1931 EDITION OF ADMIRALTY CHART 859**

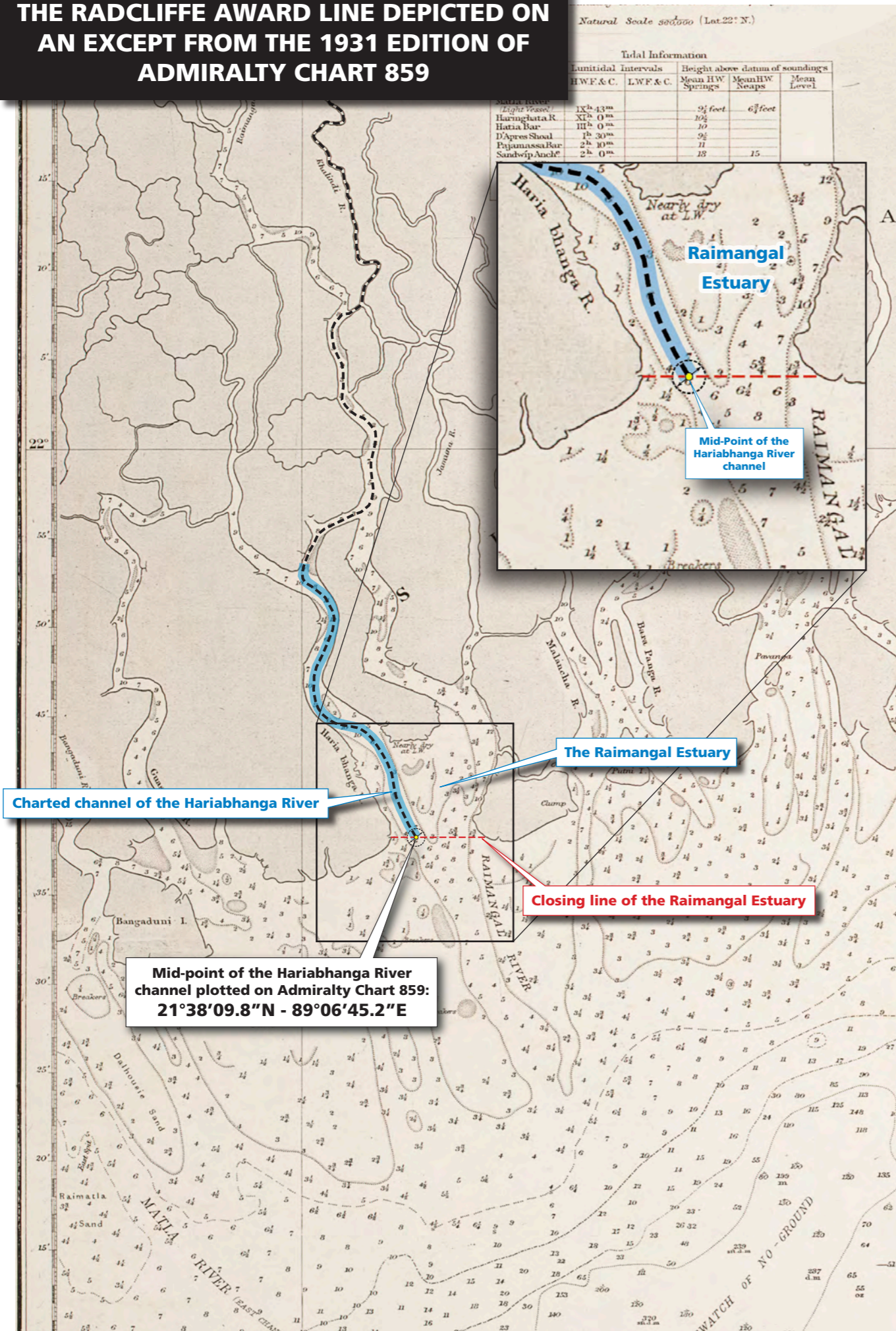


Figure 5.4A

**THE BANGLADESH - INDIA LAND BOUNDARY TERMINUS IN THE 1984 WORLD GEODETIC SYSTEM DATUM (WGS-84)**

Mercator Projection  
WGS-84 Datum  
(Scale accurate at 21°N)

0 5 10 15 20  
Nautical Miles

0 10 20 30 40  
Kilometers

Coastal Data Compiled from: NGA charts 63320, 63330.

Prepared by: International Mapping

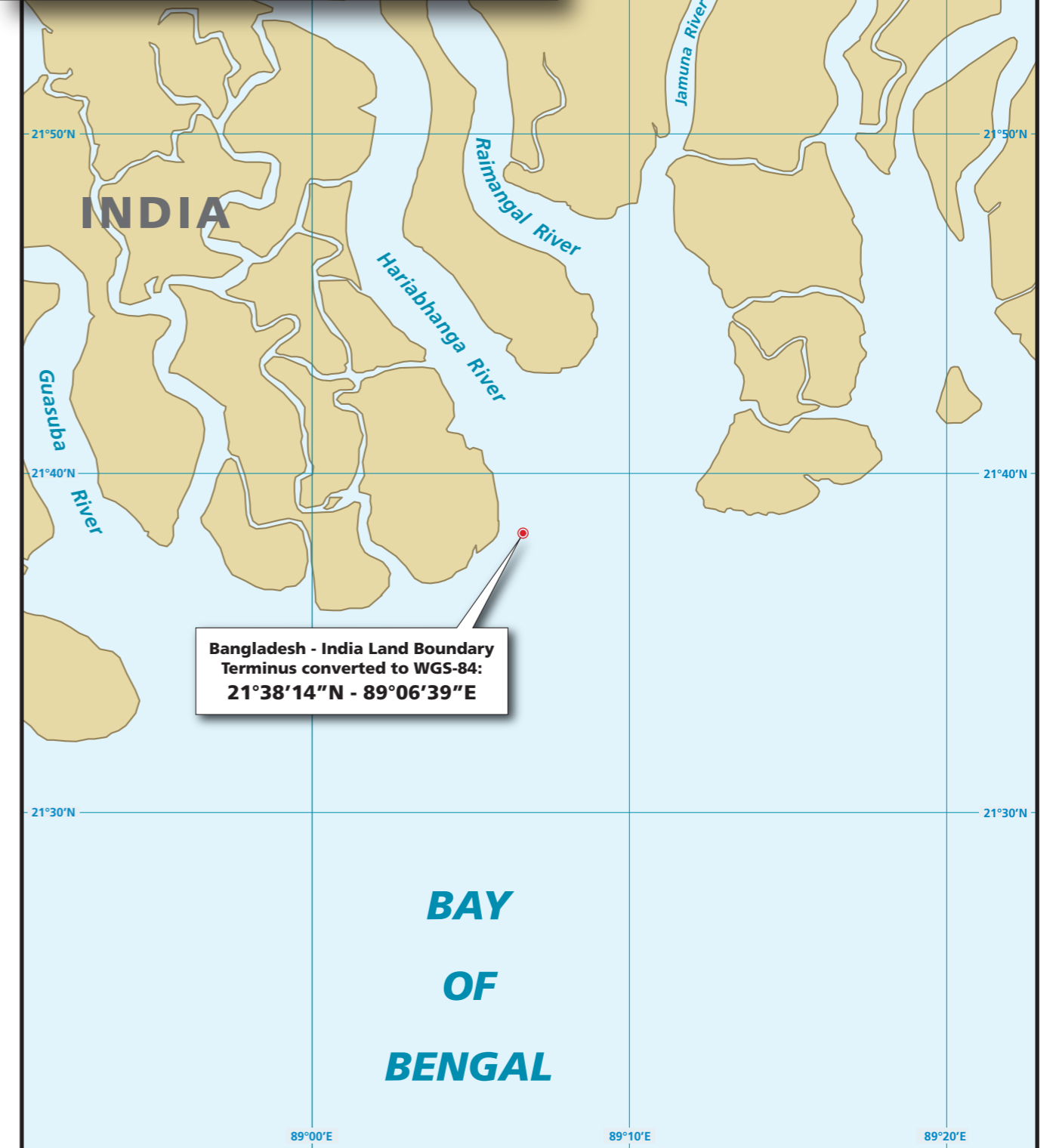


Figure 5.4B



**LANDSAT V IMAGERY OF THE  
BANGLADESH – INDIA DELTAIC COAST  
(November 2009)**

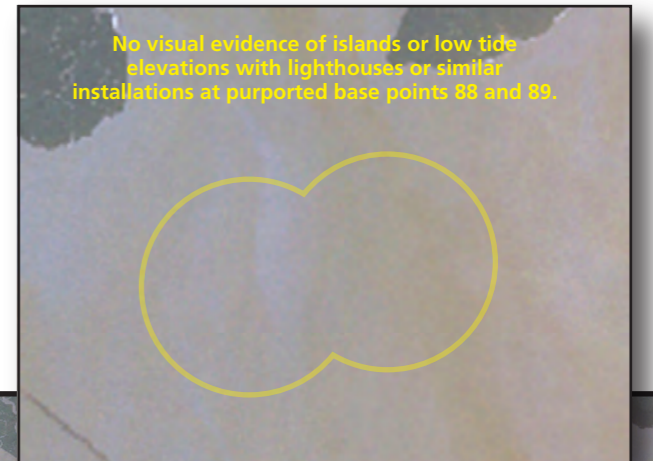
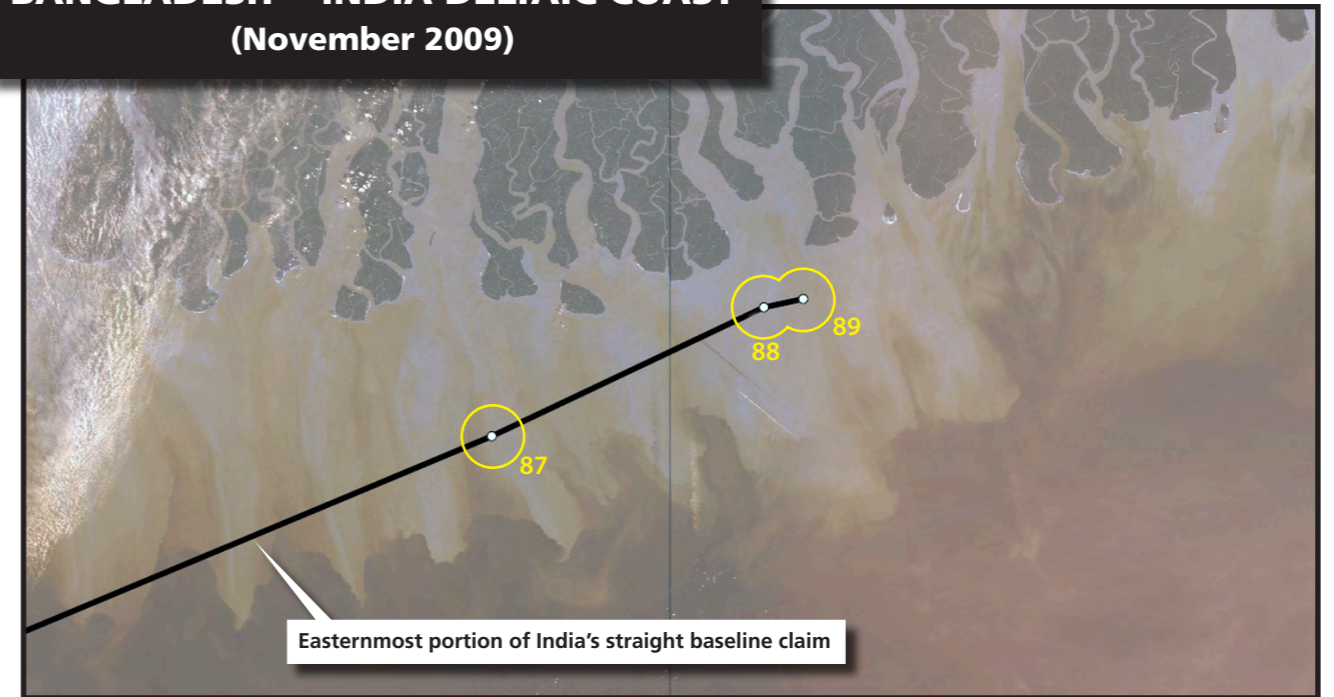


