Ecological Changes and Local Knowledge Shifts in an Indigenous Honey Gathering Community in the Philippines

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Results

Traditional gathering of honey from giant honey bees (*Apis dorsata* Fab.) transformed from a traditional practice into a commercial activity aimed at conserving forests while providing income to indigenous Tagbanuas. Previously gathering small amounts for personal consumption, the Tagbanuas are now gathering as many honeycombs as they can.

Figure 1. Giant honey bee (*Apis dorsata* Fab.) hive

22% No Yes (A. dorsata) Yes (A. cerana) Yes (both)

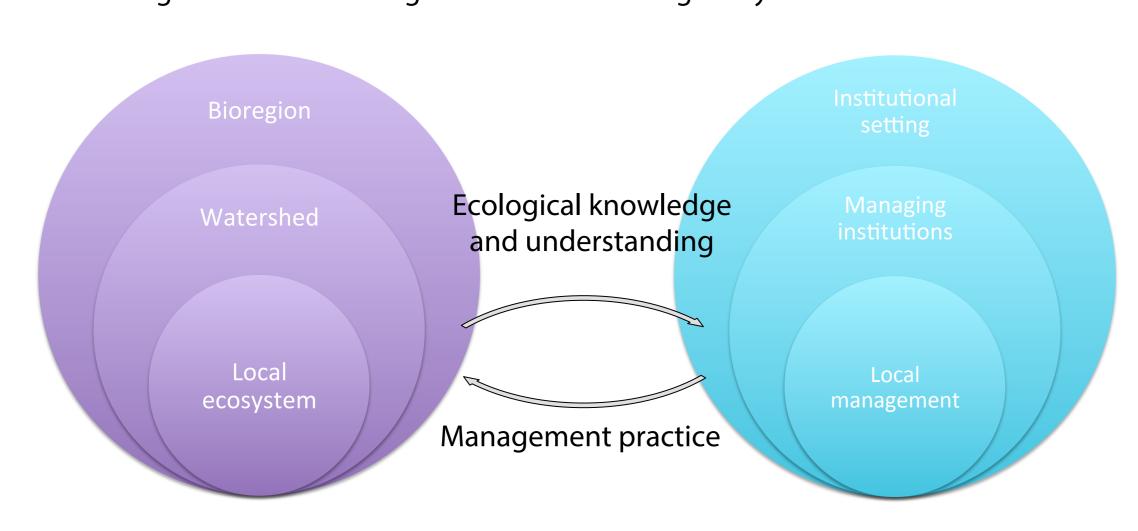
2%

Figure 3. Identification of giant and Eastern honey bees by non-hunter gatherer respondents. The majority of the respondents (71%) could not correctly identify either the giant or Eastern honey bee (*Apis cerana* L.)

Examining the linkages of social and ecological systems in community forestry enterprises

Indigenous wild honey hunting and gathering

As an information-intensive endeavor, managing ecosystem services and human well-being relies on knowledge of the social-ecological system.



This study used the conceptual framework of Berkes and Folke (2002) in analysing the interaction between ecological knowledge and understanding in management practice in the social-ecological system.

Low level of education strong predictor of correct identification of giant or Eastern honey bees

Table 1. Results of logistic regression. Along all the variables tested, the level of education is the only significant predictor of correct identification of giant and Eastern honey bees.

Factors	p	Odds ratio
Ethnicity	0.399	1.489
Marital Status	0.543	0.698
Role in household	0.448	2.094
Educational level	0.024	0.512
Role in community	0.375	1.196
Residence in years	0.174	0.980
Age	0.226	1.021
Gender	0.538	1.227
Hunter gatherer relative	0.563	1.204

Methodology

Data collection 251 Survey questionnaires 20 In-depth interviews Analysis Statistical analysis R and Stata Comparative data analysis

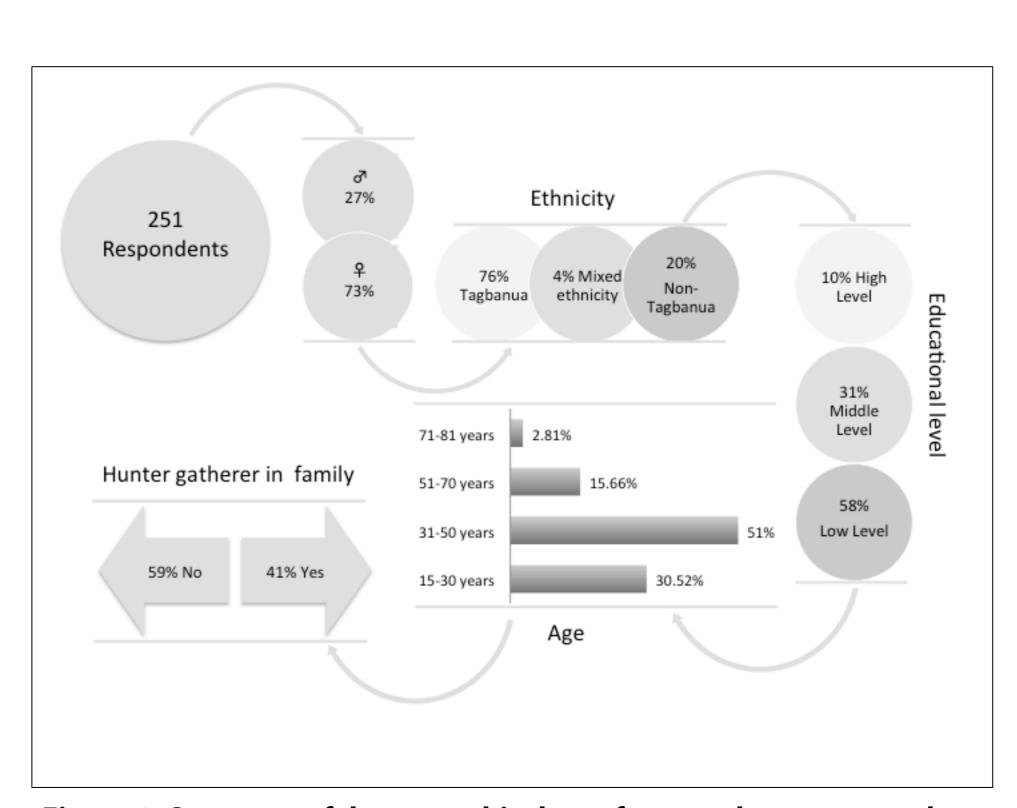


Figure 2. Summary of demographic data of respondents surveyed. Majority of the respondents are female, of Tagbanua ethnicity, with low level of formal education, aged between 31-50 years, and have no honey hunter-gatherer as an immediate family member.

Importance of local ecological knowledge



The low level of local knowledge on extant bees may be attributed to low interaction with bees brought about by decreased immersion time within the community due to the demands of formal educational instruction outside of the community. Schools for indigenous children should include indigenous cultures and traditions in its curriculum.

Acknowledgements







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