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YABI 4TH QUARTER PROGRAM REPORT (OCTOBER - DECEMBER 2010)



Photo by: Stephen Belcher - BBC 2010



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All insert photos by: YABI - 2010



HEADQUARTER - YABI, BOGOR



Photo by: Alain Compost



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IRF PROGRAMS:

THE 4TH QUARTER REPORT OF HEADQUARTER - YABI, BOGOR - INDONESIA OCTOBER - DECEMBER, 2010 AND UPDATE 2011.

A. PROGRAM HIGHLIGHTS/ACCOMPLISHMENTS:

SECRETARIAT:

1. October 7th, 2010: The Director Conservation and Biodiversity - DG of PHKA, Ministry of Forestry issued the letter of support concerning the intensive management habitat for the Javan rhino in Ujung Kulon NP. This support is urgently needed for proposal submission to revision of the Ujung Kulon NP zonation such as the status of core zone into wilderness to facilitate habitat management within which includes the location of the JRSCA - Ujung Kulon NP.
2. October 15, 2010: The Director Conservation and Biodiversity - DG of PHKA, Ministry of Forestry discuss and socialize the Ecological Risk Assessment (ERA) for development of Javan Rhino Study Conservation Area (JRSCA) in Ujung Kulon NP. It was attended by officials of DG of PHKA, Head of Ujung Kulon NP and staff, Director Executive of YABI, representatives of Rhino Task Force members, The Indonesian Institute of Sciences (LIPI), Bogor Agricultural University (IPB), WWF - Indonesia and University of Sultan Ageng Tirtayasa (UNTIRTA) - Banten Province, National University (UNAS) - Jakarta and ERA Team.
3. November 9, 2010: The Director of Conservation Biodiversity - DG of PHKA, Ministry of Forestry held one day discussion concerning the important things as follow:
 - ❖ The Integration of Ecological Risk Assessment (ERA) for development of JRSCA in Ujung Kulon NP and Determination of Second Habitat for the Javan Rhino.
 - ❖ Follow-up regarding cases of 3 Javan rhino carcass which discovered on May, 2010 in Nyiur and Cikeusik Luhur areas of Ujung Kulon NP.
 - ❖ Development Plan for the Sumatran rhino population.
 - ❖ Mechanisms of the coordination and collaboration from all stakeholders concerning Javan rhino conservation efforts.

This meeting attended by all officials of DG of PHKA, Head of Ujung Kulon NP and staff, Head of Way Kambas NP, Director Executive of YABI, Rhino Task Force members, The Indonesian Institute of Sciences (LIPI), Bogor Agricultural University (IPB), WWF - Indonesia and ERA Team.

4. November 29th, 2010: YABI participate discussion and public consultation regarding the final draft revision of the Re-boundary Zones of Ujung Kulon NP which was held by Head of Ujung Kulon NP in Labuan - Banten Province. Result of this discussion is the signing of the MOU between all stakeholders of Ujung Kulon NP and submission of the recommendation to the Local Government of Banten Province.
5. November 30th, 2010: Executive Director of YABI participate the coordination meeting all stakeholders concerning law enforcement efforts on conservation of natural resources and their ecosystems 2010. Result of this event is signing of the MOU between the

Ministry of Forestry, Ministry of Transportation and Regional Police Department - Lampung Province.

6. December 2 - 3, 2010: YABI participate the Workshop Pilot Site Selection and Capacity Building concerning Indonesian forestry pre-project of Invasive Alien Species (IAS) including Langkap (*Arenga obtusifolia Blumme*) in Ujung Kulon NP and Mantangan (*Meremia peltata*) in Bukit Barisan Selatan NP, with the global project title "*Removing Barriers to Invasive Species Management in Production and Protection Forest in South East Asia*", this project has approval grant funding from GEF - UNEP. This workshop held by Research and Development Centre (Badan Litbang Kehutanan), Ministry of Forestry concerning to choosing the best areas for the project implemented.
7. December 10, 2010: YABI Board of Managements held one day discussion with Dr. Bibhab K. Talukdar, PhD as Asian Rhino Coordinator IRF YABI's final budget in 2011 and JRSCA program including JRSCA staff.
8. December 15 - 27, 2010: Prepared and obtained support letter from the Director of Import, Directorate General of International Trade - Ministry of Trade, Republic of Indonesia regarding supported exemption of import fees of the Medical Supplement "Equi-Phos" for Torgamba medicine that have been sent by Dr. Terry Roth from USA on December 8, 2010.
9. December 28, 2010: YABI with referrals from the Director Conservation and Biodiversity DG of PHKA, Ministry of Forestry facilitated discuss and socialize preparation of the Global Management Propagation Board (GMPB) meeting which will be held on Januari 14th, 2011 in Sabah - Malaysia.



Photos of discuss and socialize preparation of the GMPB meeting.

10. December, 2010: YABI Treasury and Finance staff Preparing the YABI Financial Auditing Report 2010.
11. January 6th, 2011: Participate to the final draft meeting of Re-boundaries Zones of Ujung Kulon NP, this meeting attended by the Head of DG of PHKA, Director Conservation and Biodiversity DG of PHKA, Officials and Head of Ujung Kulon NP and all stakeholders of Ujung Kulon NP.
12. January 10th, 2011: Reported and press release the Torgamba health update condition in Sumatran Rhino Sanctuary (SRS) - YABI to DG of PHKA, Director Conservation and Biodiversity DG of PHKA and to all of the YABI Board of Trustees and Advisory.

COMMUNICATION AND INFORMATION:

1. November 24, 2010: Communication and Information Manager of YABI participate the Society for Conservation Geospatial Information System (SCGIS) Workshop in Bogor. This workshop was held by SCGIS.
2. November - December 2010: Updating YABI website and Blog (<http://disekitarbadakkita.blogspot.com>).
3. November - December 2010: Design and launched pocket/guide book for RPU concerning development of JRSA in Ujung Kulon NP.
4. December 2010: Preparing Calender YABI 2011.

RESEARCH AND EDUCATION PROGRAMS:

1. November 4, 2010: Concerning the invitation from Sekolah Alam Bintaro - Jakarta, YABI held the "Indonesian Rhino goes to school program". Mr. Sectionov, Mr. Dadan D. Subrata and Ms. Kurnia Oktavia Khairani gave the presentation for 25 kindergarten students about all conservation efforts for the Javan and Sumatran rhino and gave a lessons why they are considered to be the most endangered animal in the world.



Photos of Rhino Goes to Sekolah Alam Bintaro - Jakarta and give presentation for 25 kindergaten students.

2. November 8, 2010: Education on rhino conservation and discuss concerning the Javan rhino program in Labuan, Banten - Province. YABI gave one session of lecture on Javan rhino conservation and its future program including development program of the Javan Rhino Study Conservation Area (JRSCA) in Ujung Kulon NP. This discussion was organized by the Head and official of Ujung Kulon NP and attended by totally 98 participants.
3. October - December, 2010: Completed a long process in obtaining CITES permit from the Directorate Conservation and Biodiversity - DG of PHKA, Indonesian Institute Science (LIPI) and Lampung Conservation Regional Office concerning export of the Sumatran rhino iron samples from Sumatran rhino Sanctuary (SRS) to the Cincinnati Zoo - USA.

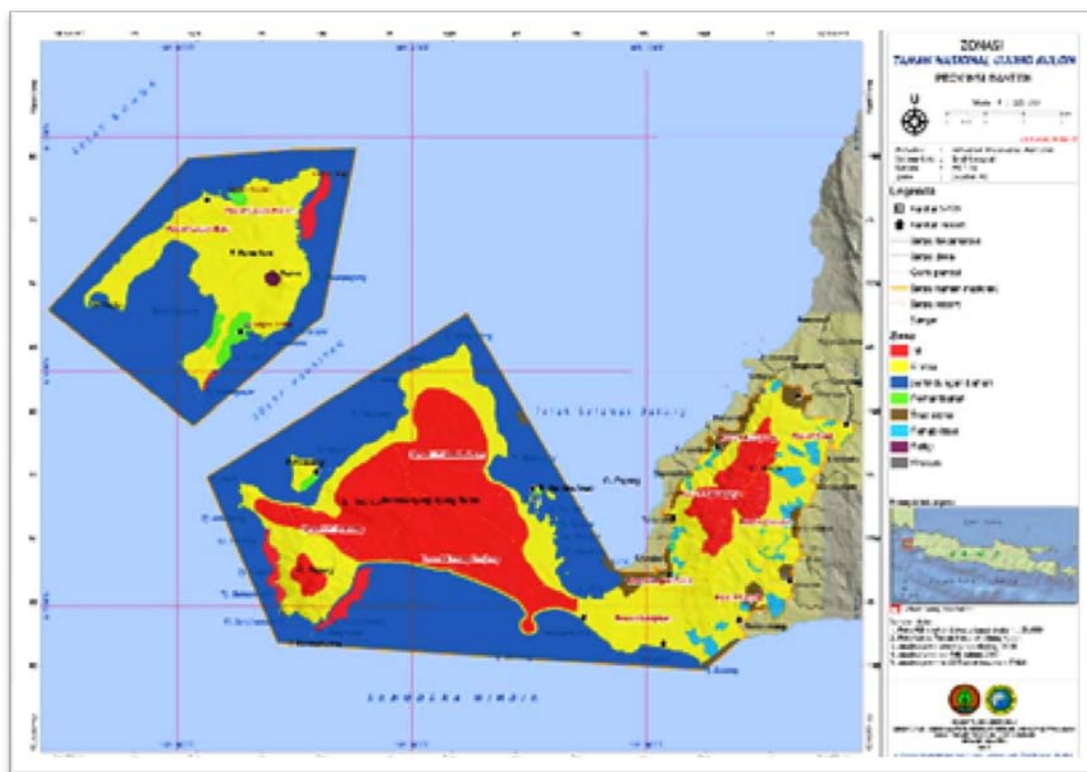
JAVAN RHINO CONSERVATION STUDI AREA (JRSCA) - UJUNG KULON NP:

JRSCA Progress Report October 2010 - January 2011:

1. October - January 2010: Developed the organization structure that includes staffing to run the JRSCA in Ujung Kulon NP. The JRSCA structure consists of YABI, Ujung Kulon NP, Banten Province, DG of PHKA - Ministry of forestry, IRF and WWF as expert and donors. Implementing trial of clearing for EWF tracks, socialization of the project to local stakeholders, planning of construction phase.
2. January 6th, 2011: The final draft revision of Re-boundaries Zones of Ujung Kulon NP was approved by the Head of DG of PHKA and Director Conservation Biodiversity DG of PHKA and Head of Ujung Kulon NP and all stakeholders of Ujung Kulon NP. This revision is urgently needed regarding for revision the status of core zone into wilderness to facilitate habitat management within which includes the location of the JRSCA - Ujung Kulon NP.

MAP OF THE FINAL DRAFT REVISION OF RE-BOUNDARIES ZONES UJUNG KULON NATIONAL PARK

Source Map by: Ujung Kulon National Park



Map Description:

- Core zone.
- Wilderness zone.

B. NEW PARTNERSHIPS/COLLABORATION & FUNDING OPPORTUNITIES:

1. October 4th, 2010: Arief Rubianto attended the Wildlife Conservation Expo on September 27th - October 4th, 2010 in San Francisco. This event Organized by Wildlife Conservation Expo (WCN) and fully supported by International Rhino Foundation (IRF), the expo was attended by some big donor/funding, volunteer and more than 19 well known conservationists from Africa, Asia, Europe and South America.



Photos of WCN Expo participants and Merchandise Both of Indonesian Rhinos.

C. IMPORTANT STAFF NEWS:

Mr. Mochamad Syamsudin and Yusep Herdiana as a Field staff of Rhino Protection Unit (RPU) - YABI, Ujung Kulon NP participated the MIST Training in GOPENG Resort Ipoh - Malaysia from January 10th - 15th, 2011.



Photos of MIST Training in GOPENG Resort, Ipoh - Malaysia.

SUMATRAN RHINO SANCTUARY - YABI, WAY KAMBAS NP



Picture by: SRS - YABI

HANG ON TORGAMBA..



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IRF PROGRAMS:**THE 4TH QUARTER REPORT OF SUMATRAN RHINO SANCTUARY (SRS) - YABI WAY KAMBAS NATIONAL PARK
OCTOBER - DECEMBER, 2010.****PROGRAM HIGHLIGHTS/ACCOMPLISHMENTS:****1. SUMATRAN RHINOS HEALTH CONDITION ON SRS**

General conditions of the Sumatran rhinos on SRS (October - December) are in healthy and good body conditions, Torgamba had been in stable conditions, with some dropped condition that happened on November 23rd and December 2010.

All of the rhino stalls have new shade structure in place to prevent eye problems and specifically for Torgamba (stall #1) has been provided with mat with rubber to prevent foot problem.

TORGAMBA:**General Conditions:**

Torgamba had been in a new "small - emergency boma" built for him on November 10th, new small boma (attachment) is very important to limit movement of because his condition that is not strong enough for daily activities in the old big boma. He has "steady" and stable condition until November 23rd where keepers keep providing normal hand feeding 3 times daily and a continued 2 cup of phosphorus supplement daily per oral. Since the health problem on July-August 2010 and keep him to small old boma, we managed his routine back to the stall for husbandry regularly.

- Phosphorus supplement addition was obtained with the assistance of DR. Terri Roth from USA.

Health Problems:

- In October: Torgamba has "steady" condition although not normal like other rhinos.
- In November 23rd - 24th: Keepers had difficulties to wake up Torgamba from wallowing and drive him back to the stall, his appetite has decreased in the stall although we prepared good browse and ad lib fruits. In general his food intake was still enough including drinking water.
- On November 25th: It was still difficult to drive him back and almost 2 hours walking in the new small boma. Clinical signs look a bit weakness, sleepy, lay down, decreased appetite, mastication problem and increased of body temperature (every 15 minutes checked 37.7, 37.6, 37.2, 37.1 °C and that is unusual for his normal body temperature around 36.5 °C). Found other specific sign of bleeding from his nose that not leech bite when activity in the forest but this case not by leech.
- On November 29th: 3 days later a big tick (*Amblyoma sp*) found falling down from his nose with a lot of bleeding and after that no blood found anymore. We keep him in the

stall for observation and collected blood sample at night, with the results of decreased anemia (RBC 3.05, HB 8.4 and PCV 24.1) and stable blood chemistry.

- From November 30th: Following better health and appetite condition and gave of antibiotic TMS and vitamins, Keepers released him back into the old small boma.
- In December: Condition of "Torgamba" was quite stable although sometimes with dropped condition. Current food intake was stable, despite increased consumption of fruits and a declined in leaves consumption.

Since the previous health problem on July 2010, his daily behavior depends on keepers especially hand feeding and he was like an animal in a zoo with a small area for living. At this stage, keepers function is very important in maintaining the old Sumatran rhinoceros Torgamba.

TORGAMBA HEALTH CONDITION UPDATE ON JANUARY 2011:

- In early of January, 2011: Torgamba appetite has decreased and very difficult to give feed even with hand feeding. Physically it seems normal but more walking and followed with a lay down position for a long time.
- In January 4th, 2011: During afternoon - night, had loss appetite including fruits and drinks with body temperature of 27.2 - 37.5 °C. At this stage hand feeding was only possible if mixed with banana and very rarely eats leaf without mixed with banana. Since then the procedure is continued.
- On January 5, 2010: Appetite getting worse and just 5 kg of food a day and with activity of more sleep (lay down). Blood results showed anemia, high WBC 12.200, ureum 29 and creatinin 6.0 (suffering kidney diseases).
- Results of blood analysis on January 2nd, 2011:
 Hematology : Anemia and indication of infection (high Leukocytes 12.200).
 Blood chemistry : Urea 29 (low) but creatinin 6.0 (high). Creatinine value can be an indicator of a disorder of the kidney/renal system.

Torgamba Intake Data on January 1st - 5th, 2011:

Intake	Feeding Record by Months (Kg)					
	December 2010	January 2011				
		1	2	3	4	5
Browse	19.7 - 27.5	19.9	16.2	17.7	11.6	3
Fruits	13.5 - 27	14	11.5	16	9.5	2
B + F	33.2 - 54.5	33.9	27.7	31.7	21.1	5
Drink	46 - 114 Liters	60	49	65	27	24

- Husbandry care was based on the latest condition on January 5th, 2011:
 1. Trying to prepare a fresh feed with high variation with banana.
 2. Trying to provide new types of fruits for variation.
 3. Trying to provide a variety of drinks (mixed electrolyte and minerals, salt water and fresh water) as much as possible.
 4. Providing vitamins and supplements.
 5. Antibiotics will be given if condition showing worse (NOTE: in patients with renal impairment drugs often do not work properly) and Blood test as often as possible.

- On January 7th - 8th, 2011: 30 Liters of IV fluids was given and AB TMS oral therapy, for the case at this time SRS team really need Dr. Benn Bryant to assist in managing Torgamba immediately and bring some medicine for Torgamba such as :
 1. Infusion set - big capacity.
 2. Butorpanol.
 3. Azaperon.
 4. Naltrexon.
 5. Electrolyte powder.
 6. AB certiofor (Naxel).
 7. Emergency medicine.

Torgamba Blood Test Parameter Result January, 2011:

Date	Body Temperature (°C)	Blood Parameter Result					Result Parameters & Condition Report
		BUN (mg/dl)	Creatinine (mg/dl)	PCV (%)	Hb (g/dl)	RBC (cells/ul)	
January 7	37.0 - 37.7	38	7.1	20.9	7.1	2.61 × 10 ⁶	Very low - Bad Anemia
January 9		32	7.0	19.1	6.7	2.47 × 10 ⁶	Worst Condition
January 12*			7.1	16.1	5.8	2.06 × 10 ⁶	

*) Chemistry (ureum 50, creatinin 8.8, bilirubin 0.7, CK 2087, LDH 1187).

- Husbandry care for Torgamba continued to be based on his latest condition on January 9th, 2011: At 10.30 PM ongoing intravenous fluids therapy (so far 25 L fluids) and about 20 L of fresh water per rectal administration. SRS staff always discussed with many expert in this case (DR. Deni and Dr. Nanta, Dr. Sugeng, etc) from Indonesia and (Dr. Benn, Dr. Robin, Dr. Steve, Dr, Scoot, DR. Terri, etc) from abroad.
- On January 10, 2010: Torgamba condition not too much change even just lay down position during IV fluids procedure. So far about 45 L fluids via IV infusion and every few hours given water per rectal. T/IV solution (natrium chloride, lactate ringer, aminovel, Vitamin ATP, AB certiofur) and Vitamin C injection.
- On January 10, 2010: At 1:30 Pm intravenous infusion was released after 24 hours procedure. The final stage was given antidote and looks good recovery, he looked a bit fresh for a few minutes and he lay down again on the floor with weakness condition. Stop infusion because of "*ascites*" (*accumulation of fluid in the abdominal*) and need to observe progress of post treatment. In general conditions was NOT IMPROVED and very bad prognosis, he still loss appetite and drink just a little.
T/50 L fluids given via IV infusion and every few hours given water per rectal. IV solution (Natrium chloride, Lactate ringer, Aminovel, Vitamin ATP, AB certiofur, Oxyglobin) and Vitamin C injection.
- On January 12, 2011: In general blood result shows that Torgamba does not have serious infection but more degenerative diseases with kidney compensation. The worst result so far was on January 11, when he totally did not or drinks. There was a slight improvement after infusion. Since January 12, Torgamba is given an IV fluid again that until the next morning has entered 25 liters. Because of difficulty in driving to the cute procedure was done at the concrete cage care like previously even it is more dangerous. In general it appears that there was a little bit of improvement, although not significant.

During the procedure Torgamba eats 5 Kg of leaves and 17 Liters of drink, urination and defecation are also there. Body temperature showed a normal range.

Pictures of the Torgamba Health Husbandry Care on January 2011:



ANDALAS:

General Conditions:

Andalas is in a good condition with good feeding and drinking during October - November 2010 except on post breeding after December 26th. He had low browse in the forest on October especially in the morning - afternoon and better browse at the night. Andalas blood results remain normal in October.

Health Problems:

Andalas's injury on October healed complete with daily care but after 26th December, Andalas looks a bit weakness because of head wounds. This serious wound was from a fight and hard courtships with 2 female rhinos (Bina) and (Ratu) during breeding program. Need times for healing process and recovery.

BINA:

General Conditions:

Bina is in good condition but have an intermittent problems with ocular cloudiness (*edema*) related to excessive exposure to UV radiation on October. She got head wound post breeding with Andalas on December 24th and 25th.

RATU

General Conditions:

Normal healthy female rhino and active in the forest.

ROSA

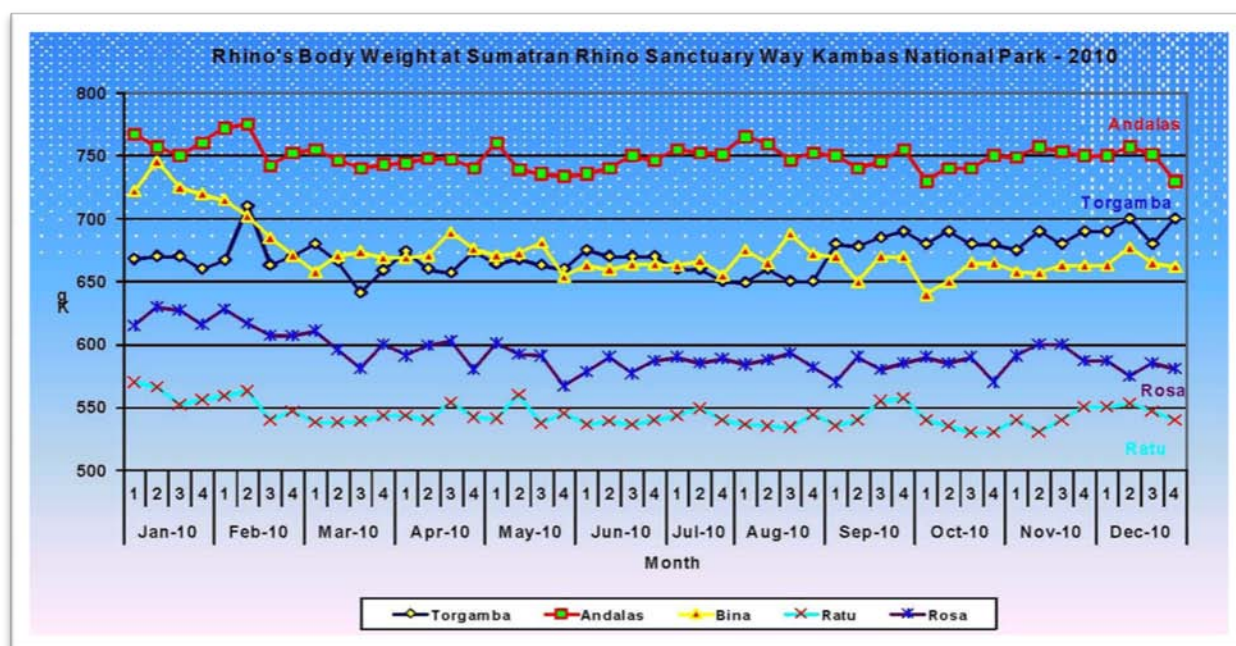
General Conditions:

Has been active in the forest, appears to be a mature adult female although she still is behaviorally unique in her adaptation to humans and other rhinos. On December 31st, she broke through the fence to move to another location, this is a bad character and should not become a habit. Solutions must be sought to prevent her escape through the fence again.

OTHER RHINOS HEALTH INFORMATION:

All Sumatran Rhinos Body Weight:

Regularly weekly weighing activity showed all Sumatran rhino's body weight were stable on 2010, has a bit of decreased in Bina, Rosa and Ratu on October. In early results seem high and then decreased in general, this is due to changes in the methods where rhinoceros weighing after their body is cleaned and before eating.



Blood collection on October - December 2010:

All Sumatran rhinos at the SRS have blood result steady for general but hematology a bit decreased in this month.

Hoof (foot) problem on October - December 2010:

All Sumatran rhinos at the SRS have good hoof and pad condition just found small holes, a bit eruption and black colour.

