

Schulich School of Law Marine and Environmental Law Institute

## Maritime Boundary Delimitation: Overview of Legal Principles

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## OUTLINE

- Selection of Issues Only
- Terminology
- Baseline Issues
- Delimitation Principles and Common Issues



# Terminology

- Delineation of limits eg. territorial sea, EEZ
- Determination of outer limits of continental shelf
- Delimitation process of setting boundary or boundaries where overlap in claims between and among states
- Opposite and Adjacent Coasts
- Entitlement vs Allocation

#### Jurisdictional Zones



#### Jurisdictional Zones



2005 P. DIAMPNO



## **Coastal Baselines**

- Purpose measure other zones from here
  - Inside internal waters
  - NOT necessarily applied in delimitation
- LOS 1982 made real progress
  - Technical rules in Arts. 5-14: bays, rivers, harbour works etc
  - Default position is low water line on coast

- Common Problems
  - Small rocks, islets used as basepoints
    - Tendency to ignore, discount **in delimitation** even if valid basepoint (eg Libya/Malta, Qatar/Bahrain)
  - Straight baselines
    - LOS 1982 sets out some "rules"
    - Bays, harbours etc
    - Valid for Indented coastlines and fringing islands (Anglo/Norwegian Case)
  - Note archipelagic baselines special case

## Archipelagic Baselines Waters Bahamas Land and Bank Areas Used In Calculations





















#### Pakistan Baseline





## Particular Rules

- Bays Article 10
  - "Well-marked" indentations in coast not "mere curvature"
- Gulf of Sidra example
  - Non-Compliant Unless Accepted As "Historic" Bay



In any event: legal bay must have area equal to or greater than semi-circle drawn with mouth of bay as diameter (Art. 10(2))









## Bays cont'd

• Where mouth of bay is less than 24 M (minus any islands in mouth), draw closing line at first points where it meets this limit





## Bays cont'd

- These restrictions do not apply to "so-called 'historic' bays" (Art. 10(6))
  - Rely on long practice, acceptance by international community
  - Eg St. Peter the Great Bay, Hudson Bay
- Also general rules on straight baselines may still permit bay closure

## Maritime Boundary Delimitation: Treaty Law

## 1958 Geneva Convention on Continental Shelf: Article 6

- First: obligation to settle by agreement.
- If not:

"In the absence of agreement, and unless another boundary line is justified by special circumstances, the boundary is the median line, every point of which is equidistant from the nearest points of the baselines..."

• Shelf boundaries only

- So-called "Equidistance-Special Circumstances" Rule
  - Seemed to give primacy to equidistance (i.e. equidistance "unless justified by special circumstances")
  - BUT Subsequent cases tended to discount this as rule of custom or even treaty
  - Beginning with North Sea Cases (1969) and Anglo-French Arbitration (1977)

#### **Territorial Sea**

 1958 Geneva Convention on Territorial Sea and Contiguous Zone

> "Where the coasts of two States are opposite or adjacent to each other, neither of the two States is entitled, failing agreement between them to the contrary, to extend its territorial sea beyond the median line every point of which is equidistant from the nearest points on the baselines from which the breadth of the territorial seas of each of the two States is measured."

• Does not apply where historic title or special circumstances requires otherwise

## LOS 1982

#### EEZ Article 74

1. The delimitation of the exclusive economic zone between States with opposite or adjacent coasts shall be effected by agreement on the basis of international law, as referred to in Article 38 of the Statute of the International Court of Justice, in order to achieve an equitable solution.