Figure 5.5

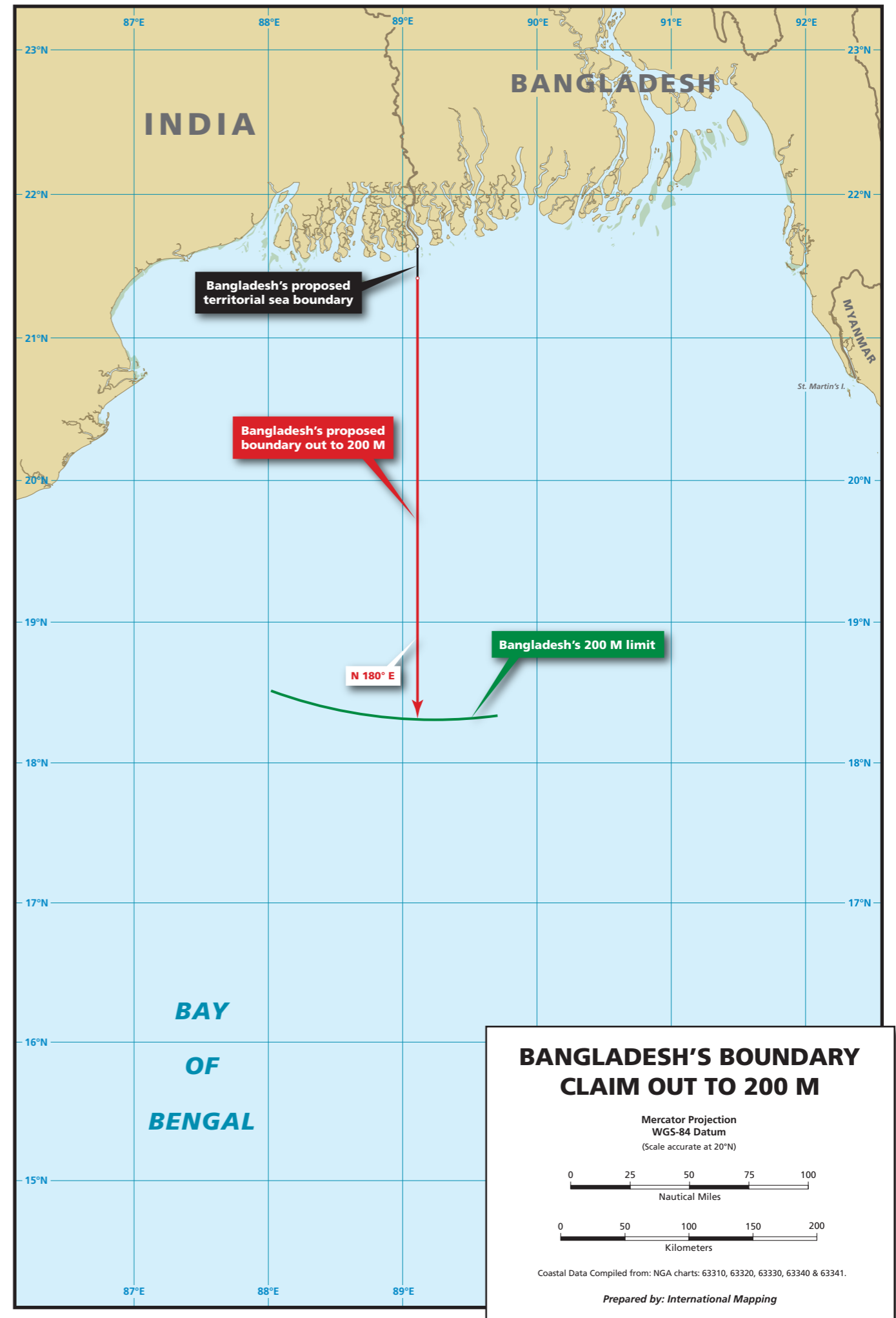


Figure 6.1

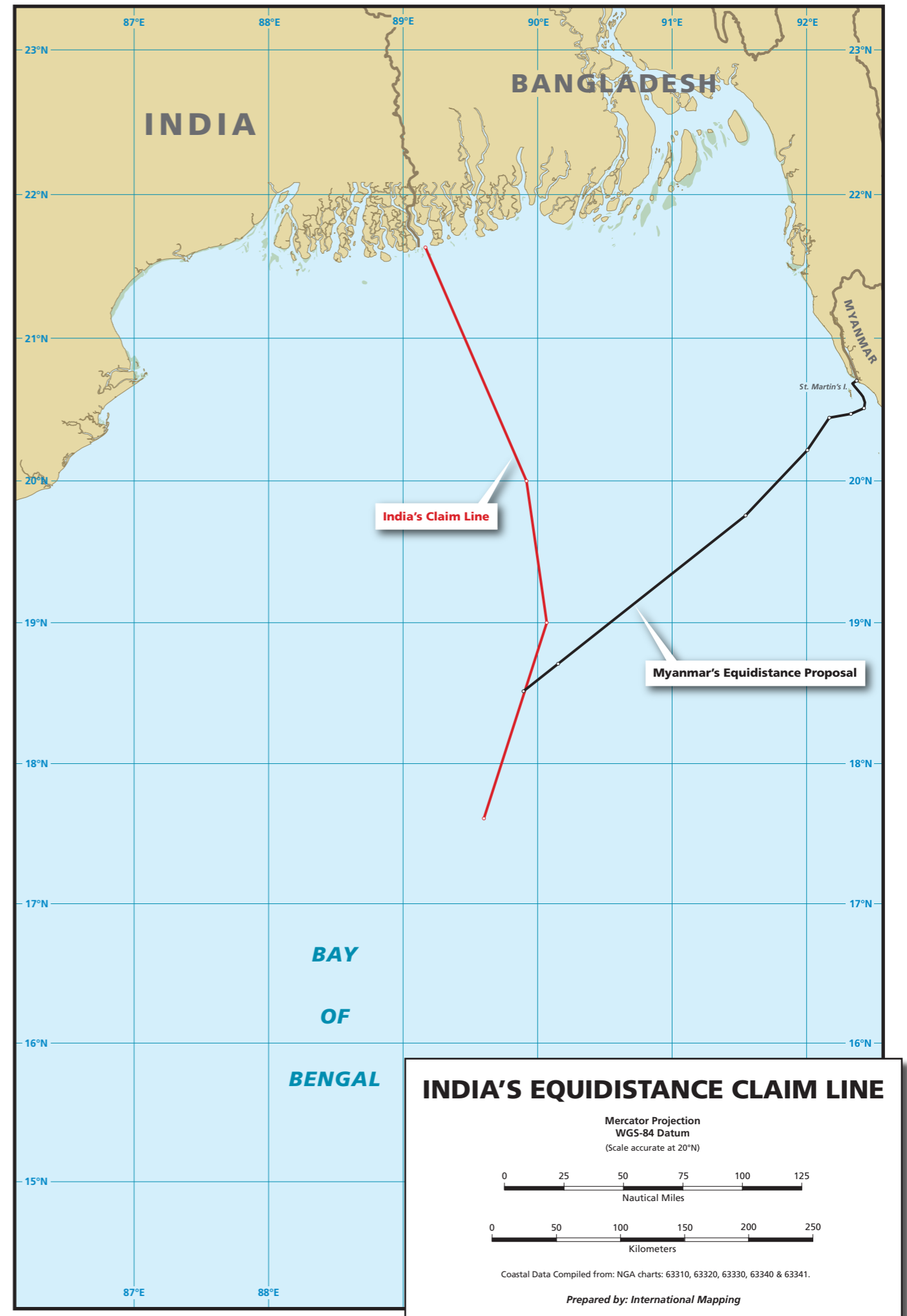
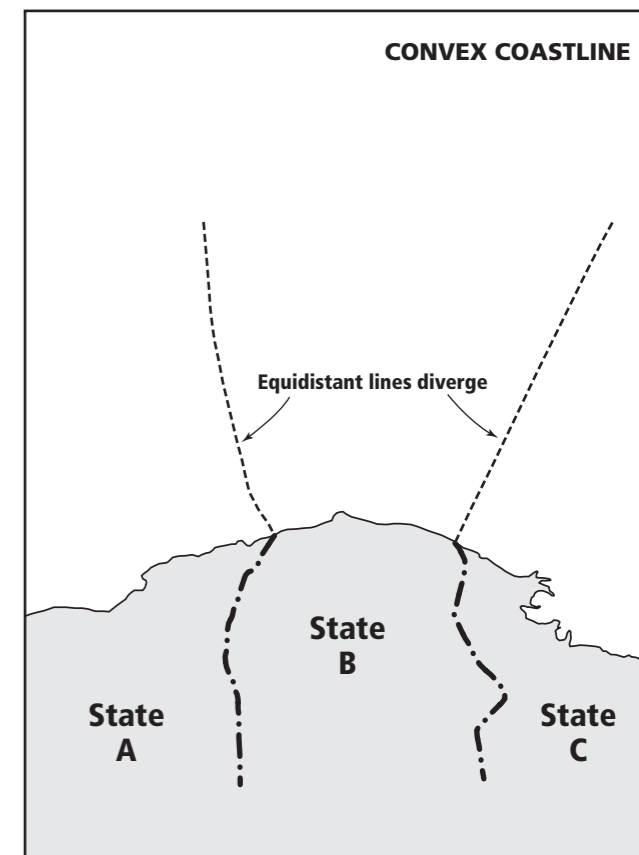
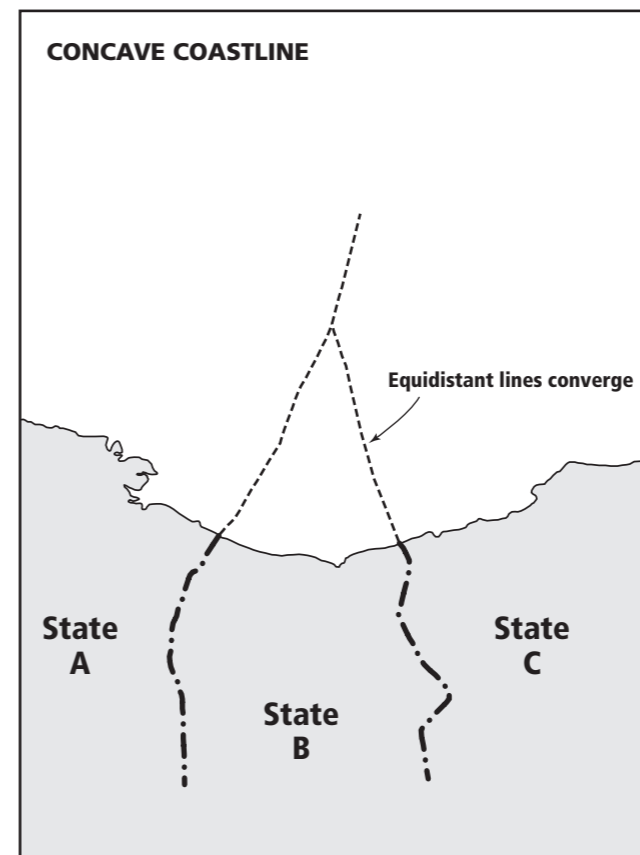


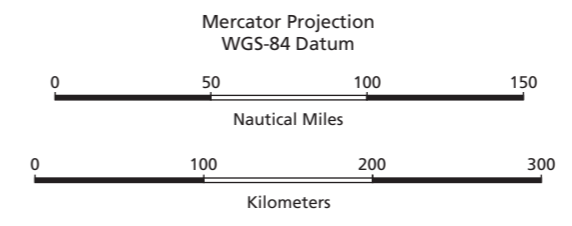
Figure 6.2



Adapted from UN Office of Legal Affairs, Division for Ocean Affairs and the Law of the Sea, Handbook on Delimitation of Maritime Boundaries (2000), at p. 30.

Figure 6.3

# THE CUTOFF EFFECT ON GERMANY



Prepared by: International Mapping



Figure 6.4

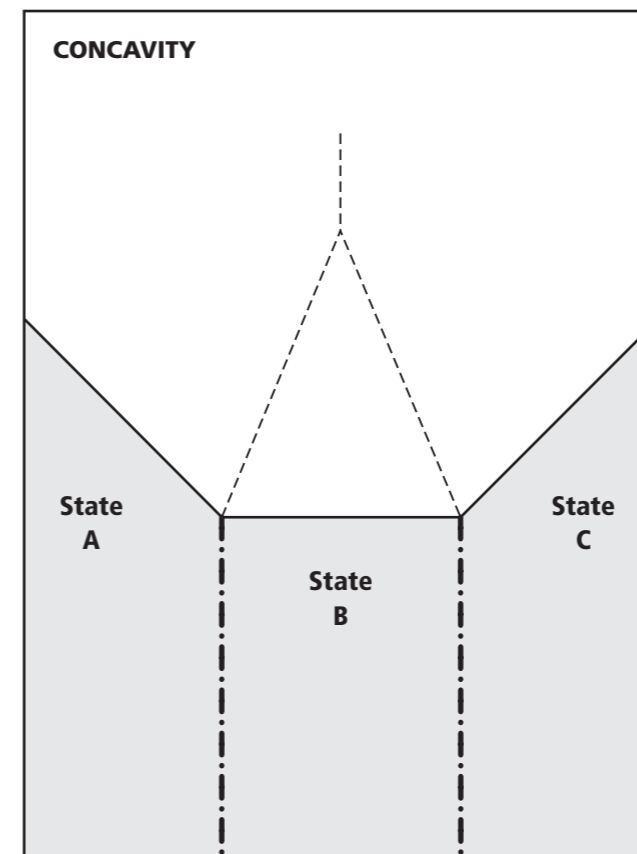


Figure 6.5A

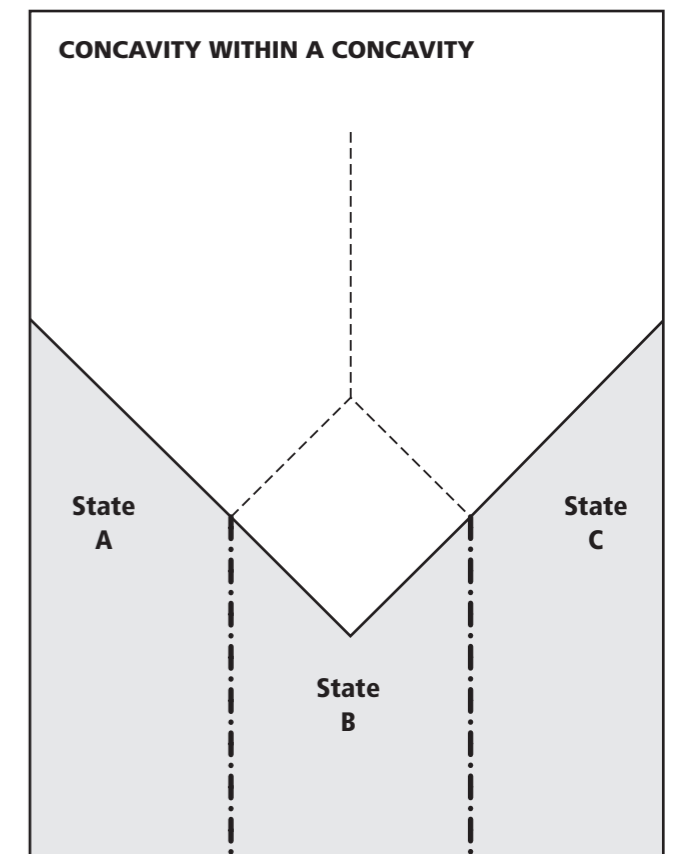
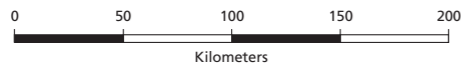
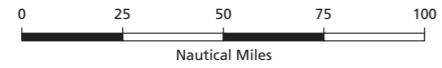


Figure 6.5B

# CONSEQUENCES OF THE CUTOFF EFFECT

Mercator Projection  
WGS-84 Datum  
(Scale accurate at 18°N)



Coastal Data Compiled from: NGA charts 63290, 63310, 63320, 63330, 63340, 63341, 63350 & 63410.

Prepared by: International Mapping

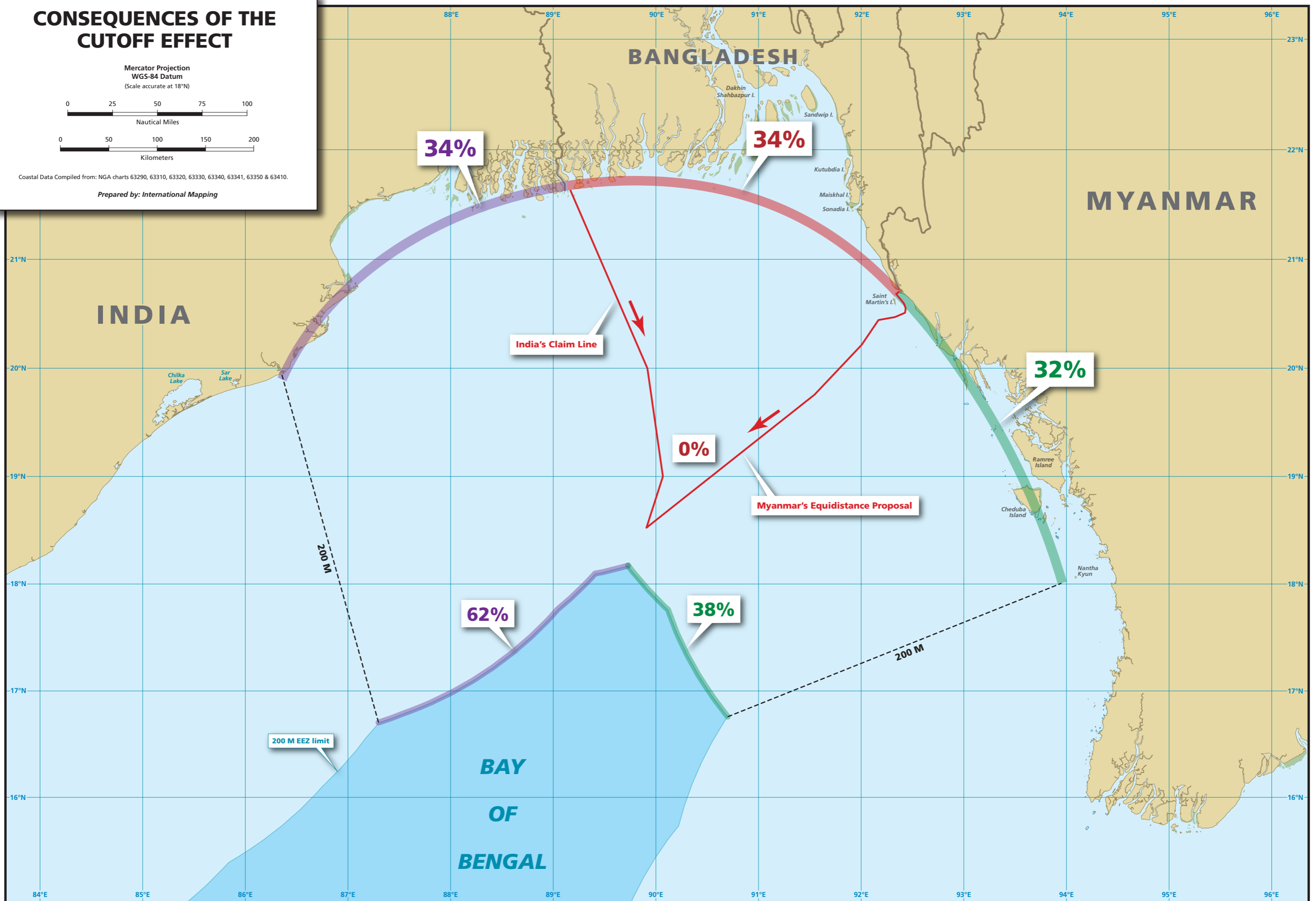
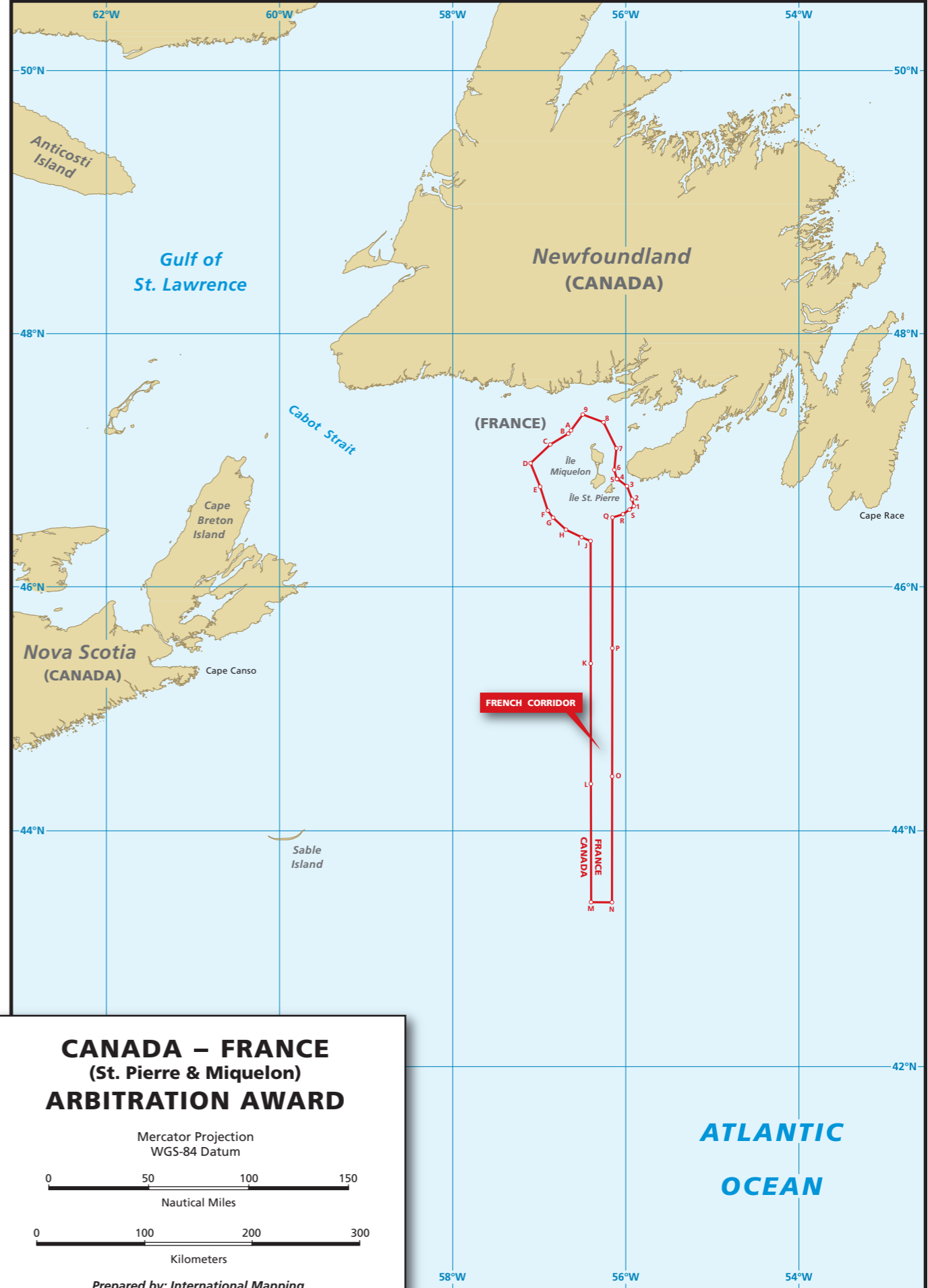


