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Notes on Kim Sterelny, "Cooperation, Culture, and Conflict"

- I. Introduction
- II. Two Social Revolutions
- III. War and Peace in the Pleistocene
- IV. Foraging, Mutualism, and the Folk Theorem
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ABSTRACT: big picture of human social evolution. 2 major transitions in cooperation: 1) from great ape to forager (individual advantage: mutualism and reciprocity; must reconsider free-rider problem); 2) from foragers to states (group selection with war as selection pressure).

INTRODUCTION:

- 1. Cooperation is especially important for humans due to our propensity for cultural learning in technical skills and interpersonal conduct.
- 2. Bowles and Gintis propose group selection under war as selection pressure as explanation.
 - a. Behavioral economics
 - i. Show most ppl as strong reciprocators
 - 1. Willing to cooperate
 - 2. Willing to punish non-cooperators
 - ii. But methods of these experiments are not typical of everyday
 - iii. KS willing to accept presence of strong reciprocators, but think it could have evolved via individual advantage (reciprocity / reputation)
 - b. Archaeology and ethnography: climate variability produced war
 - c. Models: key assumption is presence of intergroup violence

TWO SOCIAL REVOLUTIONS

- 3. First revolution: from apes to obligate cooperators (75kya)
 - a. Technology: hunting with short-range weapons w/o single-shot kill capacity
 - b. Ethnography of contemporary foragers: egalitarian, nomadic, skilled, complex social ties to other bands in a "metaband" with periodic gathering.
- 4. Second revolution (10kya): from nomadic foraging to sedentary farming
 - a. Storage of food
 - b. Hierarchy and specialization
 - c. Anonymous / stranger interactions

WAR AND PEACE IN THE PLEISTOCENE

5. Economy of violence of foragers (murder, vendetta, capital punishment, infanticide, geronticide)

- 6. BG propose group selection under climate instability driven war pressure
- 7. KS disagrees
 - a. Psychology: intragroup cooperation isn't compatible with folks prone to intergroup berserkers / risk takers, bcs it's too hard to keep that only intergroup: it's bound to be expressed in-group. But that's what triggers ingroup capital punishment.
 - b. Archaeology: KS cites those like Ferguson who challenge BG's interpretation of the archaeological record as widespread war
 - c. Economics of war: it makes sense to attack farms with stored food; it doesn't make sense to attack nomad foragers
 - i. Foragers are tough targets: they know terrain, and they have hunting skills / weapons
 - ii. Foragers don't have possessions
 - iii. Forager war hurts both sides by creating dangerous border zones, thus dropping the exploitation territory (Kelly, PNAS, 2005)
 - d. Climate instability: but famine leads to fission of groups, making organized inter-group territory conquest even less possible, as you need your group to hang together to conquer another group.
 - e. Diplomacy: foragers had lots of social ties; those are really the "social capital" on which they rely. Why risk centuries of ties for a few months or years of gain through war?
 - f. Ethnography:
 - i. Boehm's evidence of capital punishment by foragers of alpha warriors
 - ii. Valor-directed warrior culture arises with herds and other stealable resources: Iliad / Odyssey: Achilles was a gang-banger, pirate, thug
 - iii. JP: here is a spot to think about the horticultural / chiefdom societies described by Montaigne (and much later by Clastres): for them, war is anti-state; but for the foragers, vendetta and capital punishment is both anti-state and anti-war
 - g. Richerson and Boyd: climate instability would be selection pressure for group selection of cooperation even w/o war; KS says it would be supplemental to individual selection
 - h. Final technical point about equilibria:
 - i. There are multiple equilibria, and group selection is said to select for groups with better equilibrium points
 - ii. KS disagrees:
 - 1. ethnography reveals many maladaptive customs
 - 2. Besides, models are much too abstract to capture variation in individual cooperative choices

FORAGING, MUTUALISM, AND THE FOLK THEOREM

- 8. Kropotkin among those proposing that harsh conditions drives cooperation
- 9. KS agrees
 - a. First form is mutualism: sharing on the spot
 - b. Secondly, reciprocity appears
 - i. Technology and expertise:
 - 1. Hunting: projectiles allow small game hunting, which requires cooperation within smaller hunting parties

- 2. Gathering: depends on specialized skills / knowledge
- c. "Folk Theorem": conditions for reciprocity based cooperation
 - i. frequent, transparent interactions
 - ii. small bands
 - 1. genes are exchanged in marriage market based on metaband
 - 2. but cooperation works in economic unit, the small band

PUNISHMENT, SHIRKERS, AND BULLIES

- 10. Shirkers
 - a. can be idlers or stingy
 - b. this is what is most often modeled
- 11. Bullies are more important
 - a. Initial problem: great ape society is bully-dominated
 - b. Ethnography: foragers hate bullies; they are targets of capital punishment
 - c. Economy of violence: bullies are harder to get rid of; they are big and strong and sometimes have social support (kin and gang)
 - i. Full developed humans (language, norms, kin systems, technology) can do this
 - ii. What about early evolution of cooperation?
 - 1. Trust secured by interaction btw social emotions and history of successful cooperation
 - a. Collective defense (we are prey as well as predator)
 - b. "power scavenging": mobs drive off other predators from a kill with sticks and stones
 - 2. So the trust and cooperation gained from early defense and food production prepares for later anti-bully operations

THE HOLOCENE: FARMS, WARS, PRIESTS, CHIEFS

- 12. Transition from foragers to farmers
 - a. Foragers:
 - i. Nomadic
 - ii. Egalitarian
 - 1. Consensus
 - 2. Not command
 - iii. War not part of their economy of violence
 - b. Farmers
 - i. Sedentary
 - ii. Hierarchical (state)
 - iii. War
- 13. KS admits group selection models here: war selects for state virtues
 - a. Strong in-group adherence
 - b. Top-down command / obedience
 - c. Split social virtues
 - i. Farmers are risk averse
 - ii. Warriors are honor-motivated
 - iii. Soldiers are group-motivated