Shelf – Article 83 – same wording Territorial Sea – repeats 1958 – median line dominates

- Shelf & EEZ: Not much guidance equity of result is key
- BUT: That is not all. To be effected on "basis of international law" which includes *customary law*



## Jurisprudence

- Widely litigated issue
  - Numerous tribunals: International Court of Justice and *ad hoc* tribunals
  - Note: important to remember that difficult cases tend to be litigated otherwise negotiated: may skew the principles

#### Litigated Boundaries

North Sea Cases	Cont. Shelf	I.C.J.1969
Anglo -French	Cont. Shelf	Arbitration 1977
Tunisia-Libya	Cont. Shelf	I.C.J. 1982
Canada- US (Gulf of Maine)	"Single" Maritime Boundary (SMB) to 200 M	I.C.J. Chamber 1984
Guinea – Guinea Bissau	Cont. Shelf and TS	Arbitration 1985
El Salvador-Honduras (Nicaragua Intervening)	Land Boundary, Islands, "Status of Waters"	I.C.J. 1992
Libya-Malta	Cont. Shelf.	I.C.J. 1986
Canada-France ( <i>St. Pierre and Miguelon</i> )	"Single" Maritime Boundary – to 200 M	Arbitration 1992

Denmark-Norway (Jan Mayen)	SMB	I.C.J. 1993
Qatar-Bahrain	SMB – in sectors Sovereignty	I.C.J. 2001
Cameroon-Nigeria	Land and SMB	I.C.J. 2002
Eritrea-Yemen	Islands and SMB	Arbitration 1998, 1999
Barbados-Trinidad & Tobago	SMB	LOS Annex VII Arbitration 2006
Guyana-Suriname	SMB	LOS Annex VII 2006
Nicaragua – Colombia	Territory & SMB	I.C.J. 2007
Romania v Ukraine	SMB	I.C.J. 2009

Bangladesh v Myanmar	SMB (outer shelf)	ITLOS 2012
Nicaragua v Honduras	SMB (outer shelf?)	I.C.J. 2012
Bay of Bengal (India/Bangladesh)	SMB	Annex VII 2014
Croatia/Slovenia	SMB and land	Arbitration 2017, (Withdrawal & protests of Croatia)
Ghana/Cote D'Ivoire	SMB, Preliminary Measures	Annex VII to ITLOS Chamber , 2017
Costa Rica/Nicaragua	SMB plus land boundary	I.C.J. 2018
Delimitation in Indian Ocean, Kenya/Somalia	SMB	I.C.J. Pending
Nicaragua/Colombia	Cont. Shelf beyond 200	I.C.J. Pending



- North Seas Cases (1969)
- Fundamental approach: delimit in accordance with equitable principles and taking account of relevant circumstances to leave each party as much of natural prolongation as possible (was shelf boundary)
- 1958 Convention not applied





- Anglo-French Arbitration 1978
  - Merger of equidistance-special circs and equitable principles/relevant circs.
  - 1958 applicable
  - Equity of result dominates (formally)



## **Gulf of Maine: 1984**

- First litigated "Single" boundary (seabed, water – but only to 200)
- Stressed process:
  - Define relevant area and coasts
  - Determine equitable principles (eg. no "cutoff, zone blocking, proportionality)
  - Set equitable criteria (eg. equal division of maritime area)
  - Choose practical method
  - Check equity of result



Figure 2. Gulf of Maine Roundary: Chamber of the ICEJ (1984).

#### **Relevance: Geographical Relationship**





Outside Gulf – No real coastal relationship

Summary of Impact Up to 1990s

Definition of equitable principles (determined with "relevant circumstances":

- Highly dependent upon geography (subjective)
  - Proportionality of coasts to maritime area (but sometimes principle, sometimes "check". Not necessarily mathematical exercise)
  - "Cut-Off"
  - Zone blocking eg.
  - Relationship of coasts to each other is central circumstance especially where other boundaries
- Mostly rejected factors such as land-mass, fisheries, population, economic impact etc.

Jan Mayen Case – Proportionality of Coastlines to maritime Area



#### North Sea – Classic Case of Zone Blocking



• List of relevant circumstances, equitable criteria not closed – cases are unique

- Corollary to this approach:
  - No one "practical method" of delimitation given any priority
  - Main contender for this status was equidistance or median line
  - BUT other methods commonly applied:
    - Perpendiculars to direction of coast
    - Azimuth or directional lines


- Problems with "pure" equitable approach
  - Highly subjective in treatment of geography and "relevant" coastlines and maritime areas
  - Can be extremely unpredictable
  - In state practice forms of equidistance much more common than in litigation
    - Litigation has the "hard" cases where diplomacy failed?