Figure 6.6



Figure 6.7





**CANADA – FRANCE**  
**(St. Pierre & Miquelon)**  
**ARBITRATION AWARD**

Mercator Projection  
WGS-84 Datum

0      50      100      150  
Nautical Miles

0      100      200      300  
Kilometers

*Prepared by: International Mapping*

Figure 6.8

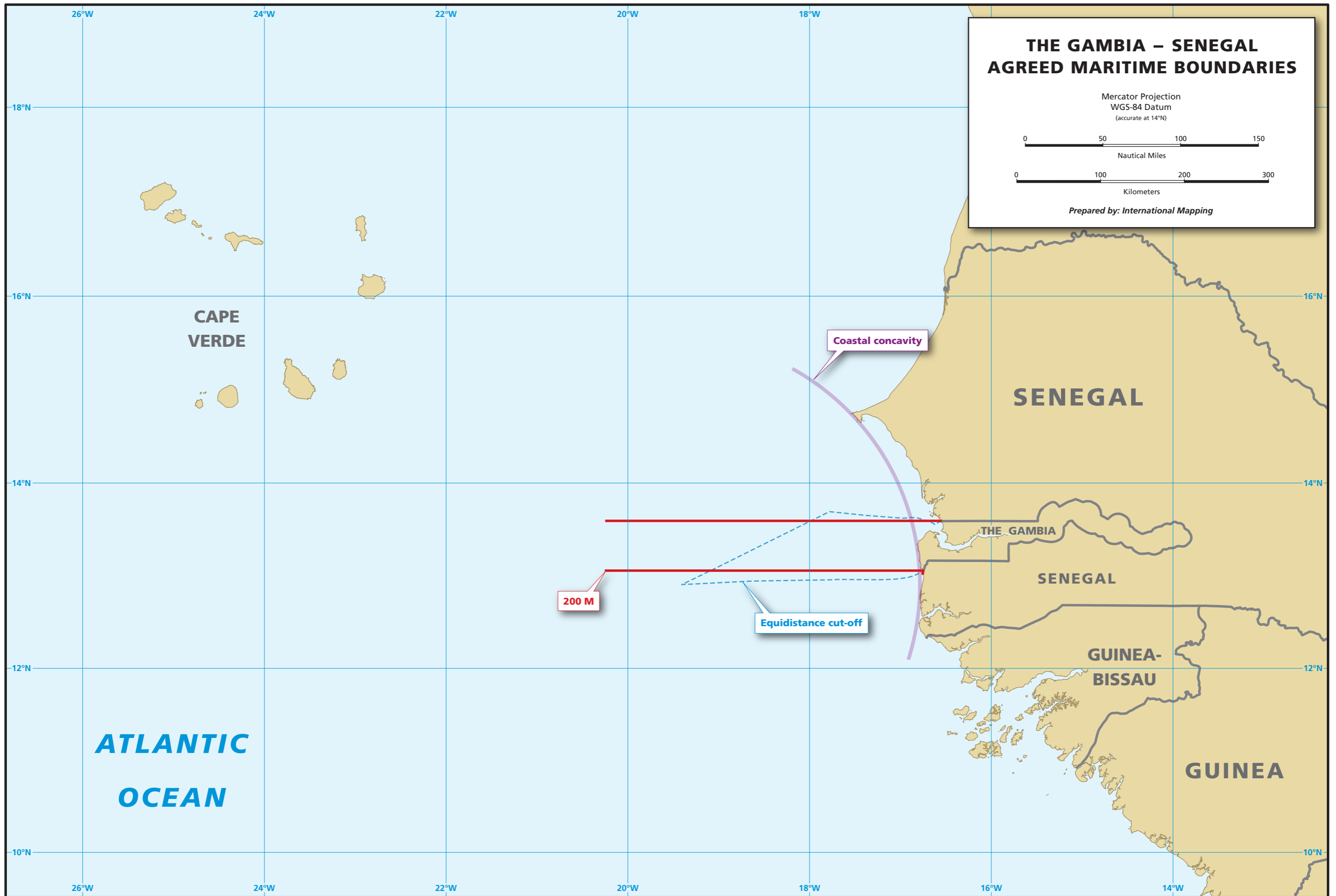


Figure 6.9

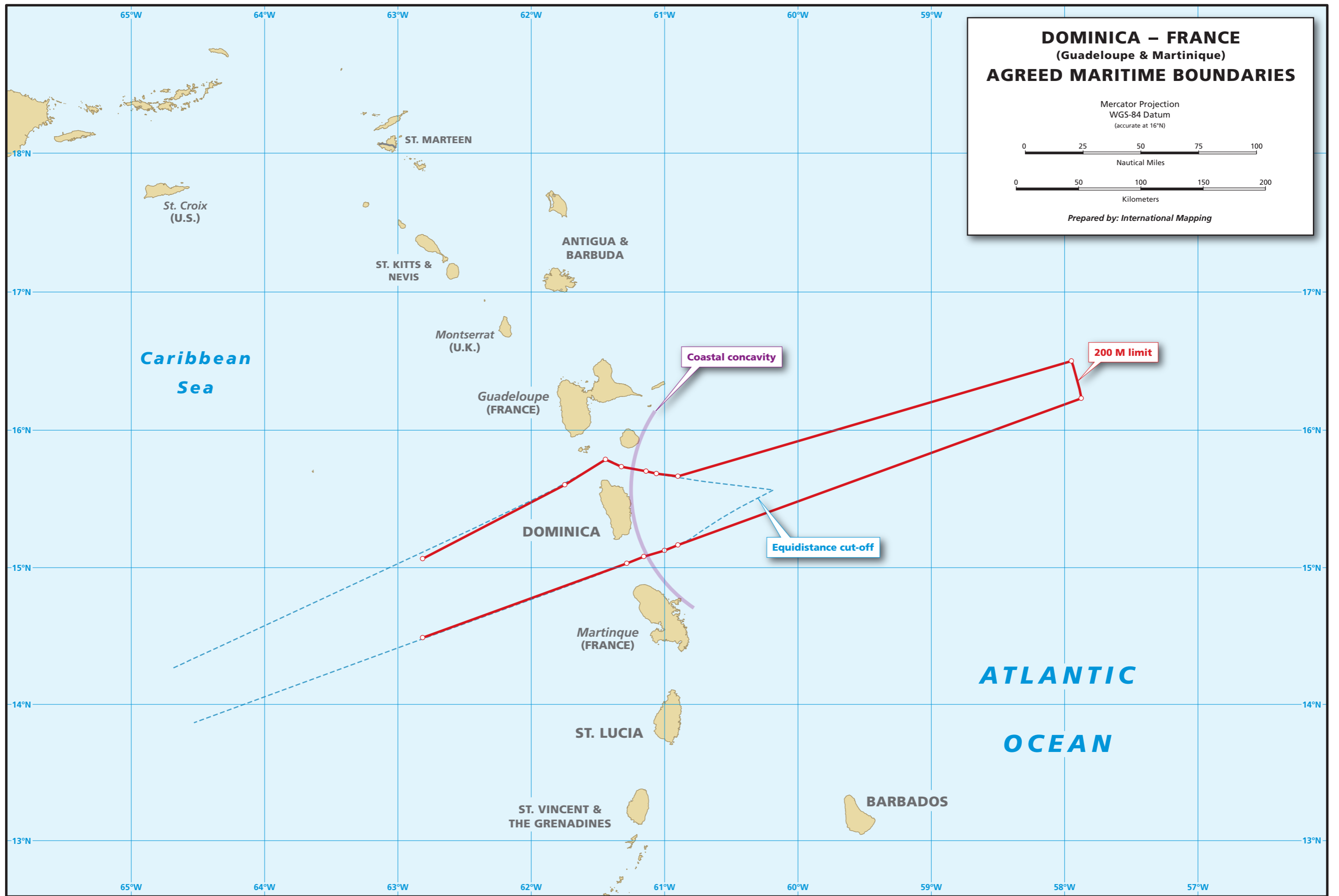


Figure 6.10

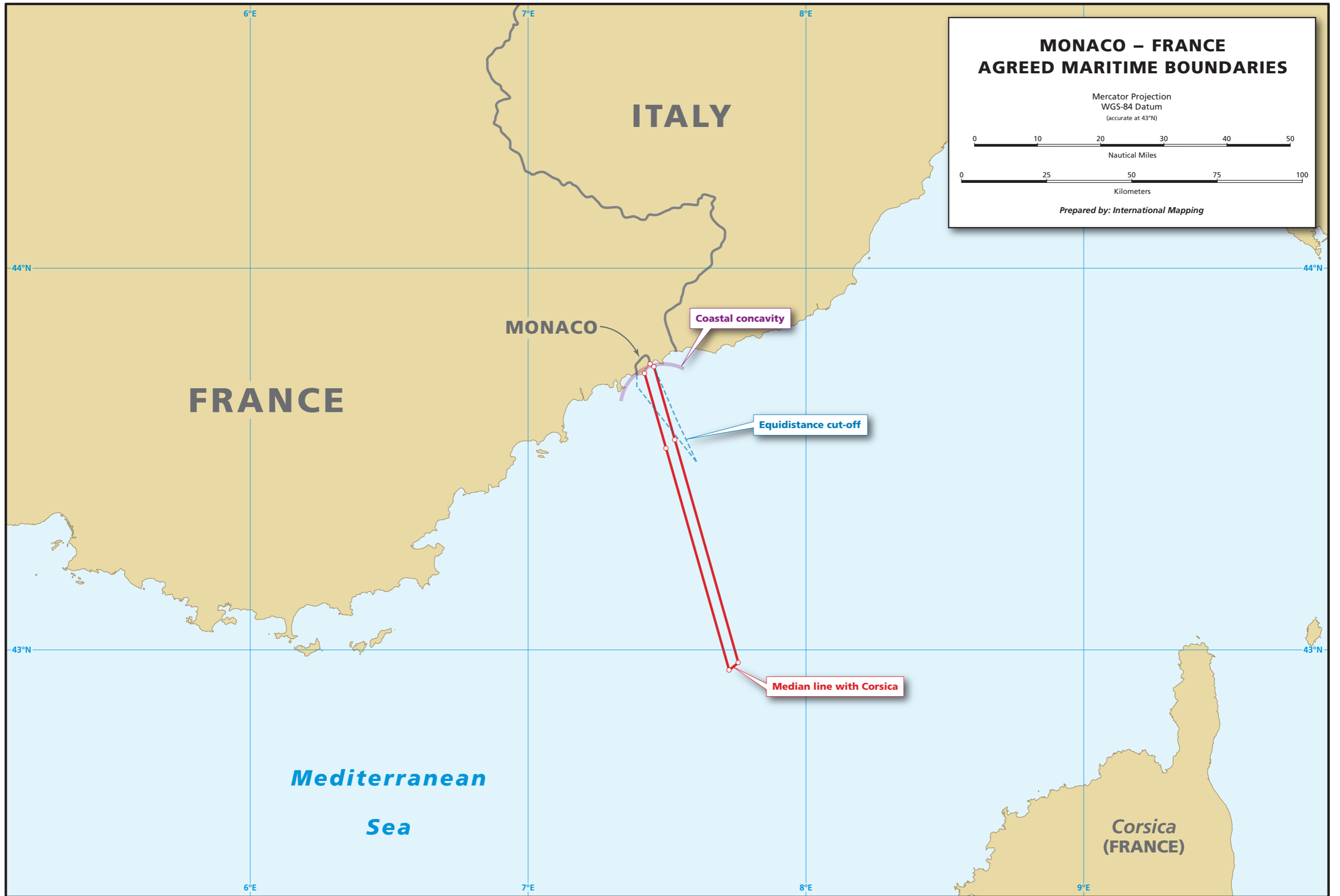


Figure 6.11



Figure 6.12

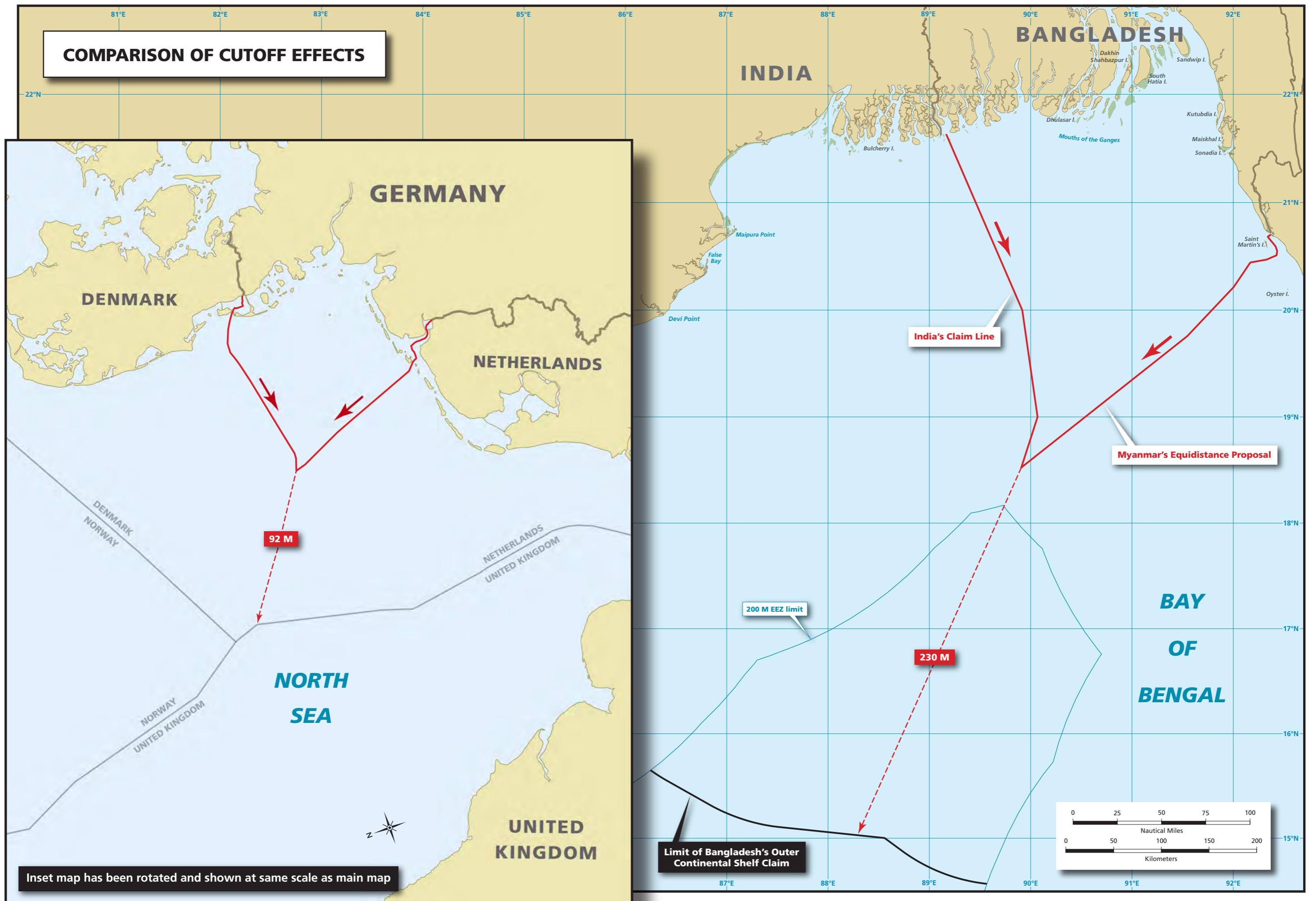
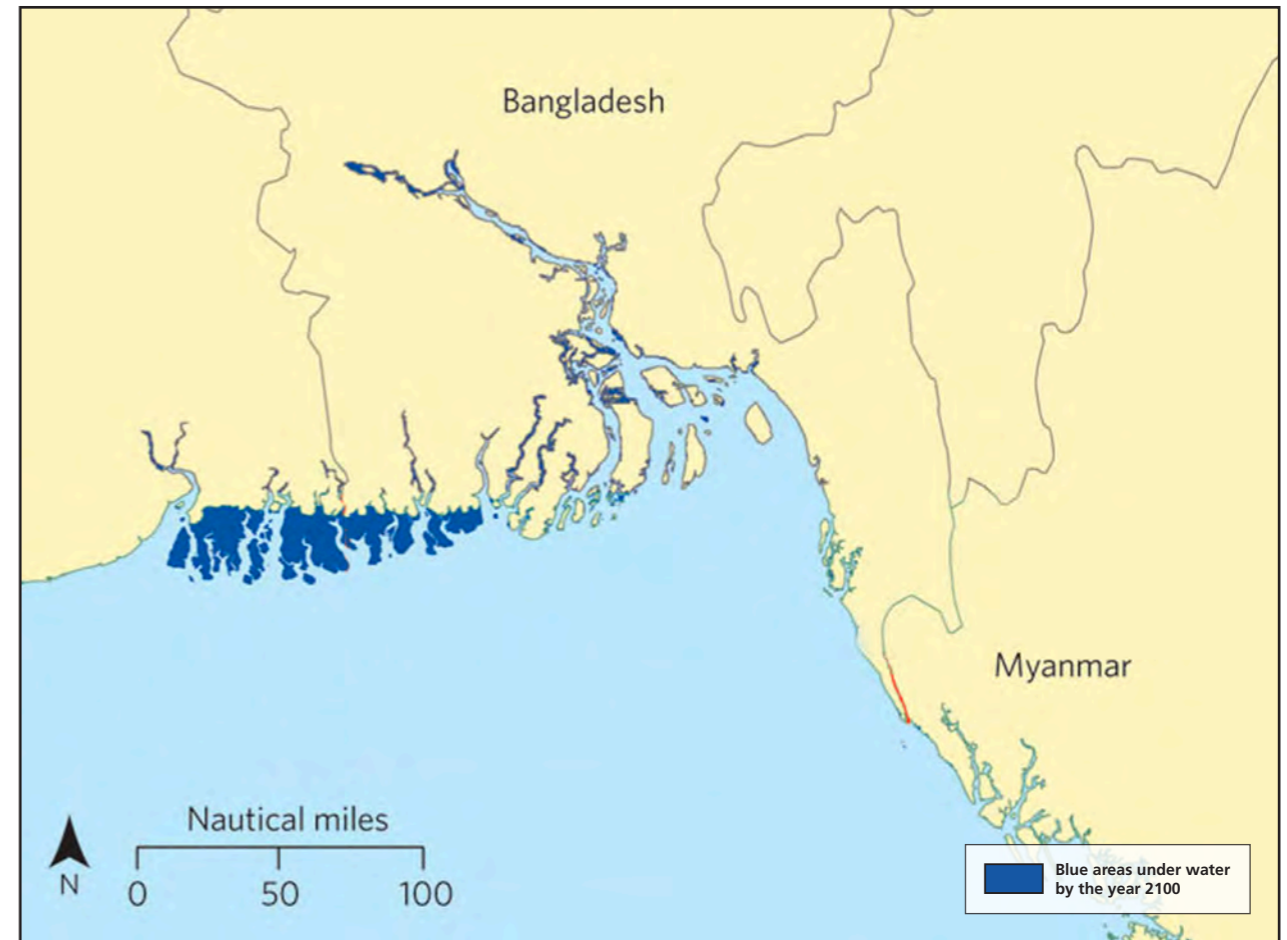


Figure 6.13

**ANTICIPATED EFFECTS OF SEA-LEVEL RISE  
ON THE BENGAL DELTA COAST**



Source: *Maritime Boundaries in a Rising Sea*, Nature Geoscience, 30 November 2010

