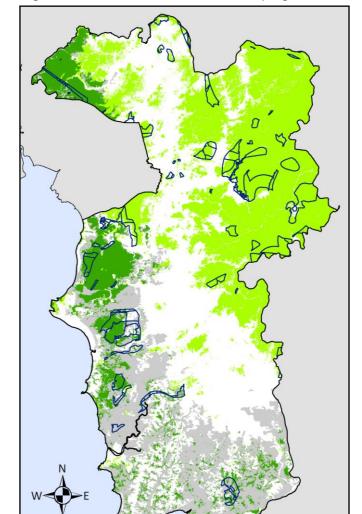


Social Forestry Performances in Ketapang District, West Kalimantan

PS Objectives

Perhutanan Sosial (PS, Social Forestry) is the sustainable forest management system within the governmentdesignated state or customary/rights forests areas and managed by the local communities/customary laws to increase the well-being of the community members, environment balances, and social-cultural dynamics ². The Indonesian Government is targeting to allocate 12.7 million hectares of forests to be the PS for the 2015-2019 periods 3.

The PS area in Ketapang district until the year of 2017 had covers an area of 184,000 hectares (See Figure 1 for the areas distribution and Table 1 for the number of villages within the PS areas) 1. The natural forests cover 73% of the total PS areas, and around 28% of the natural forests inside the area of PS is on the peatlands.



25

50 Km

Perhutanan Sosial

Hutan alam mineral

Hutan alam gambut

Gambut bukan hutan

Figure 1. Perhutanan Sosial Locations in Ketapang District 1.

PS Monitoring and Evaluation

The communities that are managing the PS have the right to develop the forestry-based productive economical activities and utilize the land referring to the local wisdom. The PS management units are obligated to preserve the forest functions and establish the forest protection activities. The Monitoring and Evaluation activities are conducted every 5 years.

The PS performances include the aspects of forest sustainability and the well-being of communities. Therefore, deforestation and livelihood can be used as the performance indicators. Deforestation refers to the relatively intact natural forest area reduction. Livelihood refers to the basic facilities access (sanitation, electricity, and the cooking fuels) for the household, refers to the Villages Potential Data from Indonesia Central Agency on Statistics (PODES BPS).

Study Results

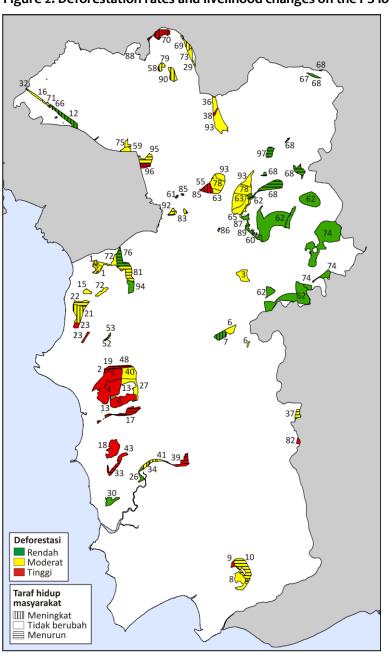
The study results for the deforestation status (Global Forest Watch Data, 2010 and 2016) and the communities' livelihood changes (PODES Data, 2008 and 2014) are presented in Figure 2.

The summary of villages/PS number and the area with different deforestation rates (low, moderate, or high) and the communities' livelihood changes (improving, constant, or reducing) are presented in Table 1.

Table 1. Number of Villages/PS areas with deforestation rates and livelihood status.

DEFORESTATION	ORESTATION LIVELIHOOD TOTAL VILLAGE		GES/PS	PS PS AREAS	
RATES	LEVELS	NUMBER	%	HECTARES	%
	IMPROVING	6	8.2	5,111	2.8
LOW	CONSTANT	10	13.7	58,171	31.6
	DECREASING	5	6.9	10,911	5.9
MODERATE	IMPROVING	7	9.6	9,082	4.9
	CONSTANT	20	27.4	45,802	24.9
	DECREASING	6	8.2	13,324	7.2
HIGH	IMPROVING	3	4.1	4,368	2.4
	CONSTANT	8	11.0	27,800	15.1
	DECREASING	8	11.0	9,493	5.2

Figure 2. Deforestation rates and livelihood changes on the PS local



ID	VILLAGES/PS NAME	ID	VILLAGES/PS NAME	
	VILLAGES/I S NAME			
HD IN-PROCESS		COMMUNITIES-INPUT INFORMATION		
1	LAMAN SATONG		BENUA KRIO	
	SUNGAI PELANG		CINTA MANIS	
	SEBADAK RAYA		KAMPAR SEBOMBAN	
	PEMATANG GADUNG		KENYABUR	
	SUNGAI BESAR		KRIO HULU	
	BERINGIN RAYO		KUALAN HULU	
	TANJUNG BEULANG		KUALAN TENGAH	
	ENSE-FREE PEATLAND		LABAI HILIR	
	AIR HITAM BESAR		LAMAN SATONG	
	AIR HITAM HULU		LEGONG	
	DANAU BUNTAR		LUBUK KAKAP	
	KAMPAR SEBOMBAN		MEKAR RAYA	
	KEMUNING BIUTAK		MENSUBANG	
	KUALA TOLAK		MENYUMBUNG	
	LABAI HILIR		MERAWA	
	PESAGUAN KANAN		PANGKALAN TELOK	
	SUNGAI NANJUNG		PELEMPANGAN	
	SUNGAI PELANG		PENDAMAR INDAH	
	SUNGAI PUTRI		RANDAU	
	TANJUNG BAIK BUDI		RANDAU JUNGKAL	
	TEMPURUKAN		RIAM DADAP	
	ODUCTION FOREST	07	MAIN DADAI	
	P) FOR PS	22	SEKUCING LABAI	
•	KEDONDONG		SEKUKUN	
	KEMUNING BIUTAK		SEMANDANG HULU	
	KENANGA		SEMPURNA	
	KENDAWANGAN KIRI		SENDURUHAN	
	LABAI HILIR		SIMPANG TIGA	
	PAGAR MENTIMUN	٥.	SEMBELANGAAN	
	PANGKALAN BATU	95	SINAR KURI	
	RANDAU LIMAT		SUNGAI DAKA	
	SEMANTUN	-	OPOSED PS	
	SENDURUHAN		KRIO HULU	
	SUKAMULYA		THE TIELS	
	SUNGAI BESAR			
	SUNGAI JELAYAN			
	SUNGAI NANJUNG			
	SUNGAI PELANG			
	TANJUNG PURA			
	ULAK MEDANG			
	MMUNITIES-INPUT			
INFORMATION				
	ALAM PAKUAN			
	BALAI PINANG HULU			
	BATU DAYA			
	BATU LAPIS			
60	DAY INCARI			