2. RESULT OF SUMATRAN RHINOS BREEDING PROGRAM (INTRODUCE & PAIR):

❖ ANDALAS AND RATU:

Month : October 2010.

Target/Priority : Ultrasound Exam Ratu for Pregnancy Monitoring.

Day	Date	Times	Location	Activities	Results
1.	Oct-13	-	Ratu's Stall	Ultrasound Examination	Ratu was not Pregnant and found follicles growth of 2 right ovary.
2.	Oct-18	Early Night	Ratu's Stall	Introduced Andalas & Ratu	Nice Response both of them.
		After 2 hours Introduced	Central Stall	Paired Andalas & Ratu	Looks better response, Andalas & Ratu show experienced breeding behavior & just a few fighting.
3.	Oct-19	02.30 Am	Central Stall	Breed of Andalas & Ratu	Andalas mounted 12 times with once intromission for 32 minutes.
		03.00 Am		Keepers failed collected semen post breeding	Andalas moved and tried to attack.
4.	Oct-20	-	Ratu's Stall	Ultrasound Examination	Ratu had ovulation confirmed on right ovary but follicle still there ⁽¹⁾ .

⁽¹⁾ Plan checks early pregnancy by ultrasound on November 5th - 6th (days 16 post breeding).



On October 19th, Keeper monitored closely on Andalas and Ratu breeding process.

Month : November 2010.

Target/Priority : Ratu USG Examination.

Problems : USG device is damaged and cannot save video from the USG - try to repair.

Day	Date	Times	Location	Activities	Results
1.	November 6	-	Ratu's Stall	Ultrasound Examination	Ratu was not pregnant (days 16 post breeding) and found one big follicle on right ovary.
2.	November 20	-	Ratu's Stall	Ultrasound Examination	Ratu had ovulation confirmed on right ovary but other follicle still there.
3.	November 25	-	Ratu's Stall	Ultrasound Examination	Found growth of follicle 16 mm on right ovary although still hemorrhagic follicle there.
		Afternoon	Central Stall	Introduced with Andalas	Looks nice responded but bad response on the other day.

Month : December 2010.
Target/Priority : Introduction Ratu Andalas.
Problems : Reproductive cycle of Ratu is unclear.

Day	Date	Times	Location	Activities	Results
1.	December 26	-	Ratu's Stall	Ultrasound Examination	Found 21 mm follicles slightly better but not in a good shape.
		-	Central Stall	Introduced with Andalas	Good response from Ratu but Andalas looked tired and lazy after 2 days of pairing with Bina.
2.	December 27	-	Ratu's Stall	Ultrasound Examination	Ratu has no ovulation confirmed and follicle growth to a big formation.



On December, Good response from Ratu during introduction, Andalas too tired & had head wound.

❖ ANDALAS AND BINA:

Month : October 2010.
Target/Priority : Introduced Bina and Andalas.

Day	Date	Times	Location	Activities	Results
1.	October 8		Central Stall	Introduced with Andalas	Bina turned her rear towards Andalas and often she climbed the bar, looked nice response to Andalas and indicated she is in estrous cycle and ready to breed.
2.	October 8			Paired with Andalas	Good response both of them with a bit hard courtships, Bina still kept distance and alert. Paired without mounting.
3.	October 9		Bina Stall	Separated with Andalas	Bina was found to have ovulated spontaneously on left ovary, this was an indication that she experienced estrus cycle yesterday.



On October, Bina showed signs of behavioral estrus & turning toward Andalas at the stall.

Month : December 2010.

Target/Priority : Introduced Bina and Andalas.

Day	Date	Times	Location	Activities	Results
1.	December 21		Bina Stall	Introduced with Andalas	Bina had a good follicle and showed good response, several times she turned and climbed the stall bar. Based on previous experience, climbing shows estrus behavior.
2.	December 22		Central Stall	Paired with Andalas	Andalas directly attacked Bina and a serious fighting/courtship had occurred.
					Andalas still attacked Bina and occurred serious fighting/courtship, Bina ran away and Andalas pursue for a long time.
3.	December 23 - 24		Central Stall	Paired with Andalas	The process was punctuated by entering Andalas into the stall for feeding while Bina approached again and look harmony there.
					No mounting in this period because Bina had still a little bit scared and alert after hard fighting/courtship, but they remained together for 2 nights in one location the first occasion happened to Bina and Andalas.
4.	December 25		Bina Stall	Ultrasound Examination	Bina ovulated without mating.



On December, Bina still showed good response for breeding with Andalas where Bina climbing the stall's bars for a few times, even though they experienced fighting/courtship and got serious head wounds post breeding.

❖ **ANDALAS AND ROSA:**

Month : October 2010.

Target/Priority : Introduced of Andalas and Rosa using feeding together Method.

Day	Date	Times	Location	Activities	Results
1.	October 26 - 30	Every Morning	Central Stall	Introduced Rosa with Andalas	Good response for general from Rosa, she not showed to escape like previously.
2.	October 30	Morning	Central Stall	Introduced Rosa with Andalas	Rosa showed signs of estrus with turn her rear towards and moving up her tail in front of Andalas's stall.
				Paired Rosa with Andalas	Rosa still scare and escape like previously.



Rosa showed moving up her tail in front of Andalas.

Month : December 2010.

Target/Priority : Introduced of Andalas and Rosa.

For general good introduction process of Andalas with Rosa. They were looked more interest, better response and has no aggressive through the stall, pairing in same location showed not too much changed than previously, Rosa still scared and kept distance from Andalas.

Annotation:

In November all females at the SRS has no obvious reproductive cycle, not good follicle is found. Based on experience of the previous years, it is normal that at one specific time there is not found female cycle.

Female reproductive status on November:

- ❖ Found a big follicle (cyst follicle) on right ovary of Ratu but not good growth (follicle not mature). Several times Ratu and Andalas were introduce in the central stall with fairly good results even though there are some days where the response was not good. An enlarge follicle (cyst follicle?) affects Ratu's cycle this month.
- ❖ Just found a small follicle in Bina.
- ❖ There are actually a growing follicle in Rosa, especially at the end of November but difficult to bring her to central area because she had been very active in the forest. Few times were tried to driver her to central area but failed. Follicle has enlarged at the end of November (cyst follicle).

3. SRS FACILITIES REPORT ON OCTOBER - DECEMBER 2010:

I. Routine SRS Facilities Maintenance on October - December 2010:

No.	Facilities	Units	Condition			Activities
			Oct	Nov	Dec	
A.	Vehicles:					
	1. Isuzu Phanter (Pick - up)	1	Good	Good	Good	
	2. Isuzu Phanter (Touring)	1	Good	Good	Good	
	3. Ford Ranger (4WD)	1	Good	Good	Good	Replace tires on November
B.	Bobcat	1	Good	Good	Good	
C.	Motorcycles:					
	1. Honda GL Max 2005	1	Good	Good	Good	
	2. Honda Mega Pro 2010	1	Good	Good	Good	
	3. Honda Mega Pro 2010	1	Good	Good	Good	
D.	Mountain Bicycles	14	Good	Good	Good	
E.	Generation Machines:					
	1. Genset MWM 40 Kva	1	Good	Service	Good	Out of service in November
	2. Genset Kubota 20 Kva	1	Good	Good	Good	
	3. Genset Kubota 8 Kva	1	Good	Good	Good	
F.	Cleaning Equipments:					
	1. Chain Saw	2	Good	Good	Good	
	2. Cutting Grass Machine	3	Good	Good	Good	
G.	Radio Communication:					
	1. Radio Rig Alinco	2	Good	Good	Good	
	2. Radio HT	15	Good	Good	Good	
	3. Repeater Motorola	1	Good	Good	Good	
H.	Electric Fences					
	Energizer	2	Good	Good	Good	
I.	Fences and Stall					
	1. Fences all Around SRS	4 Km	Good	Good	Good	
	2. Stall for Rhino (6 x 8) mtrs	6	Good	Good	Good	Re-painting on October.
	3. Fences for inside border	10	Good	Good	Good	
J.	Building Facilities:					
	1. Main Building	1	Good	Good	Good	Re-painting on Oct - Nov.
	2. Mess Building for Staff	1	Good	Good	Good	Re-painting on Nov - Dec.
	3. Diesel Room & Car Garage	1	Good	Good	Good	Re-painting on December.
	4. Visitor Center	1	Good	Good	Good	
	5. Pos Guard	1	Good	Good	Good	
	6. Mosque/Musholla	1	Good	Good	Good	
K.	Water Pump					
	1. Artesis Well (3kva)	1	Good	Good	Good	
	2. Pompa Dorong (5kva)	2	Good	Good	Good	
	3. Pompa Dorong (1kva)	1	Good	Good	Good	
L.	All Furniture Equipments	Packet	Poor	Poor	Poor	Need Services and Re-newing.

II. Working SRS Facilities which has been done on October - December 2010:

No.	Activities	Realization		
		Oct	Nov	Dec
A.	Routine of Facilities Maintenance	V	V	V
B.	Security & Patrol Program in SRS:			
	1.Security on site SRS assisted by 5 (five) Rangers from Way Kambas NP, one person during the day duty and two person during the night duty.	V	V	V
	2.Every night Torgamba is taken care of by 2 (two) keepers and assisted by one permanent daily worker.	V	V	V
	3.Routine patroli outside SRS areas in range 500 - 1000 meters from SRS by Rangers from Way Kambas NP & SRS staff. Result of Patroli outside SRS areas are: ❖ Found 6 dead birds and 3 active bird netting on a large tree with a radius of 400 meters from the cage of Torgamba. ❖ Got an information from Ranger of Way Kambas NP, This evidence shows that there is an indication poaching activities in areas around SRS facilities.	V	V	V
C.	Rhino Fences Maintenance:			
	1.Repaired the fence partition of Rosa stall (4A) with total length of 295 meters. This activities making the Rosa cage have a distance almost 150 meters from the central stall, this setting condition is expected that Rosa voice does not interfere activities of Andalas with other female rhino when they were combined in the central stall.	V		
	2.Improved Bina paddock (K2).	V		
	3.Constructed a "Small Boma" for Torgamba Husbandry Care (K1) with total area of 2500 Meters square.	V	V	
D.	Management Facilities Maintenance:			
	1.Replacing the roof of the 5 units Shelter.	V	V	
	2.Replace the radiator hose Genset 20 KVA KUBOTA.	V	V	

4. OTHERS PROGRAM IN SRS - YABI ON OCTOBER - DECEMBER 2010:

TORGAMBA “BOMA” MANAGEMENT FOR HUSBANDRY CARE ON OCTOBER:

The condition of old male Sumatran rhino "Torgamba" in SRS - YABI improved and almost recovered after experiencing severe health problems. The result of discussions with various expert and dedication SRS - YABI in maintaining maximum husbandry care for Torgamba produced two options or scenarios. **First scenarios** if Torgamba survive and we will do maximum effort, including health, food and location “Boma” and **second scenario** if not survive will an efforts detailed necropsy including gamete rescue.

Torgamba has been in good condition although he is not quite normal like the other rhinos, looking happy and no problems with health care except for one thing that is limitation of the location, this time he was in a “small Boma” location that had been over used with very deep wallow. This condition can worsen his health. The result of analysis of veterinarian and keepers directs that Torgamba is not ready to be released to a location that is more extensive (broad). Until when Torgamba can be released to a more spacious Boma nobody knows and we will monitor intensively any time.

Breeding program is not a priority anymore for Torgamba, maximum utilization is necessary also to produce something for the SRS. Especially use for tourism (source of donations) when his condition is not in a state of emergency and as a source of information data on the Sumatran rhinoceros for general. Based on the above we try to provide solution for maintenance Torgamba in the near future (short term).

TO MAKE A SPECIAL LOCATION - “A SMALL BOMA”:

Rationale: Torgamba is not recommended to a broad location (big Boma), the most important thing is to make him happy and enjoy and can still be seen for tourism.

Concept: Make few small Boma to the right stall/cage Boma location 1 (K1), can be 3 or 4 locations that all have access to the stall K1. This location will be used interchangeably (on rotation) every month small boma that is not in use be rehabilitated with re-planting and fresh soil shall be put in from outside locations.

Size: Approximately 0.5 ha with access door to stall that already exist K1 and for the sake of viewing (ecotourism) may need to be made canopy trail construction/simple bridge connecting from platform (observation hut tour K1) to the boma location, so tourists can see Torgamba at least when wallowing.

Construction: semi-permanent

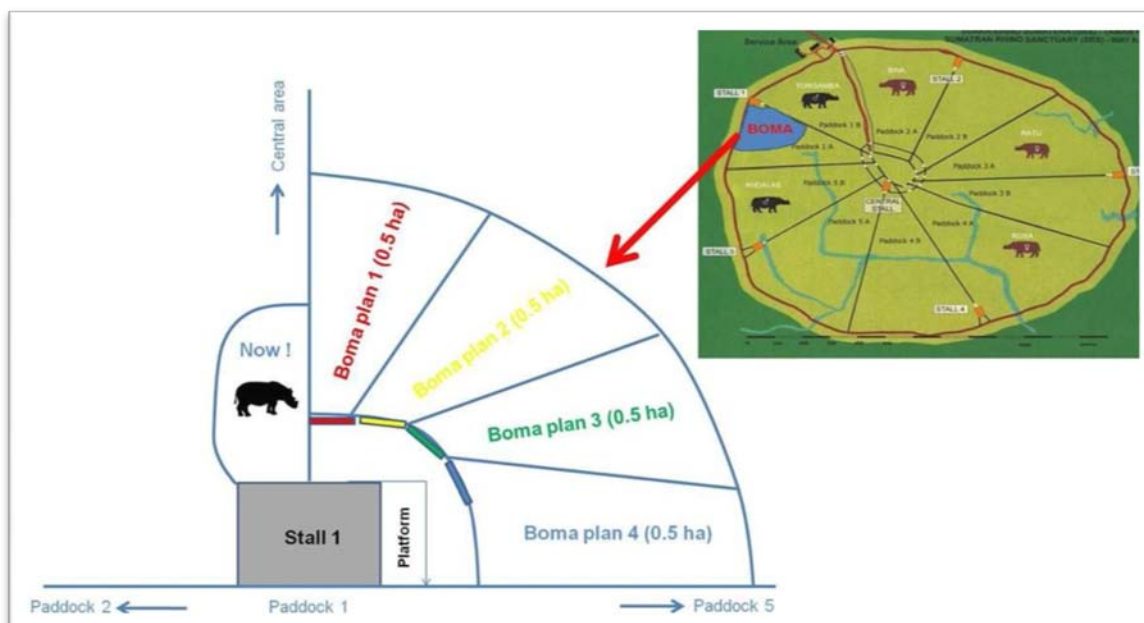
Materials: Utilizing materials from the site left Boma K1 which is large and is not used anymore because it is too broad this is to minimize material that need to be purchased.

Target: for urgent time (soon-1 week) at the least, one new small Boma shall be constructed for rotation from the current location of location (attached).

Long term: will be discussed later, depend on Torgamba condition.



Small Boma: Torgamba in the wallow, a top the wallow a shade is given.



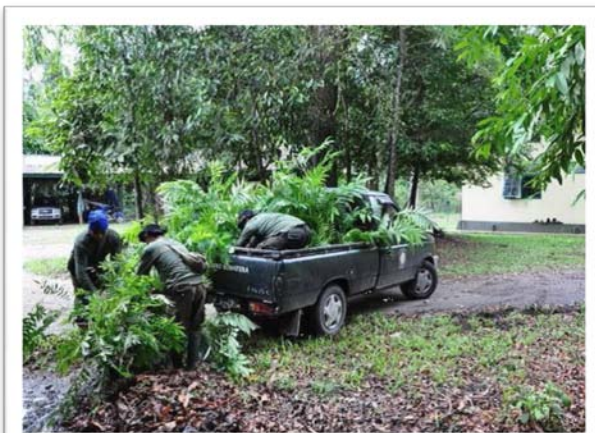
Torgamba "Boma" Management for maximal husbandry care plan

RE-PLANTING PROGRAM ON OCTOBER:

Boma location for Torgamba in paddock 1 is already damaged because of over used habitat rehabilitation to the site is done by re-planting with rhino food plants. Seedlings are planted from nursery created by SRS staff. Focus of this rehabilitation is to make the habitat more fresh and lush with original plant from Way Kambas forest. There are several species of plants for planting because easiness to grow in different types of forest habitat. We have planted 2.000 seedlings at this time done by all SRS staff.



Nursery Activities.



Transportation nursery plant to re-planting location by car.



Re-planting activities in the paddock 1 (Torgamba's boma).

5. NEW PARTNERSHIPS/COLLABORATION & FUNDING OPPORTUNITIES:

VISITING GUEST/TOURIST/ETC:

- ❖ On October: The wife of Director General of Protection and Nature Conservation (PHKA), PHKA staff and Director of Way Kambas National Park visited the SRS. Their activities were: Visited SRS visitor center, received presentation about SRS program, visited to SRS locations (rhino's cage) and Planting trees in front of SRS office.



Wife of DG of PHKA and staff accompany with Director of Way Kambas NP visited to SRS.

- ❖ On November 21, 2010: 50 Students from Lampung University (UNILA) visited SRS Way Kambas National Park. Their activities were: SRS's vet gave a short presentation about SRS program in the visitor center, visited SRS location (rhino's cage) and discussion about animal care.
- ❖ On November 28 - 29, 2010: Participants of senior training course of PHKA from around Indonesia visited to SRS to learn our activities.

COLLABORATION:

- ❖ SRS's veterinarian (drh. Dedi Candra) participated the Indonesian Veterinary Medical Association congress, international conference and exhibition (KIVNAS 2010) in Semarang Indonesia on October 10th - 13th.



Scientific journal workshop (left) and Poster presentation (right).

6. PROBLEMS:

- ❖ New ultrasound recording device is damaged and now can't save video from the ultrasound machine.

❖ **Reproduction program problem:**

Andalas:

Experienced development in breeding behavior, successful in full breeding with Ratu on November 2009 and continued development in sexual activities. Hence, so far is only with Ratu more time is needed for better experience since he is a potential young bull.

Torgamba:

With the actual condition, Torgamba is only being focused to keep females on a regular cycle. Since got health problem and old, he never breeds with female during 2010.

Plan

❖ **Prepare Liquid Nitrogen container for bank semen at SRS.**

Liquid Nitrogen (5 L) has ready anytime. We are collaborating with a local insemination technician (Inseminator around Way Kambas).

❖ **Drying rhino fecal samples**

Collected rhino fecal samples regularly at the SRS and since there is in freezer no space anymore. As discuss with DR. Terri, the samples are dried with oven at the SRS and stored in zip lock bags at room temperature, awaiting for hormone metabolites analyzes at a later date (as we did with Andalas's and Torgamba's samples previously).

The important things to ensure are:

- ❖ Completely dried before placing it in a bag (zips lock seals and does not allow the air's moisture to leak into the sample).
- ❖ Larger zip-lock to ensure humidity does not get to the samples, and store them at room temperature.
- ❖ Need more discussion with YABI and IRF for analysis these samples.

❖ **Tourism program**

To keep a focus on the breeding program and reduce possible disruption to the staff we suggest limiting visitor access to the first two pens (Torgamba (paddock 1) and Bina (paddock 2)) that are readily accessible recommended for viewing.

7. REFERENCES/NEW PUBLICATIONS:

❖ NEW PUBLICATIONS

PAPERS ORAL OF SRS PRESENTATION ON KIVNAS 2010:

1. Hematology and Serum Biochemistry of Sumatran Rhinoceros (*Dicerorhinus sumatrensis*) in Way Kambas National Park, Indonesia on October 2010.
2. Reproductive potential of Sumatran Rhinoceros (*Dicerorhinus sumatrensis*) "Ratu and Andalas" at the Sumatran Rhino Sanctuary, Way Kambas National Park, Indonesia on October 2010.

PAPERS POSTER PRESENTATION ON KIVNAS 2010:

1. Cerositis and laminitis following fungicide exposure in a Sumatran Rhinoceros (*Dicerorhinus sumatrensis*) in Way Kambas National Park, Indonesia.
2. Diseases of the Sumatran rhino (*Dicerorhinus sumatrensis*) Torgamba at the Sumatran rhino sanctuary at Way Kambas National Park, Indonesia.

❖ REFERENCES

1. SRS Monthly Report, October 2010 by Drh. Dedi Candra and Drh. Andriansyah.
2. SRS Monthly Report, November 2010 by Drh. Dedi Candra and Drh. Andriansyah.
3. SRS Monthly Report, December 2010 by Drh. Dedi Candra and Drh. Andriansyah.
4. SRS Update Report of Torgamba Health Condition on November - December 2010.
5. SRS Update Report of Torgamba Health Condition on January 2011
6. SRS Facilities Report (October - December, 2010) by Mr. Sumadi Hasmaran.
7. SRS Daily Report (October - December, 2010).

RHINO PROTECTION UNIT (RPU) ACTIVITIES & PERFORMANCE REPORT BUKIT BARISAN SELATAN NP, WAY KAMBAAS NP & UJUNG KULON NP



PATROLS OF HOPE..

All Photo by: RPU - YABI

PREPARED BY: M. WALADI ISNAN

COMPILES BY:

M. SYAMSUDIN & YANKY AGUNG W

REVIEWED BY: WIDODO S. RAMONO



PROJECT TITLE : PROTECTION PROGRAM OF
YAYASAN BADAK INDONESIA

Reporting Period: 1 October - 31 December 2010

Name and Address of Grantee:

1. **International Rhino Foundation (IRF)**
Executive Director, International Rhino Foundation
138 Strasburg Reservoir Road
Strasburg, VA 22657
Tel/fax: 540-465-9595
Email: s.ellis@rhinos-irf.org

Authorship:

Reporting provided by Protection Manager (Mr. M. Waladi Isnani). Material and information gathered from field report and associated document.

Executive Summary:

The decline of Sumatran and Javan rhino has been in process for a long time. The Javan rhino for example was eliminated from Malaysia in the 1930's. Meanwhile, following the Sumatran rhino PHVA (1993) indicated that the decline of Sumatran rhino probably 50% during the last decade. The total population of Sumatran rhino in Indonesia is estimated only 215 – 319 and will be extinct for the next decade if there are no appropriate and serious management. (Strategy and Action Plan for the Conservation of Rhinos in Indonesia 2007 – 2017). Rhino decline in South East Asia is due to a combination of reduction in habitat and overexploitation of rhino (most recently by poachers after the horn). At this time, poaching pressure continues to be high in Indonesia, hence there is a strong need of this country to emphasize anti-poaching activities. To this the rhino protection program of Yayasan Badak Indonesia (YABI) is activated to answer the need. Rhinoceros is subject to poaching pressure both from hunters and from trappers, they use wire snares and other traps that maims to kill animals. The method employed in poaching prevention are primarily in forms of field patrols to search for traps and other signs of poaching attempt, to destroy these traps, and to collect evidence to identify and apprehend the suspects involved. While in support to field patrol intelligence activities is operated to assist in the apprehension of poachers and identify the routes of illegal trade of protected animal parts (horn, skin, hooves etc.).

The Indonesian Rhino Protection Program of YABI integrates partners of governmental and non-governmental namely Directorate General of Forest Protection and Nature Conservation of the Ministry of Forestry, International Rhino Foundation and World Wide Fund for Nature as well as local villager . The program entails series of approaches that includes: wild population protection by intensive patrolling of areas to detect traps and arrest intruders, more intensive and extensive surveys and monitoring of the rhino population and intelligence operations to assist in the apprehension of poachers and identify of routes used for the horn trade and establishment of rhino database system

using the Geographic Information System (GIS) techniques.

The Indonesian Rhino Conservation Program (that was originated from GEF Project and that is now has merged into YABI) and this Rhino Protection Program of YABI fully understood that the program very costly. But, it is important to bring an understanding the operation of Rhino Protection Units (RPU) backed-up by Intelligence and Law Enforcement Unit (ILEU) is the most effective measure in protection of rhinos in the wild. Therefore it is important to develop a simultaneously funding plan for sustainability of rhino conservation program.

