Job satisfaction: perspectives from fishers in northeastern Hokkaido, Japan







Sweke EA, Kobayashi Y, Makino M, Sakurai Y

esweke@yahoo.com

PRESENTATION OUTLINE

1. INTRODUCTION

- General introduction
- Rationale of the study
- Study objective

2. MATERIALS AND METHODS

- Overview: study area
- Data collection techniques
- Data analysis

KEYWORDS

- Satisfaction
- •

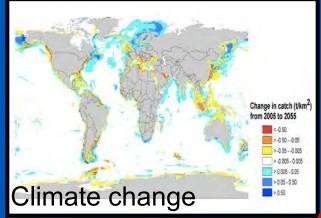
Sustainability

- Change
- Economics

3. RESULTS AND DISCUSSION

4. CONCLUSIONS

INTRODUCTION



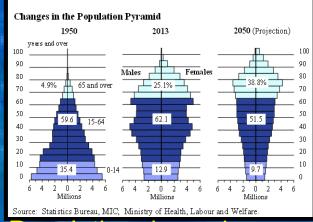






Fisheries



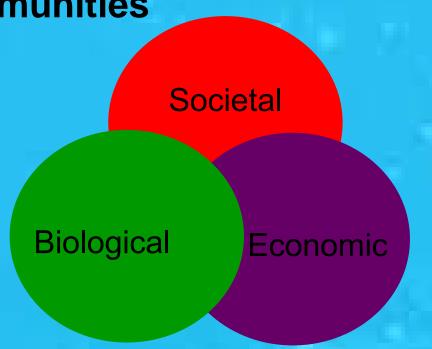






Population dynamics

Globally occurring transition in traditional fishery communities

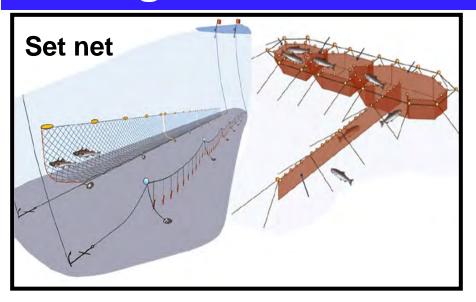








Fishing methods in the study areas

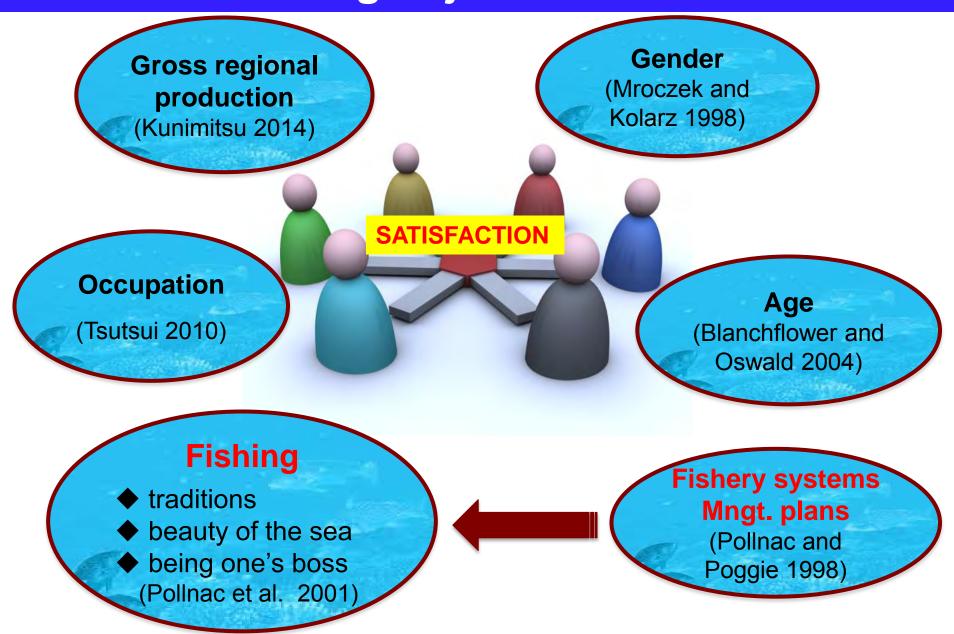








Factors attributing to job satisfaction

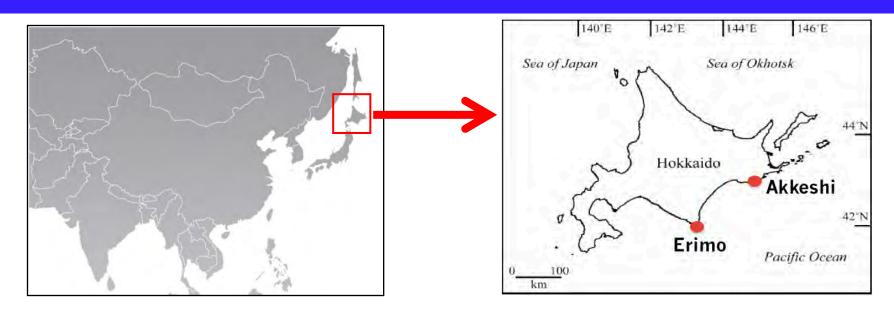


Study objective

To examine fishing satisfaction among local fishers:

