

*Land Boundaries: Delimitation and Delineation*



Figure: North Korea – South Korea Land Boundary

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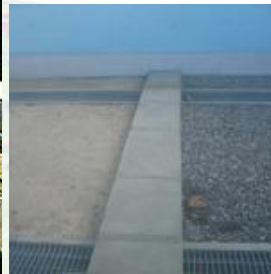


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Lecture 2 – Land Boundaries:  
Delimitation and Delineation

*Alkisah .. tentang batas*



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- Legal reference and historical arguments
- Treaties and agreements
- Boundary management
- Delimitation, delineation and demarcation process
- General structure of boundary agreement
- International boundaries
  - Legal reference
  - Delimitation
  - Demarcation
- Nasional boundary
  - Legal reference
  - Autonomous era
  - Local government and administration (UU No. 32/2004)
  - Technical aspects and specification)



- Legal reference
  - National context (Indonesia)
    - UUD 1945
    - Law No. 32/2004 → local government
    - Peraturan Mendagri No. 1/2006
  - International context
    - Colonialism treaty
- Historical arguments
  - National context
    - Customary occupation
    - Kingdom territory
  - International context
    - Chain of title based on history



### *Boundary management*

- Generating boundaries
- Boundary maintenance
- Boundary information system
  - AMBIS
  - ILMBIS [idea]
- Joint patrol
- Development for border area
- In case of natural disaster (change of natural boundary, etc), what happen to boundaries?



### *Delimitation, delineation & demarcation*

- **Delimitation**
    - Definition of boundaries on paper/map
    - Also (usually) used in maritime boundary
    - I think when one is talking of a science it is not out of place to consider the name of that science. In my opinion, delimitation (which, as we know, is a new word, not to be found in any dictionary, at least not in Webster or Johnson or any classical dictionary) means the laying down – not the laying down on the ground, but the definition on paper, either in words or on a map – of the limits of a country. Delimitation covers...all the preliminary processes and procedure involved before a boundary is laid down on the ground... Having done all that, you then come to work on the ground, and then the process ceases to be delimitation and becomes demarcation.
- (Captain A. H. (later Sir Henry) McMahon at a meeting of the Royal Artillery Institution in 1896).



*Delimitation, delineation & demarcation*

- **Delineation**
  - Similar to delimitation
  - Usually used in land boundary
  - The dictionary definition for "delineate" is "portray by drawing or in words". I tend not to use it but would think its pretty much equivalent to "delimitation" rather than demarcation. (Schofield, 2006)



*Delimitation, delineation & demarcation*

- **Demarcation**
  - Demarcation on the ground – the agreed line is transferred from the map to the ground where it is physically marked with pillars, posts, fences, etc.
  - the word demarcation is rarely applicable to maritime boundaries as they are rarely amenable to being physically marked though there are a couple of examples (e.g. the US-Mexico border fence extends into the sea a little way and the use of buoys to mark part of the Israel-Jordan territorial sea boundary)





### *General structure of boundary agreement*

- **National land boundary**
  - Assignment: obtain general structure of boundary agreement
- **International Land Boundary**
  - Assignment: obtain examples of international land boundary agreement



### *International Land boundaries*

- **Legal reference**
  - No public international law
  - Colonial treaty (e.g. Treaty 1904 between The Netherlands and Portugal)
  - Customary law
- **Delimitation**
  - Interpretation of legal reference
  - Determination of coordinate (cartometric, based on maps)
- **Demarcation**
  - CBRF (common border reference frame)
  - Border points
  - Positioning technology (GPS, TS, technical specification)



### *National Land boundaries*

- **Legal reference**
  - UUD 1945
  - Law No. 32/2004
  - Permendagri No. 1/2006
- **Autonomous era**
  - Centralisation → decentralisation
  - Level of autonomy
  - Positive vs. negative impacts
  - The roles and importance of land boundaries
- **Technical aspects and specification**
  - Refer to Permendagri No. 1/2006



### *Bibliography*

- Undang-undang Nomor 32/2004 tentang Pemerintahan Daerah
- Depdagri RI. (2006) *Peraturan Menteri Dalam Negeri No. 1 tahun 2006 tentang Pedoman Penegasan Batas Wilayah*, Dirjen Pemerintahan Umum, Jakarta
- Teknik Geodesi. (2003) *Laporan penegasan batas darat RI-Timor Leste*, Yogyakarta



*What to do next?*

- Read Permendagri No. 1/2006
- Next week materials (Delimitation and Demarcation of land boundaries)
  - Delimitation and Demarcation of land boundaries
  - Demarcation method and definition of geodetic datum
    - Positioning methods
    - Field survey
    - Standard Operational Procedure (SOP)
    - Technical specification
    - Field demarcation (monuments, pillars)
  - Institutions of boundary demarcation
- Prepare for student presentation
- Assignment: RI-Indonesia land boundary determination