Introduction

The decline of both species of rhinoceros, Sumatran and Javan, has been in process for a long time. The population of Sumatran rhino have been reduced to 50% in the last decade and will be extinct for the next decade if there are no serious and appropriate management of rhino. Its decline in range and number in Sumatra is attributed chiefly to fragmentation of its habitat through indiscriminate forest clearance and to poaching, stimulated by the illegal trade in horns, hides and hooves, and other parts of rhino's body.

A population and Habitat Analysis conducted in November 1993 in conjunction with the IUCN SSC and its Conservation Breeding Specialist Group (CBSG) and the AsRSG revealed a significant decline in the numbers of Sumatran rhino in Indonesia. The estimates that emerged from the new data and more rigorous assessment was around 200 (215 – 319). Meanwhile, the previous estimate had been 420 – 875. The GEF project RPU YABI estimates that until June 1998 the presence the population of Sumatran rhino in Kerinci Seblat National Park 27 – 32, Bukit Barisan Selatan National Park 40. - 50, and Way Kambas National Park 24 - 30

Although the Javan rhino population in Ujung Kulon National Park seems to be holding at about 50 –60, yet the threat of poaching still remains. The loss of rhino has become a matter of global concern. In 1994, at least one rhino was poached in Ujung Kulon and a suspect has been identified but no prosecution has in progress at that time. Although rhino poaching evidence and attempt was not found during this quarter, poaching of other wildlife such as deer, birds, langusts/lobster and other marine products were still occurring.

Saving the remaining rhino population needs further alternatives. There should be series of efforts to protect the remaining population by activating rhino patrol and strengthening its anti-poaching activities, until poacher activity and habitat destruction is reduced to the point of elimination.

The Protection Program of YABI provides protection from poaching and habitat disturbance for viable nucleus populations of Sumatran and Javan Rhinos through the establishment and operation of Rhino Protection Units, and supporting management, coordination and supervisory structures. Formerly, YABI had been operated 17 Rhino Protection Units (RPU) until middle of 2009, while due to shortage of funding in this

quarter, only 16 RPUs continued their operation in and surrounding areas of Bukit Barisan Selatan (7 RPUs), Way Kambas (5 RPUs) and Ujung Kulon (4 RPUs) National Parks.

Objectives

The objective of the Program is to contribute to the long-term viable conservation and management of Indonesian rhinos (the Javan rhino – *Rhinoceros sondaicus*, and the Sumatran rhino – *Dicerorhinus sumatrensis*) and their habitats in Java and Sumatra.

The Indonesian Rhino Protection Program of YABI itself addressed to enhance the capabilities of the Directorate General of Protection and Nature Conservation and associated wildlife agencies to arrest and reverse the decline of rhinoceros due to poacher activity and habitat disturbance toward the national and global goal of recovery of viable populations of rhino species in Indonesia.

Output

1. Establishment and operate of at least 16 Rhino Protection Units (RPUs) in Sumatra and Java.
2. Establishment and operate Intelligence and Law Enforcement Unit (ILEU) to support law enforcement process which is undertaken by RPU and Park authority or proceed to identify information of threats from ILEU's informants for further judicial process.
3. Community facilitation for better livelihood and to reduce threats from surrounding community.

Changes: -

Progress:

The Rhino Protection Program of YABI provides protection from poaching and habitat disturbance for viable nucleus populations of Sumatran and Javan Rhinos through the establishment and operation of Rhino Protection Units (RPUs), and supporting management, coordination and supervisory structures. The outcome of operations of 7 RPUs in Bukit Barisan Selatan National Park (BBS NP), 5 RPUs in Way Kambas National Park (WK NP) and 4 RPUs in Ujung Kulon National Park (UK NP) is reported as seen in Annex 1. (*RPUs Activities Report Period October - December 2010.*), as per attached.

During the implementation of surveys and patrols the RPU/RMPU achieved numbers of surveys, distance walked and duration of time they have consumed in every each of their activities. The Team also encountered many cases of illegal activities in the National Parks and the rhino conservation areas, into which prosecution had been made through filing the cases and hand over the cases to local Police Stations

The achievements of the Protection Program for this period October - December 2010 is described below in *Annex 1*.

Records on illegal killing of animals and other forest offenses detected by both RPUs

(BBS, WK and UK) and ILEU is shown in *Annex 2*.

The field days per month of RPU's personnel is shown in Annex-1.

Intelligence and Law Enforcement Unit (ILEU) has been operating to identify the threats which come from surrounding people or outside of the Park; its operations also covers identifying possible facilitations for raising local's alternative income in order to reduce threats to the park and its rhinos. There are only 3 personnels in this unit that have to work in collaboration with informants, RPUs, Park Rangers and Police, in the case that they have a confirmed case and have to apprehend the suspect/s for further law enforcement efforts. Although ILEU's base operation is in BBS and surroundings, they also available to assist ILEU operation in both WK and UK NPs.

ILEU's findings of their activities, together with RPU BBS findings, is reported in Annex-2,

In this Q4 period, RPU BBS performed fielddays per person per month 15.39, it was lower than in Q3 (17.43). But, in this periode they detected higher number of independent rhino signs (202) compare with in the Q3 (32). Also, detected higher illegal activities (52 cases) compare with in the Q3 (7).

RPU WK, in Q4 performed higher fielddays per person per month (16.50) compare with in Q3 (15.28), and higher detected independent rhino signs (137) compare with in Q3 (49), also for detecting illegal activities in Q4 (37) was higher, compare with in Q3(30).

In UK, RPU in this period performed 21, lower than before (21,67). Detected 83 independent rhino signs (previous period 186) and 5 cases (previous period 1 case).

BBS performed the lowest field day per person 15.39 if ti is compared with WK (16.50) and UK (21.00), although they performed the highest number of patrol (22), if compare with WK (!5) and UK (12). Also, BBS detected the highest number of independent rhino sign (202) compare with WK (137) and UK (65), and the highest cases detected (52) compare with WK (37) and UK (5).

The RPU BBS in this Q4 has involved in the 3 elephant conflict handling, which cause disturbance of some encroached areas. When they involved in the conflict in Pal 50 (27 – 30 November 2010), they have detected a birth of young elephant.

Conclusions and Recommendation:

In this period, the average number of field days per month of every person of RPU in BBS and WK has less than the Program required of 20 days/month.

RPU UK achieved 21.00, walked 513.79 km (previously 514.09 km in Q1, 499.78 in Q2 and 558.27 in Q3).

RPU WK achieved 16.50 (compare with previous Q1 was 18.04, Q2 was 17.51 and Q3 was 15.28) as the result of only 15 of all their 53 activities were patrols / surveys, while their other activities were involvement in collaborative operation to remove encroachment, drive elephant, trainings. Distance walked for patrol and survey was 382.70 Km (compare with previously in Q1 was 264.2 km, Q2 was 351.6 Km and Q3 was 191.3 Km).

RPU BBS has achieved 15.39 lower than previous Q1 17.48, Q2 was 16.89 and Q3 was 17.43, from their 22 patrols/surveys activities of all their 42 activities. Distance walked for patrol and survey was 558.2 Km (compare with previous Q1 was 1.206.5, Q2 was 766.5 Km and Q3 was 558.2 Km). The other activities were their involvement in collaborative operation to remove encroachments and investigations of cases and in wildlife-human conflict resolutions (elephant conflicts).

There was no direct sighting of rhino in BBS, WK and UK, and especially for BBS, the RPU encountered a large number of rhino signs (181 footprints and 21 of other signs).

Based on the patrol and survey in Ujung Kulon, signs of fishing (5 cases) detected. There was a serious threats that had been anticipated by RPU together with Park Authority.

While in WK, 16 traditional deer poaching and 11 cases of encroachments activities mostly encountered. The RPU detected some domesticated water buffalo grazed in the area which rhino (and other big mammals) signs detected. It could be a serious threat for transferring buffalo disease to big mammals in the forest.

This should be a serious concern from the Park Administration and RPU.

In BBS, mostly illegal activities encountered by RPU was non mammals poaching (fishing and bird trapping) when they undertook patrol / survey. Meanwhile the Program must help to keep an eye and be aware of the abandoned encroachment areas in Way Kambas and Bukit Barisan Selatan from which people will usually do poaching on this or its adjacent area. Further, wildlife trade indications in both surrounding areas of WK and BBS are still occurring.

The Program had found many rhino footprints in this period but it can not be utilized to determine the number of rhino population. It still need to be analyzed with more sophisticated methods.

YAYASAN BADAK INDONESIA - YABI

Rhino Foundation of Indonesia - RFI



ANNEX-1:

QUARTERLY ACTIVITY AND PERFORMANCE REPORT

**1 OCTOBER - 31 DECEMBER 2010
(Q4)**

BUKIT BARISAN SELATAN NATIONAL PARK

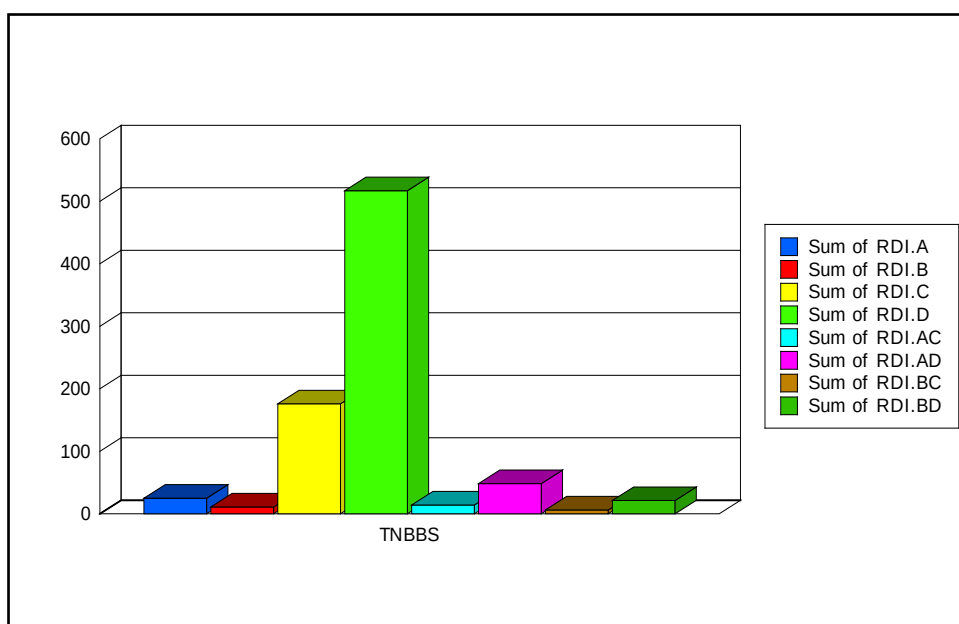
BASIC POPULATION PARAMETERS

Number of Footprints	Number of Locations with rhino signs					
	Footprints	Wallows	Feces	Feeding	Other Signs*	Direct Sighting
109	181	10	4	4	3	0

* Include Urine, Scratches, Rubbings, etc.

During the 22 patrols/surveys in this period, 202 independent signs of rhino were encountered but no direct sighting

RHINO DENSITY INDICATORS



Rhino		RPU Field Presence		Density Indicators			
A	B*	C	D	A/C	A/D	B/C	B/D
Number of print locations	Number of Rhino Signs*	Field Days**	Distance Walked***	Rhino prints/ 100 days	Rhino prints/ 1000 km	Rhino signs/ 100 days	Rhino signs/ 1000 km
109	21	183	558,0	59,56	195,34	11,48	37,63

(B*) The total number of sign (excluding footprints) of rhino found. ** Total number of RPU group field days during surveys only (excluding other activities). *** Total number of range in kilometer covered by RPU group during surveys activity.

ILLEGAL ACTIVITIES ENCOUNTERED

Gaharu * Theft	Encroachment	Timber Theft	Forest Product Theft	Illegal Hunting		
				Rhino / Trap	Non Rhino (Mammals)	Other
1	16	3	1	0	3	28

^o Gaharu a component for incense) theft is listed separately, because it is a major threat in any forest in Indonesia

In BBS, during the surveys and patrols a total of 52 cases of illegal activities were detected. The major cases encountered were bird trapping in the Southern part of NP, then 16 old encroachments. **No trap of rhino** encountered.

Record of cases as per attached in **Annex - 2**, which includes: date of incidence, date of detection, type of offences, place of occurrence, evidence (forest/wildlife produces recovered, Arms/other evidence, suspects, legal status and comments).

ENCOUNTERED ANIMALS

Patrol Area	√ = encountered					
	Rhino	Elephant	Tiger	Tapir	Other Mammal	Offences
SP3, Way mendati, Krengseng, Hulu way rilau dan sekitarnya	√	√	√	√	√	√
Pall 50, Jalan lintas bengkurat, Way Nipah, dan Peninggeman.						
Kubu perahu, Hulu way menterang, Hulu way tenumbang dsknya	√		√	√		√
Pemerihan, Kuyung arang						
Panji wayang, Bambu kuning, way ngambur, camnp cabe dsknya		√		√		
Gisting, kotaagung						
Kotaagung dsknya						
Panji wayang, Hulu way ngambur, Kubu kulit, way mendati dsknya	√	√	√	√		
Kupang hulu, way handap, siring huong, way ngambur pangkalan dsknya			√	√		√
Kubu perahu, hulu way krui, hulu way tenumbang dan sekitarnya		√	√	√		
Krui, Pahmongan, hulu mahnay balak, way krui dan sekitarnya			√	√		
Ujung Pandang, Blok VI, Hulu way pinta dsk	√	√	√	√		√
Panji Wayang, Hulu way ngambur bundik, Hulu way ngambur pangkalan dsk	√	√	√			√
Bunuk, Way ngambur pangkalan, Panji Wayang dsk	√	√	√	√		√

Pal 50, Pemerihan, Pasar minggu dsk						
Way nipah, Penyantun, Pedamaran dsk						
SP 3, Mendati, Way mendati, Anak way ngambur, Hulu way mendati, Suka marga, Suoh dsk	✓	✓	✓	✓		✓
Peninggeman, Hulu anak way cangkuk, Hulu anak way pemerihan, Way cangkuk, Cawang haro, Way pemerihan dsk						
SP 3, Mendati, Pg.Kuyung, Hulu way rilau dsk	✓	✓	✓			✓
Panji Wayang, Way ngambur bundik, Hulu way telema dsk	✓	✓	✓			✓
Pal 50, Tlg.25, Plisihan, Tlg.banyu urip		✓	✓	✓		
Pal 50, Tlg.imam, km.21 dsk		✓	✓	✓		
Panji Wayang, Panama, Hulu way ngambur pangkalan, Hulu way ngambur bunuk dsk	✓					
Mendati, Krengseng, Pg.kuyung, Hulu way rilau dsk	✓	✓	✓	✓	✓	✓
Kubu perahu, Hulu way menterang, Hulu way tenumbang dsknya	✓	✓	✓	✓		
Panji Wayang, Way ngambur dsknya	✓	✓	✓	✓		
Jalan lintas bengkumat, Hulu way bamban, Pemerihan dsknya	✓	✓	✓	✓		
Sumbersari, Pekon sumberejo, Kec.bengkumat-belimbing						
Panji Wayang, Ngambur dsknya	✓	✓	✓	✓		
Way Handop, Siring huong 1, Siring huong 2 dan 3, Hulu way ngambur pangkalan, Hulu way ngambur bundik dsknya	✓	✓	✓	✓		
Rata Agung, Bidang I Liwa.						
Pal 50 dan sekitarnya		✓	✓			
Sumbersari, Pekon sumberejo, Kec.bengkumat-belimbing						
Sumbersari, Pekon sumberejo, Kec.bengkumat-belimbing						
Metro, Bandar lampung, Lampung timur dsknya						
Bumi perkemahan kubu perahu						

DETAILS OF RHINO SIGNS

Patrol Area	Footprints	Direct Sighting	Wallow	Feeding	Dung	Other Signs
SP3, Way mendati, Krengseng, Hulu way rilau dan sekitarnya	1	0	0	0	0	0
Kubu perahu, Hulu way menterang, Hulu way tenumbang dsknya	4	0	0	0	0	0
Panji wayang, Bambu kuning, way ngambur, camnp cabe dsknya	0	0	0	0	0	0
Panji wayang, Hulu way ngambur, Kubu kulit, way mendati dsknya	20	0	1	1	1	2
Kupang hulu, way handap, siring huong, way ngambur pangkalan dsknya	0	0	0	0	0	0
Kubu perahu, hulu way krui, hulu way tenumbang dan sekitarnya	0	0	0	0	0	0
Krui, Pahmongan, hulu mahnay balak, way krui dan sekitarnya	0	0	0	0	0	0
Ujung Pandang, Blok VI, Hulu way pinta dsk	0	0	1	0	0	0
Panji Wayang, Hulu way ngambur bundik, Hulu way ngambur pangkalan dsk	2	0	0	0	0	0
Bunuk, Way ngambur pangkalan, Panji Wayang dsk	6	0	0	0	0	0
Kubu Perahu, Way tenumbang, Hulu way mahnay balak, Pahmongan dsk	10	0	2	0	0	0
SP 3, Mendati, Way mendati, Anak way ngambur, Hulu way mendati, Suka marga, Suoh dsk	4	0	0	0	1	0
Peninggeman, Hulu anak way cangkuk, Hulu anak way pemerihan, Way cangkuk, Cawang haro, Way pemerihan dsk	0	0	0	0	0	0
SP 3, Mendati, Pg.Kuyung, Hulu way rilau dsk	2	0	0	1	0	0
Panji Wayang, Way ngambur bundik, Hulu way telema dsk	1	0	0	0	0	0
Pal 50, Tlg.imam, km.21 dsk	0	0	0	0	0	0
Panji Wayang, Panama, Hulu way ngambur pangkalan, Hulu way ngambur bunuk dsk	39	0	0	0	0	0
Mendati, Krengseng, Pg.kuyung, Hulu way rilau dsk	4	0	1	0	0	1
Kubu perahu, Hulu way menterang, Hulu way tenumbang dsknya	4	0	2	0	0	0
Panji Wayang, Way ngambur dsknya	4	0	1	1	1	0
Panji Wayang, Ngambur dsknya	8	0	1	1	1	0
Way Handop, Siring huong 1, Siring huong 2 dan 3, Hulu way ngambur pangkalan, Hulu way ngambur bundik dsknya	0	0	1	0	0	0

PATROL DATA

Location	Activity	Start Date	End Date	Days	No of Person	Length (Km)	Remarks
Pemerihan, Kuyung arang	Wildlife conflict	05-Okt	11-Okt	7	4	0	A group of elephants in Pamerihan
Kubu perahu, Hulu way menterang, Hulu way tenumbang dsknya	Patrol /Survey	07-Okt	16-Okt	10	5	25	Signs of tiger, elephant and rhino. No rhino trap Identified bird trapping
Pall 50, Jalan lintas bengkumat, Way Nipah, dan Peninggeman.	Patrol	08-Okt	16-Okt	9	4	0	No illegal activity
Panji wayang, Bambu kuning, way ngambur, campn cabe dsknya	Patrol /Survey	08-Okt	15-Okt	8	5	13,5	Signs of elephant and tapir
SP3, Way mendati, Krengseng, Hulu way rilau dan sekitarnya	Patrol /Survey	09-Okt	17-Okt	9	5	26	Signs of rhino (footprint, food, etc) Identified bird trapping. Active crop/plantation in the encroachment area by people from SP3
Gisting, kotaagung	Intelligence	14-Okt	20-Okt	7	5	0	Identified the owner of 1 piece tiger skin evidence is Mr. Ismanto from Sugiwaras, Pekon Tirom,
Kotaagung dsknya	Patrol	21-Okt	23-Okt	3	8	0	Arrested suspect Mr. Ismanto and Samsul , and evidence 1piece of tiger skin
Panji wayang, Hulu way ngambur, Kubu kulit, way mendati dsknya	Patrol /Survey	22-Okt	30-Okt	9	4	30,5	Rhino signs
Krui, Pahmongan, hulu mahnay balak, way krui dan sekitarnya	Patrol /Survey	22-Okt	30-Okt	9	5	23,5	No rhino signs. Signs of tiger and tapir
Kupang hulu, way handap, siring huong, way ngambur pangkalan dsknya	Patrol /Survey	23-Okt	01-Nop	10	4	24	No rhino signs Fishing Farm activity in the encroachment area
Kubu perahu, hulu way krui, hulu way tenumbang dan sekitarnya	Patrol /Survey	24-Okt	31-Okt	8	5	39,5	No rhino signs Signs of elephant, tiger and tapir

Pal 50, Pemerihan, Pasar minggu dsk	Wildlife conflict	04-Nop	08-Nop	5	3	0	Drove an elephant group from Pamerihan back to forest
Ujung Pandang, Blok VI, Hulu way pintau dsk	Patrol /Survey	06-Nop	14-Nop	9	4	23	No rhino signs
Kubu Perahu, Way tenumbang, Hulu way mahnay balak, Pahmongan dsk	Patrol /Survey	07-Nop	14-Nop	8	2	29	rhino signs (footprint, dungs, wallow) Elephant footprints and dungs Tapir footprints
SP 3, Mendati, Way mendati, Anak way ngambur, Hulu way mendati, Suka marga, Suoh dsk	Patrol /Survey	07-Nop	14-Nop	8	2	30	Signs of rhino, elephant, tiger, tapir, deer, wildpig etc. Identified illegal activities (encroachment, poaching, gaharu theft, bird trapping.
Bunuk, Way ngambur pangkalan, Panji Wayang dsk	Patrol /Survey	07-Nop	16-Nop	10	5	30,5	Rhino signs (footprint, wallows) No illegal activity
Peninggeman, Hulu anak way cangkuk, Hulu anak way pemerihan, Way cangkuk, Cawang haro, Way pemerihan dsk	Patrol /Survey	08-Nop	11-Nop	4	1	0	Signs of animals
Panji Wayang, Hulu way ngambur bundik, Hulu way ngambur pangkalan dsk	Patrol /Survey	09-Nop	15-Nop	7	5	28,5	Footprints of rhino, elephant and tiger
Way nipah, Penyantun, Pedamaran dsk	Patroli	12-Nop	16-Nop	5	9	0	Identified old traditional gold mining in up stream of Way Bahima
Panji Wayang, Panama, Hulu way ngambur pangkalan, Hulu way ngambur bunuk dsk	Patrol /Survey	18-Nop	27-Nop	10	4	39,5	Rhino footprint estimated 1 female and 1 male in the same time
SP 3, Mendati, Pg.Kuyung, Hulu way rilau dsk	Patrol /Survey	21-Nop	27-Nop	7	4	15	Rhino footprint Other animal footprints
Pal 50, Tlg.imam, km.21 dsk	Patrol /Survey	25-Nop	30-Nop	6	5	15	Signs of elephant, tiger and tapir No poaching
Panji Wayang, Way ngambur bundik, Hulu way telema dsk	Patrol /Survey	26-Nop	30-Nop	5	4	16,5	Old rhino footprints Footprints of elephant and tiger

Pal 50, Tlg.25, Plisihan, Tlg.banyu urip	Elephant conflict	27-Nop	30-Nop	4	5	0	In adjacent protection forest, in pal 50. 1 birth baby elephant
Jalan lintas bengkurat, Hulu way bamban, Pemerihan dsknya	Patrol	07-Des	13-Des	7	1	25	Signs of elephant, tiger and tapir. Illegal activities / non wood forest product theft (dammar/copal, fish)
Kubu perahu, Hulu way menterang, Hulu way tenumbang dsknya	Patrol /Survey	08-Des	16-Des	9	5	30,5	Rhino signs (footprint, tilt of branch of tree, wallows). Signs of elephant, tiger and tapir.
Way Handop, Siring huong 1, Siring huong 2 dan 3, Hulu way ngambur pangkalan, Hulu way ngambur bundik dsknya	Patrol /Survey	08-Des	17-Des	10	4	41,7	Signs of elephant and tiger No rhino signs Old activity of bird trapping burung.
Panji Wayang, Way ngambur dsknya	Patrol /Survey	08-Des	16-Des	9	5	42	Signs of rhino, elephant, tapir and tiger
Mendati, Krengseng, Pg.kuyung, Hulu way rilau dsk	Patrol /Survey	09-Des	18-Des	10	4	23	Signs of rhino, tapir and tiger
Metro, Bandar lampung, Lampung timur dsknya	Intelli – gence	11-Des	27-Des	17	1	0	Info of evidence
Rata Agung, Bidang I Liwa.	Collaborative operation	13-Des	18-Des	6	6	0	Destroyed plantation and camp, arrested 5 suspects to proceed to the police
Bumi perkemahan kubu perahu	Training	18-Des	19-Des	2	2	0	Well done
Sumbersari, Pekon sumberejo, Kec.bengkunat-belimbing	Collaborative operation	20-Des	24-Des	5	4	0	Well done
Sumbersari, Pekon sumberejo, Kec.bengkunat-belimbing	Collaborative operation	20-Des	24-Des	5	5	0	Well done
Sumbersari, Pekon sumberejo, Kec.bengkunat-belimbing	Collaborative operation	28-Des	31-Des	4	5	0	Arrested 6 suspects
Sumbersari, Pekon sumberejo, Kec.bengkunat-belimbing	Collaborative operation	28-Des	30-Des	3	5	0	Continued

Sumbersari, Pekon sumberejo, Kec.bengkunat-belimbing	Collaborative operation	28-Des	31-Des	4	4	0	Continued
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- *There was no mileage measured in the other activities.*

GENERAL PERFORMANCE PARAMETERS

Number of general activities	42
Number of Patrol and Surveys	22
Distance Walked (Kilometers)	583,2
Distance Walked for Patrol and Survey	558,2
Number of Field Days	292
Number of Field Days for Patrol and Survey	183
Field Days per-person per-month	15.39

A total of 42 activities were conducted during the 4th quarter (October - December) of the year and among of them were 22 activities of patrol/surveys, which covers 558.2 km and field days 15.39 days per person per month. The field days in this quarter is lower than in previous quarter, beside their involvement to collaborative operation in the encroachment area, there was also their participation in elephant conflict solution by Park Ranger.

