On Reliability of the Annex Map of the 1915 Land Boundary Treaty between Indonesia and Malaysia

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FIG Working Week 2015
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Land boundary demarcation process between Indonesia and Malaysia has lasted nearly 40 years since the signing of the collective agreement between the governments of Indonesia and Malaysia in 1973.

As the legal basis for the boundary demarcation is the London Convention 1891, signed by the Britain and the Netherlands on 28 September 1891 in London.

Land boundary demarcation between Indonesia and Malaysia has not fully resolved yet, although has been started since 1973.

There are still several outstanding boundary problems that have to be resolved, which one of them is the Sinapad and Simantipal Rivers.
WHAT HAPPENED?

OBP West Sector (West Kalimantan – Serawak)
- Tanjung Datu (Claim the Indonesian), Batu Aum, Nangau Badau, Buan Rivers dan Gunung Raya mountains;

OBP East Sector (East Kalimantan – Sabah)
1. Problem of Sinapad River,
2. Problem of Simantipal River
3. Problem of Sebatik Island,
4. Non-coincidence problem: Regional Priority II (BC) from the point B2700 s / d B3100,
5. Non-coincidence problem: Regional Priority II (CD) from the point C500 s / d C600;

WHAT IS WRONG?

TREATY SIGNED 1915
Agreement
Between
The United Kingdom and the Netherlands
Relating to the Boundary Between the State of North Borneo and the Netherlands Possessions in Borneo
[Map Next]

Treaty Map 1915
RBI 1:50,000
WHERE?

*Indonesian Topographic Map 2013*

METHOD

HOW?

*Figure 1: Flowchart for the methodology of the study. The steps include: start, technical analysis, extraction, computation, tracing, mapping, technical analysis, and finish.*
In the planning phase, the cartographer must have a clear idea of the purpose and topic of the map, where it will be presented, and for whom it is designed. Tyner (2010)
Treaty Map 1915

a. Agreement between United Kingdom and Portugal respecting Boundaries between British and Portuguese possessions on the Ruo and Shire rivers, Lisbon May 6-30, 1911

b. Agreement between United Kingdom and Portugal respecting Boundaries in Southeast Africa, London May 6, 1920
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### TECHNICAL ANALYSIS?

#### WGS 1984 ≠ AIRY 1890 = BESSEL 1841

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CONCLUSIONS

Based on the assumption is made that the 1915 Treaty Appendix Map an Astronomical maps with reference ellipsoid Bessel in 1841 obtained the following conclusions:

1) A registration method maps the 1915 Treaty attachment assumes that the map coordinates applying Astronomy and refers to the Bessel ellipsoid 1841 is not entirely appropriate.

2) The views of the object pattern shown, Map Appendix 1915 is adequate maps.

3) In the Map Appendix Treaty 1915 there are segments not implemented the survey, namely the segment east estuary Sinapad. Therefore accuracy depiction on a map be not accurate enough.
THAT’S ALL
THANK YOU
TERIMA KASIH