Figure 6.14

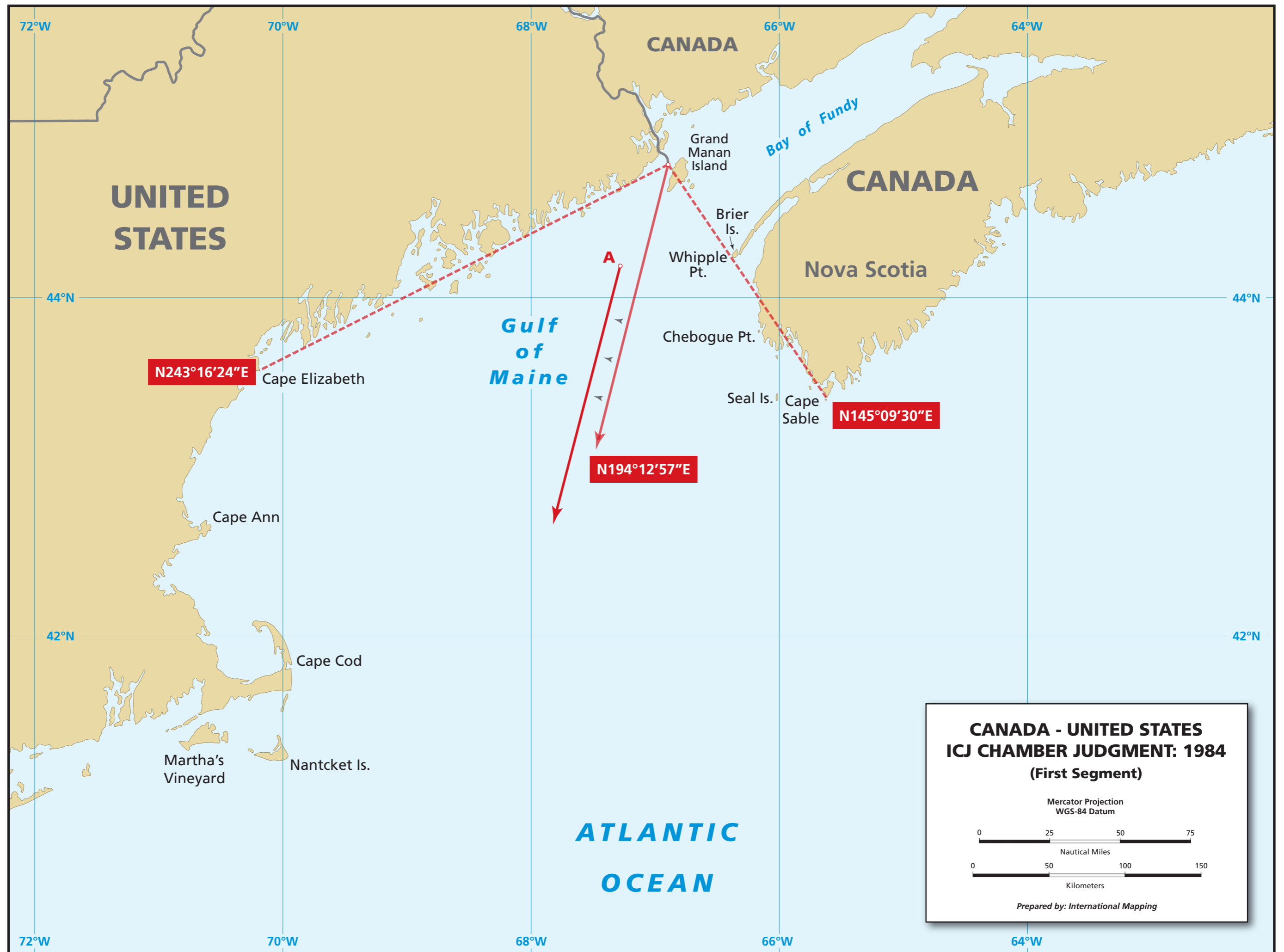


Figure 6.15



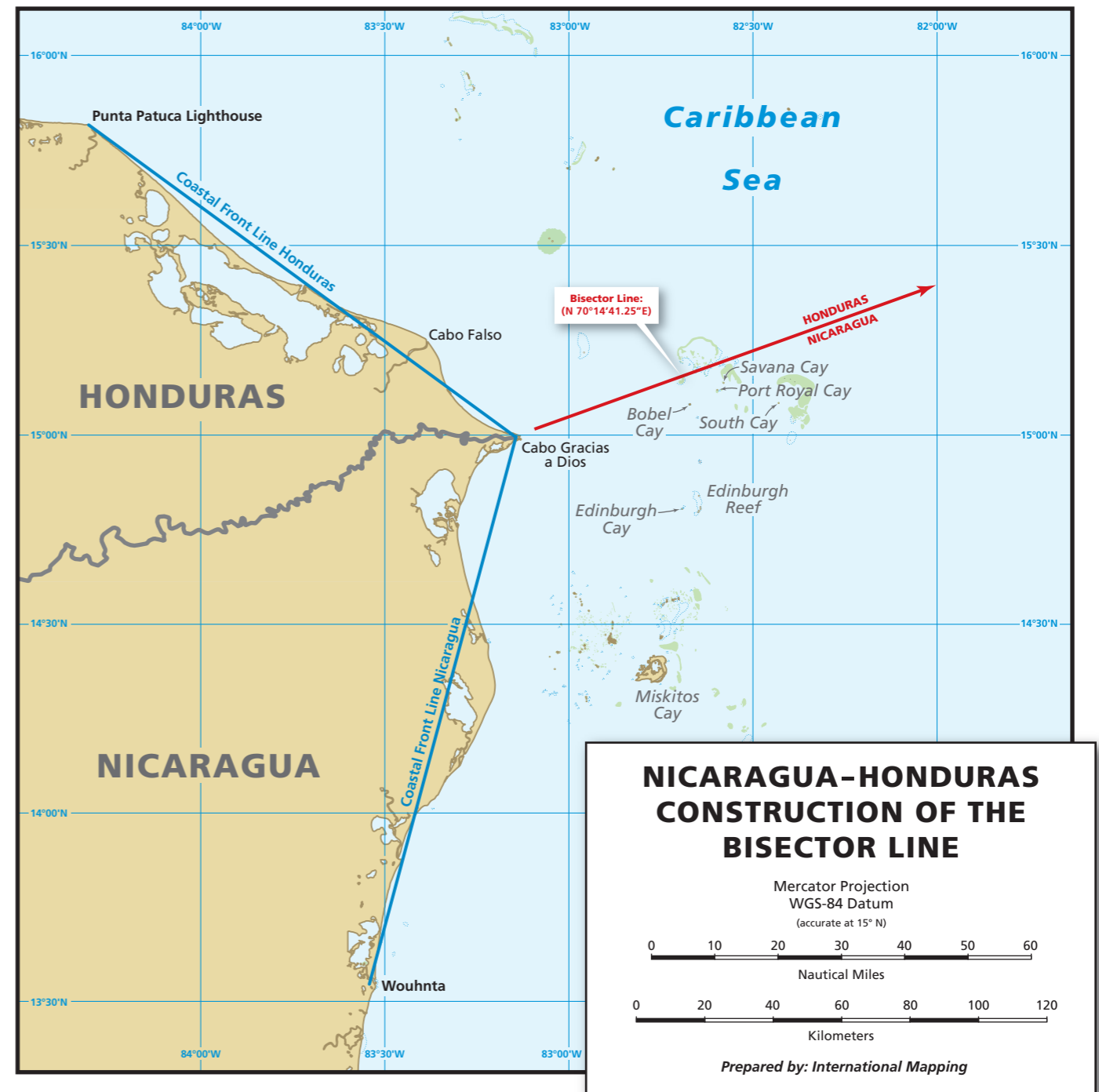


Figure 6.16

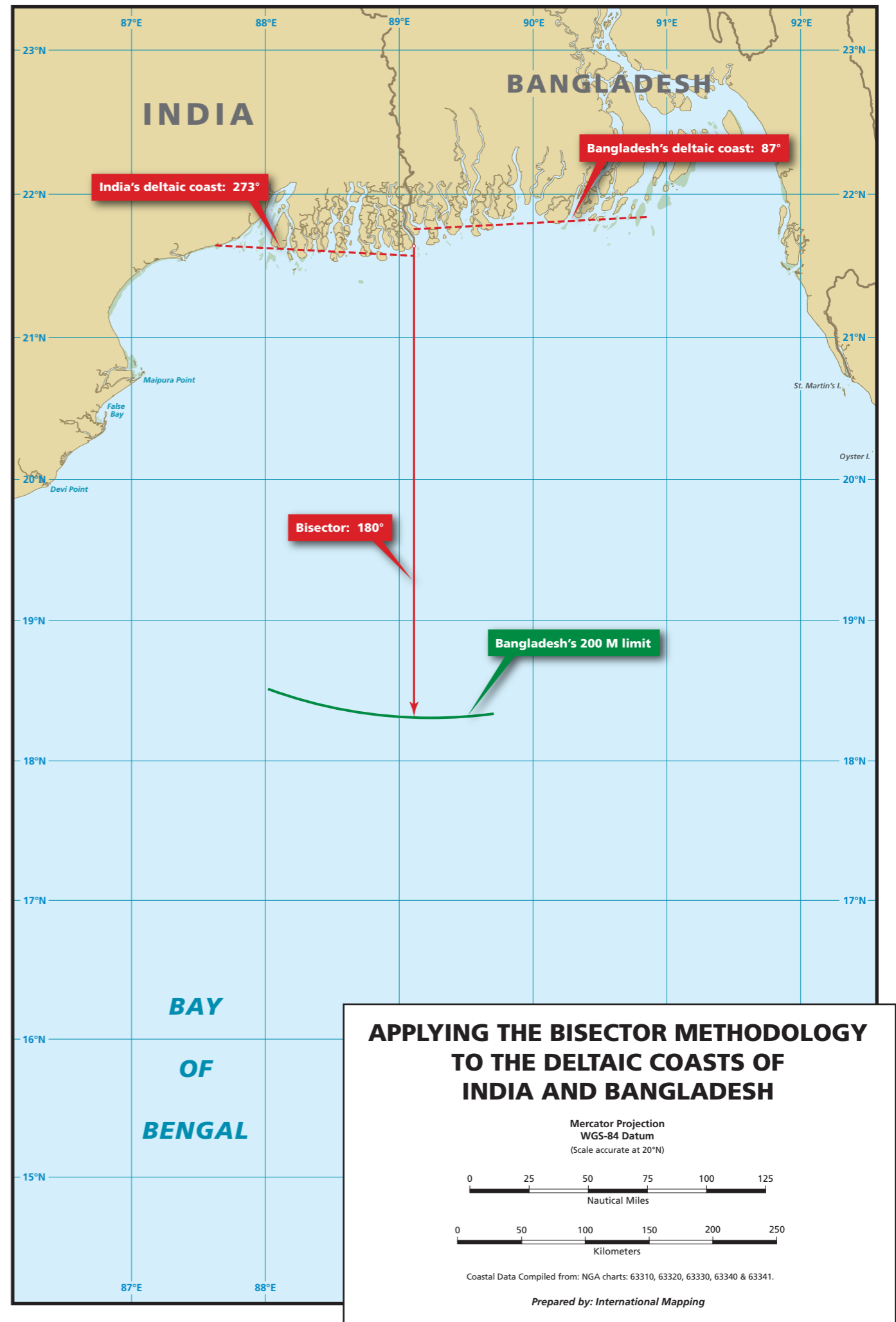


Figure 6.17

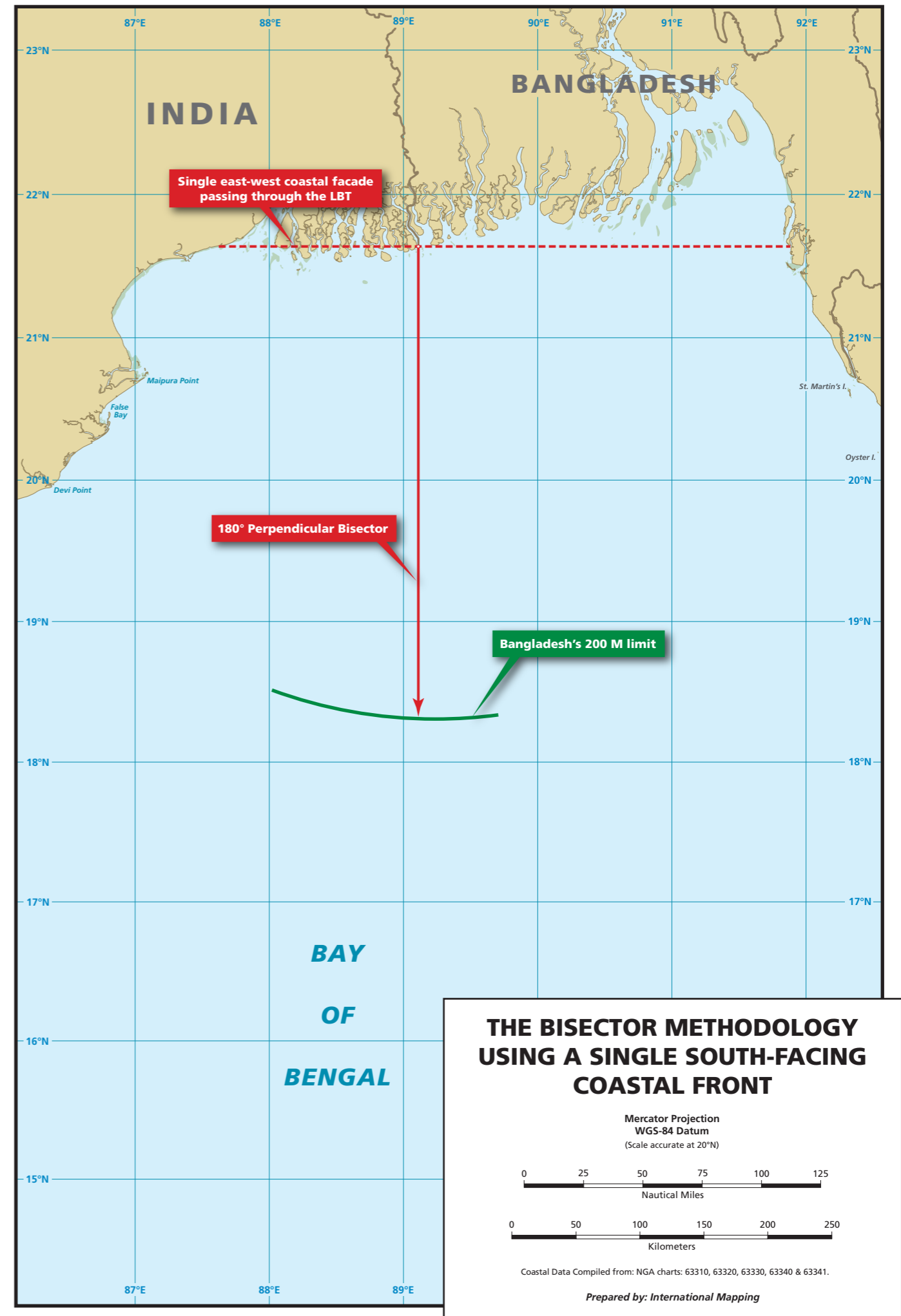


Figure 6.18

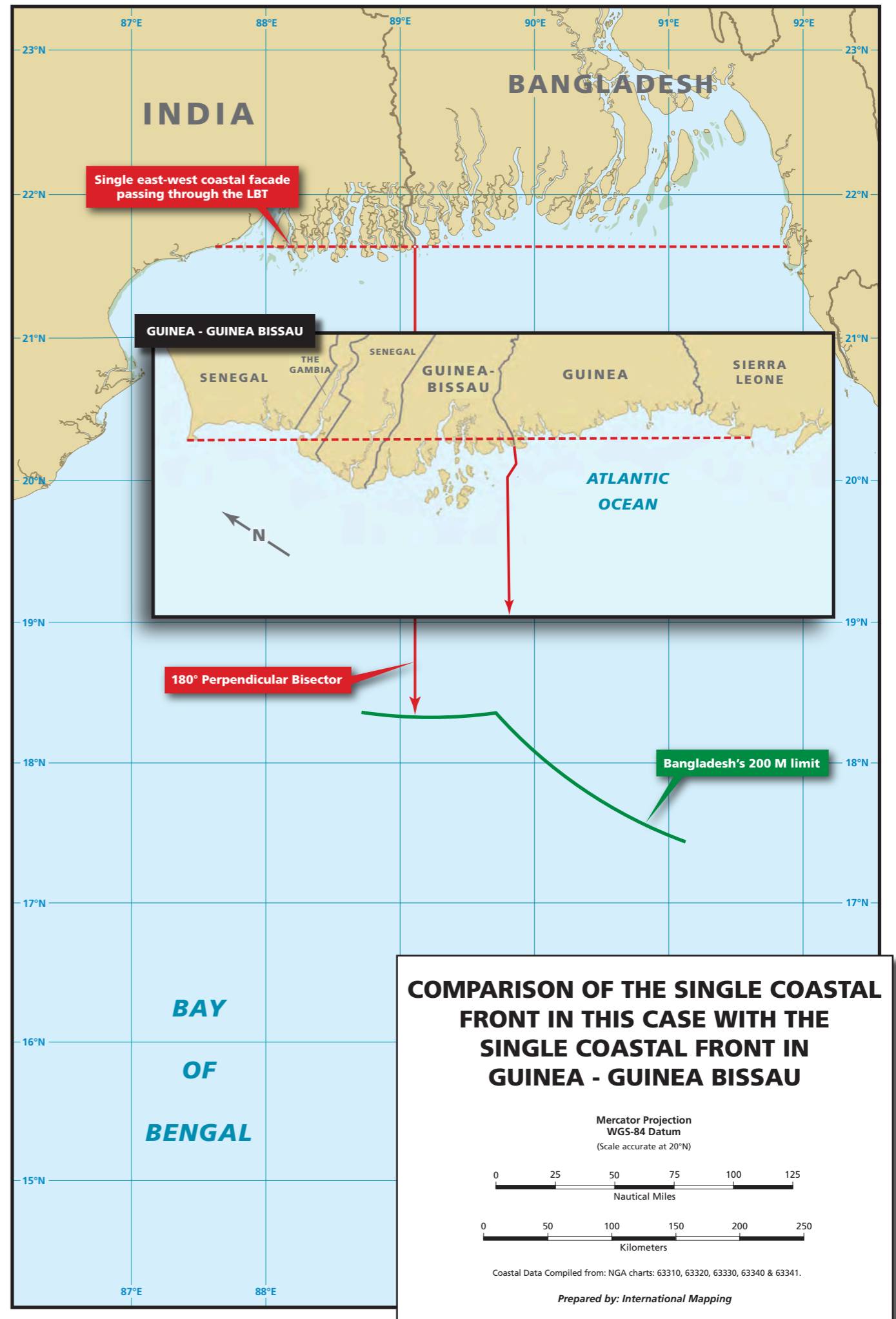
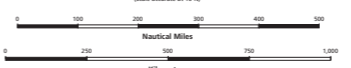


Figure 6.19

### BANGLADESH'S MARITIME AREA WITHIN 200 M WITH EQUIDISTANCE

Mercator Projection  
WGS-84 Datum  
(Scale accurate at 1:100,000)



0 100 200 300 400 500  
Nautical Miles

0 200 400 600 800 1,000  
Kilometers

Coastal Data obtained from: (SIO/NOI) Global Self-Consistent, Hierarchical, High-Resolution Shoreline Database (GSHHS) and the University of Hawaii, and supplemented with coastal information from NOAA charts 83210, 83220, 83230, 83240, 83250, 83260, 83270, 83280, 83290, 83300, 83310, 83320, 83330, 83340, 83350, 83360, 83370, 83380, 83390, 83400, 83410, 83420, 83430, 83440, 71040 & 71315.

Prepared by: International Mapping

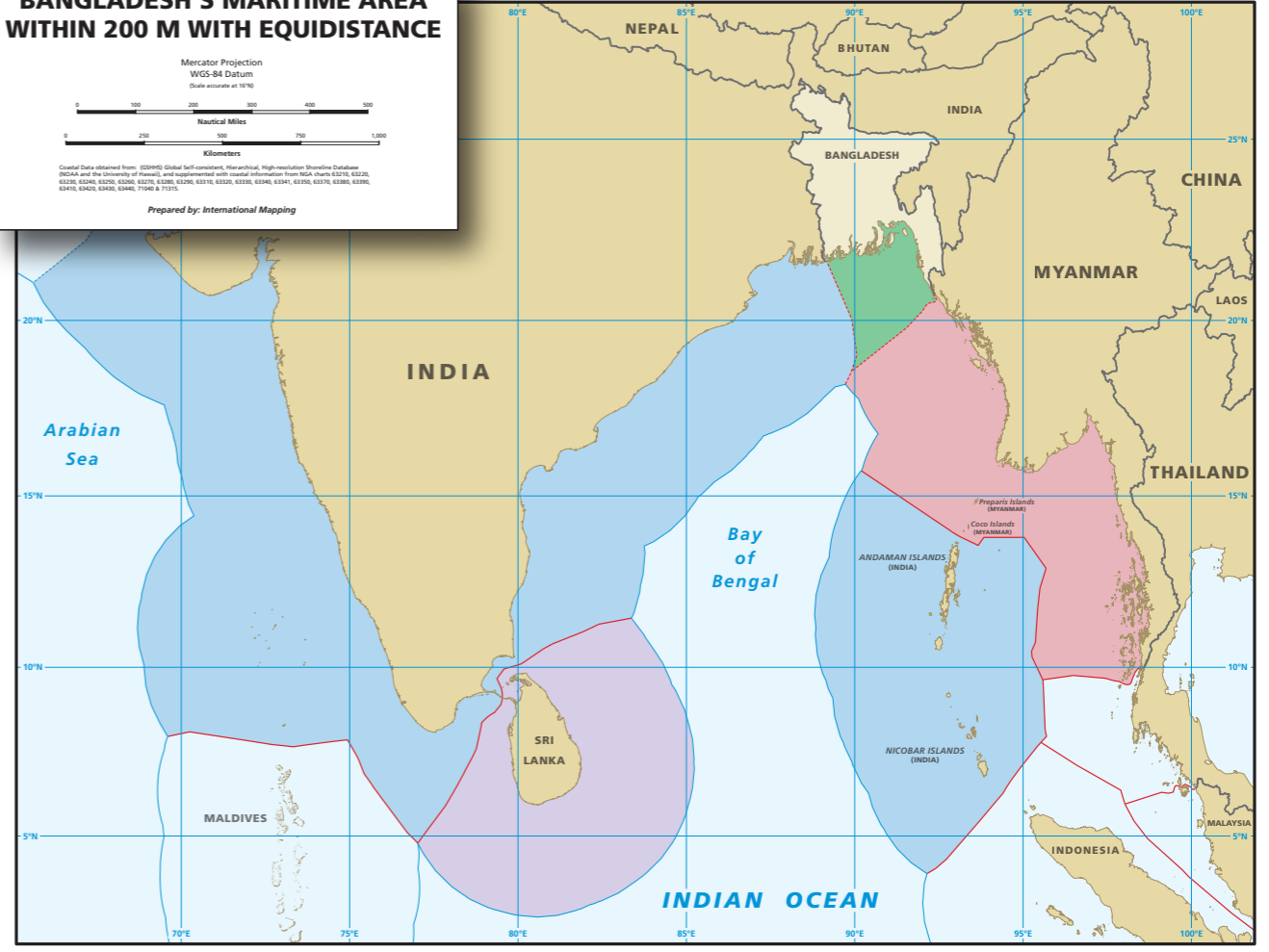
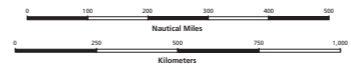


Figure 6.20A

### BANGLADESH'S MARITIME AREA WITHIN 200 M WITH 180° BISECTOR

Mercator Projection  
WGS-84 Datum  
(Scale accurate at 1:100,000)



0 100 200 300 400 500  
Nautical Miles

0 200 400 600 800 1,000  
Kilometers

Coastal Data obtained from: (SIO/NOI) Global Self-Consistent, Hierarchical, High-Resolution Shoreline Database (GSHHS) and the University of Hawaii, and supplemented with coastal information from NOAA charts 83210, 83220, 83230, 83240, 83250, 83260, 83270, 83280, 83290, 83300, 83310, 83320, 83330, 83340, 83350, 83360, 83370, 83380, 83390, 83400, 83410, 83420, 83430, 83440, 71040 & 71315.

