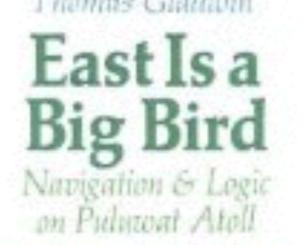
Culture and Environment: Practices that account for the differences

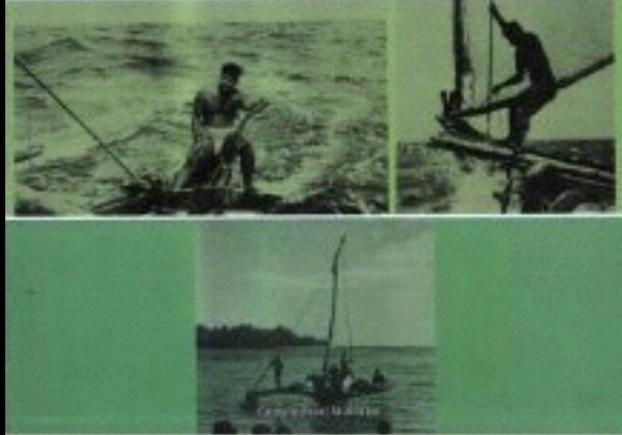
Lecture 12

Research on cognition - some anthropologists examine logic or the processes of thinking and problem solving





- Thomas Gladwin
- 1970



Thomas Gladwin:

- a different type of intelligence
- how non-Westerners are extremely intelligent and clearly have formal operational thought and logic.
- All peoples achieve formal operations in spheres familiar to them
- Lancy

Poor people consistently disadvantaged in tests

- In school
- On jobs
- In testing for intelligence and achievement

- Disadvantage NOT entirely due to discrimination.
- Difference in strategies of problem solving + a divergence in priorities between poor and more affluent.

Gladwin - solution = move the criterion for intelligence away from its narrow scholastic base. Find some way to assess problemsolving skills which would relate to adult performance

Find new criteria of intelligence.

To do this 2 things were required:

 population uncontaminated effects of Western education and opportunity structure.

 accomplishment of people without formal education - recognized in the West as highly intelligent behavior.

- behavior analyzed as a logical system.
- criteria of intelligence different than Western intelligence tests.

 Seaways = lines of travel which lie between various islands

means to navigate by:

- stars and planets
- sky and wildlife
- water
- ALL AT THE SAME TIME

stars

- Star tracks = the vertical movement in the equatorial stars. They remain constant in direction and are used as a vast compass (32).
- can name and follow over 220 stars

Sky

- clouds brown=strong winds, high= no wind but rain, movement = strength, movement of wind,
- sky darker over island, red at sunset, sunrise = humidity, halo around moon = rain, number of stars within =intensity of the storm < 10 bad!, double halo = gale

wildlife

 dolphins swimming toward shelter = storm, frigate bird toward sea = calm, white turn = 200 km, brown turn =65 km, boobies 40 km

ocean

 can distinguish 5 different swells against the hull (generated by pressure systems), identify distant atolls beyond horizon by distinct reverberation patter of waves against hull,

PLUS dead reckoning:

- Puluat Dead reckoning = one's position at any time is determined solely on the basis of distance and direction traveled since leaving the last known location
- Western navigation don't need to know where have been. Do need sextant (startracking), chronometer (time-keeping), or computers

dead reckoning

- every bit of data wind, currents, speed, direction, distance, time accord over the distance of the voyage had to be kept within the memory of the navigator
- do not sleep, sit alone on a special perch at the stern of the vessel tracking with their minds
- tacking?

Navigators:

- selected at
- no written records memory
- tidal pools, dragged behind, testicles tied to rigging

The Hokule'a (1975)

Tahiti to Hawai'i Mau

conclusion:

- This is not "primitive" thinking!
- Our thinking about intelligence is culturebound.

Reading:

Venkatesh Chapters 2 (40 – 65) & 3