Canada – France – 1992: High point of Unpredictability





#### More Recent Cases

Eg. Jan Mayen, Qatar/Bahrain, Cameroon/Nigeria, Barbados/Trinidad and Tobago, Romania v Ukraine etc

- Increasing relevance of equidistance as starting point
  - Always true of "opposite" boundaries
- i.e. presumption for equidistance in absence of special or relevant circumstances that would justify adjustment
- HIGHLY relevant in negotiation preparations

#### Qatar/Bahrain – ICJ (2001)



"The most logical and widely practised approach is first to draw provisionally an equidistance line and then to consider whether that line must be adjusted in the light of the existence of special circumstances."





## Application to EEZ?

*Qatar/Bahrain* was territorial sea for large part – rules there favour equidistance anyway

- *BUT* went on to say it was more broadly applicable approach
- Uses term "relevant circumstances" in relation to EEZ



# Barbados – Trinidad and Tobago 2006

"The determination of the line of delimitation thus normally follows a two-step approach. First, a provisional line of equidistance is posited as a hypothesis and a practical starting point. While a convenient starting point, equidistance alone will in many circumstances not ensure an equitable result in the light of the specific peculiarities of each specific case."

Similar aproach in *Cameroon - Nigeria* 



# Summary

- Equitable principles not put aside
- BUT in most cases starting point will be equidistance or median line
- More predictable, as an initial consideration
- Burden of proof issues Practically, need to find some way to justify moving away from equidistance

#### What is Unchanged

• Primary obligation of states is to <u>delimit by</u> <u>agreement (arts. 74, 83, 15 of UNCLOS)</u> on the basis of international law in order to achieve an <u>equitable solution</u>.

"No maritime delimitation between States with opposite or adjacent coasts may be effected unilaterally by one of those States."

> ICJ, *Gulf of Maine Case* [Canada/United States] (1984) (para.112)

#### **Current Delimitation Process**

It is now accepted that the correct approach to maritime delimitation involves a **3 stage process** (see, eg.: *Cameroon v Nigeria* [ICJ 2002]; *Barbados v Trinidad & Tobago 2006*; *Romania v Ukraine (Black Sea Case)* [ICJ 2009]; *Bangladesh v Myanmar*, [ITLOS 2012], *Nicaragua v Colombia* [ICJ 2012])

- 1. Drawing of provisional equidistance line
- 2. Identification of relevant (special) circumstances which may require shifting or adjustment of provisional line to produce equitable result
- 3. Assessment of line to ensure no inequitable result by disproportion between ratio of coastal lengths and relevant maritime areas.

This process provides guidance for delimitation negotiations

#### The Use of Proportionality

Disproportion in ratio of coastal lengths and maritime area is *not* a method of delimitation

"If such use of proportionality were right, it is difficult to see what room would be left for any other consideration ... the use of proportionality as a method in its own right is wanting of support in the practice of States, in the public expression of their views or in the jurisprudence." Libya v. Malta [ICJ 1993], (para. 45)

Proportionality serves to "check the line of delimitation that might have been arrived at in consideration of other factors, so as to ensure that the end result is equitable..." [Barbados/Trinidad Award, para. 240]

#### Proportionality at Stage 1 of Process

• Proportionality has no role to play in the drawing of the provisional equidistance line

"The Court observes that the respective length of coasts can play no role in identifying the equidistance line which has been provisionally established. ... There is no principle of proportionality as such which bears on the initial establishment of the provisional equidistance line." (Black Sea Case, para 163)

• Only if "compelling reasons" make the provisional equidistance line "unfeasible" or inappropriate should another method be applied (*Nicaragua v Colombia*)

#### Proportionality at Stage 2 of the Process

- Proportionality may be a "relevant circumstance" at stage 2 of the process, but *only* where there is very "substantial" difference in the respective coastlines (*Cameroon v Nigeria*,, para. 301, *Nicaragua v Colombia*)
- In the *Black Sea* case (para. 164), the ICJ held:

"Where disparities in the lengths of coasts are particularly marked, the Court may choose to treat that fact of geography as a relevant circumstance that would require some adjustments to the provisional equidistance line to be made."