Prepared by: International Mapping

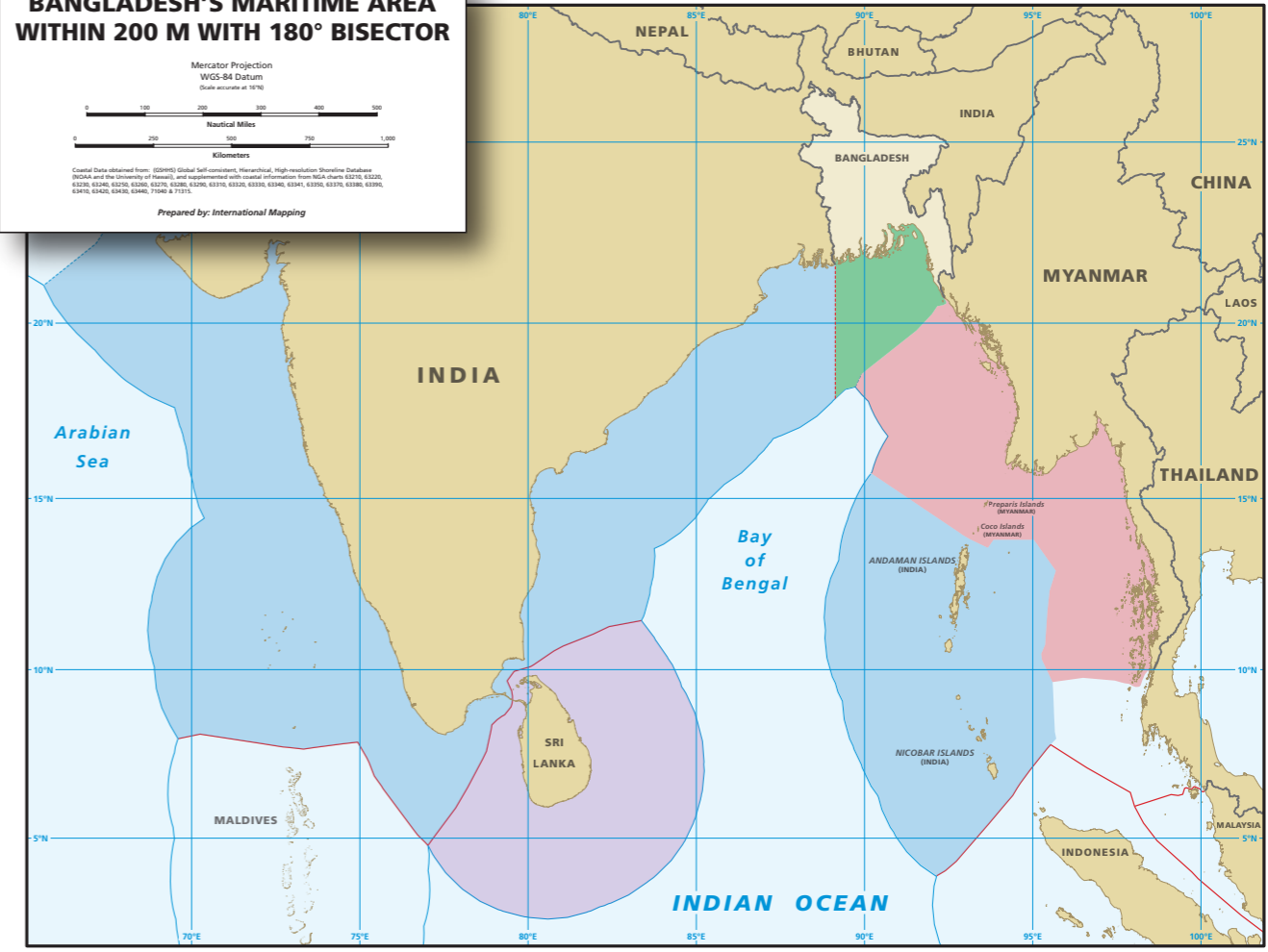
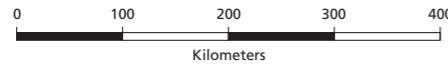
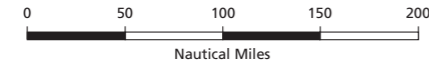


Figure 6.20B

# BANGLADESH'S CLAIMS OUT TO 200 M IN THE BAY OF BENGAL

Mercator Projection  
WGS-84 Datum  
(Scale accurate at 16°N)



Coastal Data Compiled from: NGA charts 63210, 63220, 63230, 63240, 63250, 63260, 63270, 63280, 63290, 63310, 63320, 63330, 63340, 63341, 63350, 63370, 63380, 63390, 63410, 63420, 63430, 63440, 71040 & 71315.

