THE DELINEATION OF INDONESIA’S OUTER LIMITS OF ITS EXTENDED CONTINENTAL SHELF AND PREPARATION FOR ITS SUBMISSION: STATUS AND PROBLEMS

I Made Andi Arsana

Wednesday, 12 December 2007
The Delineation of Indonesia’s Outer Limits of its Extended Continental Shelf and Preparation For its Submission: Status And Problems

Department of Geodetic and Geomatic Engineering
Gadjah Mada University

Jl. Grafika No. 2, Yogyakarta, 55281, INDONESIA
P: +62 274 902121 F: +62 274 520226
E: geodesi@ugm.ac.id
W: http://www.geodesi.ugm.ac.id
The Delineation of Indonesia’s Outer Limits of its Extended Continental Shelf and Preparation For its Submission: Status And Problems

Current issues

MacNab (2004)
Outline

• Introduction
• Definition of ECS
• The UN Commission
• The Indonesian Case
• Concluding Remarks
• Acknowledgements
The Delineation of Indonesia’s Outer Limits of its Extended Continental Shelf and Preparation For its Submission: Status And Problems

Introduction

Maritime Jurisdictions - LOSC
Introduction

• Article 76 of LOSC: coastal States may extend their Continental Shelf beyond 200 nautical miles → Extended Continental Shelf.

• Delineating the outer limits of the ECS, making submission to the commission on the limit of continental shelf (CLCS) through UN Secretary General.

• Eight submissions have been made by Coastal States (as of December 2007).

• Indonesia has ECS potentials but has not yet made any submission. Delineation is being undertaken.

• Deadline for submission is on 13 May 2009.
The Delineation of Indonesia’s Outer Limits of its Extended Continental Shelf and Preparation For its Submission: Status And Problems

Definition of ECS – Legal

 Animated by I Made Andi Arsana - madeandi@ugm.ac.id
The Delineation of Indonesia’s Outer Limits of its Extended Continental Shelf and Preparation For its Submission: Status And Problems

Foot of Slope (FOS)

\[ t = \text{sediment thickness} \]
\[ D = \text{distance from FOS} \]

\[ \frac{t}{D} \geq 1\% \]
The Delineation of Indonesia’s Outer Limits of its Extended Continental Shelf and Preparation For its Submission: Status And Problems

Distance criteria: technical perspective

- Basepoints
- Distance from basepoints
- Envelop of arc
- Distance criteria (60, 200, 350, 100)
• **CLCS**: Commission on the Limits of Continental Shelf
• Annex II to the UNCLOS
• Guidelines (CLCS/11)
• Membership: 21 experts in geology, geophysics, hydrography, geodesy. Latest election: 14 June 2007
• Rules and Procedures (CLCS/40)
• Roles and Function: technical assistance and recommendation
The Delineation of Indonesia’s Outer Limits of its Extended Continental Shelf and Preparation For its Submission: Status And Problems

The Indonesian Case

- Indonesia ratified LOSC in 1985
- Indonesia has ECS potentials
- Delineation and preparation being undertaken.
- No submission has been made
- Deadline for Submission: 13 May 2009
Indonesian ECS: Potentials

- USGS global study

http://geology.usgs.gov/connections/mms/landscapes/508_descriptions/shelf_map_image_text.htm
The Delineation of Indonesia’s Outer Limits of its Extended Continental Shelf and Preparation For its Submission: Status And Problems

Indonesian ECS: Potentials

- Study of the Indonesian Experts
  - To the west of Sumatra, to the north of Papua, and to the south of Sumba

(Sutisna et al., 2005)
Towards a Submission to the CLCS

- Preparation of Submission
  - Steering Committee
  - Technical core group
  - Legal group

Issues:
1. Mandate
2. Collaboration
Towards a Submission to the CLCS

• Results of Work and Latest Development
  – Field survey (1996-2006)
  – Delineation [west of Sumatera]
  – Document preparation (draft)
  – More surveys [North of Papua]
  – Plan vs. realization

(Photos by Widiastuti, 2006)
Towards a Submission to the CLCS

**Challenges and Solution**
- Technical (human rec & tech)
- Institutional (collaboration)
- Financial (cost vs. benefit)
- Political

(Photos by Widiastuti, 2006)
Towards a Submission to the CLCS
The Delineation of Indonesia’s Outer Limits of its Extended Continental Shelf and Preparation For its Submission: Status And Problems

Potential Boundary Disputes & Resolution
The Delineation of Indonesia’s Outer Limits of its Extended Continental Shelf and Preparation For Its Submission: Status And Problems

Back to the current issues

MacNab (2004)
Concluding Remarks

- ECS entitlement $\rightarrow$ LOSC article 76
- ECS establishment procedures
- Indonesia is delineating its ECS and has yet to make submission to the Commission
- Preparation $\rightarrow$ submission in the near future (December 2007[?])
- Challenges: technical, institutional, financial, political
Acknowledgement

• UN-Nippon of Japan Foundation Fellowship
• University of Wollongong
• Department of Geodetic and Geomatic Eng. UGM
Thank you 😊