PROGRAM PERSONNEL

(Summary of Field Days Per-Person Per-Month 1 October - 31 December 2010)

Personnel	Days	Average	
		Field days / month	
Agung S	55	18,33	(3 Month)
Agus Sulaeman	27	13,50	(2 Month)
Bahara	28	14,00	(2 Month)
Budiono	46	15,33	(3 Month)
Didin Kamaludin	42	14,00	(3 Month)
Edi Rusmanto	52	17,33	(3 Month)
Hendra Wijaya	41	13,67	(3 Month)
Heryanto	47	15,67	(3 Month)
Jalisi	42	14,00	(3Month)
Juni Effendi	5	5,00	(1 Month)
Madnurzen	52	17,33	(3 Month)
Maman Suherman	3	3,00	(1 Month)
Marsum	47	15,67	(3 Month)
Merli aroc Hulu	34	11,33	(3 Month)
Nang Jamadi	17	17,00	(1 Month)
Olih	43	14,33	(3 Month)
Rahman	39	13,00	(3 Month)
Romiyanto	47	15,67	(3 Month)
Samsurizal	46	15,33	(3 Month)
Saptono	47	15,67	(3 Month)
Sinyo Handoko	48	16,00	(3 Month)
Sudari	51	17,00	(3 Month)
Suharsono	57	19,00	(3 Month)
Syahroni	39	13,00	(3 Month)
Teguh Taryono	35	17,50	(2 Month)
Timbul TB	47	15,67	(3 Month)
Toho	52	17,33	(3 Month)
Uga Yogaswara	42	14,00	(3 Month)
Ujang S	3	3,00	(1 Month)
Zen Afrial	44	14,67	(3 Month)
Zulkifli	47	15,67	(3 Month)

Other personnels :

1.	Titus Ramadhani	Field Coordinator (Formerly was as Administrative and Finance staff of RPU BBS)
2.	Maman S.	Administrative and Finance staff of RPU BBS
3.	Nasarius S. Waja	Driver-1
4.	Suparmin	Driver-2
5.	Era Herawati	Cook-1
6.	Wawah	Cook-2
7.	----	Office boy-1
8.	Rubianto	Office boy-2

WAY KAMBAS NATIONAL PARK

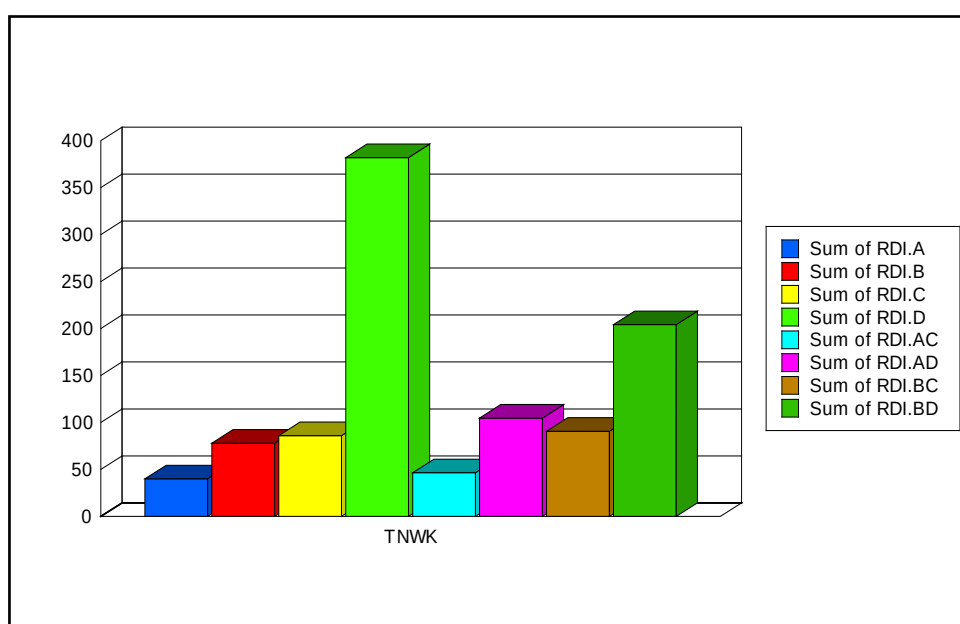
BASIC POPULATION PARAMETERS

Number of Footprints encountered	Number of Locations with rhino signs					
	Footprints	Wallows	Feces	Feeding	Other Signs*	Direct Sighting
40	59	9	26	10	33	0

- Include Urine, Scratches, Rubbings, etc.

During the 15 Patrols/Surveys in this period, 137 independent signs of rhino were encountered but no direct sighting.

RHINO DENSITY INDICATORS



Rhino		RPU Field Presence		Density Indicators			
A	B*	C	D	A/C	A/D	B/C	B/D
Number of print locations	Number of Rhino Signs*	Field Days**	Distance Walked***	Rhino prints/ 100 days	Rhino prints/ 1000 km	Rhino signs/ 100 days	Rhino signs/ 1000 km
40	78	86	382.00	46.51	104.71	90.70	204.19

(B*) The total number of sign (excluding footprints) of rhino found. ** Total number of RPU group field days during surveys only (excluding other activities). *** Total number of range in kilometer covered by RPU group during surveys activity.

ILLEGAL ACTIVITIES ENCOUNTERED

Gaharu * Theft	Encroachment	Timber Theft	Forest Product Theft	Illegal Hunting		
				Rhino / Trap	Non Rhino (Mammals)	Other
6	11	0	2	0	16	2

* Gaharu (a component for incense) theft is listed separately, because it is a major threat in any forest in Indonesia)

In WK, during the surveys and patrols a total of 37 cases of illegal activities were detected. The major case encountered was non rhino mammal poaching/trapping (i.e. deer). **No trap of rhino** encountered.

Record of cases as per attached in **Annex - 2**, which includes: date of incidence, date of detection, type of offenses, place of occurrence, evidence (forest / wildlife produces recovered, Arms /other evidence, suspect, legal status and comments.

ENCOUNTERED ANIMALS

Patrol Area	√ = encountered					
	Rhino	Elephant	Tiger	Tapir	Other Mammal	Offences
Braja Kencana Resort Kuala Penet						V
Plang Hijau, Margahayu						
Tutung, Way Bincung, Tkp Parmin, D2	V		V	V		V
Tidung, Camp 5000, Rawa badak, D2	V	V	V	V		V
D2, Macan Loncat, Karaoke, Martono dan sekitarnya	V					V
Plang Hijau, JICA, PLG						
Plang Hijau, Margahayu, Simpang Proyek, Rawa Bunder		V				
Hutan kota Tanjung Karang (Way Halim)						
Hutan kota Tanjung Karang (Way Halim)						
Pengadilan Negeri Sukadana						
Ecology, Plang Hijau, SRS						
Kali Batin, Way Kanan, SRS	V			V		V
Camp Mini, Jeembat seling, Braja Kencana		V		V		V
Rantau Jaya Udik						
Susukan Baru, Toto Projo						V
Bungur, Toto Projo						
Jica, Kali Batin, SRS		V		V		V
Plang Hijau, Margahayu						
Pahabung, Sapor, Sido Mulyo		V				V
Plang Hijau, Rawa Kerek, Rawa Bunder						V

Plang Hijau, JICA, PLG						V
Plang Hijau						
RPTN Susukan Baru		V				V
Way Bungur, Way Anda, Muara Jaya						V
Rasau, Macan Mati, Lebung Dugleg, Keramat	V	V	V	V		V
Rasau, Barat Ujung			V	V		V
Toto Projo RPTN Bungur dan sekitarnya		V				
Braja Harjo Sari						V
Toto Projo RPTN Bungur dan sekitarnya		V				
Way Kanan dan sekitarnya						
Rawa Bunder dan sekitarnya						
Rawa kerek, Way Batin, Plang Hijau						V
Susunan Baru						
Kali pasir dan sekitarnya						
D1, Lempuk, D1	V		V	V		
Terobosan, Way Sekapuk, Cengok, D2	V	V	V	V		
Way kanan, D2, Tarzan, Kali Biru, D2	V	V	V			V
Way Tulung Sula dan sekitarnya						V
D2, Lado, Tarzan, D2	V	V	V	V		
Rawa Bunder dan sekitarnya						V
PLG, SRS, PLG						
SRS, Temon, Rawa Kerek		V		V		V
D1, Camp Sore, Cengok, D2	V		V	V		
Capangan, Sekapok dan sekitarnya		V	V	V		V
Rawa Bunder, Way Pis, Gambas RI						V
Camp C, Permata, PLG		V		V		V
PT NTF, ALFA						
Way Kanan, Camp mini, Jembat Seling, Rawa Jambu, PLG		V		V		V
kantor Balai TNWK, Polres Lampung Timur						
Toto Projo RPTN Bungur dan sekitarnya		V				
Rawa Kerek, Perambahan.						V
Plang Hijau						
Kantor Balai TNWK						

DETAILS OF RHINO SIGN

Patrol Area	Footprints	Direct Sighting	Wallow	Feeding	Dung	Other Signs
Tutung, Way Bincung, Tkp Parmin, D2	4	0	0	0	0	2
Tidung, Camp 5000, Rawa badak, D2	2	0	1	0	4	4
D2, Macan Loncat, Karaoke, Martono dan sekitarnya	0	0	0	2	1	7
Camp Mini, Jeembat seling, Braja Kencana	0	0	0	0	0	0
Jica, Kali Batin, SRS	0	0	0	0	0	0
Pahabung, Saporo, Sido Mulyo	0	0	0	0	0	0
Rasau, Macan Mati, Lebung Dugleg, Keramat	1	0	0	0	0	1
Rasau, Barat Ujung	0	0	0	0	0	0
D1, Lempuk, D1	9	0	1	0	9	5
Way kanan, D2, Tarzan, Kali Biru, D2	16	0	3	8	11	14
D2, Lado, Tarzan, D2	8	0	4	0	1	0
SRS, Temon, Rawa Kerek	0	0	0	0	0	0
Capangan, Sekapok dan sekitarnya	0	0	0	0	0	0
Camp C, Permata, PLG	0	0	0	0	0	0
Way Kanan, Camp mini, Jembat Seling, Rawa Jambu, PLG	0	0	0	0	0	0

PATROL DATA

Location	Activity	Start Date	End Date	Days	No of Person	Length (Km)	Remarks
Tutung, Way Bincung, Tkp Parmin, D2	Patrol/ Survey	8 - Okt	13 - Okt	6	9	49	Detected water buffalos of local people. Signs of rhino and other animals.
Plang Hijau, Margahayu	Patrol	25 - Okt	26 - Okt	2	4	10	No illegal activity
Camp Mini, Jeembat seling, Braja Kencana	Patrol/ Survey	27 - Okt	31 - Okt	5	6	21	Detected bird trapping Signs of big mammals
Rantau Jaya Udik	Patrol	3 - Okt	4 - Okt	2	7	0	No illegal activity
Susukan Baru, Toto Projo	Patrol	17 - Okt	18 - Okt	2	6	0	Firewood collecting

Hutan kota Tanjung Karang (Way Halim)	Tree planting	24 - Okt	24 - Okt	1	8	0	Well done
Pengadilan Negeri Sukadana	Court session	25 - Okt	25 - Okt	1	3	0	Well done
Plang Hijau, Margahayu	Patrol	4 - Okt	6 - Okt	3	4	36	No illegal activity
Tidung, Camp 5000, Rawa badak, D2	Patrol/ Survey	8 - Okt	13 - Okt	6	4	27	Signs of elephant, sun bear, rhino
Bungur, Toto Projo	Patrol	19 - Okt	20 - Okt	2	4	18	Detected signs of trespassing
Hutan kota Tanjung Karang (Way Halim)	Tree Planting	24 - Okt	24 - Okt	1	8	0	Well done
Pengadilan Negeri Sukadana	Court session	25 - Okt	25 - Okt	1	3	0	Well done
Plang Hijau, Margahayu	Patrol	4 - Okt	6 - Okt	3	4	36	No illegal activity
Tidung, Camp 5000, Rawa badak, D2	Patrol/ Survey	8 - Okt	13 - Okt	6	4	27	Signs of elephant, sun bear, tiger and rhino
Bungur, Toto Projo	Patrol	19 - Okt	20 - Okt	2	4	18	Identified trespassers
Pahabung, Sapor, Sido Mulyo	Patrol/ Survey	25 - Okt	30 - Okt	6	4	22	Signs of elephant. Fired area
Kali Batin, Way Kanan, SRS	Survey	27 - Okt	30 - Okt	4	5	12	Signs of bird trapping
D2, Macan Loncat, Karaoke, Martono dan sekitarnya	Patroli/Survei	8 - Okt	13 - Okt	6	5	26	Identified fired area
Plang Hijau, JICA, PLG	Patrol	18 - Okt	19 - Okt	2	5	9	No illegal activity No elephant attack.
Plang Hijau, Margahayu, Simpang Proyek, Rawa Bunder	Patrol	20 - Okt	21 - Okt	2	6	27	No illegal activity Identified elephant attack
Ecology, Plang Hijau, SRS	Guide Gueses	25 - Okt	25 - Okt	1	6	23	Well done
Jica, Kali Batin, SRS	Patrol/ Survey	27 - Okt	31 - Okt	5	4	15	Identified bird trapping, camp of fising. Sign of elephant and tapir.

GENERAL PERFORMANCE PARAMETERS

Number of general activities	53
Number of Patrol and Surveys	15
Distance Walked (Kilometers)	692.6
Distance Walked for Patrol and Survey	382.7
Number of Field Days	183
Number of Field Days for Patrol and Survey	86
Field Days per-person per-month	16.50

A total of 53 activities were conducted during the 4TH quarterly (1 October - 31 December 2010) of the year and among of them were only 15 activities of patrol/surveys, which covering 382.7 km and field-days 16.50 days per person per month. It's higher than previous one, although there was still performed their involvement on collaborative operation with Park Administration (encroachment, driving elephant attack to agriculture etc), and other activities.

PROGRAM PERSONNEL
(Summary of Field Days Per-Person Per-Month 1 October - 31 December 2010)

Name of Personnel	Number of Field Days	Average Field Days/Month		
Agus Riadi	49	19,33	3	Month)
Amrodi	44	17,33	3	Month)
Aris Hendriyanto	48	19,67	3	Month)
Balyan Irawadi	46	16,67	3	Month)
Bambang Meiyono	54	20,00	3	Month)
Bonari	49	17,33	3	Month)
Boston Kaloko	52	17,33	3	Month)
Daryono	54	17,33	3	Month)
Encang Sutarma	46	17,33	3	Month)
Ferry Agus Bangun	45	14,00	3	Month)
Joko Iswanto	48	15,67	3	Month)
Muslimin	52	18,33	3	Month)
Nur Basuki	47	15,67	3	Month)
Sugondo	37	16,00	3	Month)
Suhadi	46	17,33	3	Month)
Sujoko	49	18,67	3	Month)
Supriyono	53	17,67	3	Month)
Totok Riyadi	43	16,33	3	Month)
Yuswardi	2	18,00	3	Month)

Other personnels:

1.	Hartato	Field Coordinator
2.	Rosdi Hartono	Adinistrative and Finance Officer
3.	Suyana	Driver
4.	Yahmin	Boat captain
5.	Suparmi	Cook
6.	Nurhadi	Office boy

UJUNG KULON NATIONAL PARK

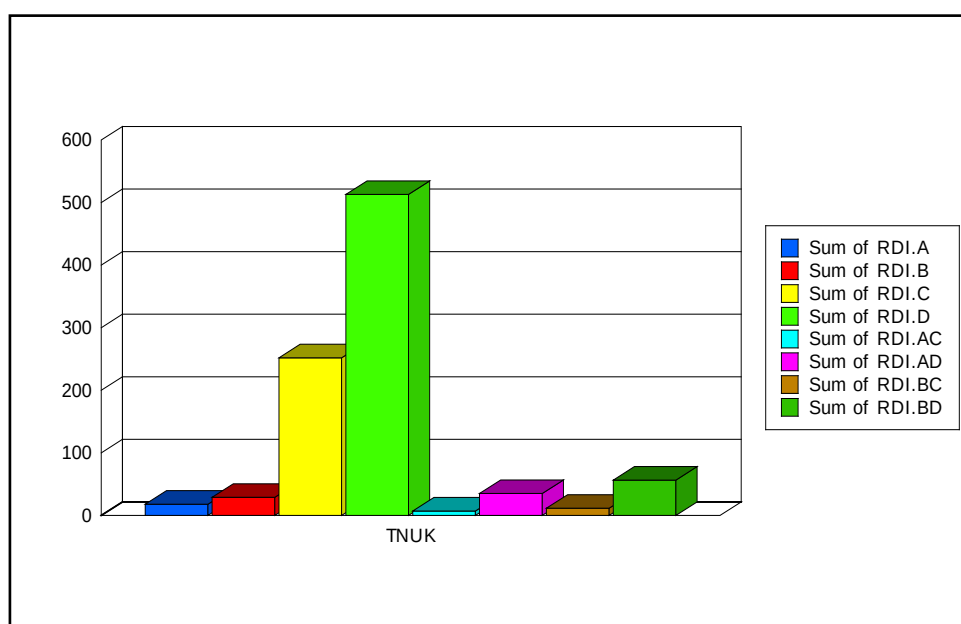
BASIC RHINO POPULATION PARAMETERS

No. Of Case Footprint Encountered	Number of Footprints	Wallow	Feces	Feeding	Other Signs*	Direct Sighting
18	36	4	4	21	0	0

* Include Urine, Scratches, Rub

During the 12 Patrols/Surveys in this period, 65 independent signs of rhino were encountered, no direct sighting.

RHINO DENSITY INDICATORS



Rhino		RPU Field Presence		Density Indicators			
A	B*	C	D	A/C	A/D	B/C	B/D
Number of print locations	Number of Rhino Signs*	Field Days**	Distance Walked***	Rhino prints/ 100 days	Rhino prints/ 1000 km	Rhino signs/ 100 days	Rhino signs/ 1000 km
18	29	252	513.00	7.14	35.09	11.51	56.53

(B*) The total number of sign (excluding footprints) of rhino found. ** Total number of RPU group field days during surveys only (excluding other activities). *** Total number of range in kilometer covered by RPU during surveys.

ILLEGAL ACTIVITIES ENCOUNTERED

Encroachment	Timber Theft	Forest Product Theft	Illegal Hunting		
			Rhino / Trap	Non Rhino (Mammals)	Other
0	0	0	0	0	5

In Ujung Kulon, during the surveys and patrols only 5 cases of illegal activity were detected. **No trap for rhino** encountered.

Record of cases as per attached in **Annex - 2**, which including: date of incidence, date of detection, type of offences, place of occurrence, evidence (forest / wildlife produces recovered, Arms /other evidence, suspect, legal status and comments).

ENCOUNTERED ANIMALS

Nama Daerah / Patrol Areas	V = encountered					
	Rhino	Banteng	Tiger	Tapir	Other Mammals	Offences
Cidaon, Cikuya, Cikembang, Cukang Galih, Cijengkol, Gunung Kendeng, Cibunar, Citadahan.	v					
Nyiur, Legon Penyu, Hulu Nyiur, Transek 11, Transek 10, Legon Waru, Jamang, Citelang, Handeuleum.	v					v
Legon Pakis, Geundir, Cikanyere, Cikalejetan, Ranca gebang, Ermokla, Cibiuk, Cimahi, Nyiur, Karang ranjang.	v					
Cidaon, Cimayang, Gardu buruk, Cigeunter, Laban, Karang ranjang.	v					
Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung salam, Rorah Kaung Langkap.						
Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung Salam, Rorah Kaung Langkap, Pamagaran, Nyawaan, Legon Waru, Citeulang, Balagadigi.						

Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung salam, Rorah Kaung Langkap.						
Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung Salam, Rorah Kaung Langkap, Pamagaran, Nyawaan, Legon Waru, Citeulang, Balagadigi.						
Legon Pakis, Soge, Gendir, Cihujan, Rorah Kaung Langkap, Cikalejetan Leutik, Ermokla, Cirangsang, Cipunaga, Tanjung sodong, Cipakis, Kampung Peuteuy, Tanjung Lame.	v	v				
Legon pakis, Kalejetan,Ranca Gebang, Ermokla, Karang Ranjang, Laban, Cipakis, Kampung Salam.	v	v			v	v
Laban, Karang Ranjang, Pangorok, Legon Kiara, Cilintang, Cisimping, Cikokosan, Cihujan.	v	v			v	v
Laban, Karang Ranjang, Pamancatan, Pangukusan, Bandawoh, Sesepan, Legon Kiara, Cipakis.	v	v			v	

DETAILS OF RHINO SIGNS

Patrol Area	Footprints	Direct Sighting	Wallow	Feeding	Dung	Other Signs
Cidaon, Cikuya, Cikembang, Cukang Galih, Cijengkol, Gunung Kendeng, Cibunar, Citadahan.	2	0	0	2	0	0
Nyiur, Legon Penyu, Hulu Nyiur, Transek 11, Transek 10, Legon Waru, Jamang, Citelang, Handeuleum.	1	0	1	0	0	0
Legon Pakis, Geundir, Cikanyere, Cikalejetan, Ranca gebang, Ermokla, Cibiuk, Cimahi, Nyiur, Karang ranjang.	1	0	0	0	0	0
Cidaon, Cimayang, Gardu buruk, Cigeunter, Laban, Karang ranjang.	3	0	0	1	0	0
Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung salam, Rorah Kaung Langkap.	0	0	0	0	0	0
Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung Salam, Rorah Kaung Langkap, Pamagaran, Nyawaan, Legon Waru, Citeulang, Balagadigi.	0	0	0	0	0	0
Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung salam, Rorah Kaung Langkap.	0	0	0	0	0	0
Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung Salam, Rorah Kaung Langkap, Pamagaran, Nyawaan, Legon Waru, Citeulang, Balagadigi.	0	0	0	0	0	0
Legon Pakis, Soge, Gendir, Cihujan, Rorah Kaung Langkap, Cikalejetan Leutik, Ermokla, Cirangsang, Cipunaga, Tanjung sodong, Cipakis, Kampung Peuteuy, Tanjung Lame.	1	0	0	0	0	0
Legon pakis, Kalejetan, Ranca Gebang, Ermokla, Karang Ranjang, Laban, Cipakis, Kampung Salam.	2	0	1	5	0	0
Laban, Karang Ranjang, Pangorok, Legon Kiara, Cilintang, Cisimping, Cikokosan, Cihujan.	3	0	2	3	3	0
Laban, Karang Ranjang, Pamancatan, Pangukusan, Bandawoh, Sesepan, Legon Kiara, Cipakis.	5	0	0	10	1	0

PATROL DATA

Location	Activity	Start Date	End Date	Days	No of Person	Length (Km)	Remarks
Cidaon, Cikuya, Cikembang, Cukang Galih, Cijengkol, Gunung Kendeng, Cibunar, Citadahan.	Patrol /Survey	5 - Okt	25 - Okt	21	3	44	Identified footprint of 3 different rhino individu
Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung salam, Rorah Kaung Langkap.	Patrol /Survey	5 - Nop	25 - Nop	21	3	46	Recording enchroachers Which in the proposed JRSCA area
Legon Pakis, Soge, Gendir, Cihujan, Rorah Kaung Langkap, Cikalejetan Leutik, Ermokla, Cirangsang, Cipunaga, Tanjung sodong, Cipakis, Kampung Peuteuy, Tanjung Lame.	Patrol /Survey	5 - Des	25 - Des	21	4	42	Rhino foot print. Recording encroachment area which in the proposed JRSCA area.
Nyiur, Legon Penyu, Hulu Nyiur, Transek 11, Transek 10, Legon Waru, Jamang, Citelang, Handeuleum.	Patrol /Survey	5 - Okt	25 - Okt	21	4	30	Rhino foot print of 23-24 cm. Illegal fishing.
Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung Salam, Rorah Kaung Langkap, Pamagaran, Nyawaan, Legon Waru, Citeulang, Balagadigi.	Patrol /Survey	5 - Nop	25 - Nop	21	4	48	Recording the encroacher .
Legon pakis, Kalejetan, Ranca Gebang, Ermokla, Karang Ranjang, Laban, Cipakis, Kampung Salam.	Patrol /Survey	5 - Des	25 - Des	21	4	45	Rhino sign (wallow). Recording the encroachers.

