



Key International Collaborators

Dr. Entang Iskandar – INDONESIA
 Dr. Joko Pamungkas – INDONESIA
 Dr. Meis Nangoy – INDONESIA
 Dr. Mukesh Chalise – NEPAL
 Dr. Dongpo Xia – CHINA
 Dr. M. M. Feeroz – BANGLADESH
 Dr. Penkhae Thamsenanupap – THAILAND
 Dr. Pensri Kyes – THAILAND
 Mr. Pierre Kakule, MS – D.R. CONGO
 Dr. Juan Carlos Serio Silva – MEXICO
 Dr. Dilip Chetry – INDIA

AND MANY MANY MORE....

Presentation Outline

- I. Overview: Field Training Programs
- II. Overview: Community Outreach Education
- III. Milestones & Metrics



GLOBAL PROBLEM

One of the greatest challenges facing many habitat / range countries is the management and conservation of their threatened wildlife populations - due, in part, to a lack of critical resources (trained individuals, funding, and economic incentives).

INTERNATIONAL SOLUTION

International partnerships (*active, long-term*) between habitat and non-habitat country institutions are essential in helping to facilitate the training, community outreach, and research (*and funding base*) needed to promote global conservation and related global health.



University of Washington



**Washington National Primate Research Center
&
Center for Global Field Study**



TRAINING

PROMISE:

The long-term success of any conservation program depends in large part on the ability of the I to take leading roles in the conduct of those programs.

OBJECTIVE:

Education & Field Training

Conservation Biology & Global Health
 Univ. students and professionals from collaborating institutions

INDONESIA PARTNERSHIP

Field Training on Tinjil Island



In collaboration with: IPB-PSSP (Pusat Studi Satwa Primata)

Image courtesy of Google Maps

Tinjil Island - A Natural Habitat Breeding Facility

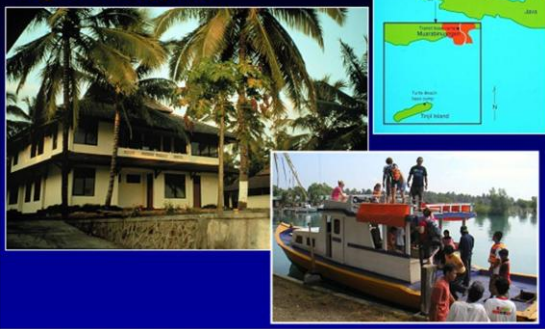
Established: November 1987

Developed through the collaboration between Bogor Agricultural Univ. and several U.S. Primate Research Cnts

Purpose: To serve as a primate resource and conservation program - to provide long-tailed macaques (*Macaca fascicularis*) for biomedical research (e.g., AIDS infectious disease, etc.) while also contributing to Indonesia's primate conservation efforts.



Logistical Support



Field Training on Tinjil Island

Conducted annually since 1991

1991 - "Field Course in Primate Behavior & Ecology"

1995 - "International Field Study Program-Indonesia" participants from U. of Washington and other U.S. institutions

2011 - "Field Course in Conservation Biology & Global Health: At the Human-Environment Interface"

2014

19th/24th annual

Field Course in Conservation Biology & Global Health



"Field Course in Conservation Biology & Global Health: At the Human-Environment Interface"

Course Format: - 3 weeks in length -

1. Daily Lectures & Discussion Group
2. Field Exercises
3. Individual Projects
4. Community Outreach Education

Field Course in Conservation Biology & Global Health

Course Format:

1. Daily Lectures -

- Conservation Biology
- Field Study Methods
- Behavioral Sampling
- Distance Sampling
- Biological Sampling
- Vegetation Analysis
- Primate Behavior & Ecology
- Management & Conservation
- Human-Wildlife Interface
- Issues in Global Health
- Emerging Infectious Disease
- Medical Entomology
- Biomedical Research
- Translational Science

Standardized Core Curriculum
of principles, methods, and applications
in Conservation Biology & Global Health



Field Course in Conservation Biology & Global Health

Course Format

1. & Group Discussion

Participants lead
discussions of
assigned readings in
conservation biology
& global health



Field Course in Conservation Biology & Global Health

Course Format:

1. Daily Lectures & Group Discussion

2. Field Exercises



"Field Course in Conservation Biology & Global Health"



Field Technology:

- Radio Telemetry
- Camera Trap
- Range Finder
- Blow Pipe
- GPS
- UAV - "Drone"



