

## 'Death by GPS' in desert



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Five harrowing days after becoming stuck on a remote backcountry road in Death Valley National Park in August 2009, Alicia Sanchez lay down next to her Jeep Cherokee and prepared to die.

Then she heard a voice.

"I called as I approached, asking if she was okay," wrote Ranger Amber Nattrass in a park report. "She was waving frantically and screaming, 'My baby is dead, my baby is dead.'"

In the SUV, Nattrass found Sanchez's lifeless 6-year-old son Carlos on the front seat. "She told me they walked 10 miles but couldn't find any help (and) had run out of water and had been drinking their own urine," Nattrass wrote.

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## Tolman and the cognitive map



**“PHYSICAL MAPS BREED  
COGNITIVE MAPS.”**

# HAROLD GATTY



## HOME-CENTERED NAVIGATION



## SELF-CENTERED NAVIGATION



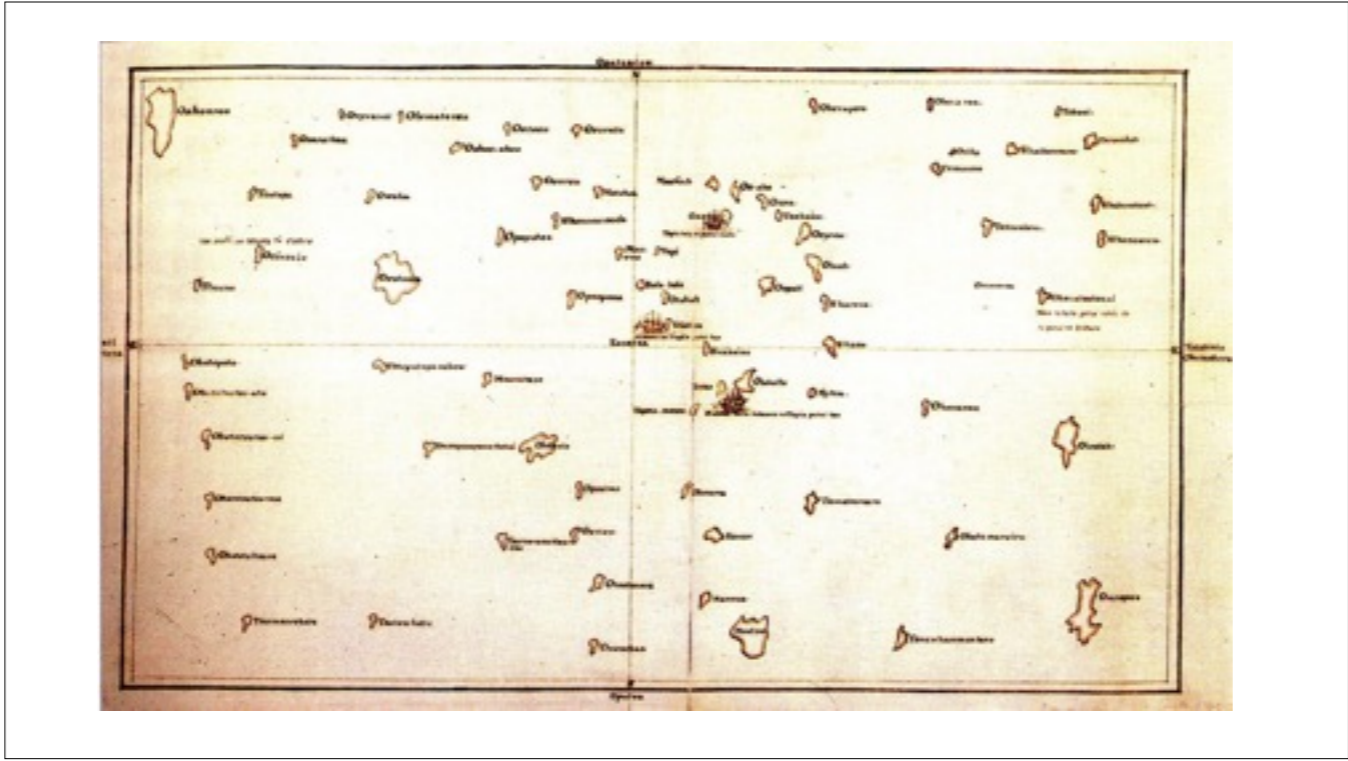
## LOCATION-CENTERED NAVIGATION



# JAMES COOK







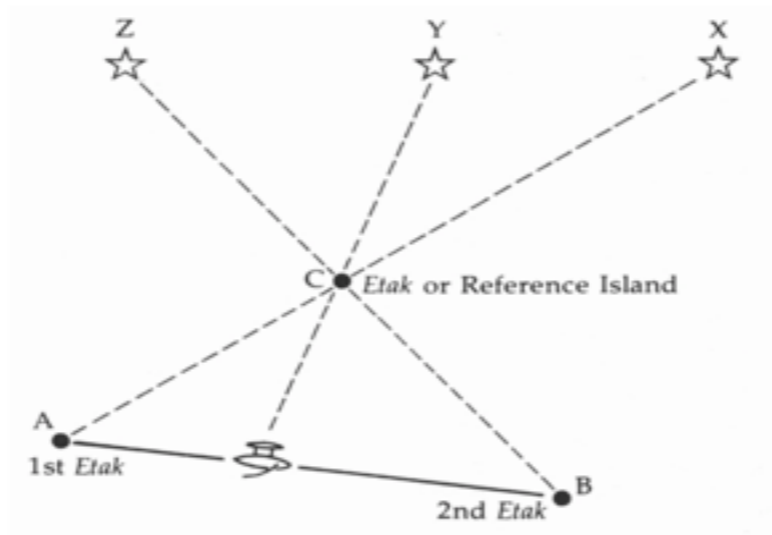
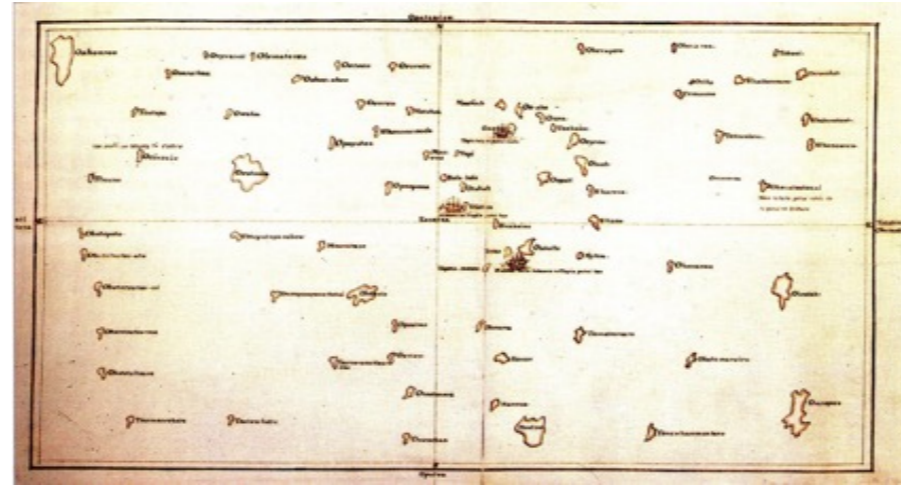


FIGURE 2. A short voyage of two *etak* segments from island A to island B (after Lewis 1972:133). When the canoe leaves island A the *etak* or reference island (C) "lies under" star X. When the *etak* island "lies under" star Y the first *etak* segment is completed. When the *etak* island "lies under" star Z the second *etak* segment is completed and the canoe should be at its destination, island B.

## THE CHRONOMETER



# THE FIRST GIS



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