Legon Pakis, Geundir, Cikanyere, Cikalejetan, Ranca gebang, Ermokla, Cibiuk, Cimahi, Nyiur, Karang ranjang.	Patrol /Survey	5 - Okt	25 - Okt	21	4	50	Rhino foot print 24-25 cm dan 25-26 cm
Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung salam, Rorah Kaung Langkap.	Patrol /Survey	5 - Nop	25 - Nop	21	4	46	Recording the encroachers.
Laban, Karang Ranjang, Pangorok, Legon Kiara, Cilintang, Cisimping, Cikokosan, Cihujan.	Patrol /Survey	5 - Des	25 - Des	21	4	45	Rhino foot print, dung and feeding.
Cidaon, Cimayang, Gardu buruk, Cigeunter, Laban, Karang ranjang.	Patrol /Survey	5 - Okt	25 - Okt	21	4	19	Rhino foot print of .23-24 cm and feeding.
Legon Pakis, Cikaung, Cihujan, Rorah Salman, Soge, Geundir, Kampung Salam, Rorah Kaung Langkap, Pamagaran, Nyawaan, Legon Waru, Citeulang, Balagadigi.	Patrol /Survey	5 - Nop	25 - Nop	21	4	48	Recording the encroachers.
Laban, Karang Ranjang, Pamancatan, Pangukusan, Bandawoh, Seseapan, Legon Kiara, Cipakis.	Patrol /Survey	5 - Des	25 - Des	21	4	50	Sign of rhino. Recording the encroachers.

GENERAL PERFORMANCE PARAMETERS

Number of general activities	12
Number of Patrol and Surveys	12
Distance Walked (Kilometers)	513.79
Distance Walked for Patrol and Survey	513.79
Number of Field Days	252
Number of Field Days for Patrol and Survey	252
Field Days per-person per-month	21

A total of 12 activities were patrols / surveys which has conducted during the 4th quarter (1 October – 31 Decemmmber 2010), covering 513 km and field days of 21 days per person per month

PROGRAM PERSONNEL
(Summary of Field Days Per-Person Per-Month 1 July – 30 September 2010)

Name of Personnel	Number of Field Days	Average Field Days/Month	
Acep Supriatna	21	21,00	(1 month)
Andri Duriat	63	21,00	(3 month)
Diding	63	21,00	(3 month)
Edi	63	21,00	(3 month)
Endin	63	21,00	(3 month)
Hadimi	63	21,00	(3 month)
Haerudin	63	21,00	(3 month)
Iin Ruslani	63	21,00	(3 month)
Jajat Sudrajat	63	21,00	3 month)
Mulyani	63	21,00	3 month)
Sorhim	63	21,00	3 month)
Sunardi	63	21,00	3 month)
Tisno	63	21,00	3 month)
Ujang Sukri	63	21,00	3 month)
Yadi Suryana	63	21,00	3 month)
Yusep Herdiana	63	21,00	3 month)

Other personnels:

1.	Otong Sontani	Field Coordinator
2.	Agus Darmawan	Ass. FC for Administration and Finance
3.	M. Syamsudin	Ass FC for Database and technical report
4.	Samaun	Boat driver
5.	Elly	Ass. Boat driver /crew
6.	Odah	Cook
7.	Hani	Office boy

YAYASAN BADAK INDONESIA - YABI

Rhino Foundation of Indonesia - RFI



ANNEX-2:

RECORDS ON ILLEGAL KILLING OF ANIMALS AND OTHER FOREST OFFENSES RPU's (BBS, WK and UK) and ILEU detected offenses

**1 OCTOBER - 31 DECEMBER 2010
(Q4)**

ANNEX - 2 :RECORDS ON ILLEGAL KILLING OF ANIMALS AND OTHER FOREST OFFENSES DURING 2010

RPU's (BBS, WK and UK) and ILEU detected offenses as follow tables:

Table-1. Records in BBS (Bukit Barisan Selatan) and surrounding , reported by RPU's and ILEU

PERIOD: JANUARI - DECEMBER 2010

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	15-Jan-10	Trespassers	BBS Sukaraja	-	4 motorcycles	-	A2	identification by Park ranger
	18-Jan-10	Wildlife conflict (elephants)	W. Kelabok, Liwa, Wst Lpg	-	-	1 group	A2	documentation
	12-Feb-10	Wildlife trade	Krui, Wst Lpg	tiger skin	-	1	A2	identification
	13-Feb-10	Wildlife trade	Pg Malsum, Wst Lampung	2	-	1	A2	identification
	14-Feb-10	Poaching	BBSKuyung Ramik	Deer meat	Traditional gun,	-	A2	identification
	16-Feb-10	Wildlife trade	Bengkunat, WstLampung	ivory pipe for smoking	-	1	A2	identification
	18-Feb-10	Encroachment, poaching	Pugung, Wst Lpg	Deer meat	Snare, spear, dog	group	A2	identification

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	25-Feb-10	old encroachment	BBS Hulu W. Ngambur	3 ha plantation	-	-	A2	identification
	25-Feb-09	poaching	BBS Kubu Prah	-	old snare	-	-	inactivated
	27-Feb-10	Trespassers	BBS Lombok, Wst Lampung	-	-	3	-	documented
	10-Mar-10	Poaching	BBS Sumberrejo	-	-	3	A2	identification
	12-Mar-10	Wildlife trade	Pugung, Wst Lpg	parts of tiger	Snare, spear	group	A2	identification
	14-Mar-10	Poaching	Sukau, Wst Lampung	-	snare, spear, traditional gun	group	A2	identification
	14-Mar-09	old encroachment	Mahnai tengah	5 ha	-	-	A2	identification
	15-Mar-10	Ilegal Logging	Marang, Biha, Wst Lpg	15 m3	3 chain saw	6	A2	identification
	19-Mar-10	Ilegal Logging	Ngambur, Wst Lpg	165 pcs	chain saw	3	A1	Arrest suspect
	22-Mar-10	Poaching	Ngaras, Wst Lpg	1 deer, 4 pangolin	Traditional gun, knife	3	A2	identification

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	25-Mar-10	Poaching	BBS Rata Agung	Deer meat	traps and dog	-	A2	identification
	26-Mar-10	Poaching	Kubu Prah, Wst Lampung	-	nylon net	-	-	inactivated
	1-Apr-10	Poaching	BBS, Bd Agung	Tiger meat	Trad gun	-	A2	identification
	3-Apr-10	Poaching	BBS, W. Tenumbang	Deer meat	Snare	2	A3	identification
	5-Apr-10	Poaching	Rata Agung, Wst Lampung	-	spears	group	A2	identification
	7-Apr-10	Poaching	BBS, Suberrejo	Elephant	Trad Gun	4	A2	identification
	14-Apr-10	Wildlife trade	B. Kemuning, W. Lampung	Tusks of elephant	-	7	A2	identification
	16-Apr-10	Poaching	BBS, W. Laga,	-	trad gun	group	A2	identification
	21-Apr-10	wildlife trade	Bd Lampung	Tusks of elephant	-	group	A2	identification
	24-Apr-10	wildlife trade	Merpas, W.st Lpg	Tusks of elephant	-	group	A2	identification
	25-Apr-10	illegal logging	BBS, Pamerihan	1 m3 merawan wood	-	2	A2	identification

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	26-Apr-10	Poaching	BBS, W. Kejadian	Deer	snare	3	A3	identification
	26-Apr-10	Bird trapping	BBS, W. Ngambur	birds	-	3	A1	Arrested suspects
	6-May-10	wildlife trade	Krui, Wst Lpg	tiger skin	-	1	A1	Arrested suspects
	6-May-10	wildlife trade	Pugung, Wst Lpg	tiger skin of 30 x 30 cm2	-	2	A2	identification
	7-May-10	deer poaching	BBS, Tenumbang	-	gun	4	A2	identification
	9-May-10	wildlife trade	Bt Kemunig, Wst Lpg	elephant tusk	-	group	A2	identification
	11-May-10	Poaching	BBS, W. Bamban	deer bone	-	-	A3	documented
	11-May-10	fishing	BBS, W. Bamban	-	camp , fishing equipment	2	A3	documented
	12-May-10	wildlife trade	Bkt Kemuning Wst Lpg	elephant tusk	-	group	A3	documented
	14 May 10	bird trapping	BBS, W. Nenok	-	nets	8	A3	documented
	21 May 10	wildlife trade	Bengkunat, Wst Lpg	elephant tusk	-	1	A3	documented
	26 May 10	wildlife trade	Bdr Lampung	elephant tusk	-	1	A2	identification

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	26 May 10	illegal logging	BBS, W. Pamerihan	-	handsaw	-	A3	documented
	27 May 10	illegal logging	BBS, W. Pamerihan	5 meranti tree stubble	chainsaw	-	A3	documented
	27 May 10	bird trapping	BBS, W. Pamerihan	-	traps	2	A3	documented
	1-Jun-10	wildlife trade	Pahoman, Wst Lpg	Tusks of elephant	-	group	A2	identification
	2-Jun-10	wildlife trade	Bd. Lampung	Tusks of elephant	-	group	A2	identification
	8-Jun-10	wildlife trade	Biha, Wst Lpg	4 deer head + 4 wildcat taxidermic, tiger skin	-	1	A2	identification
	9-Jun-10	wildlife trade	Sukaraja, Tanggamus	Tiger bone and skin	-	1	A2	identification
	12-Jun-10	wildlife trade	Pringsewu	Tusks of elephant	-	group	A2	identification
	14-Jun-10	wildlife trade	Krui, Wst Lpg	horn of rhino	-	group	A2	identification
	15-Jun-10	Poaching	BBS, W. Tenumbang	-	Spears	group	A2	identification
	16-Jun-10	wildlife trade	Rata Agung, Wst Lpg	tiger skin	-	group	A2	identification

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	18-Jun-10	Illegal logging	BBS, Ngambur	timbers	chainsaw	2	A2	Documented
	19-Jun-10	wildlife trade	Bkt Kemuning, W. Lpg	Tusks of elephant	-	group	A2	identification
	1-Jul-10	Wildlife trade	Trimurjo, Cntr Lpg	15 kg Elephant tusk	-	1	A3	identification
	2-Jul-10	Wildlife trade, Poaching	Balik bukit, Wst Lpg	2 Rhinoceros horn, Skull head n Bones	Snare trap, traditional gun	2	A3	identification
	3-Jul-10	Wildlife trade, Poaching	Atar way suluh, Wst Lpg	Tiger skin, skull head n tooth	Snare trap, traditional gun	2	A3	identification
	5-Jul-10	Wildlife trade	Merpas, Wst Lpg	Elephant tusk	-	2	A3	identification
	5-Jul-10	Wildlife trade, Poaching	Pahmongan, Wst Lpg	7 Ofsetan head deer	Organik gun	2	A3	identification
	6-Jul-10	Wildlife trade, Poaching	Krui, Wst Lpg	Tiger skin, 3 ofsetan head deer	Snare trap, traditional gun	2	A3	identification
	7-Jul-10	Wildlife trade	Kotaagung, Tanggamus, Lpg	Elephant tusk	-	1	A3	identification

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	7-Jul-10	Wildlife trade	Krui, Wst Lpg	22 - 18 kg Elephant tusk	-	2 group	A3	identification
	12-Jul-10	Wildlife trade, Poaching	Pugung, Wst Lpg	Tiger skin, canine tooth, fingernail	Poison	2	A3	identification
	13-Jul-10	Wildlife trade, Poaching	Biha, Wst Lpg	5 ofsetan head deer, baby deer (diawetkan)	-	4	A3	Arrest suspect
	15-Jul-10	Encroachment, poaching	Melebuy, Wst Lpg	Deer	Snare, spear, dog	group	A3	identification
	17-Jul-10	Wildlife trade, Poaching	Tenumbang, Wst Lpg	Deer	Snare, spear, 9 dog	group	A3	identification
	18-Jul-10	Wildlife conflict	Talang Pendowo, Wst Lpg	Elephant	-	-	A3	identification , patroll
	19-Jul-10	Encroachment	Somberrejo, W. Canguk	-	-	-	A3	destroyed 1 old camp
	20-Jul-10	Wildlife trade, Poaching	Way haru, Wst Lpg	30 kg tooth elephant, 5 head deer	Organik gun, tradisional gun	2 group	A3	identification
	20-Jul-10	Wildlife trade	Kotaagung, Tanggamus, Lpg	20 cm elephant tusk	-	1	A3	identification

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	23-Jul-10	Poaching	Krui, Wst Lpg	Tiger, deer	Snare trap	group	A3	identification
	23-Jul-10	Wildlife trade	Kotaagung, Tanggamus, Lpg	30 kg elephant tusk	-	1	A3	identification
	24-Jul-10	Wildlife trade, Poaching	Way tembulih, Wst Lpg	1 tail dead elephant, tusk have losed	-	-	info A2	identification , patroll
	27-Jul-10	Wildlife trade	Trimurjo, Cntr Lpg	Elephant tusk	-	1	A3	identification
	29-Jul-10	illegal loging	Sidomulyo, tanggamus, Lpg	Wood (olahan)	Chain saw	-	A3	identification
	1-Aug-10	Wildlife trade	Tjg.karang, Lpg	Elephant tusk	-	group	A3	identification
	2-Aug-10	Wildlife trade, Poaching	Way tembulih, Wst Lpg	Elephant	Organik gun	group	A3	identification
	4-Aug-10	Wildlife trade	Kotaagung, Tanggamus, Lpg	Elephant tusk	-	1	A3	identification
	05-Aug-10	Bird trapping	BBS, W. Biha	3 birds	-	1	-	released birds; documented suspect

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	5-Aug-10	illegal logging	Sidomulyo, tanggamus, Lpg	30 m3 Wood (olahan)	Chain saw, motorcaycle	5	A3	identification
	6-Aug-10	Wildlife trade	Metro, Cntlr Lpg	Elephant tusk	-	group	A3	identification
	6-Aug-10	Wildlife trade	Kotaagung, Tanggamus, Lpg	46 kg Elephant tusk	-	group	A3	identification
	6-Aug-10	Poaching	Pemerihan, Wst Lpg	Tiger	-	-	A3	identification
	7-Aug-10	Wildlife conflict	Way haru, Wst Lpg	Elephant group	-	-	A3	identification , patroll
	8-Aug-10	Wildlife trade	Talang padang, Tanggamus, Lpg	238 kg elephan tusk	-	group	A3	identification
	8-Aug-10	Wildlife conflict	Peninggaman, Tanggamus, Lpg	1 Elephant	-	-	A3	identification , patroll
	09-Aug-10	Illegal fishing	BBS, W. Babuta	-	-	-	A3	old indication; documented

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	10-Aug-10	Wildlife trade, Poaching	Krui, Wst Lpg	5kg Tiger bone,21 tringgiling hidup,leopard,1 ekor bintorung	-	1	A3	identification
	11-Aug-10	Wildlife trade, Poaching	Kubu gedung, Wst Lpg	Deer	Snare trap	1	A3	identification
	14-Aug-10	illegal logging	Panjiwayang, Wst Lpg	4 m3 wooh (olahan)	Chain Saw	-	A3	identification
	15-Aug-10	Wildlife trade	Pangkul, Tanggamus, Lpg	Elephant tusk	-	-	A3	identification
	16-Aug-10	Encroachment	BBS, Peg. Kuyung	-	-	-	A3	6 months old coffe plantation of 0.5 ha
	16-Aug-10	Encroachment	BBS, Peg. Kuyung	-	-	-	A3	I ha documented
	28-Aug-10	Wildlife trade, Poaching	Bukit, North Lpg	22kg, 23kg, 45kg elephant tusk	-	group	A3	identification

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	1-Sep-10	Wildlife trade, Poaching	Gisting, Tanggamus	4ons tusk rhino (global Rp.30jt)	Snare trap, tradisional gun	group	A3	identification
	3-Sep-10	Wildlife trade	Talang padang, Tanggamus, Lpg	68kg Elephant tusk	-	group	A3	identification
	5-Sep-10	Wildlife trade	Kotaagung, Tanggamus, Lpg	12kg, 25kg Elephant tusk	-	-	A3	identification
	6-Sep-10	Encroachment	Muara pemerihan, Wst Lpg	-	-	-	A3	identification , patroll
	7-Sep-10	Poaching	Sukau, Wst Lpg	Deer	Snare trap, tradisional gun, 7 dog, knife	group	A3	identification , patroll
	9-Sep-10	Wildlife trade	Baturaja, Sum-Sel	54kg, 68kg, 72kg Elephant tusk	-	group	A3	identification
	10-Sep-10	Poaching	Laay, krui, Wst Lpg	Deer	Snare trap, tradisional gun, 7 dog, knife, lamp	group	A3	identification

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	12-Sep-10	Poaching	Mahnai, krui, Wst Lpg	Det 1 deer and 1 macan akar	Otomatis gun, knife, lamp	group	A3	identification
	14-Sep-10	Poaching	SP3 ngambur, Tlg.11 ngaras, Wst Lpg	Elephant	1 Otomatis gun (have army)	group	A3	identification
	17-Sep-10	Wildlife trade	Talang padang, Tanggamus, Lpg	Elephant tusk	-	group	A3	identification
	18-Sep-10	Wildlife trade, Poaching	Tanjung karang, Lpg	4ons tusk rhino (global Rp.30jt)	-	group	A3	identification
	20-Sep-10	Wildlife conflict	Ciherang, Way haru, Wst Lpg	Elephant	-	-	A3	identification , patroll
	21-Sep-10	Encroachment, Poaching	Pugung, Wst Lpg	Deer	Snare trap, tombak, knife,	group	A3	identification
	22-Sep-10	Wildlife conflict, poaching	Way hanungan, Krui,Wst Lpg	Tiger	-	group	A3	identification
	23-Sep-10	Wildlife trade, Poaching	Siging, Bengkumat, Wst Lpg	27kg Elephant tusk (rp.4,5jt), skin tiger	-	group	A3	identification

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	24-Sep-10	Birds collecting	Kubu perahu, Wst Lpg	Birds	Snare trap	2	A3	identification
	28-Sep-10	Wildlife conflict	Way sindi, Krui, Wst Lpg	Tiger	-	-	A3	identification , patroll
	29-Sep-10	illegal loging	Tl.gisting, Wst Lpg	Wood for forest lindung	-	-	A3	identification
	22 Oct 10	wildlife trade	Kt Agung, Tanggamus	1 pc tiger skin of 114 cm length	-	2	A1	P21 preoceed to court
	11-Nov-10	encroachment	Panama	new opened area of 2 ha	-	-	A3	identification
	11-Nov-10	poaching	Upper W. Ngambur	-	3 deer traps	-	A3	inactivated
	12-Nov-10	encroachment	Siring Huong, W. Ngambur	opened area of 8 ha	-	-	A3	identified
	12-Nov-10	encroachment	Ngambur, Suoh	opened area of > 6 ha	-	-	A3	identified
	12 Nov 10	Ilegal Logging	Ngambur , Suoh	19 pcs sawn timber	-	1 (logger) escaped	A3	documented
	22 Nov 10	encroachment	Pg Kuyung, W Lpg	old encroachment of > 3 ha	-	-	A3	identified

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
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Table-2. Records in WK (Way Kambas) and surrounding
PERIOD: JANUARY - DECEMBER 2010

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/Ammunit ion Recovered	People Arrested / suspected	Enforcement Status	Comments
July 09?	5-Jan-10	forest fire	WK, Way Kanan	Old forest fire area of 40ha	-	-	A3	Documented
Jan 09?	6-Jan-10	forest fire	WK, Susukan Baru	Old forest fire area	-	-	A3	Documented
Jan 09?	6-Jan-10	forest fire	WK, Way Kanan	Old forest fire area of 60ha	-	-	A3	Documented
	6-Jan-10	encroachment	RPTN Susukan Baru	-	-	-	A3	destroyed 1 old cabin
	14-Jan-10	trespassing	Perambahan RPTN Plang Hijau	Track of trespasser	-	-	A3	reported to the Park; documented

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	15-Jan-10	Illegal grazing	Eks perambahan RPTN Susukan Baru	signs	-	1	A2	proceed to the Park authority
	15-Jan-10	trespassing	Sidodadi RPTN Kuala Penet	Track of trespasser	-	-	A3	Di data dan di hancurkan
	15-Jan-10	illegal logging	Sidodadi RPTN Kuala Penet	13 pcs of bamboo	-	-	A3	Documented
	21-Jan-10	trespassing	SPTN Kuala Penet	Track of trespasser	-	-	A3	Documented
	23-Jan-10	Gaharu theft	WK, Kuala Penet	signs	-	-	A3	Burned 1 cabin, documented
	29-Jan-10	Trespassing	WK, Plang Hijau	signs	-	-	A3	Evidence : 2 bicycles; documented
	29-Jan-10	Trespassing	Plang Hijau	Track of trespasser	-	-	A3	Documented
	30-Jan-10	Trespassing	Plang Hijau	tracks	-	-	A3	1 motorcycle; documented

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	31-Jan-10	Trespassing	RPTN Susukan Baru	tracks	-	-	A3	Documented
	31-Jan-10	Trespassing	RPTN Susukan Baru	tracks	-	-	A3	Documented
	31-Jan-10	Trespassing	RPTN Susukan Baru	tracks	-	-	A3	Documented
	31-Jan-10	Trespassing	RPTN Susukan Baru	tracks	-	-	A3	Documented
	5-Feb-10	poaching	RPTN Susukan Baru	-	3 unit old trap/snare for deer or wildpig	-	A3	Documented , inactivated snare
	5-Feb-10	Illegal logging	Susukan Baru	6 logs of mentru wood	-	-	-	Documented
	9-Feb-10	treespassing	Permata	track of treespassing	-	-	A3	Documented
	9-Feb-10	Illegal fishing	Permata	signs	-	-	A3	investigation
	9-Feb-10	treespassing	Permata	track of treespassing	-	-	A3	evidence : 1 bicycle; documented

