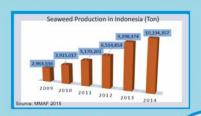
Gender Participation in Seaweed Production in NTT Province Indonesia

Ria Fitriana Independent Consultant, based in Jakarta rfitriana@gmail.com ed at Gender in Aquaculture and Fisheries, Bangkok, 3-7 August 2016

Introduction

- Seaweed is globally traded, used and consumed
- → Produced by the rural villagers in remote areas
 → The cultured seaweed reached 24.9 millions ton and
- value at USD 6 billion worldwide (FAO 2014)
- → The cultured seaweed are mainly produce carr. (Kappaphycus alvarezii and Euchema spp 8.3 and followed by alginate producing seaweed (FAO 2014)



Observatio

Actor analysis in Value Chain

Objectives:

•This study examines the role of women and men in seaweed production in NTT Province, Indonesia. ·Identify the different characteristic of producers, including socio economic classes, ethnic groups, past occupations of men and women

and how gender affects farming location.

Farming Characteristic

	No of Farmers	Dominant Ethnic	Farming Method	Length of ropes	Average number of ropes/farmers	Best Harvest Season
Kupang						
Onansila*	100 households	Helong, Rote, Baiau	long line	45m	36 ropes	from June to August
Akle*	243 households	Helong, Rote	long line	30-50m	132	March to August high productivity season. Farm all the year
Nakean*	72 households	Helong, Rote	long line	35m	135 ropes	March to May
Alor						
Blangmerang	44 farmers	Alorese	Off bottom, long line	50m		January to May
Labuhan Baio**	14 farmers	Bajau	Off bottom, long line	50m		January to May
Kavang**	72 farmers	Alorese	Long line	50m	+	January to May
Marisa**	100 farmers	Alorese, Baiau	Long line	50m	•	January to May
Rote Ndao		0.000				
Oeseli***	213 female; 184 male	Rote	Off bottom, long line	35-50m	80-90 ropes	Off bottom: November to March Long line: May to August
Oenggaot***	918 farmers	Rote	Off bottom but flexible	25-30m	150 ropes	November to March
Dalama***	800 farmers	Rote, Baiau	Long line	50m	100 ropes	April–September (3 times); Nov-Dec: 1 time:

Methods

Data collection

'ear Data collecte - Alor: 2009-2010 -Rote: 2015 -Kupang: 2014

NTT Provinces Alor District Kupang District Rote Ndao

Sites

- •NTT is The 2nd largest producer in Indonesia in 2013 (1.8 million ton) (MMAF 2015)
- Seaweed contributes USD 1.4 million to NTT provinces in 2013 One of poorest province (WFP 2015)
- •The case study takes place in 3 districts (Alor, Rote and Kupang districts) which represent the production area of seaweed in NTT Province Number of villages:
- . Alor District: 4 villages
- (Kabir, Blangmerang, Kayang and Marisa)

- •Rote: 3 Villages (Oeseli, Oenggaot and Daiama) •Kupang: 3 Villages
- (Onansila, Akle, Nakean)

** Source: Fitriana (2014a)

Activities as seaweed *** Source: Fitriana (2015) producers per gender

	Male	Female	Notes	
Find seedlings	٧		Find seedlings most conducted by men as it sometimes they have to go to other villages	
Clean the ropes v v		٧	Men and women involve in cleaning the ropes before seedlings are tied	
Tying seedlings to rope	٧	vv	This is family work, dominantly done by women. It sometimes involves children.	
Attach to the main rope in the sea	vv	٧	This is mainly conducted by men as they needs to attach the rope to the main rope in the sea. Women help in doing this activity	
Daily maintenance at the sea	٧		They leave the seaweed grow but it still requires to be maintained to check the rope and clean from other algae and mud	
Collect fallen seaweed	٧	vv	Women mostly collected fallen seaweed. In Alor, women dived to collect the fallen seaweed while in other areas the women only collect the fallen seaweed along the coast.	
Harvest	٧	٧	Men harvest the seaweed in the sea using dugout canoe and bring to the shore	
Untie seaweed	v	vv	Women mostly untie seaweed	
Sun-drying process	٧	v	This is family work where the untied seaweed is spread of the rubble/plastic rack for sundrying. They normally sund in two days and put the sundried seaweed into a plastic sack and sell to local traders	
Selling to traders	٧	v	Men normally deal with local traders. However, if the local trader is a woman, the woman producer deals with the	

Seaweed farming

PATE STY

Species farmed:

Kappaphycus alvarezii and Eucheuma spp

In Rote District e.g. Oeseli and Landu Island) women has their own spot that is different with me

men & women share the ropes and work the same site.

Farming location

Onansila*

Working system

Madene: working in group for tying and untying the seaweed during post harvest Madene: working in group for tying and untying. Members are those whose seaweed rope was nearby one and another help each other Hired people to tying the seaweed (USD 1/line/person)

Working in group during tying process Family work Family work Family work

Individual work Individual work, hire labour for tying seaweed Working in group during tying process

Changes in Producers History

- Seaweed is one productive activity for family business.
- This adds one productive activity for women apart from other productive roles. Significant additional cash income from seaweed farming for life improvement. On the other hand, seaweed farmers need to understand that seaweed farming requires a certain cash flow to cover material and operating costs,
- to provide for times when production is unfavourable. So they will not collapse and depend on external support
- Most of the farming location is far from their own house. The geographical distance between family houses on the island and production sites require the farmers to spend extended periods away from home and limit caring their school children.
- Adaptation to sea environment.

The changing of sea temperature with farming method needs to be improved in order to have effective seaweed farming

Conclusion

Women and men both have important role in seaweed culture. It involves all members of the household in all production and marketing activities. ·Seaweed farming was found to be essentially as a family enterprise

Knowing who does what can guide
strategies for efficient technology transfer and improve quality

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Therefore the authors with to acknowledge the

References