



International Association of Institutes of Navigation

MELAHA 2016

25 April 2016

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NAVIGATION

Advancing by solving the ‘what if?’

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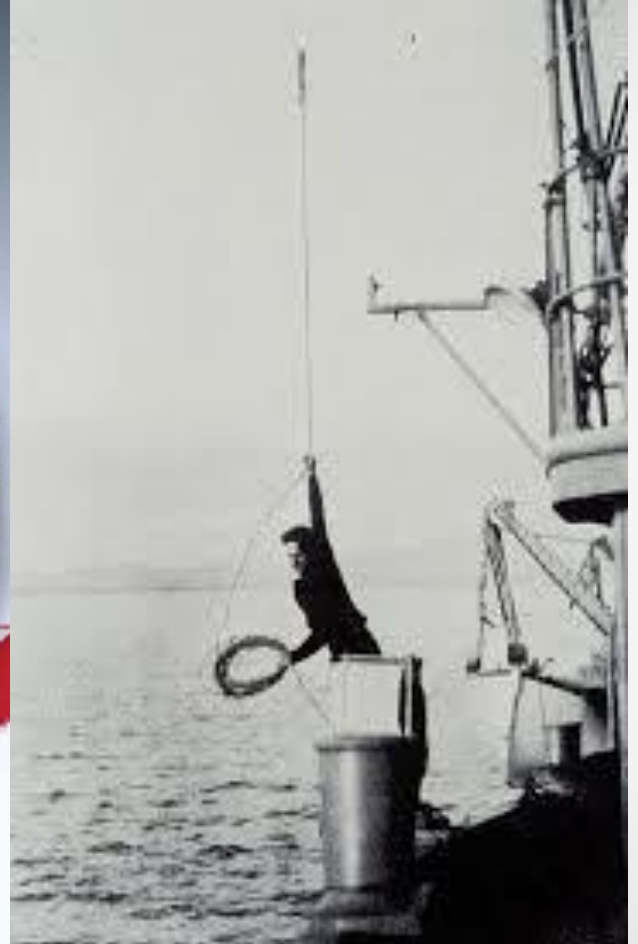
On 2 June 1699, William Dampier described his uncertainty while approaching the Cape of Good Hope: “I saw a large black Fowl, with a whitish flat Bill, fly by us; and took great Notice of it, because in the East India Waggoner, or Pilot-Book, there is mention made of large Fowls, as big as Ravens, with white flat Bills and black Feathers, that fly not above 30 Leagues from the Cape ... My Reckoning made me then think myself above 90 Leagues from the Cape, according to the Longitude which the Cape hath in the common Sea-Chart: So that I was in some doubt , whether these were the right Fowls spoken of in the Waggoner or whether those Fowls might fly further off Shore than is there mentioned... I found, soon after, that I was not then above 25 or 30 leagues at most from the Cape....”

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Sounding Lead, 7 lbs., marked in 25 fathom increments (156 feet), The Mariners' Museum



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- During the GPS anomaly on the 25th and 26th of January users had up to six satellites in view transmitting erroneous time signals.
- According to John Lavrakas, President of Advance Research Corporation, 15 of the 31 GPS satellites were affected by the SVN23-related software problem. All (15) transmitted signals that included a 13.7 microsecond error. **“That meant that for a period of about 14 hours, anywhere you were on the globe you were going to see from one to six satellites with bad signals”** Lavrakas said.
- Credit Resilient Navigation & Timing Foundation - 17 Feb. 2016

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Korean Jamming Event Spring 2016

- Date 2016, Mar 31 – early April
- Jammer Location Mt. Geumgang Haeju
- Affected Area Eastern Gagnwon, Seoul
- Disruptions **962 airplanes**
700 ships
1,786 cell towers

Credit: Mr Charles Shue, UrsaNav 6 Apr 2016



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