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	9-Feb-10	treespassing	Rawa jambu RPTN Penet	track of treespassing	-	-	A3	Documented
	12-Feb-10	treespassing	Karang sari PLG	track of treespassing	-	-	A3	Documented
	14-Feb-10	Illegal logging	Toto Projo	12 logs ; 4 m each	-	-	A3	Documented
	14-Feb-10	Illegal logging	Bungur	10 pcs sawn timber of 3 m each	-	-	A3	Documented
	15-Feb-10	illegal logging	Bungur	12 logs	-	-	A3	Documented
	15-Feb-10	Illegal grazing	Martono RPTN Susukan Baru	50 cattles	-	-	A3	Documented
	16-Feb-10	Illegal grazing	Taman Endah RPTN Bungur	25 cattles	-	-	A3	Documented
	26-Feb-10	Illegal logging	Plang Hijau	3 logs	-	-	A3	Documented
	3-Mar-10	Illegal grazing	RKPA Bungur	signs	-	6	A3	Di data dan di beri pengarahan
	4-Mar-10	Illegal grazing	RPTN Susukan Baru	signs	-	4	A3	di data dan di beri pengarahan

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	4-Mar-10	treespassing	RPTN Susukan Baru	track of treespassing	-	-	A3	Di data
	4-Mar-10	treespassing	Susukan Baru	track of treespassing	-	-	A3	broke small bridge; dokumentation
	7-Mar-10	Illegal grazing	Braja Kencana RPTN Kuala Penet	10 cattles	-	-	A3	Di data
	7-Mar-10	Illegal grazing	Braja Luhur RPTN Kuala Penet	15 cattles	-	-	A3	Di data
	9-Mar-10	Poaching	Plang Hijau	1 dead deer	-	-	A3	Di data
	9-Mar-10	Illegal fishing	Plang Hijau	signs	-	-1	A3	Di data dan di beri pengarahen
	11-Mar-10	Illegal fishing	Rasau RPTN Cabang	signs		1	A3	Di data dan di beri pengarahen
	11-Mar-10	illegal logging	RPTN Cabang	1 fallen tree	-	-	A3	Di data dan di dokumentasi
	11-Mar-10	treespassing	RPTN Plang Hijau	track of treespassing	-	-	A3	Di laporkan ke resort Rawa Bunder

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	12-Mar-10	Poaching	RPTN Cabang	5 snares for deer and 1 sanre for tiger	-	-	A3	inactivated snares and documented
	12-Mar-10	trespassing	RPTN Plang Hijau	track of trespassing	-	-	A3	Di laporkan ke pos Rawa Bunder
	12-Mar-10	trespassing	RPTN Plang Hijau	track of trespassing			A3	Di laporkan ke Resort Rawa Bunder
	13-Mar-10	illegal logging	RPTN Plang Hijau	old sign of cutted tree	-	-	A3	Di data dan dilaporkan ke pos Rawa Bunder
	13-Mar-10	gaharu theft	RPTN Plang Hijau	signs	-	-	A3	destroyed 1 old cabin; documented
	13-Mar-10	poaching	RPTN Cabang	2 traps	-	-	A3	inactivated; documented
	24-Mar-10	gaharu theft	RKPA Way kanan	signs			A3	destroyed 1 old cabin; documented
	28-Mar-10	trespassing	RKPA Plang Hijau	track of trespassing	-	-	A3	destroyed 1 bridge; documented
	4-Apr-10	fire	WK, Sidomulyo	100 ha	-	-	A3	Documented
	5-Apr-10	illegal logging	WK, Bungur	7 pcs timber	-	-	A3	Documented

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	6-Apr-10	trespassing	WK, Susukan Baru	tracks	-	-	A3	Documented
	15-Apr-10	trepassing	WK, Susukan Baru	0.25 m3 firewood	-	3	A2	Investigation
	16-Apr-10	poaching	WK, Kolam Darmaji	-	1 unit snare for deer	-	A3	inactivated
	22-Apr	Fire	WK, Gambas RI	burnt area	-	-	A3	documented
	29 May 10	trespassing	WK, Gambas RI	-	-	-	A3	dokumented, burned an old cabin
	30 May 10	fire	WK, Gambas RI	100 ha area burned	-	-	A3	dokumented
	9-Jun-10	fire	WK, Rasau	230 ha old burned area	-	-	A3	dokumented
	11-Jun-10	fire	WK, Tutung	65 ha old burned area	-	-	A3	dokumented
	12-Jun-10	poaching	WK Penang gungan	-	snare for deer or wildpig	-	A3	inactivated
	20-Jun-10	poaching	PLG	-	spears and 5 dogs	group	A2	Investigation
	25-Jun-10	fishing	WK, W. Kanan	-	fishing eq.	3	A1	handovered to Park Ranger

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	2-Jul-10	Illegal grazing	WK, Kr. Anyar Kuala Penet	-	-	-	A3	water buffalo; documented
	5-Jul-10	tresspassing	WK, Susukan Baru	-	-	-	A3	8 bridges identified; documented
	05-Aug-10	Illegal grazing (cattle)	WK, Susukan Baru	-	-	-	A3	2 sites identified ;documented
	6-Jul-10	Illegal sand mining	River Sukadana	-	-	-	A3	documented
	7-Jul-10	Illegal grazing	WK, Kr. Anyar Kuala Penet	-	-	-	A3	water buffalo; documented
	9-Jul-10	firewood collection	WK, Rawa Bunder	-	-	6	-	documented
	10-Jul-10	Illegal grazing (cattle)	WK, Susukan Baru	-	-	-	A3	8 cattles documented
	15-Jul-10	Encroachment	WK, Kuala Kambas	-	-	2	A2	aressted 2 suspects; proceed to law process
	17-Jul-10	Encroachment	WK, Kuala Kambas	-	-	1	A2	aressted 1 suspects; proceed to law process

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	21-Jul-10	trespassing	WK, Rawa Bunder	-	-	0	-	detected 1 bridge; monitoring
	07-Aug-10	gaharu theft	WK, Kuala Penet	-	1 old camp	-	A3	documented
	08-Aug-10	gaharu theft	WK, Kuala Penet	1 cutted tree of 27 cm diameter	-	-	A3	documented
	16 Aug-10	poaching	WK. Bungur	1 old carcass of elephant with no tusk and teeth	-	-	A3	documented
	18-Aug-10	poaching	WK, Plang Hijau	1 old carcass oh deer	-	-	A3	documented
	22-Aug-10	bird trapping	WK, Way Kanan	1 old camp	-	-	A3	documented
	3-Sep-10	poaching	WK, Margahayu	-	-	1	A3	documented
	20-Sep-10	Forest fire	WK, Plang Hijau	100 ha and 250 ha burned area	-	-	-	documented
	4-Dec-10	poaching	Plang Hijau	-	15 -Snared for wild pig and deer	-	-	inactivated

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	24-Dec-10	poaching	Gambas RI	-	-	2	A2	Arrested suspects; Processed

Table-3 : Records on Illegal killing of animals and other forest offences in UK and surrounding

PERIOD: JANUARY - DECEMBER 2010

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/Ammunit ion Recovered	People Arrested / suspected	Enforcement Status	Comments
	10-Jan-10	Illegal logging	UK, Cimenteng	-	-	5	A1 and Arrested	Police investigation
	19-Jan-10	Illegal Fishing (Lobster)	UK, Kr. Ranjang	-	-	3	A3	Documentation
	9-Feb-10	Illegal Fishing (Lobster, Umang)	UK, Nyiur	-	1 old cabin	-	-	Documentation; destroyed
	9-Mar-10	Illegal Fishing (Lobster)	UK, Legon Waru	-	1 old cabin; net	-	-	Documentation; destroyed
	10-Mar-10	Poaching	UK Cilintang	-	1 trap	-	-	destroyed 1 old cabin
	17-Mar-10	Illegal Fishing (Shrimps)	UK, Pangukusan	-	1 old cabin	-	-	Documentation ; destroyed

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	18-Mar	Illegal Fishing	Sodong Sero	-	I old cabin	-	-	Documentation ; destroyed
	22-Mar-10	Illegal Fishing	UK, Pangukusan	-	I old boat	10	A2	Documentation
	11-Apr-10	Illegal fishing	UK, Lg. Waru	-	I old cabin	-	A3	Documentation ; destroyed
	20 May 10	-	UK, Nyiur	1 rhino carcase	-	-	-	evacuated; investigated
	12-Jun-10	bird trapping	UK, Nyiur	-	net	-	A3	Documentation ; destroyed
	14-Jun-10	illegal fishing	UK, Tg. Sinini	-	3 old nets	-	A3	Documentation ; destroyed
	14-Jun-10	-	Cikeusik	1 rhino carcase	-	-	-	evacuated; investigated
	28-Jun-10	-	UK, Cibunar	3 pcs of rhino bone	-	-	-	evacuated; investigated
	7-Jul-10	illegal fishing	UK, Pangorok	1 camp	-	3	A2	destroyed camp; documented
	06-Aug-10	illegal fishing	UK, Tg. Sodong	1 camp	-	-	A3	destroyed camp; documented
	19-Sep-10	illegal logging	UK, Cikanyere	4 logs	-	-	A3	destroyed; documented
	21-Sep-10	poaching	Cikanyere	-	1 trap for mouse deer	-	A3	destroyed; documented

Date of Incidence	Date of Detection	Type of Offence	Place of Occurance	Forest/WL produces recovered	Arms/ Ammunition Recovered	People Arrested / suspected	Enforcement Status	Comments
	13 Oct 10	fishing	Tg. Sinini	-	1 old camp	-	-	destroyed
	15 Oct 10	bird trapping	Nyiur	-	old trap	-	-	inactivated
	10 Dec 10	fishing	Kr. Ranjang	-	old signs	-	-	destroyed

NOTES :

A1 : suspect/s, evidence/s eyewitness

A3 : evidence/s + eyewitnesses, but no suspect/s

A2 : suspect/s + evidence/s but no eyewitness

A4 : evidence/s ; or eyewitness only

YAYASAN BADAK INDONESIA - YABI

Rhino Foundation of Indonesia - RFI



ANNEX-3:

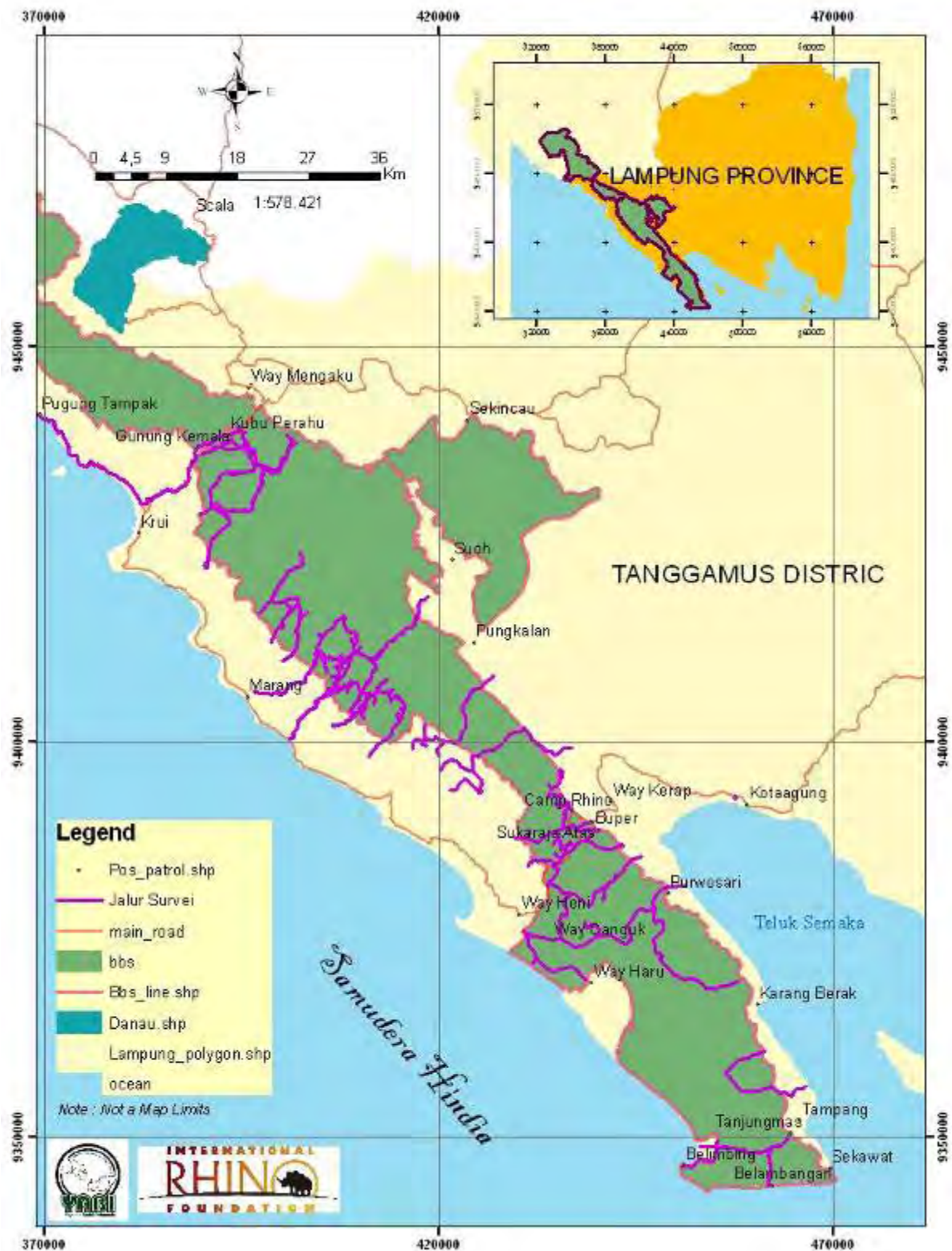
MAP OF RPU ACTIVITIES

RPU's (BBS, WK and UK) and ILEU detected offenses

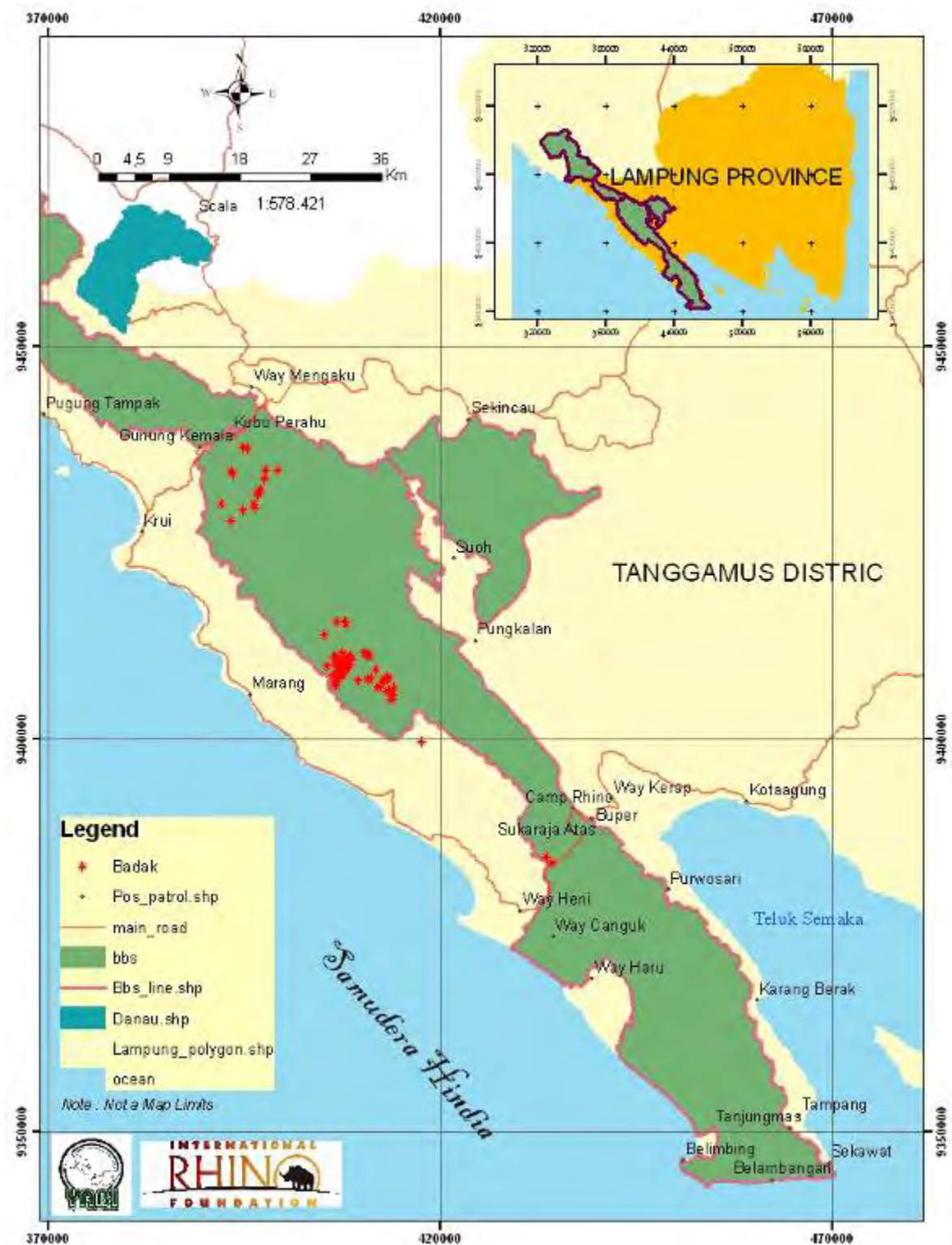
2010

1. BUKIT BARISAN SELATAN NATIONAL PARK

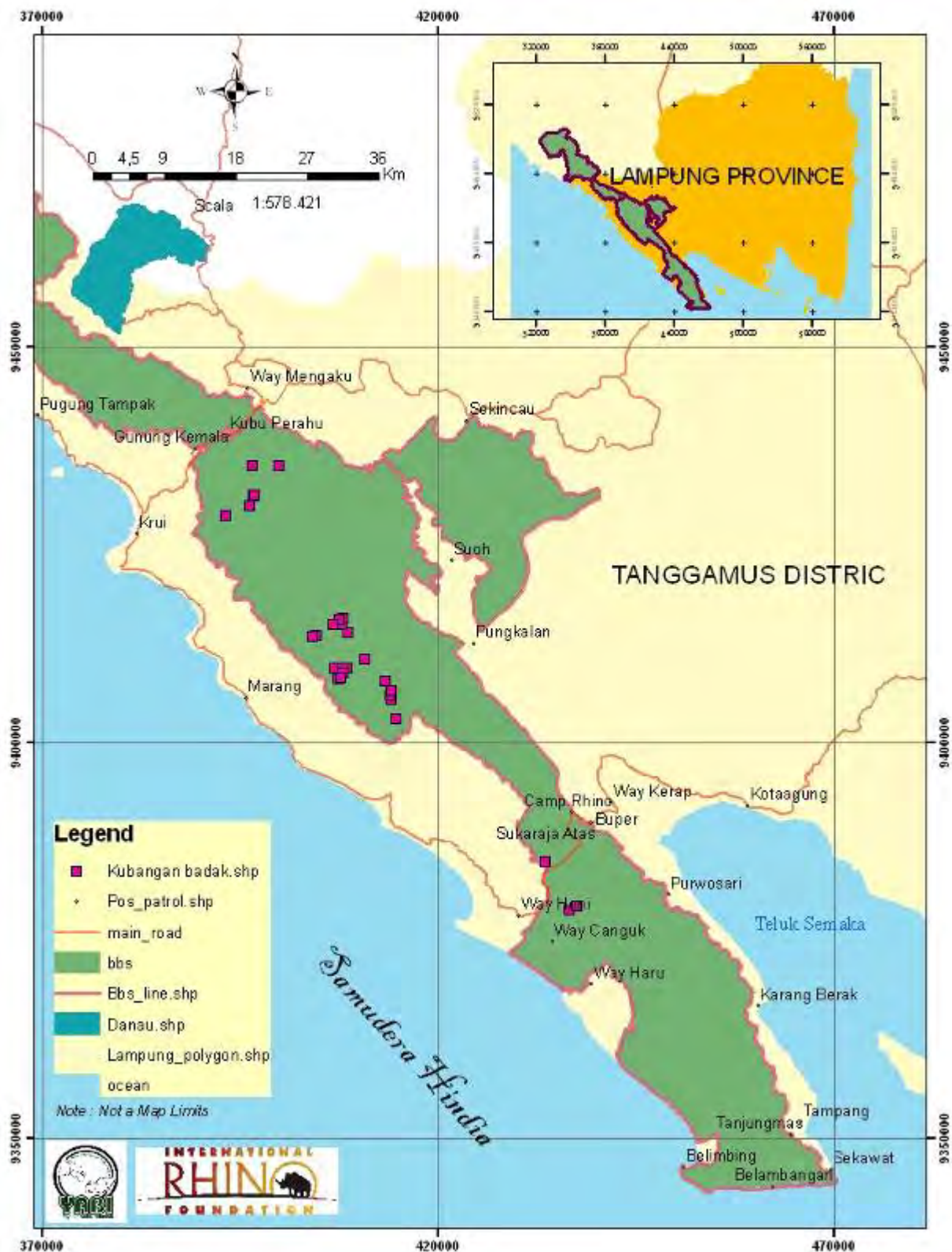
Map-1 : MAP OF PATROL ROUTES OF RPU BBS DURING 2010



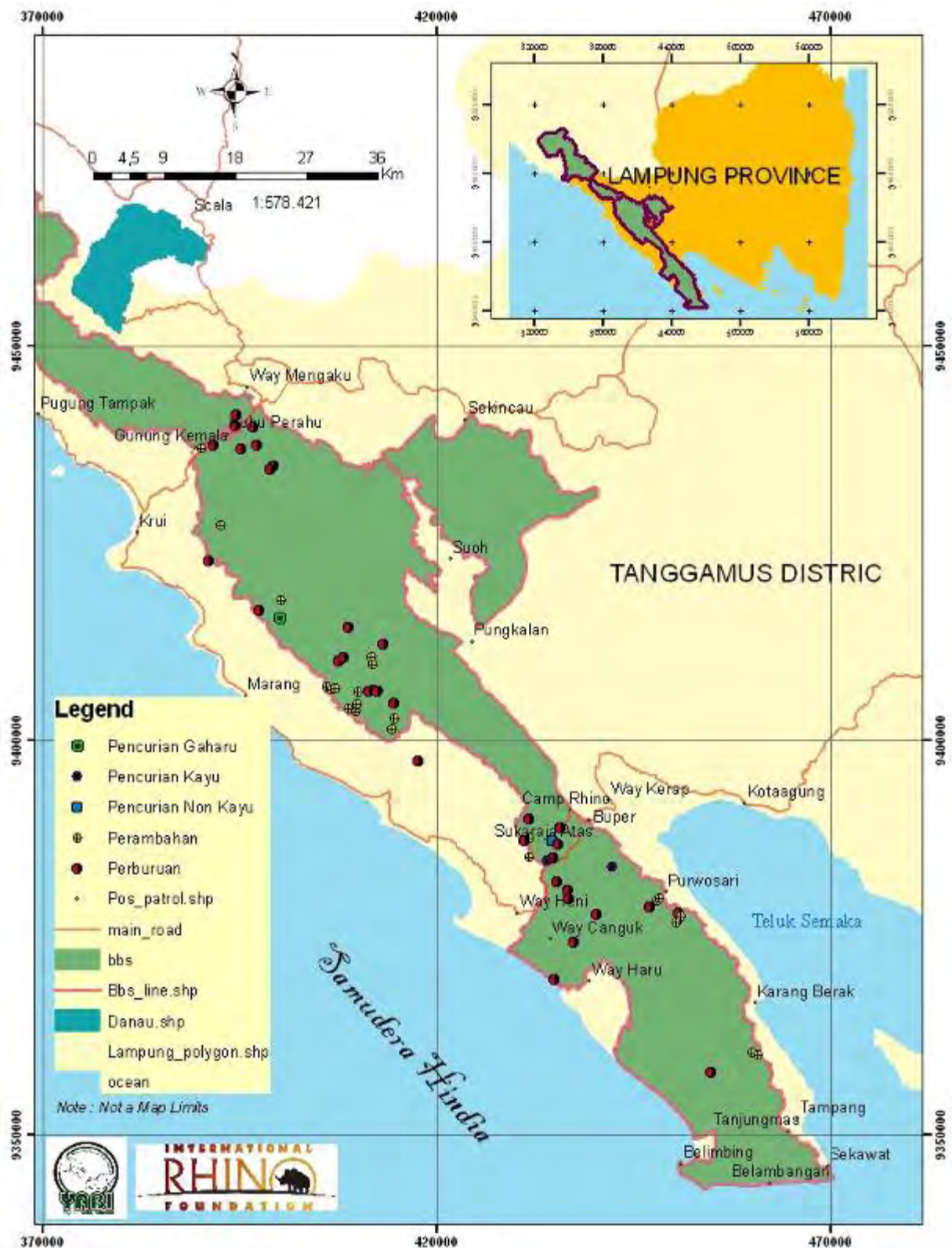
Map-2 : MAP OF RHINO FOOTPRINT DISTRIBUTION DETECTED DURING 2010