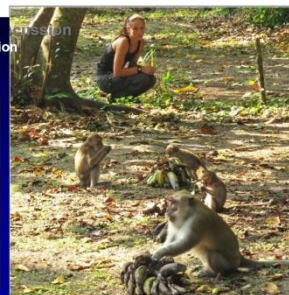
Field Course in Conservation Biology & Global Health

Course Format:

1. Daily Lectures & Group Discussion

2. Field Exercises

3. Individual Projects



Field Course in Conservation Biology & Global Health

Course Format:

1. Daily Lectures & Group Discussion

2. Field Exercises

3. Individual Projects



Field Course in Conservation Biology & Global Health

Course Format:

1. Daily Lectures & Group Discussion
2. Field Exercises
3. Individual Projects
4. **Community Outreach Education**



INDONESIA PARTNERSHIP

Est. 1996



In collaboration with:

- Sam Ratulangi Univ. (UNSRAT) & PSSP-IPB - since 1996

Image courtesy of Google Maps

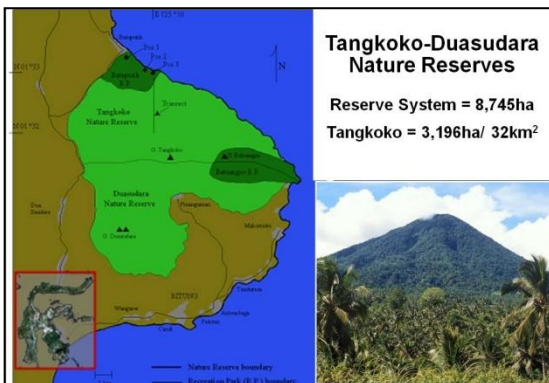
Field Training at Tangkoko Nature Reserve

(annually since 1998)



In collaboration with:
UNSRAT & IPB-PSSP

Image courtesy of Google Maps





Field Training at Tangkoko Nature Reserve

Conducted annually since 1998

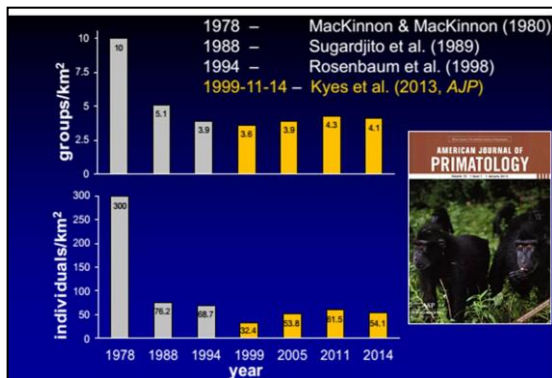
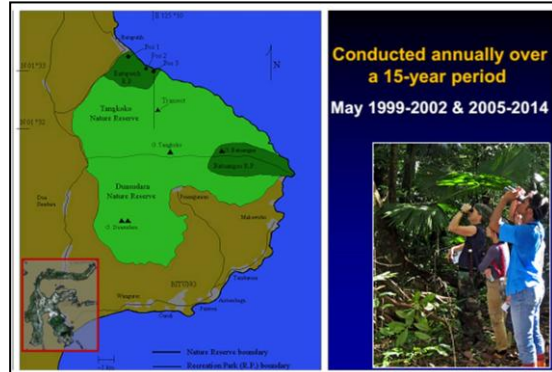
"Field Course in Conservation Biology & Global Health:
At the Human-Environment Interface"

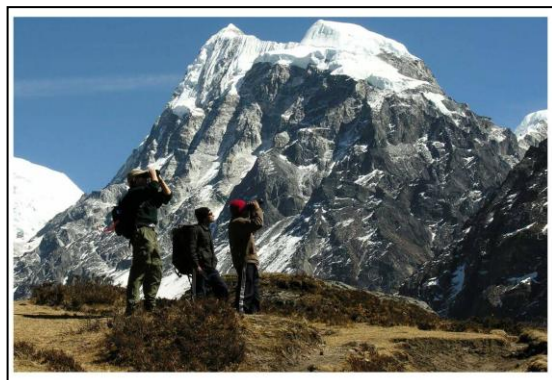
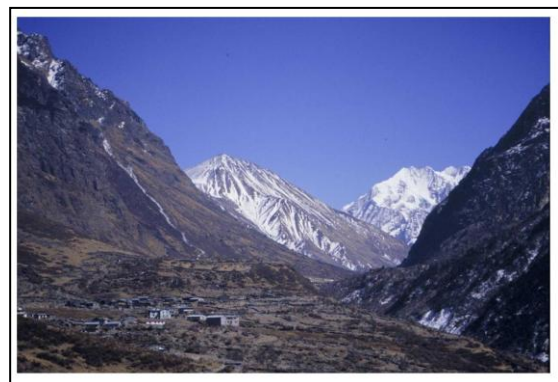
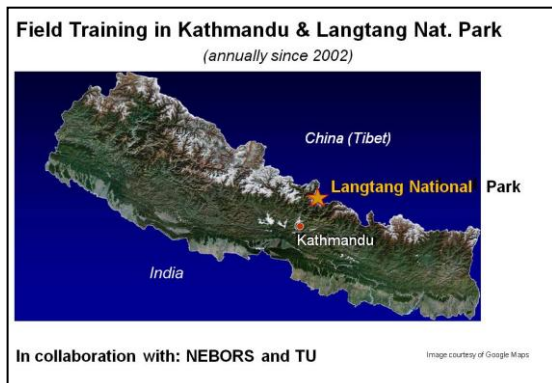