61 BAYUNSARI 62 BEGINCI DARAT Deforestation and livelihood changes are closely related with the forest area status and the PS biophysical area condition.

Deforestation

- Forest Area Status (Non-Forest APL, Protected Forest HL, Limited Production Forest HPT, Production Forest HP, and Convertible Production Forest HPK): Deforestation tends to be higher on the PS areas that is located in the relatively high anthropogenic activities, i.e. in HP, HPK and APL, compared to the areas on HL and HPT areas.
- Market Accessibility, a good climate situation for living or farming, and the settlement location situation: Deforestation tends to be higher on the PS areas that has a good market accessibility (<2 km from main road or cities), an optimum climate for farming/living (annual precipitation is 190-210 mm/month in the dry season and 270-300 mm/month in the wet season), and being near to the settlement/transmigration areas (<10 km).
- Peatland and rainfall: Deforestation tends to be higher on the PS areas that is located on a damaged peatland and with very low precipitation levels, whether it's in the dry season (May to September, <100 mm/month) or in the wet season, right before the dry season occurs (November to March, <300 mm/month). This is closely linked with the peatland's fire vulnerability level due to the decrease of groundwater. High PS vulnerability to fire on peatland areas and deforestation are occurred particularly when an extreme condition happens, like when the El Niño took places in 2015.

Livelihood

- Market accessibility and good supporting living or agricultural climate: Livelihood improvement tends to be happen in the PS area with a good market access (near main road or cities) and has an optimum climate for living or farming (annual precipitation is 190-210 mm/month in the dry season and 270-300 mm/month in the wet season).
- Distance from settlement or transmigration area and plantation industries: Livelihood improvement tends to be happened on the PS areas that is remotely located from the settlement or transmigration areas (>20 km) and from plantation industries, especially the oil palm plantation (> 3 km).

Conclusions

Findings

- High deforestation rate occurs on the PS areas that are closely related with forest area status on HP, HPK, and APL, that tend to have high level of anthropogenic activities, settlement and market accessibility, and the living/agricultural supporting climate.
- Degraded peatlands with low precipitation levels in dry season, make it vulnerable to fire, affecting the deforestation rate on the PS areas.
- Communities' livelihood improvement tends to be happened on the PS locations with good market supporting climates on agricultural productivity, and remotely located from settlement/transmigration or plantation industry areas especially the oil palm plantations.

Suggestions

- PS locations on degraded peatlands are very vulnerable to fires; PS area proposal should be done simultaneously with the human capacity building and peatland management collaboration activities.
- High deforestation rates and decreasing of living standard occur on the PS areas that are located near settlement/transmigration or agricultural industrial areas; needs special treatments i.e. capacity building and community engagement facilitation activities.

Questions

- Which PS areas that are need to be prioritised?
- What is the most needed facilitation activities theme? By whom?
- What are the policy barriers? Does it need to be changed?

References

- ¹ Ministry of Environment and Forestry (2016) Peta Indikatif Alokasi Perhutanan Sosial PIAPS (Social Forestry Area Indicative Map). Jakarta, Indonesia.
- ² Regulation of Ministry of Environment and Forestry Law Number P.83/MENLHK/SETJEN/KUM.1/10/2016 on Social Forestry
- ³ Republic of Indonesia (2014) Rencana Pembangunan Jangka Menengah Nasional RPJMN 2015-2019 (National Midterm Development Plan for 2015-2019). URL:
 - http://www.bpkp.go.id/public/upload/unit/sesma/files/Buku%20II%20RPJMN%202015-2019.pdf.

Santika, T., Stigner, M., Law, E.A., Budiharta, S., Kusworo, A. et al. (2017) Community forest management in Indonesia: avoided deforestation in the context of anthropogenic and climate complexities.

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MEPS

Monitoring dan Evaluasi Perhutanan Sosial

MEPS is an initiative cooperation between Fauna & Flora International (FFI), Lembaga Ilmu Pengetahuan Indonesia (LIPI, Indonesian Institute of Sciences), Borneo Futures, Durrell Institute of Conservation and Ecology (DICE) at the University of Kent (UK), University of Queensland (UQ) in Australia, and Bangor University (UK). This project is funded by Darwin Initiative (British Government Development Aid) and The Woodspring Trust (Charitable Foundations, UK).