Prepared by: International Mapping

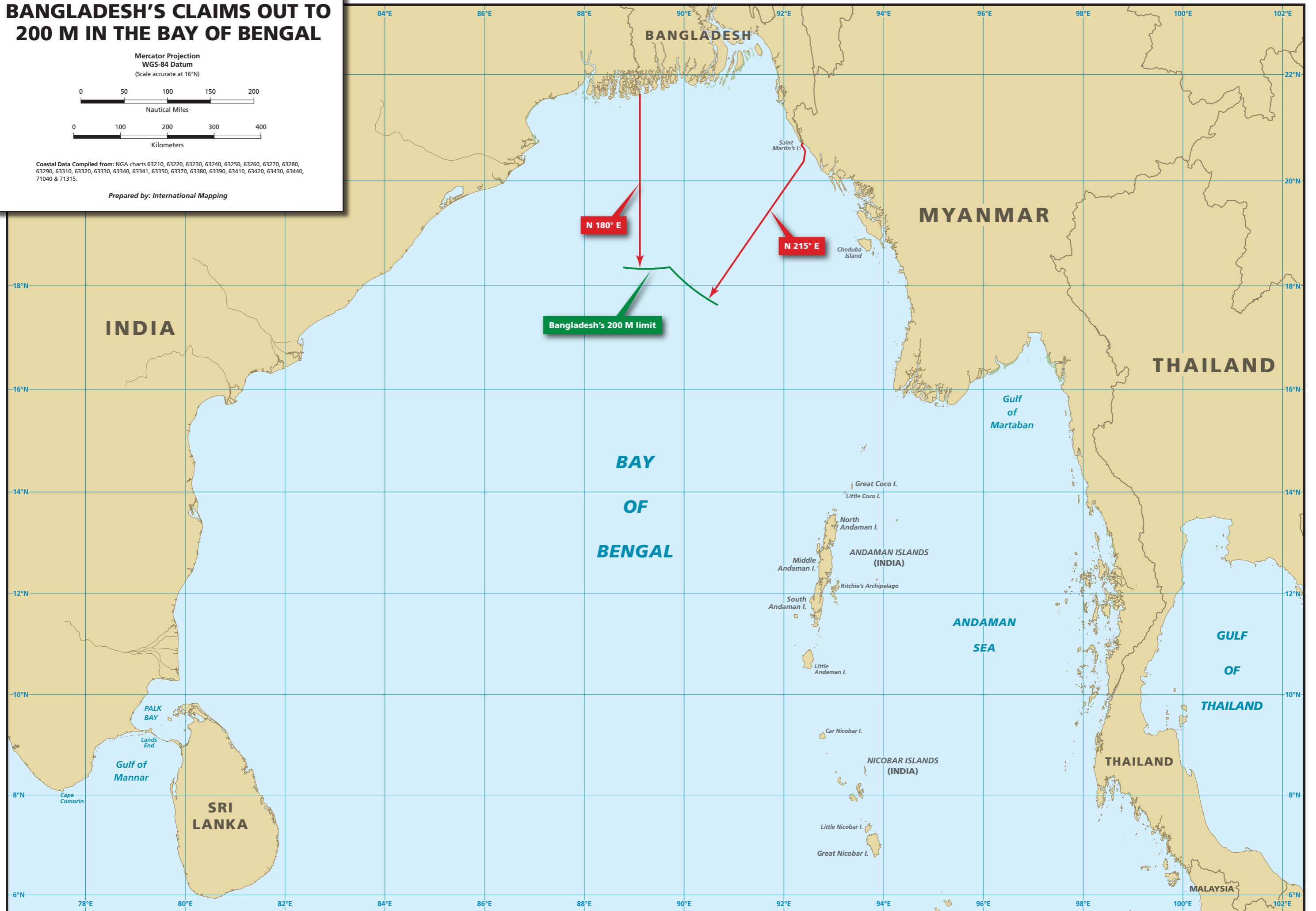


Figure 6.21

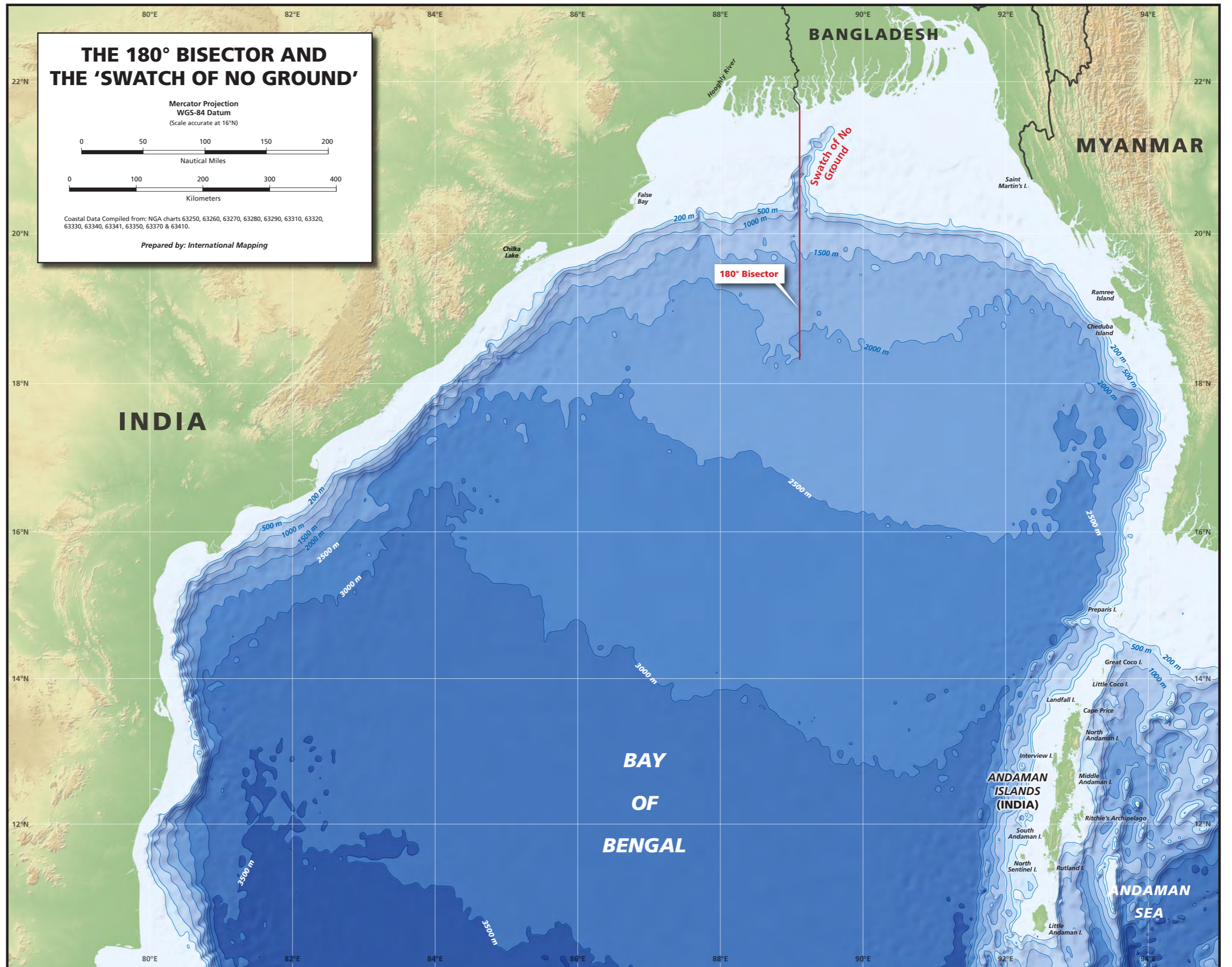


Figure 6.22

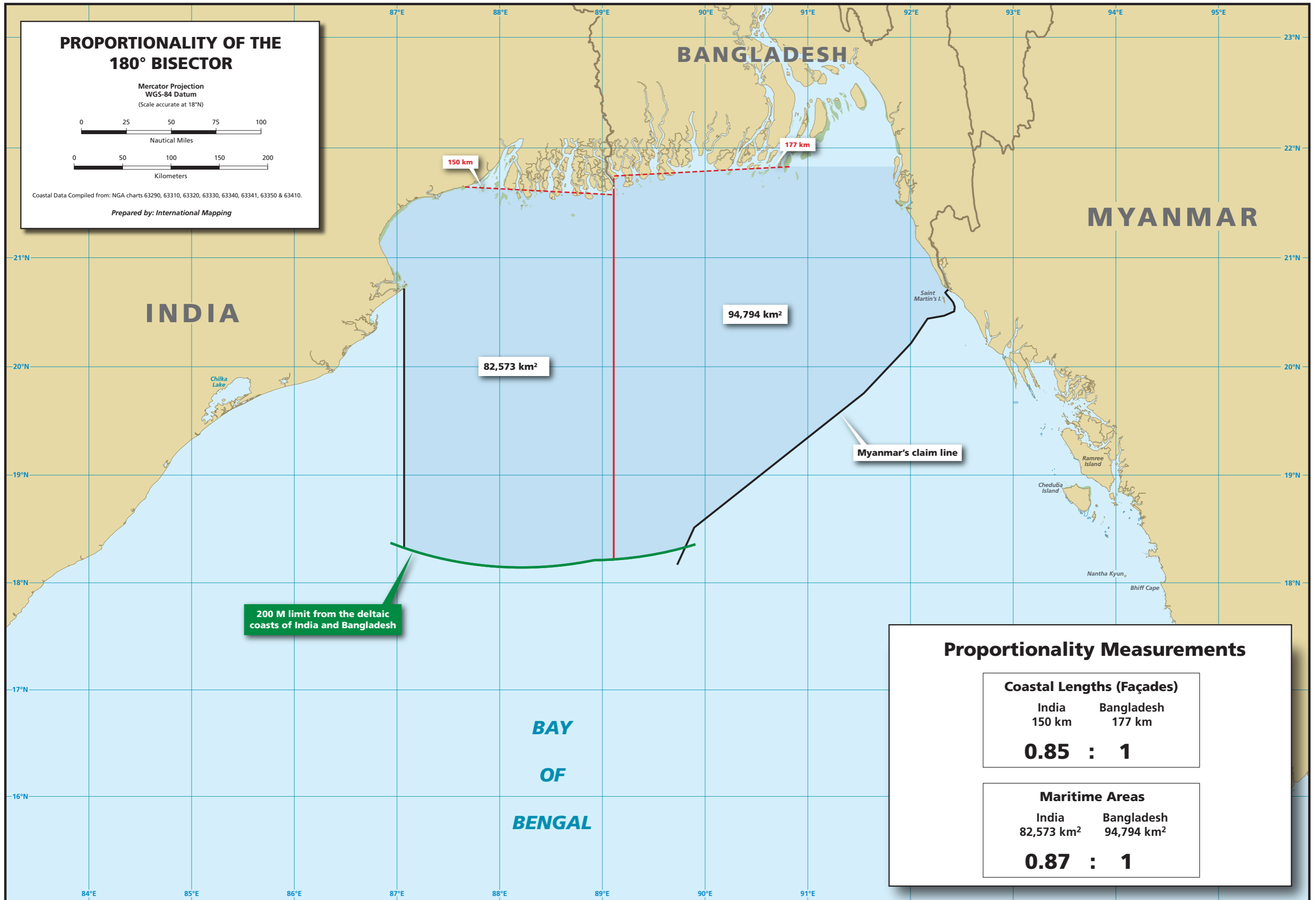


Figure 6.23



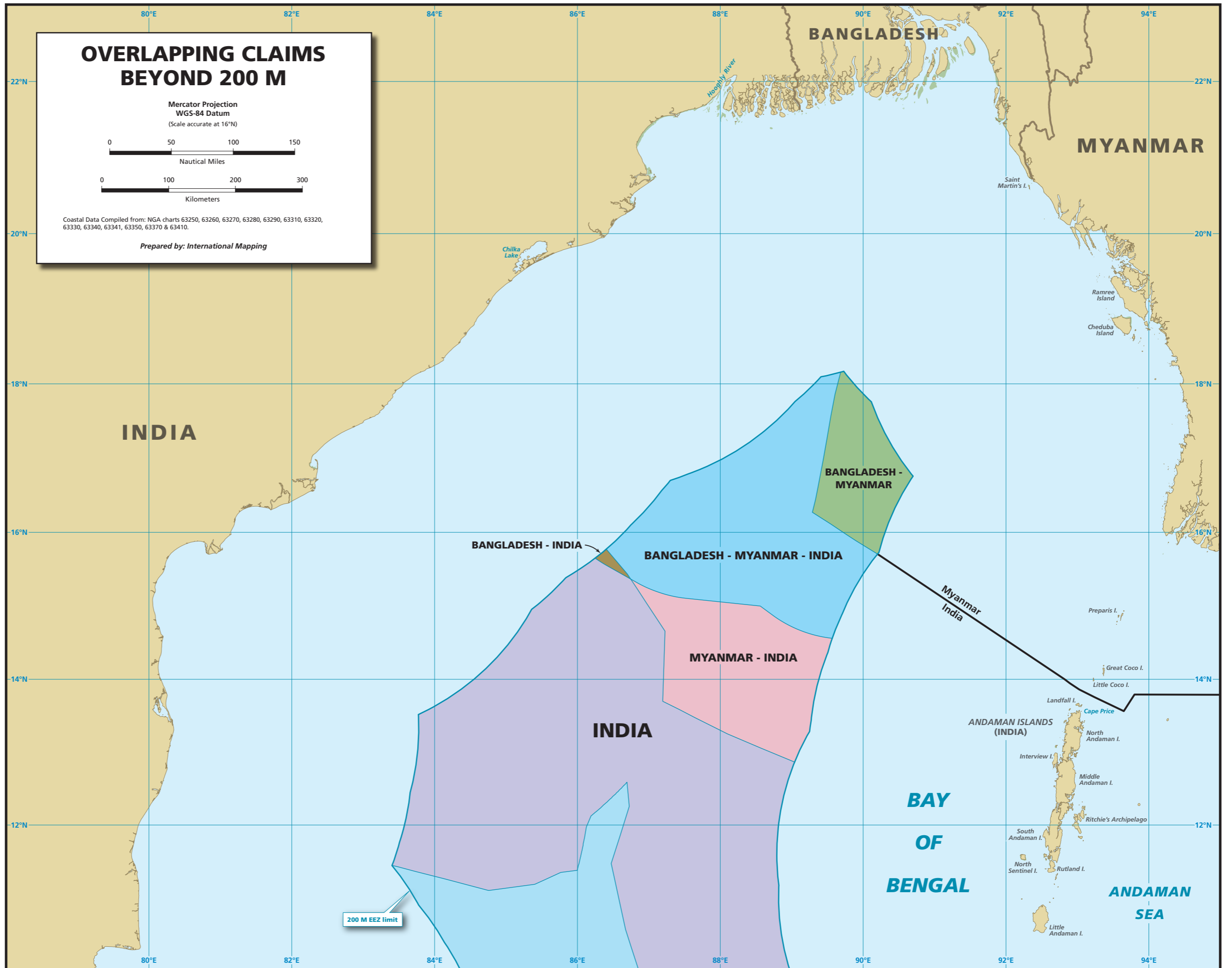


Figure 7.1

## Bangladesh's Continental Margin

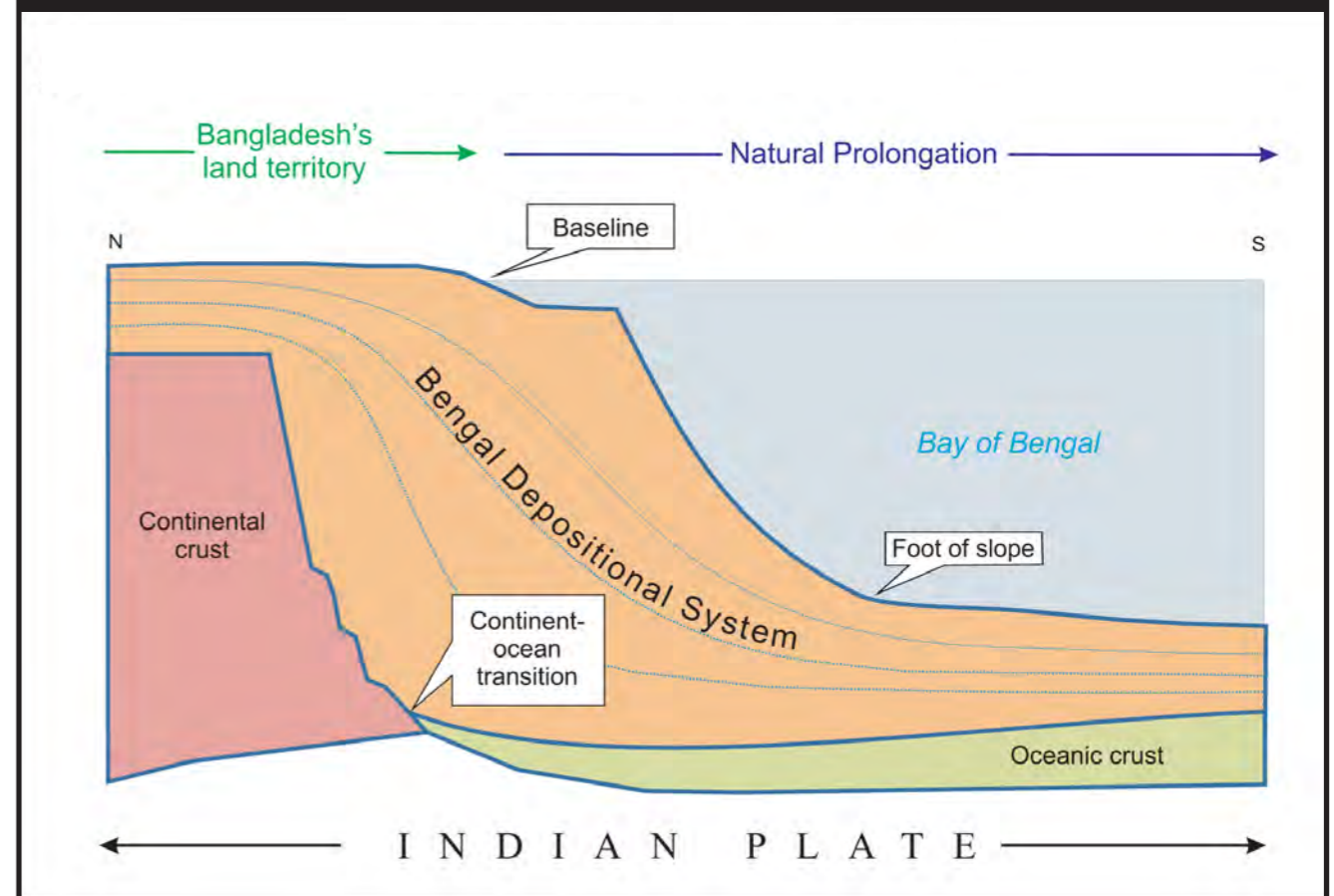


Figure 7.2

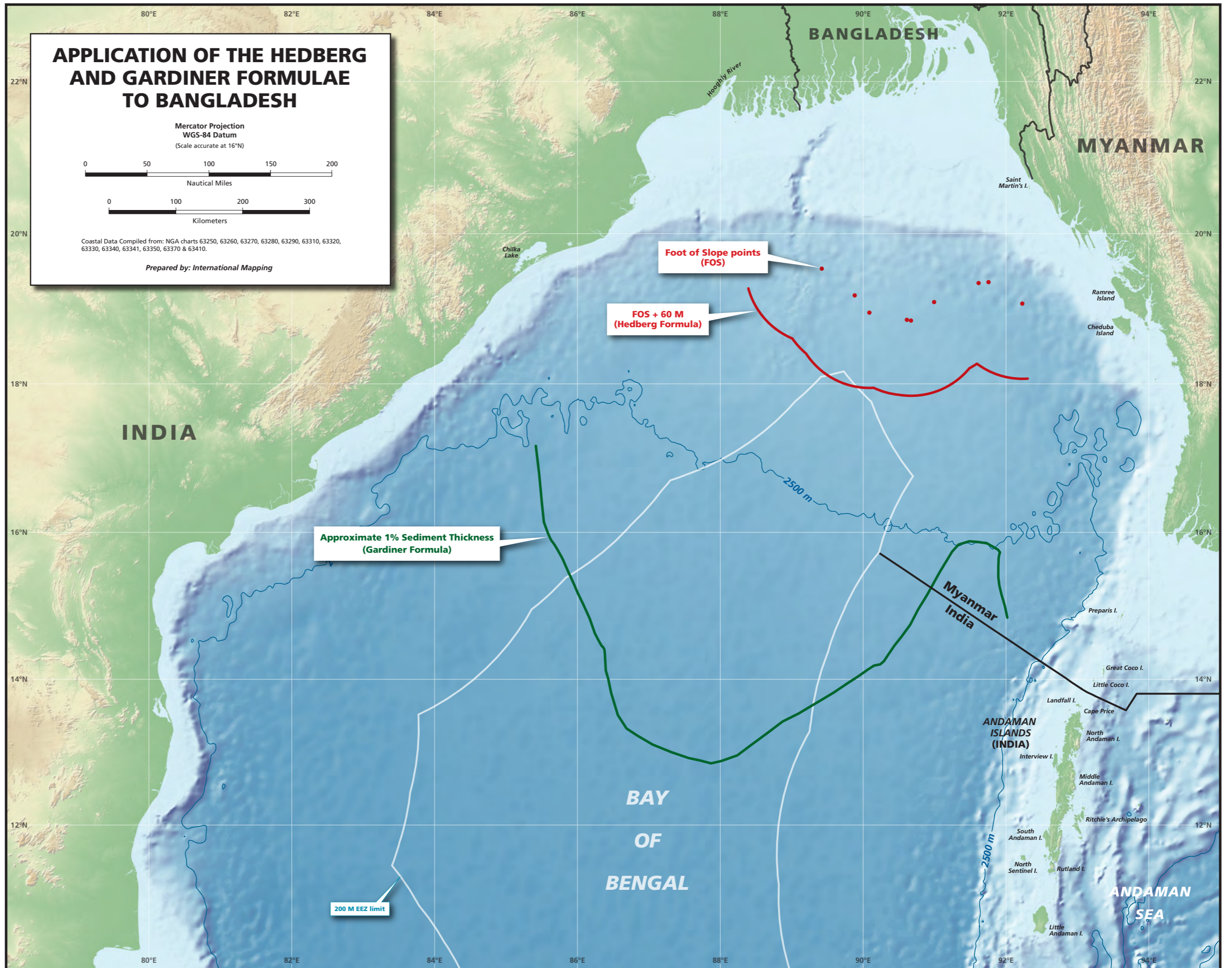