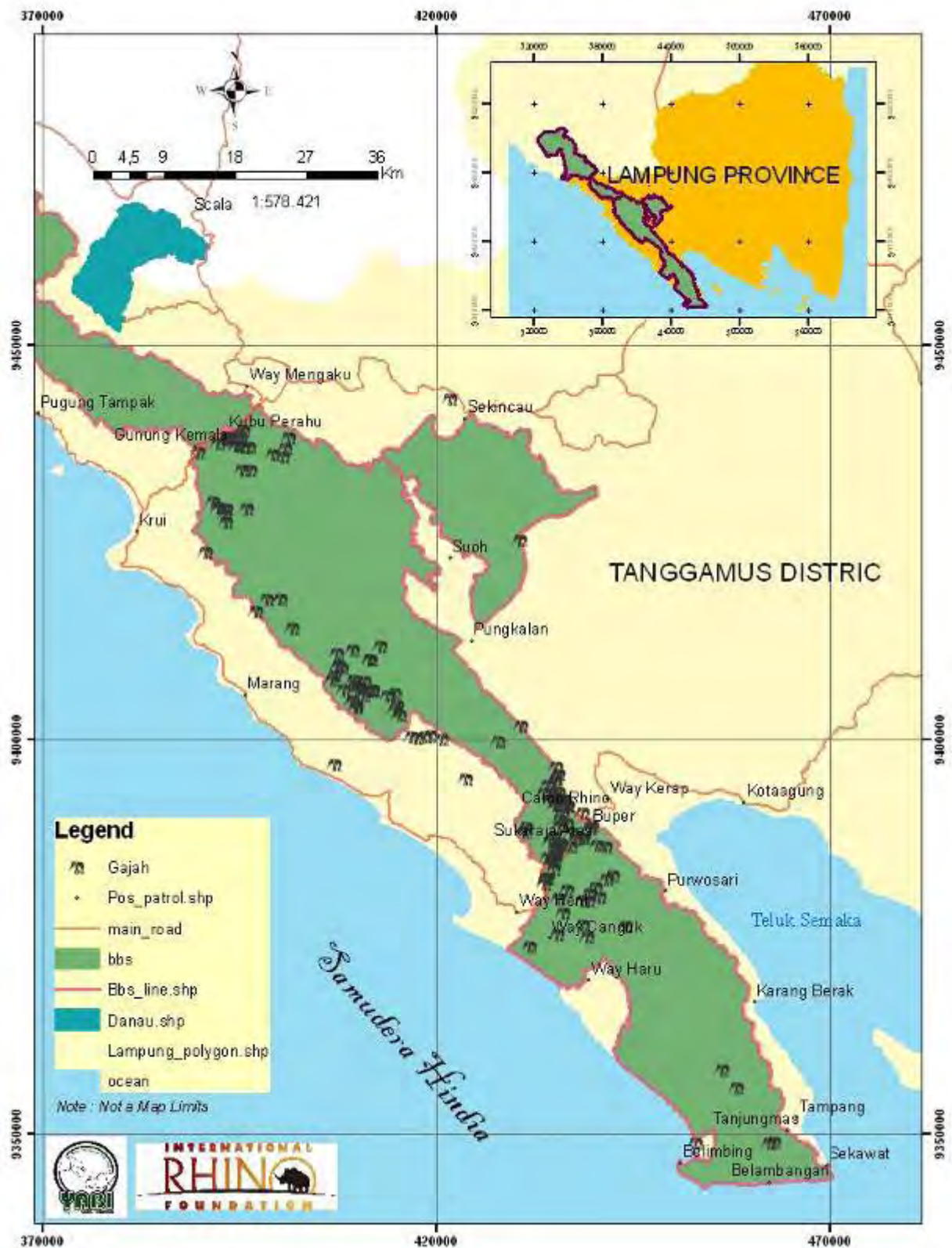
Map-3 : MAP OF WALLOW DISTRIBUTION DETECTED DURING 2010



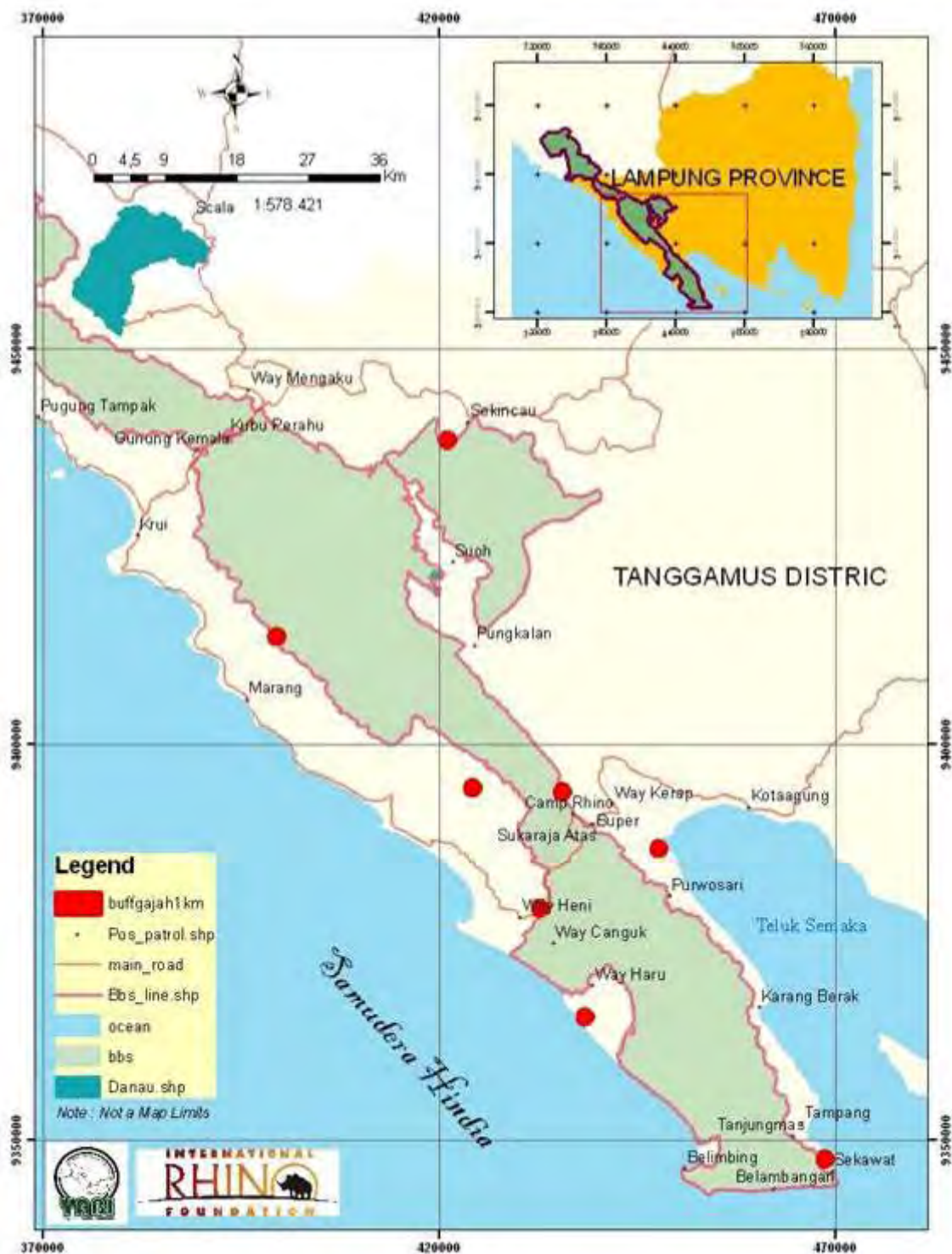
Map-4 : MAP OF OFFENCES DETECTED DURING 2010



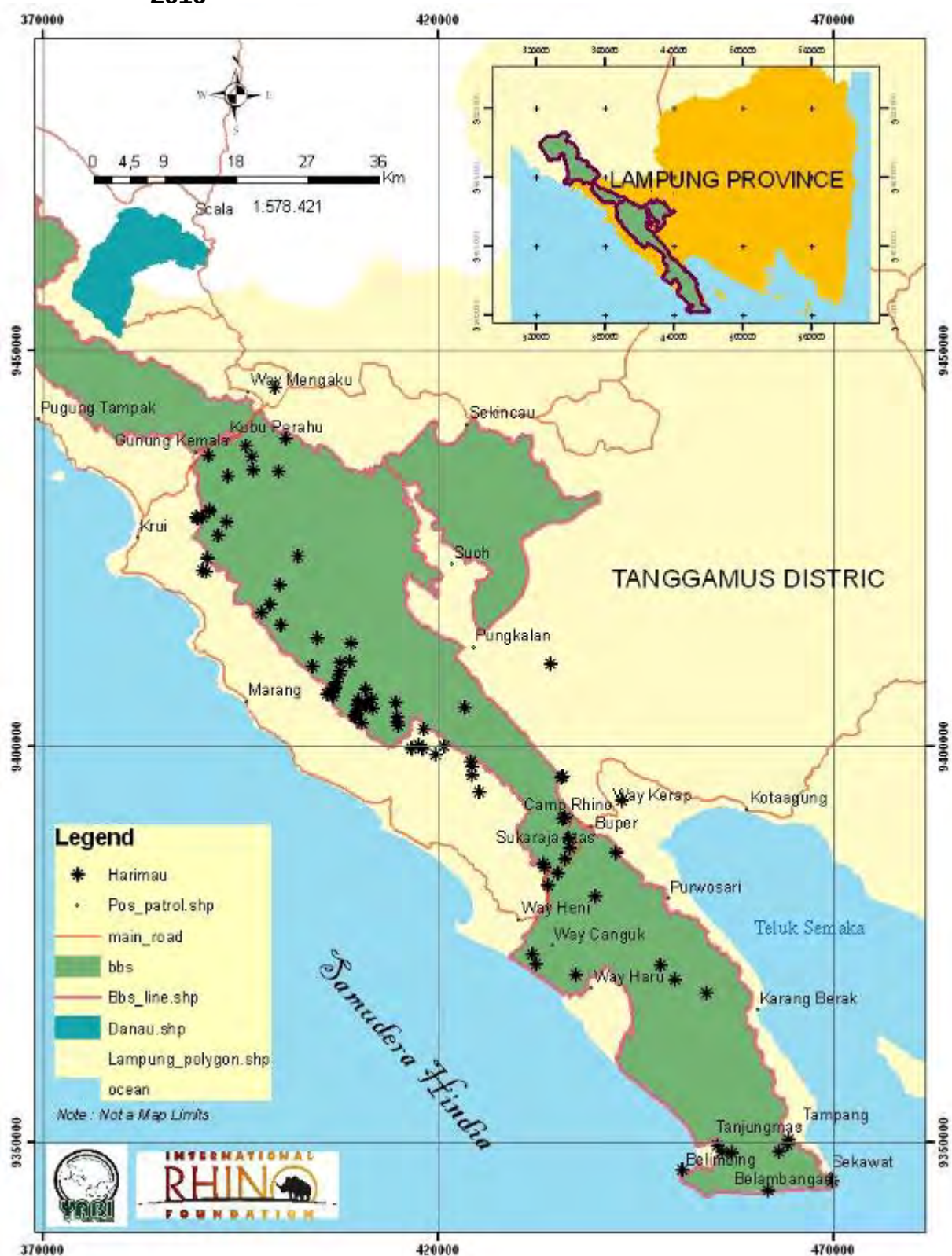
Map-5 : MAP OF ELEPHANT FOOTPRINT DISTRIBUTION DETECTED DURING 2010



Map-6 : MAP OF ELEPHANT CONFLICT DURING 2010

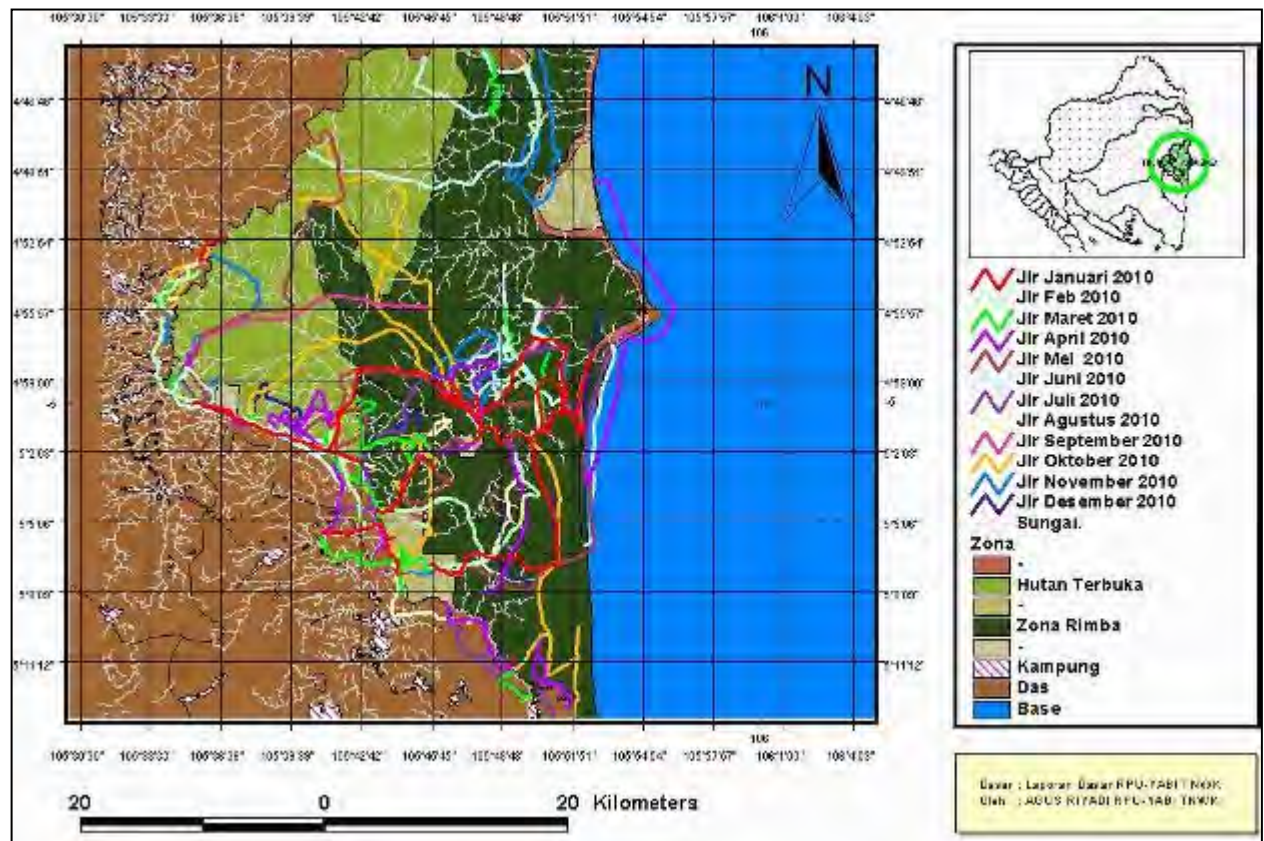


Map-7 : MAP OF TIGER FOOTPRINT DISTRIBUTION DETECTED DURING 2010

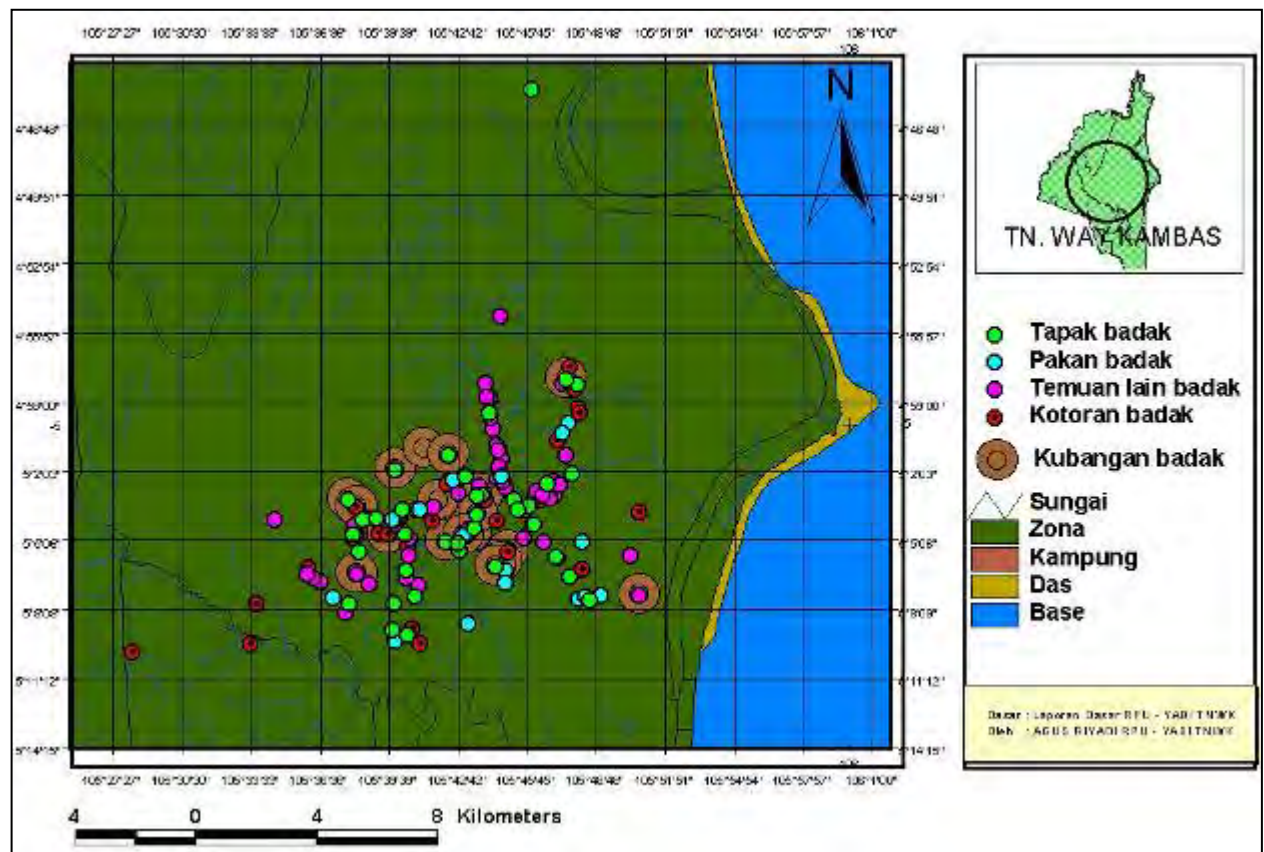


2. WAY KAMBAS NATIONAL PARK

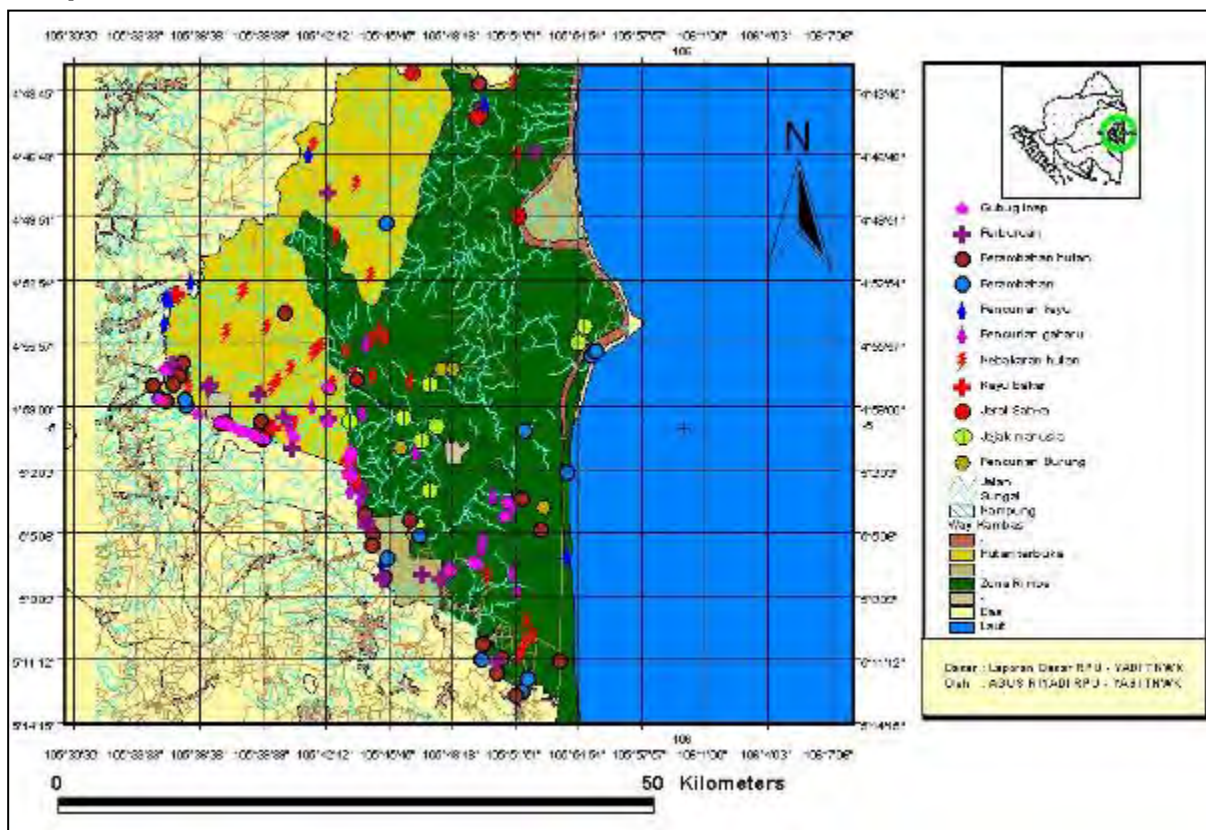
Map-1 : MAP OF PATROL ROUTES OF RPU WK DURING 2010