- Determine factors attributed to fishing satisfaction
- Assess variations in species catch and income
- Compare and contrast results between mixed fisheries and capture fisheries communities
- Determine future potential target species

MATERIALS AND METHODS



Criteria	Akkeshi	Erimo			
Population Fishers	10894 (2010) ≈500	5413 (2010) ≈470			
Fishery type	Mixed: Capture & aquaculture	Specialized: Capture			
Main species	Oyster (<i>Crassostrea gigas</i>) Kelp Salmon, etc.	Kelp (Laminaria angustata) Salmon (Oncorhynchus keta) Whelk, etc.			

Data collection

Data	Source	Duration
Catch and income	Fisheries Cooperative Associations (FCAs)	June 2013 Akkeshi: 1960-2010 Erimo: 1967-2010
Demographics Target species Others	Questionnaires surveys	April 2014-April 2015

Questionnaire survey







Pilot survey

- ◆ 20 respondents
- ♦ 62 questions



- operation history
- **♦** OCCUPATION
- alternative activities
- sustainability



Final survey

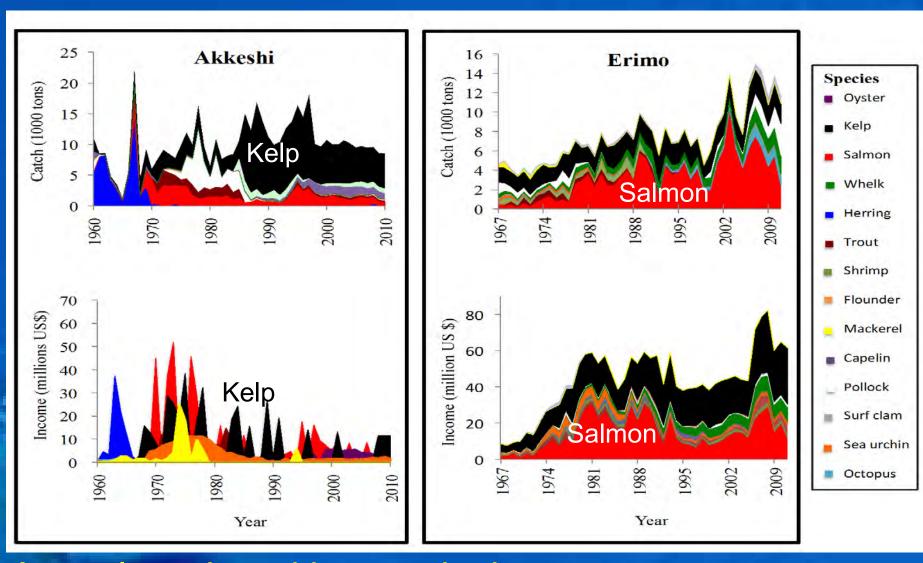
- ◆ 193 respondents
- ♦ 40 questions





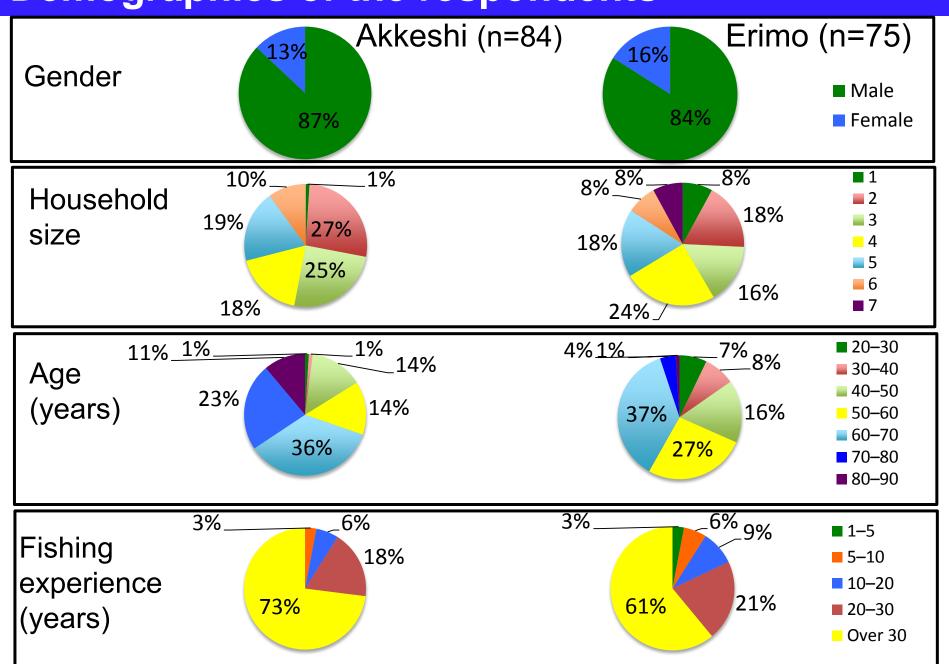
- **◆**crosstabs
- ◆multivariate analysis
- ◆frequency, mean, percentage
- ◆correlations (ρ)