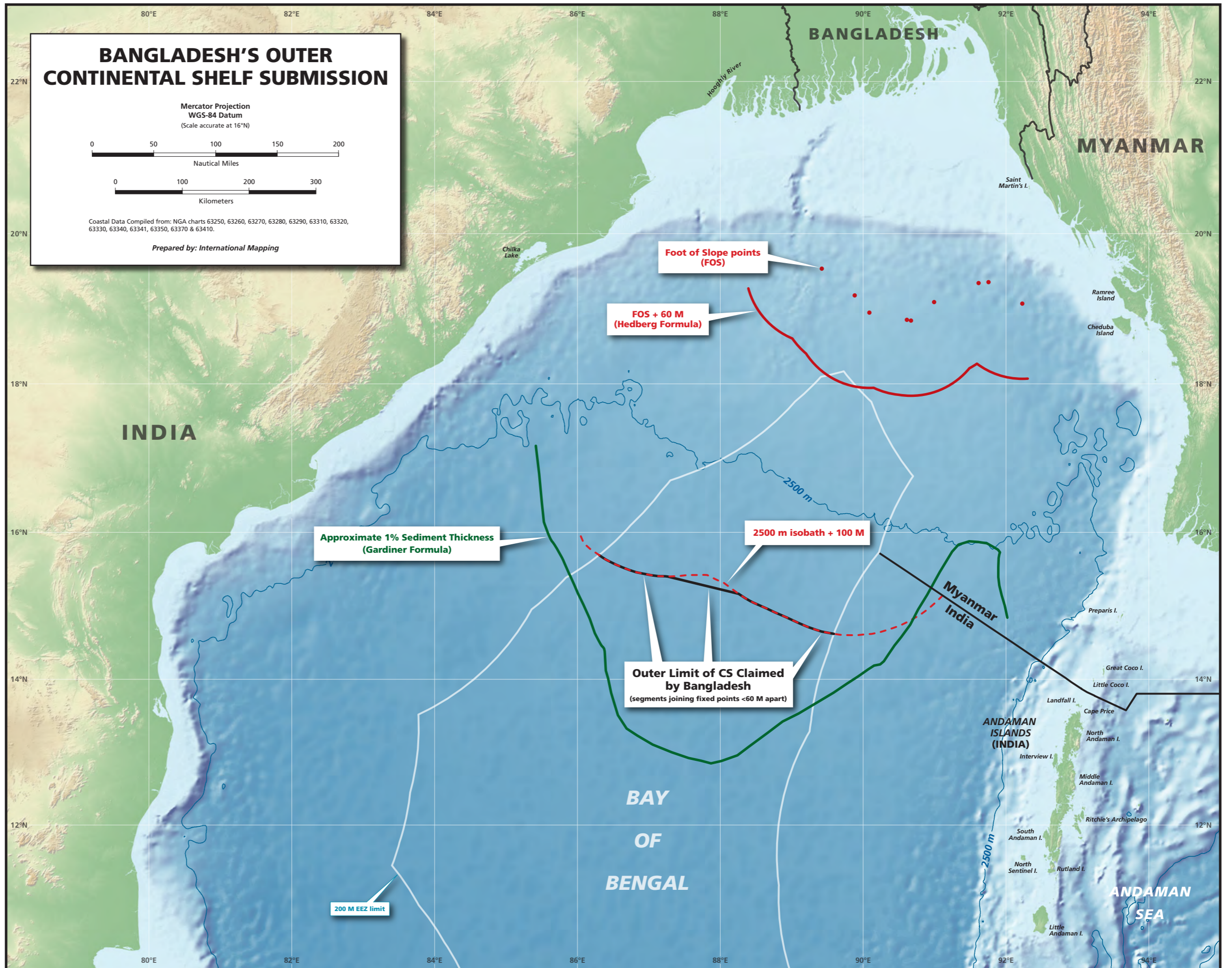


Figure 7.3



**BANGLADESH'S OUTER CONTINENTAL SHELF SUBMISSION**

Mercator Projection  
WGS-84 Datum  
(Scale accurate at 16°N)

0 50 100 150 200  
Nautical Miles

0 100 200 300  
Kilometers

Coastal Data Compiled from: NGA charts 63250, 63260, 63270, 63280, 63290, 63310, 63320, 63330, 63340, 63341, 63350, 63370 & 63410.