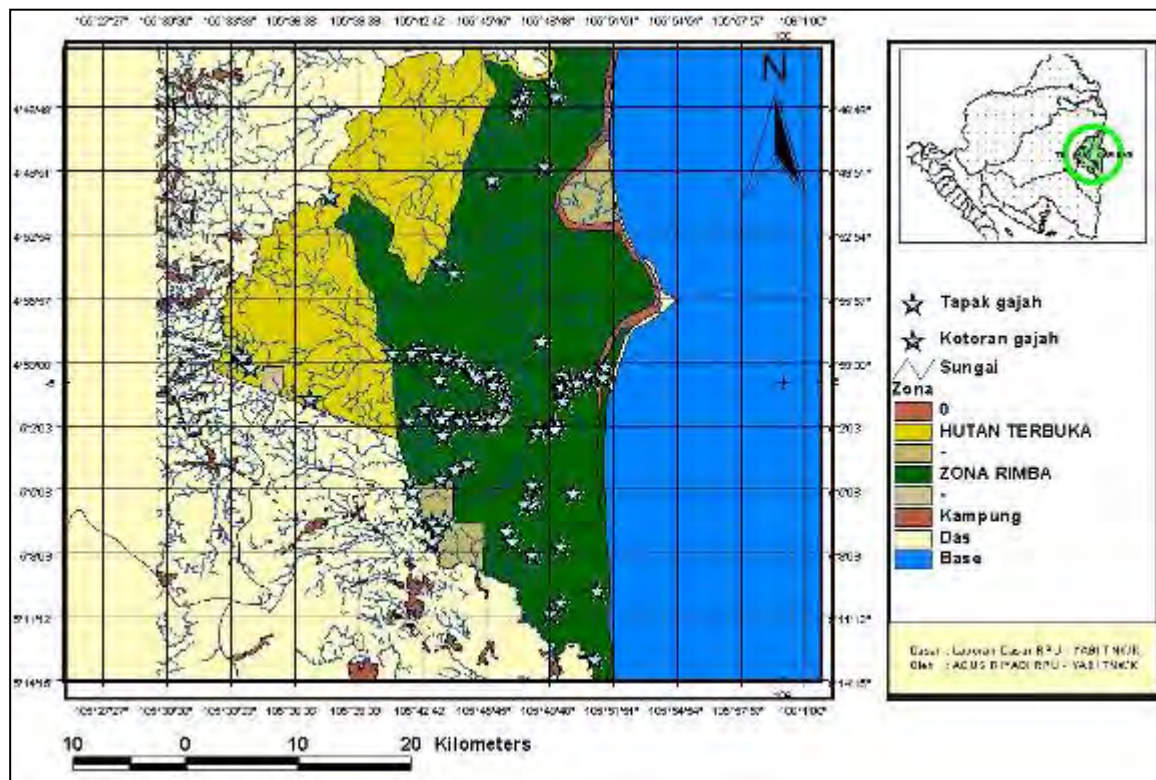
Map-2 : MAP OF RHINO SIGNS DISTRIBUTION DETECTED DURING 2010



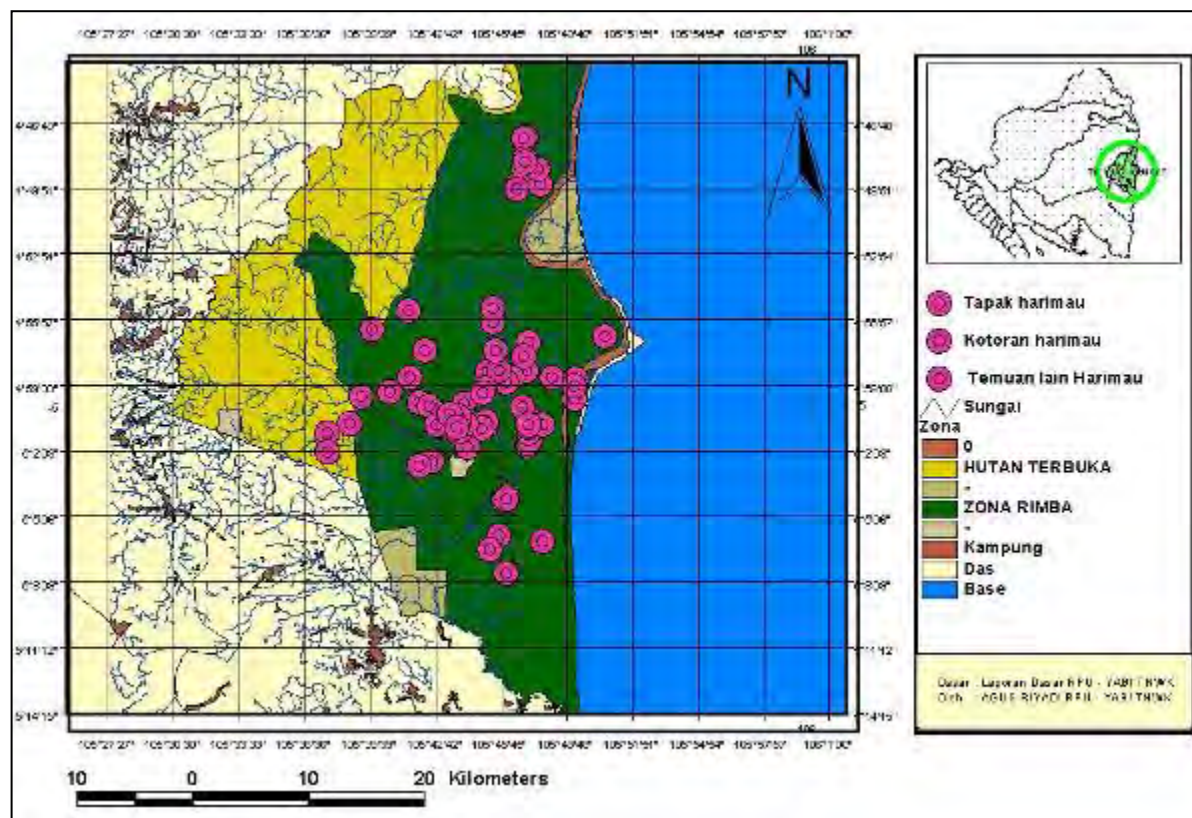
Map-3 : MAP OF OFFENCES DURING 2010



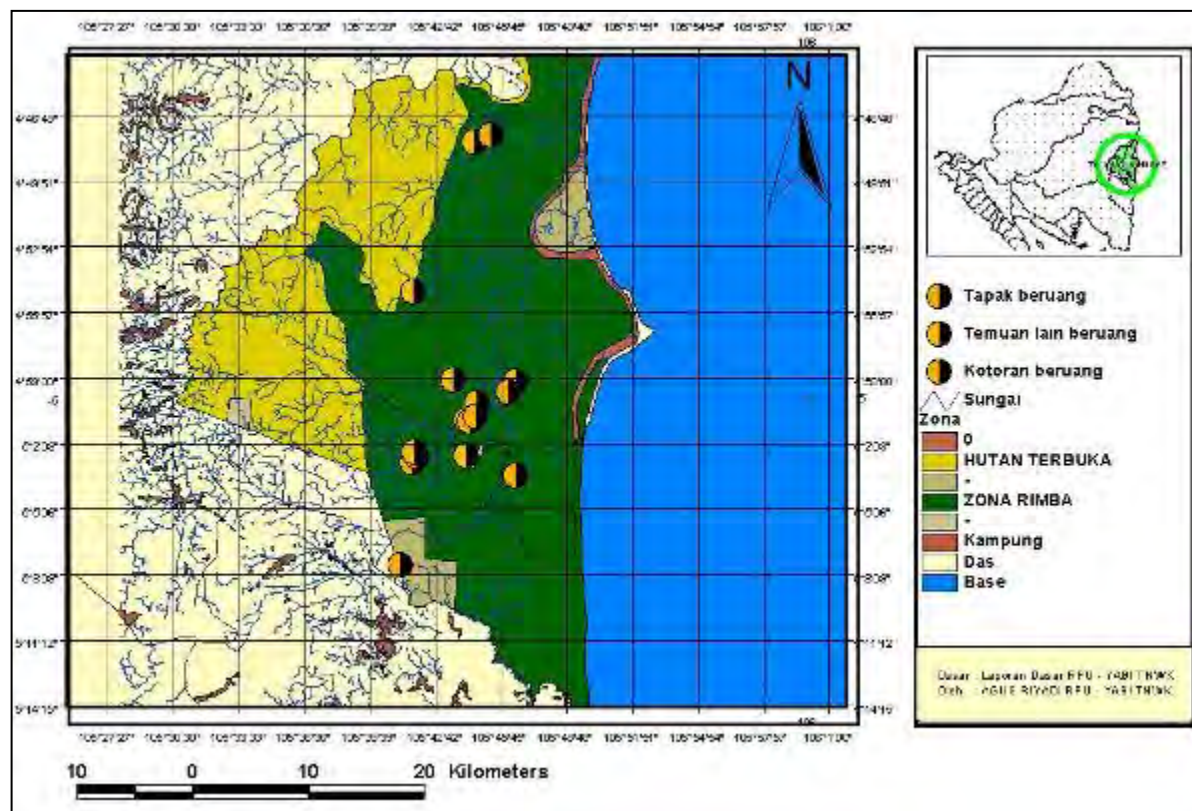
Map-4 : MAP OF ELEPHANT FOOT-PRINT DISTRIBUTION DETECTED DURING 2010



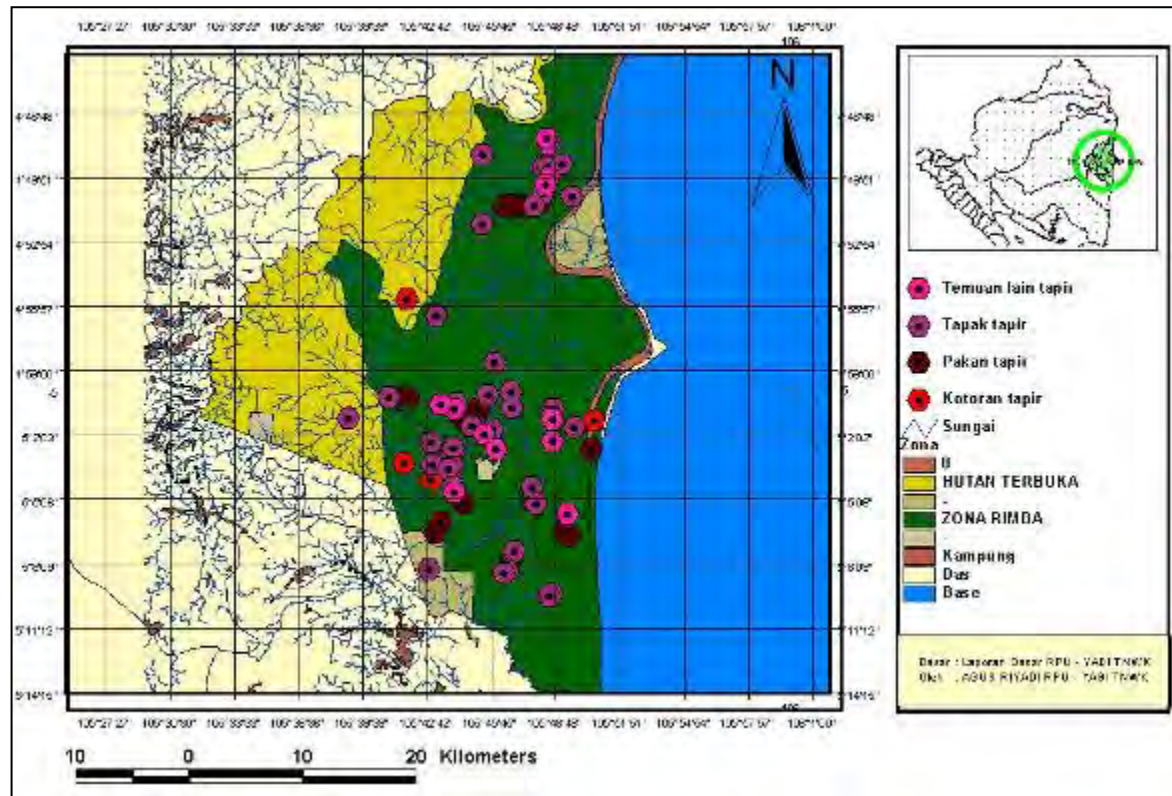
Map-5 : MAP OF TIGER SIGNS DISTRIBUTION DETECTED DURING 2010



Map-6 : MAP OF SUN-BEAR SIGNS DISTRIBUTION DETECTED DURING 2010

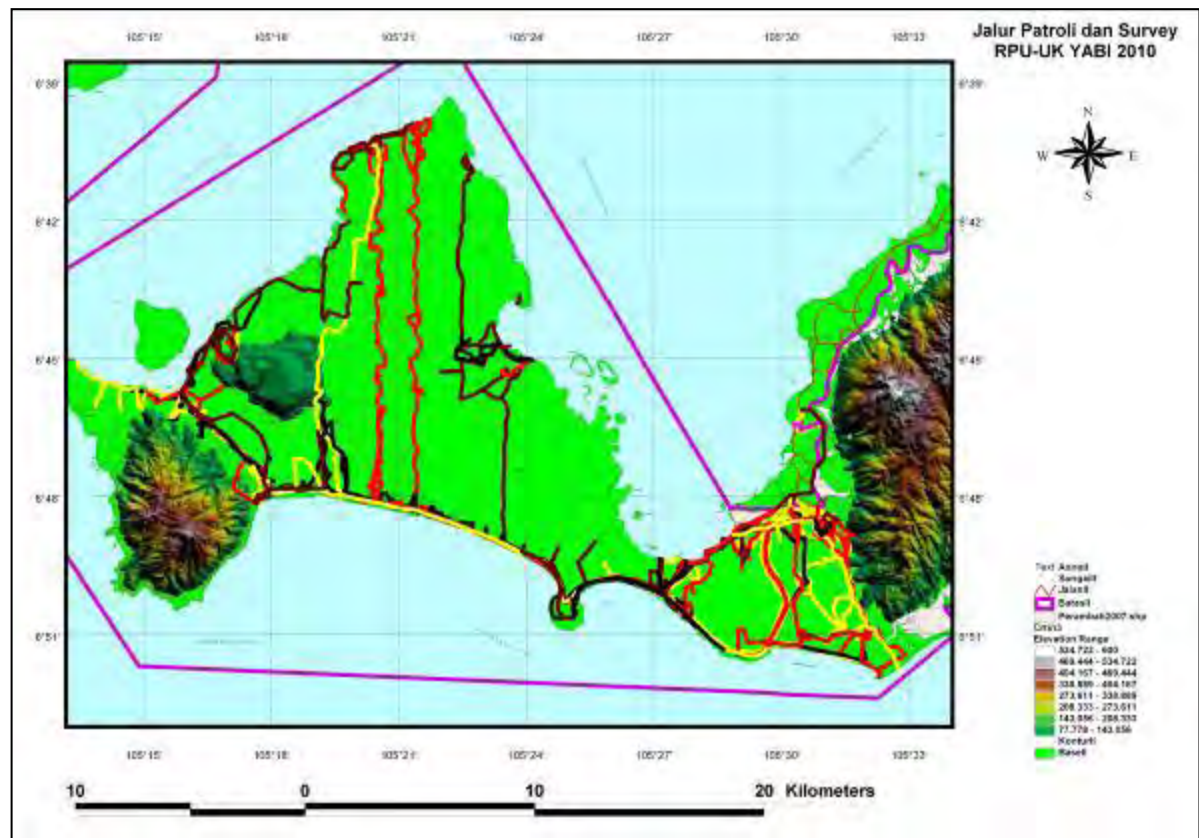


Map-7 : MAP OF TAPIR SIGNS DISTRIBUTION DETECTED DURING 2010

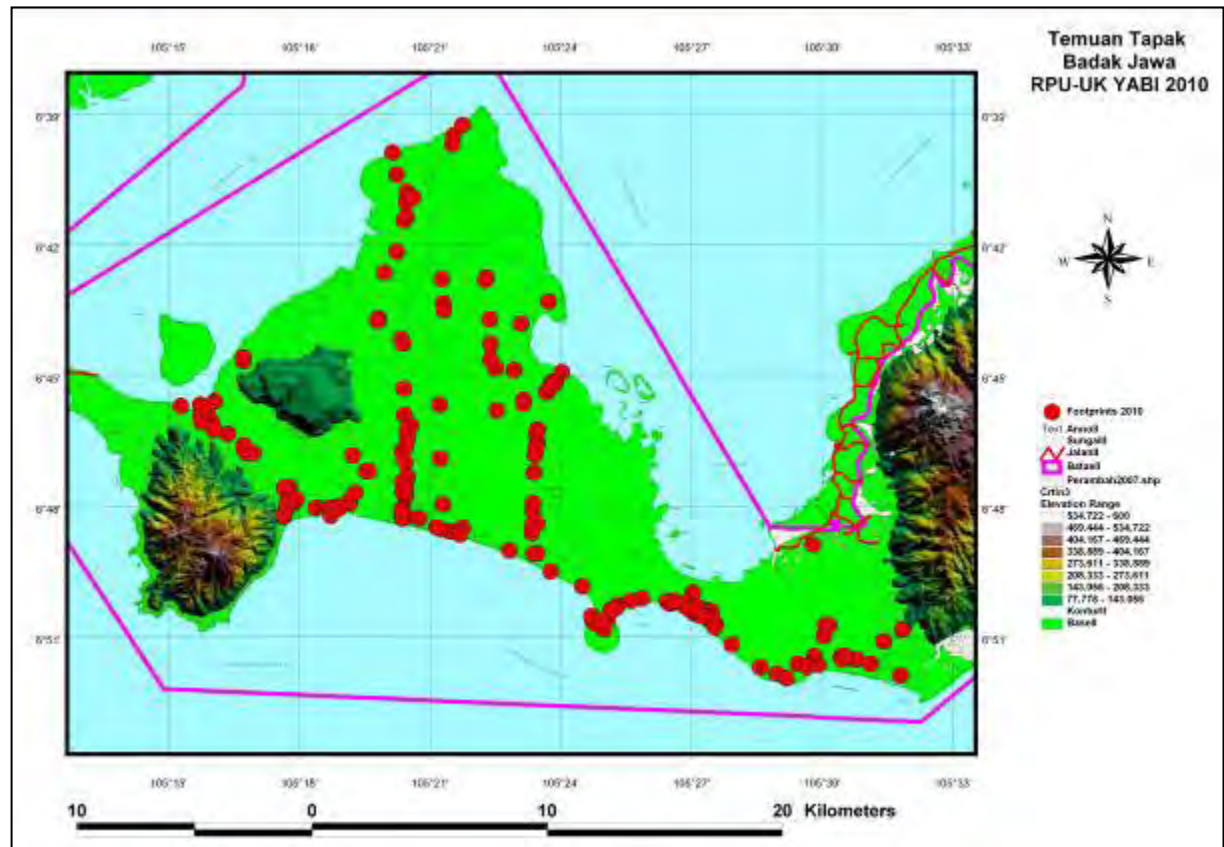


3. UJUNG KULON NATIONAL PARK

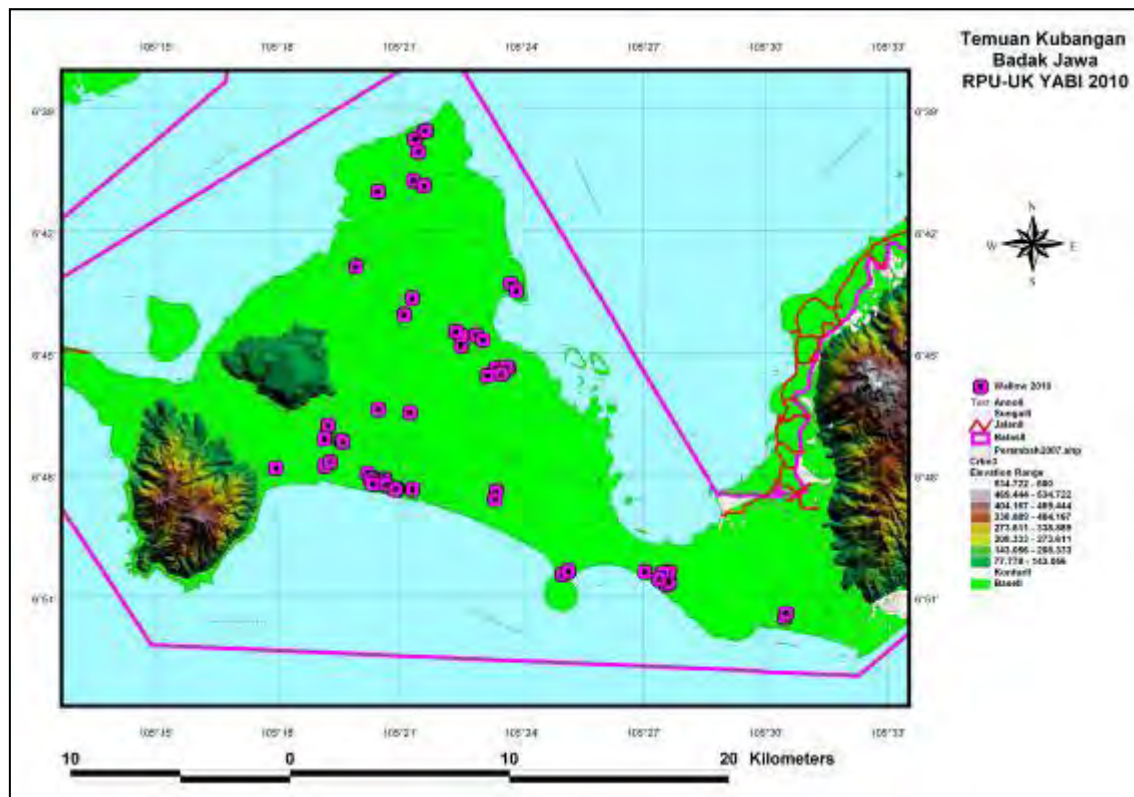
Map-1 : MAP OF PATROL ROUTES OF RPU UK DURING 2010



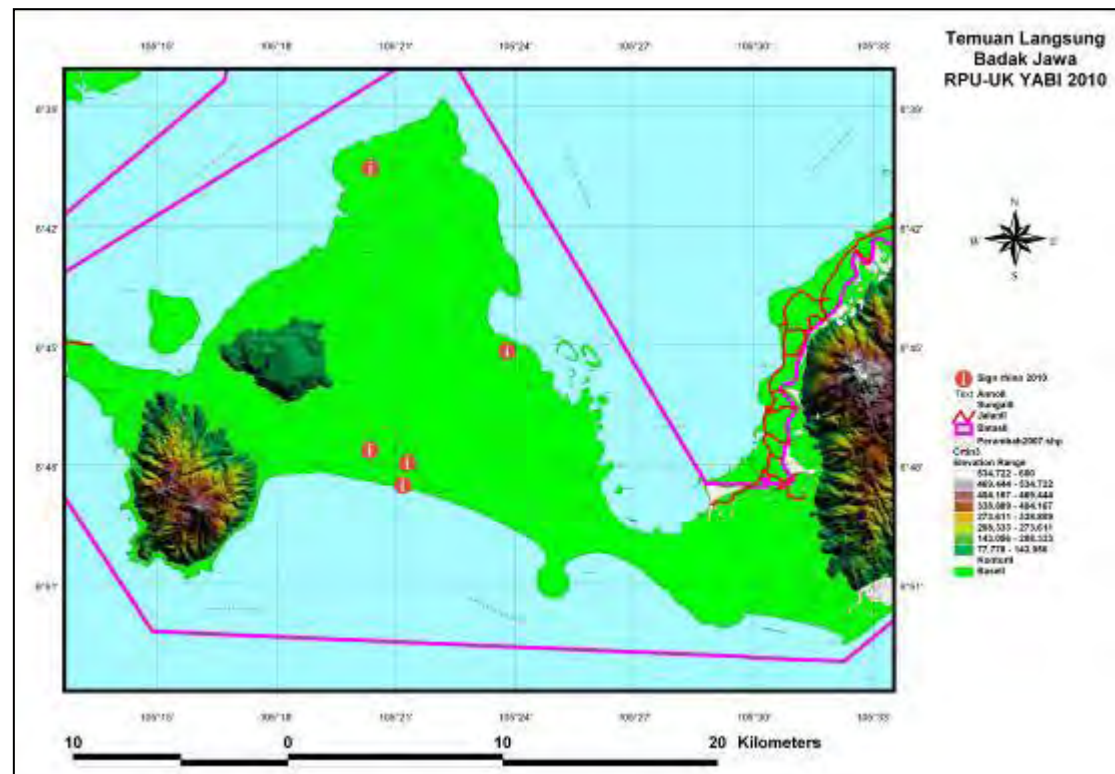
Map-2 : MAP OF RHINO FOOT-PRINT DISTRIBUTION DETECTED DURING 2010



Map-3 : MAP OF WALLOW DISTRIBUTION DETECTED DURING 2010



Map-4 : MAP OF RHINO DIRECT SIGHTING LOCATION DURING 2010



Map-5 : MAP OF OFFENSES DURING 2010