#### **Relevant Circumstances: Disproportion**

• Proportionality can only be considered as a "relevant circumstance" where the disproportion is extreme:

"Where disparities in the lengths of coasts are particularly marked, the Court may choose to treat that fact of geography as a relevant circumstance that would require some adjustments to the provisional equidistance line to be made." Black Sea Case, para 164

- Applied only in cases of very significant coastal disparities :
  - *Libya/Malta:* 1 : 8
  - *Jan Mayen*: 1:9
  - Barbados/Trinidad: 1:8.2

A. Relevant Coast of Libya – Per ICJ



B. Relevant Coast in Regional Context



Libya/Malta 356 km



*Jan Mayen*: 504 km

#### Proportionality at Stage 3 of the Process

- Proportionality is properly applied as a test of the equity of the result at stage 3 of the process
- As held by ITLOS in *Bangladesh v Myanmar* (para. 240) the test seeks "significant disproportion" before adjustment is required:

"At the third and final stage in this process the Tribunal will check whether the line, as adjusted, results in any significant disproportion between the ratio of the respective coastal lengths and the ratio of the relevant maritime areas allocated to each Party"

# Application of Approach in *Bangladesh v Myanmar* ITLOS 2012

- Single Maritime Boundary
- Including outer shelf
- First ITLOS boundary decision
- Impact on India



# **Territorial Sea**

- Prior agreement and estoppel rejected
- UNCLOS Art 15 applied
- St. Martin's **not** special circumstance (as claimed by Myanmar)
- Equidistance line out to end of 12 nm overlap



#### Exclusive Economic Zone/Shelf to 200

- Applicable law: Arts. 74 & 83
  - "achieve an equitable solution"
  - But take into account customary law developments (i.e. equidistance/relevant circs)

 Definition of relevant coasts: essentially full coastal front of Bangladesh, Myanmar south to Cape Negrais

#### Myanmar: 587 km Bangaldaesh: 413 km



# Approach to delimitation

- Adopted equidistance/relevant circs
- Following *Romania v Ukraine*, *Barbados v Trinidad & Tobago* etc
- Provisional equidist. line, adjust for relevant circs.

## Anomalies

- Delimitation "method" vs 'methodology" or process?
- Removal of St Martin's basepoints *before* drawing provisional line?

# **Provisional Equidistance Line**



## Relevant Circs. And Adjustment

- Bangladesh: Bengal depositional system; St. Martin's, concavity and cutoff
- Tribunal: concavity, "pronounced "cut-off: effect
- Deflection of line to 215° from point x (where effect is marked)



## Shelf Beyond 200 nm

#### Summary:

- Tribunal had jurisdiction to delimit and, if needed, rule on entitlement (was an issue)
- Both parties had entitlements throughout area
- Applied same approach as in EEZ: and found concavity & cut-off still had impact
- Continued 215 ° line until areas where third party rights affected
- Contra ICJ approach??



# Test of Disproportionality

#### Coasts 1 : 1.42 favour of Myanmar

Area: 1 : 1.54 for Myanmar



## Entitlement Issues: Grey Area

- Grey Area created outside Bangladesh 200
- Neither zone "trumps" the other
- Consequence of delimitation
- Does not remove Myanmar's entitlement to water column
- For parties to deal with difficulties cooperative measures
- Does **not** delimit both: EEZ would be unilateral (due regard)