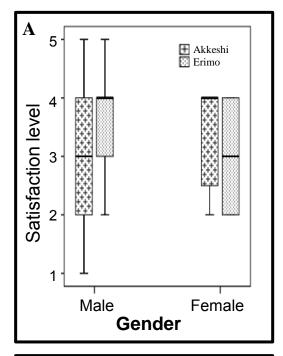
RESULTS AND DISCUSSION

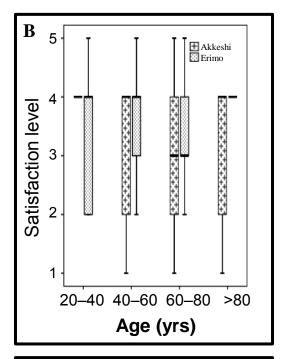


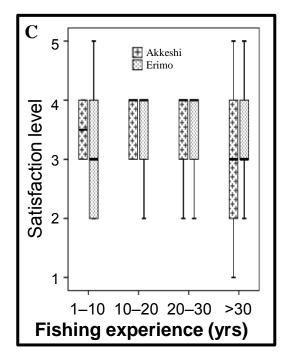
Annual catch and income in the areas (Data: FCAs)

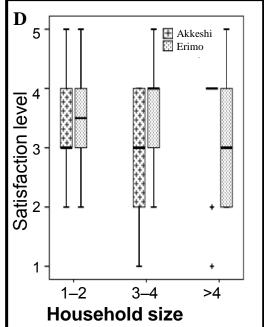
Demographics of the respondents

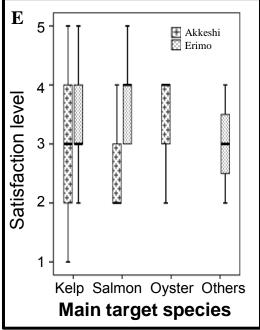












Satisfaction level

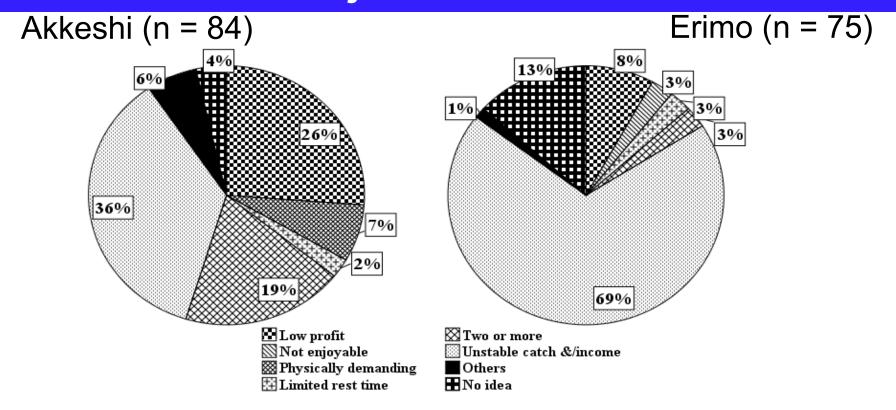
- **5** = Extremely satisfaction
- **4** = Moderately satisfaction
- 3 = Neutral
- **2** = Moderately dissatisfaction
- **1** = Extremely dissatisfaction

Correlations between satisfaction and variables

Area		Gender	Age	Experience	Household	Species	5
Akkeshi	ρ	0.01	0.26	0.37	0.42	0.62	
	n	84	84	82	78	79	
	p	0.67	0.49	0.79	< 0.01	< 0.05	
Erimo	ρ	0.17	0.28	0.24	0.26	0.47	
	n	71	69	71	64	68	
	р	0.37	0.49	0.67	< 0.05	0.52	

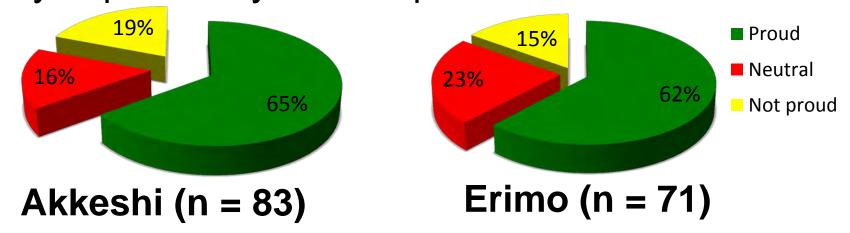
Fishers in Erimo were more satisfied (mean = 3.37, n = 71) than fishers in Akkeshi (mean = 3.08, n = 84).

