

**SMART SURVEYORS FOR LAND AND WATER MANAGEMENT**  
**CHALLENGES IN A NEW REALITY**



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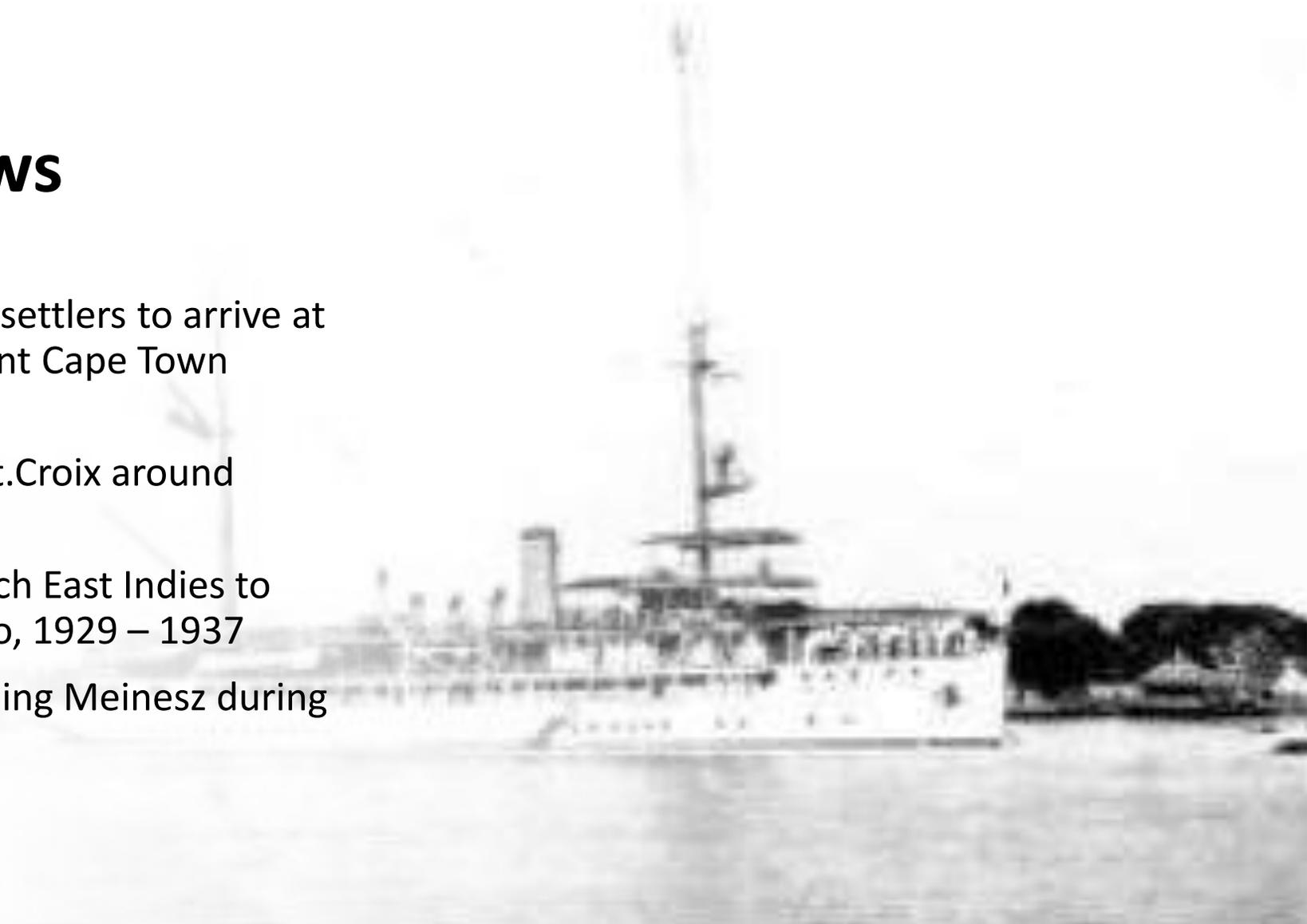
## Professor Vening Meinesz is well known among surveyors for his:

- A. Former Presidency of FIG
- B. Gravity Measurements in the Oceans
- C. Inventor of the Torrens system for land registration
- D. Mapping of Indonesia

## This picture shows

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- A. A Dutch VOC ship with the first settlers to arrive at the newly established settlement Cape Town (1652), South Africa
- B. A slave ship near the coast of St.Croix around 1750.
- C. A survey vessel used in the Dutch East Indies to map the Indonesian archipelago, 1929 – 1937
- D. The boat used by professor Vening Meinesz during his scientific expeditions.