Prepared by: International Mapping

Foot of Slope points (FOS)

FOS + 60 M (Hedberg Formula)

Approximate 1% Sediment Thickness (Gardiner Formula)

2500 m isobath + 100 M

Outer Limit of CS Claimed by Bangladesh (segments joining fixed points <60 M apart)

200 M EEZ limit

Figure 7.4

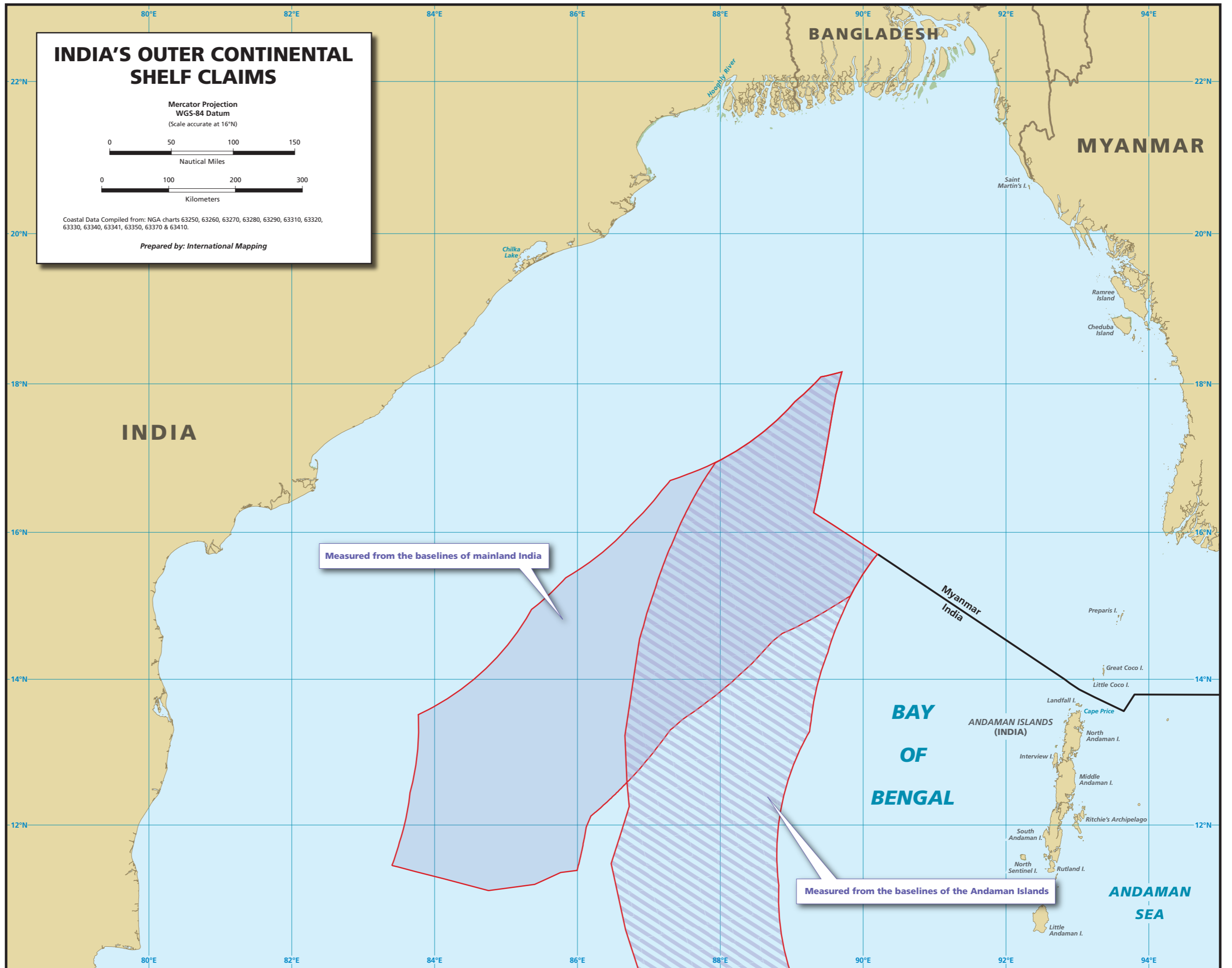


Figure 7.5

### A: India's Continental Margin

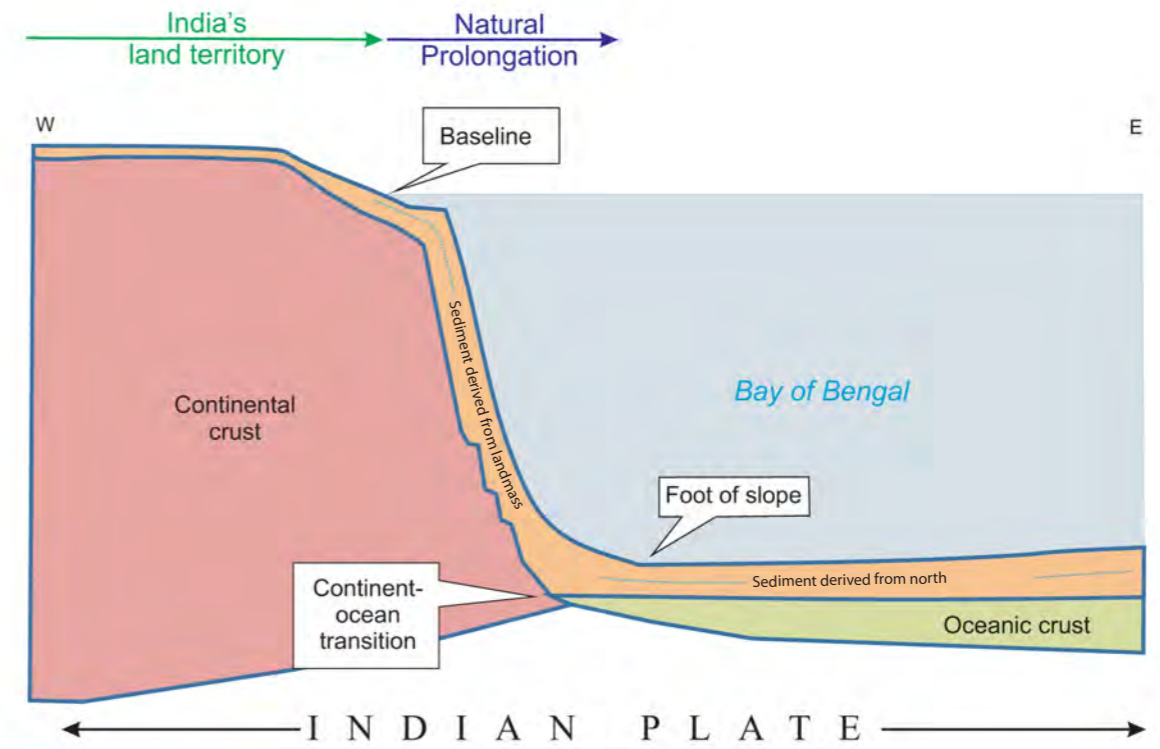


Figure 7.6A

### B: India's Andaman Margin

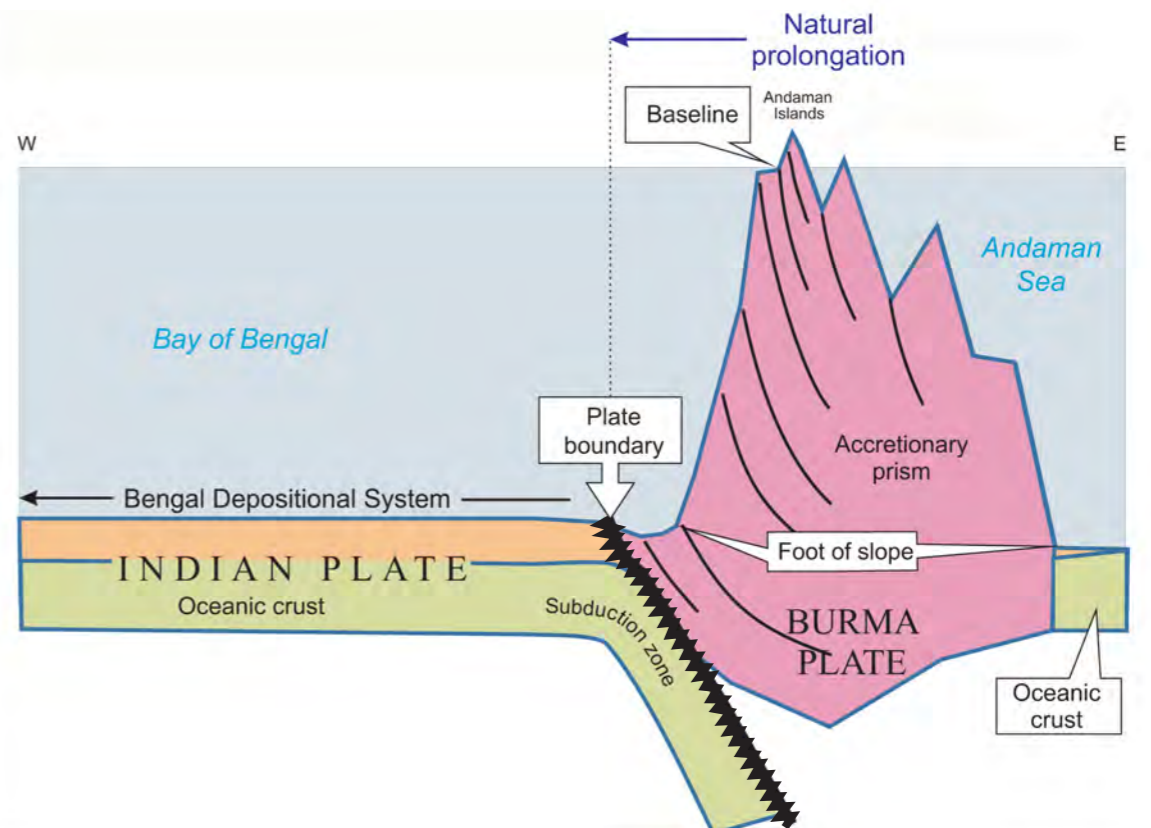


Figure 7.6B

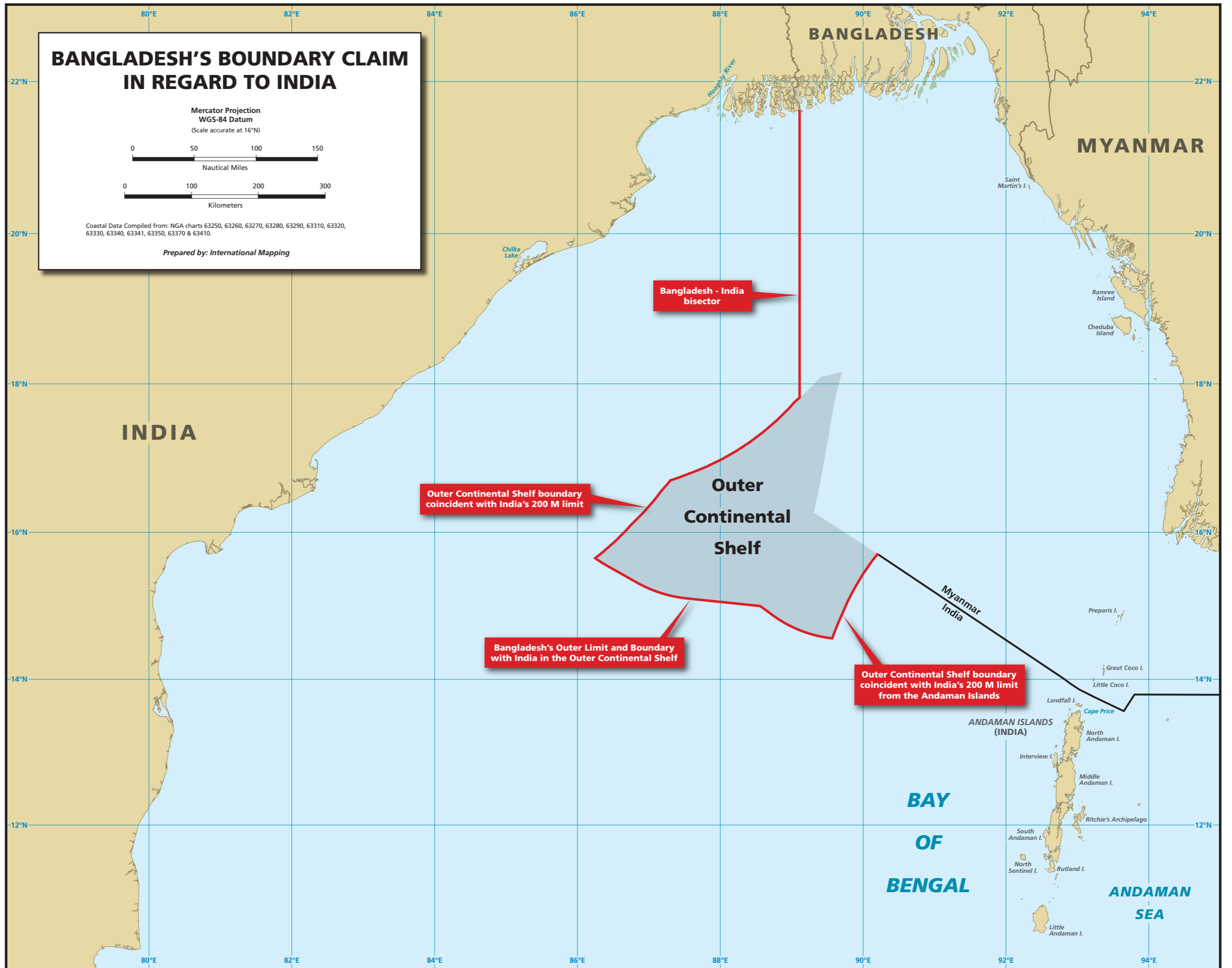


Figure 7.7

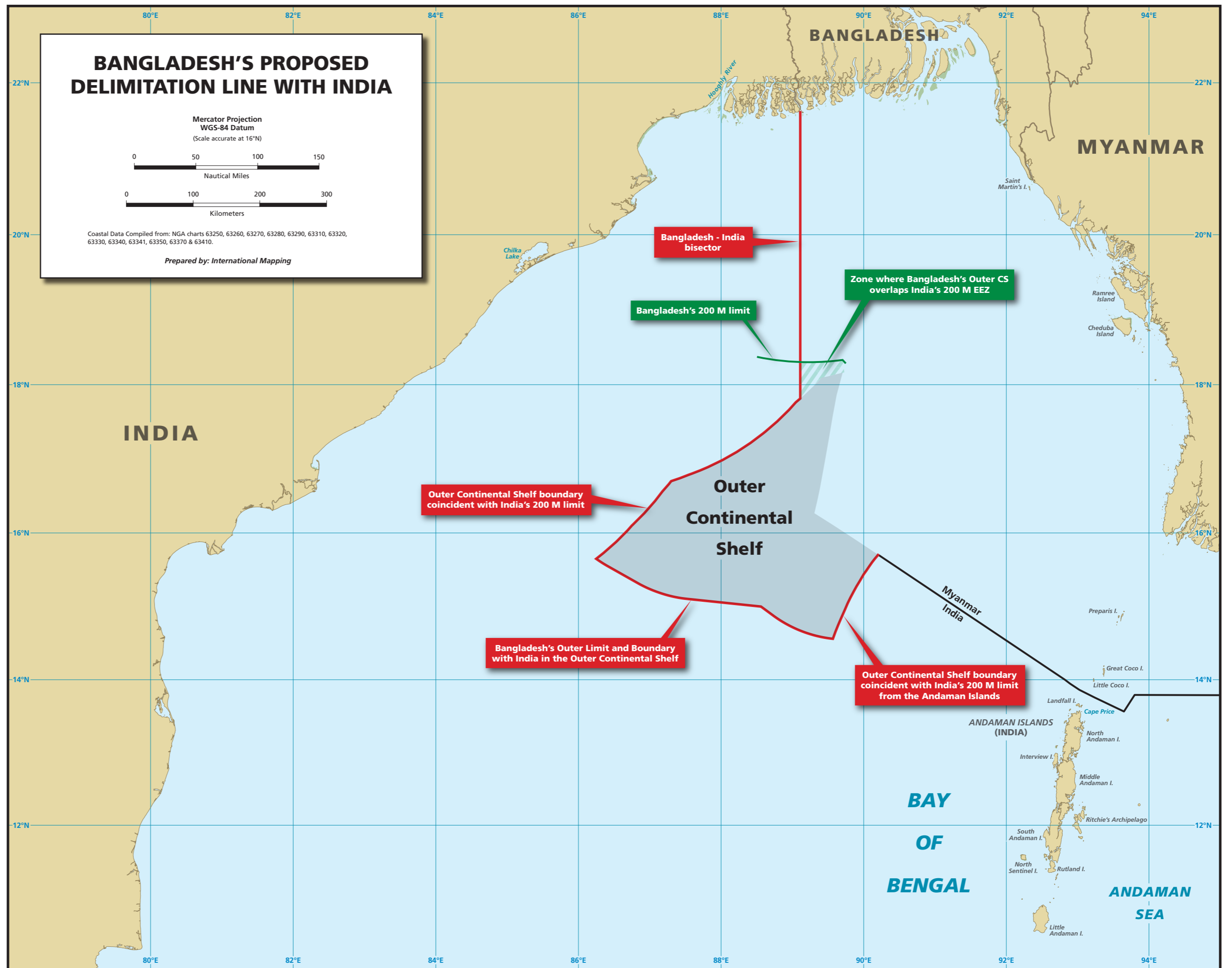


Figure 7.8