# Common MethodsRigorous Equidistance (opposite)



#### Adjacent





## Perpendiculars and Bisectors

- Simply bisect angle formed by general direction of coastline(s)
  - Where unidirectional perpendicular
  - If two directions bisector
- Advantages:
  - Reflects basis of equidistance
  - Filters out distortions in equidistance caused by particular features (eg. peninsulas, concaviy)
  - Effect of such features is eliminated









# Sample of Issues Arising: Methods

#### • Simplified Equidistance: US-Mexico



#### Modified Equidistance – Saudi Arabia -Iran





# **Common Special Circumstances**

- Islands on "wrong" side of median line
- Distorting effect on boundary out of proportion with size, significance
- Same for peninsulas



---- generated by island at a2



#### **Possible Solutions**



- . \_\_. \_\_ French claim in the Atlantic Region.
- ---- UK claim in the Atlantic Region.
- Boundary segments drawn by the Court of Arbitration, 1977.
  - 12-nautical mile territorial sea enclaves for the Channel Islands established by the Court of Arbitration, 1977.







# Other Options – Disregard as Basepoints

- Green Island in St. Pierre negotiated boundary
- Boundary runs along lowwater mark of island
- See also Filfla Island Libya-Malta – no effect


# • Concavity of coastline



### Geographic Disadvantage: Effect of Congested Areas and Semi-Enclosed Seas





## Islands - Entitlement

- As discussed earlier islands are common example of "special" or "relevant" circumstances justifying departure from strict equidistance
- Key issue: does location of Island result in inequity: is the *impact* that matters

BUT – there are further issues re – entitlement of "islands" to zones

### Article 121: Regime of Islands

- 1. An island is a naturally formed area of land, surrounded by water, which is above water at high tide.
- 2. Except as provided for in paragraph 3, the territorial sea, the contiguous zone, the exclusive economic zone and the continental shelf of an island are determined in accordance with the provisions of this Convention applicable to other land territory.
- 3. Rocks which cannot sustain human habitation or economic life of their own shall have no exclusive economic zone or continental shelf.

• First – is the relevant feature an "island" under para. 1 of Art. 121

"An island is a naturally formed area of land, surrounded by water, which is above water at high tide."

- Is it really a low-tide elevation not above water?
- Is it "naturally formed"
  - If so end of question, unless used as basepoint in territorial sea

If it is an "island" – is it also within the category of a "rock" (121(3)):

"Rocks which cannot sustain human habitation or economic life of their own shall have no exclusive economic zone or continental shelf."

- If it is a "rock" only a territorial sea.
- But how to define this? Habitation? Govt only? What resources?



## **Effect on Delimitation**

- Assume for argument that islands "entitled" to generate all zones this is *entitlement*
- Does not mean that they will be given full, or any, effect in a *delimitation*
- Recall that some clear "islands" eg. Filfla, Sable, have been given no effect or partial effect in delimitations – even though they are entitled to generate zones







### Aves Island / Bird Rock - Venezuela









# **Residual Sovereignty Disputes**

- How to put aside dispute over status of Island, land mass – and still proceed on boundary?
- Possible solutions: two stage arbitration (Eritrea-Yemen)
- "Set aside" Canada-US, Denmark



#### Machias Seal Island – Canada - US









# Hans Island Sector – Denmark (Greenland) - Canada







"I can assure this House, this government will not surrender any sovereignty of any of Canada's lands in the Arctic or anywhere else in the world." Bill Graham MFA –

May 2018: Bilateral Task Force to resolve (and finalize agreement over a sector to the north)



## Sector Approaches

- Use of multiple methods appropriate where coastal relationship changes over course of boundary
- Common in practice, jurisprudence

### Gulf of Maine



## Libya-Tunisia



# **Remaining Issues?**



- Delimitation of outer continental shelf beyond 200: ICJ vs ITLOS
  - No need to wait for Commission on Limits of Cont. Shelf
- Gray Zone Issue?
- Do different principles apply?
  - Will natural prolongation re-emerge as a significant factor? (Probably no)



Shelf versus EEZ overlap?

1992 Boundary with SPM?

2