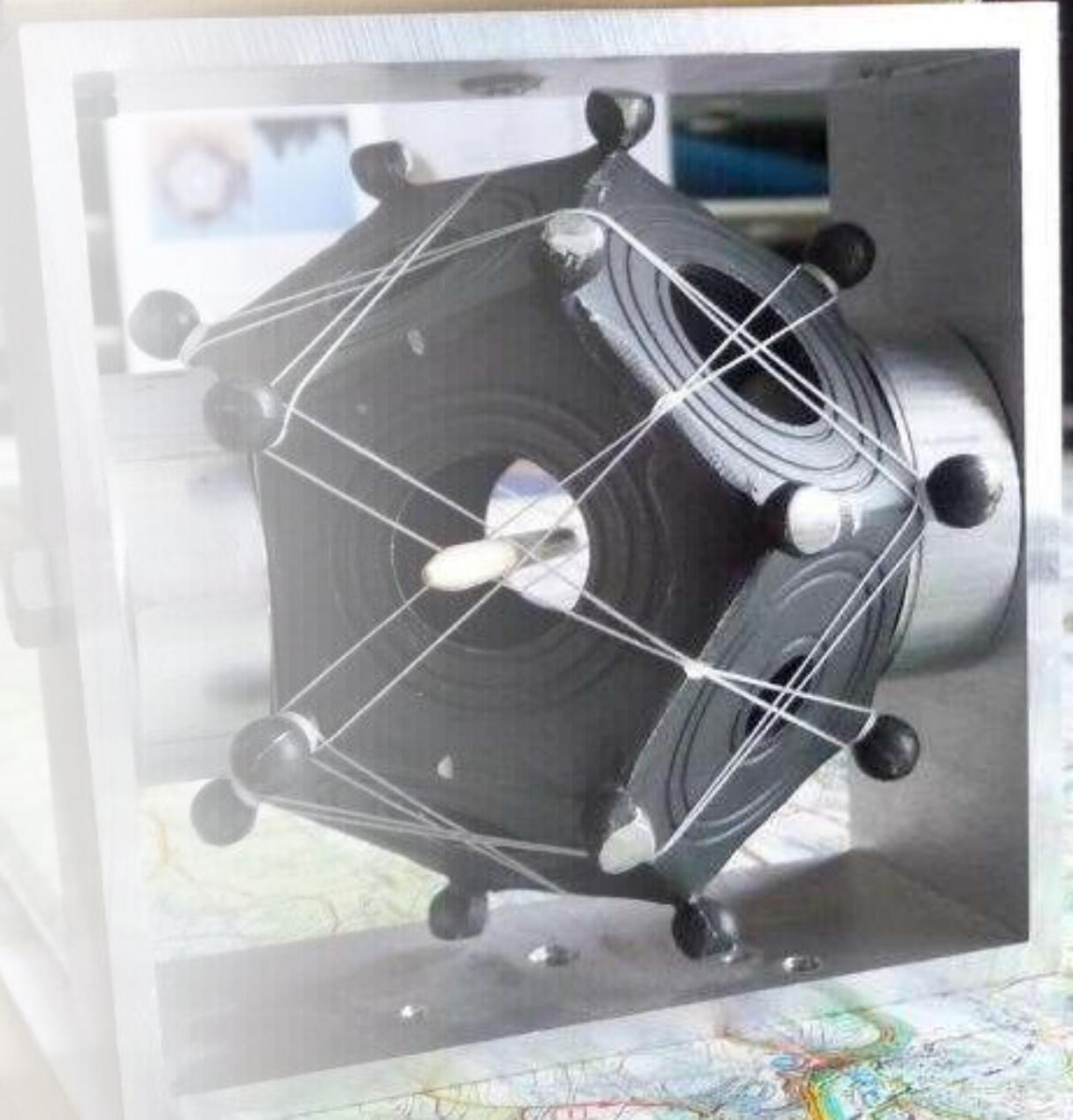


The trigonometric surveys of the City, Port and District of Adelaide (1837 – 1838) provide an exemplar par excellence of the key role of surveyors in:

- A. flood risk management
- B. land consolidation
- C. integrated land and water management
- D. securing land rights

## This wonderful instrument is

- A. A Pentagon-Dodecahedron used for land surveying in the Noerdlinger Ries
- B. A special lamp to be able to read and understand portolan charts
- C. A typical Theodolite 'Troughton & Simms'
- D. Boussole tranche-montagne, De Koningh, for triangulation used for mapping of Indonesia





The island of St. Croix is surveyed by the Danish in 1733. The Danish are considered the founders of a surveying method, that is used to survey the mainland in:

- A. Australia
- B. Germany
- C. South Africa
- D. USA



The sudden appearance of portolan charts, realistic nautical charts of the Mediterranean and Black Sea, at the end of the thirteenth century, constitute a historical, geodetic, and cartographic mystery. Because:

- A. constructing these source charts was well beyond the means and capabilities of medieval mariners and cartographers.
- B. depicted already the current sea level rise due to climate change along the Atlantic coasts from Morocco to the south coast of England
- C. of its qualitative character, with religious overtones and classical elements
- D. they show characteristics with Ptolemaic maps from late Antiquity.



The British, when they had finally wrested the Cape Colony (South Africa) from the Dutch in 1806 inherited a volatile environment, particularly along the Eastern frontier. Did the trekboers on the Eastern frontier have titles to their farms before the British occupation in 1806?

- A. No
- B. yes



In our session Historical Surveying – Dutch roots to the profession, we have 7 papers. How many papers do indeed address aspects of the Dutch surveying roots?

- A. 1
- B. 3
- C. 4
- D. 5



Which one of the following survey instruments has not been used for the Mapping of Indonesia?



1



2



3



4