Reasons for low job satisfaction

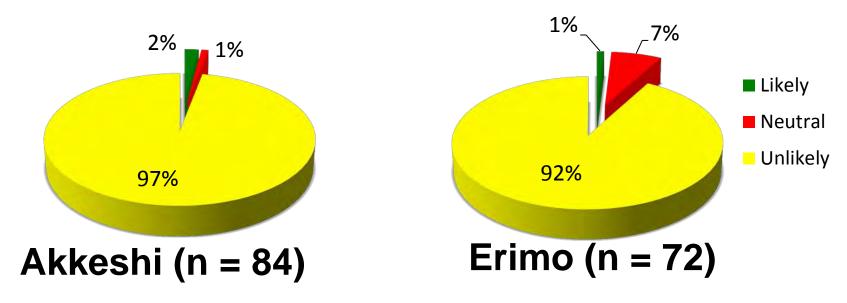


- Unpredicted fisheries prospects/change
- Slow switch in effort allocation among species (Sweke et al., 2015 under prep.)
- Fishing license: Fisheries institutions (Lim et al., 1995), traditions (Wakita et al, 2014, Makino et al. 2009)

Are you proud of your occupation?



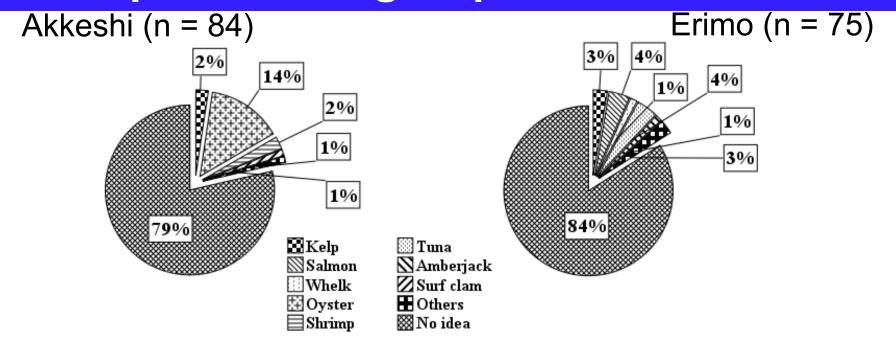
How likely are you to change occupation?



Unwillingness to change occupation (%)

Reason	Akkeshi					Erimo				
Age	20–40	40–60	60–80	80≤	Total	20–40	40–60	60–80	80≤	Total
Satisfied	50	30.43	18.37	11.11	21.69	27.27	25.93	5.56	0	19.30
Inexperience	0	4.35	10.20	0	7.23	18.18	22.22	50	0	29.82
Age	0	13.04	16.33	0	13.25	18.18	29.63	22.22	100	26.32
Two/more	50	17.39	28.57	11.11	24.10	9.09	3.70	0	0	3.51
Own boss	0	13.04	8.16	0	8.43	9.09	0	0	0	1.75
Love fishing	0	8.70	6.12	22.22	8.43	0	7.41	11.11	0	7.02
Traditional	0	4.35	4.08	11.11	4.82	9.09	0	0	0	1.75
No idea	0	8.70	8.16	44.44	12.05	9.09	11.11	11.11	0	10.53
%	100	100	100	100	100	100	100	100	100	100
n	2	23	49	9	83	11	27	18	1	57

Future potential target species



- Future is invisible (no extinction?/limited alternatives)
- Slow switch in effort allocation among species (Sweke et al., 2015)
- Fishing license: Fisheries authorities (Lim et al., 1995), traditions (Wakita et al, 2014, Makino et al. 2009)

CONCLUSIONS

- Moderate satisfaction: fishers in Erimo were more satisfied than fishers in Akkeshi
- Satisfaction was significantly associated with target species (Pollonac & Poggie, 1988) and household size in Akkeshi, and only to household size in Erimo
- Differences in satisfaction among fishers: disparities in fisheries systems in the areas
- Fishers are unwilling to change occupation: limited alternatives and traditions

CONCLUSIONS

- Satisfaction maximization: processing to add value
- Ecological and social sustainability: good and timely adaptive management approaches are inevitable
- More studies to examine effects of management on satisfaction of fishers
- Alternatives occupation to fishing
 - Limited
 - Eco-tourism