"Field Course in Conservation Biology & Global Health"

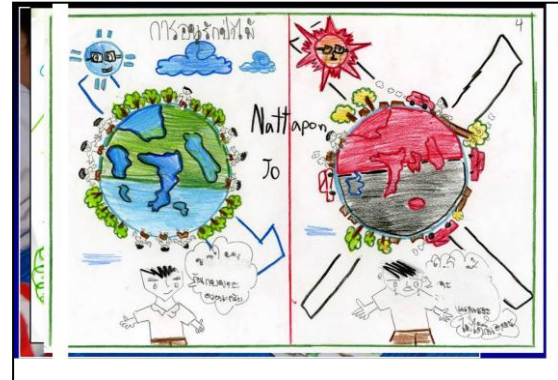


"Field Course in Conservation Biology & Global Health"









Milestones & Metrics < TRAINING

Global Summary:

- 89 Field Courses conducted since 1991
- Tinji Island - 25th Annual Field Course (this Aug 2015)
- 1,494 Participants representing 16 countries
undergrad and grad students (e.g., bio, zool, forestry, vet.)
univ. faculty, nat. park rangers, gov. forestry dept. staff,
conservation NGO staff, lab research staff, zoo keepers,
park tourist guides, enviro. journalists (print & radio), etc.
- 118 Institutions/Organizations represented:
Universities, Vet schools, Nat. Parks, Gov. Forestry Depts., NGOs,
Biomed Research Cnt., Zoos, Sanctuaries, Print Media, Radio, etc

Field Training Assessment:

1) PRE-Course/ POST-Course Knowledge Assessment Exam
(beginning January 2008)

All classes have shown a significant increase in exam scores from the Pre-course to the Post-course exam (n=48*, t-test, p< .0001).

PRE: 51, POST: 73

(*48 field courses, 674 participants)

Field Training Assessment:

2) Course Evaluation
(beginning January 2010)

Response:*

1. Yes = 99.6%
2. Yes = 99.6%
3. Yes = 94.0%
4. Yes = 99.0%
5. 4.6 (out of 5)

(*433 participants, 33 field courses)

Field Training Assessment

3) Global Field Study Alumni Network

(est. 2010)

-to be launched soon

-Will provide an interactive, web-based information resource site to facilitate information sharing among alumni.

-Will provide a mechanism to track alumni career paths and involvement in conservation/global health-related fields.

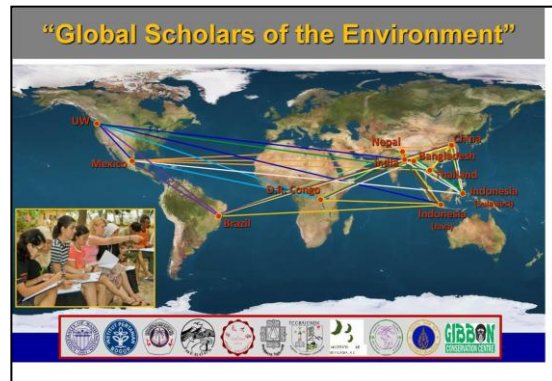


Milestones & Metrics OUTREACH



Global Summary:

- 112 Community Outreach Education programs since 2001
- 5,800 Children (K-12) in 8 countries
- 53 Schools represented



CONCLUSION

One of the greatest challenges facing many habitat / range countries is the management and conservation of their threatened wildlife populations.

International partnerships are helping to facilitate the **training**, **outreach**, and **research** (and funding base) needed to promote environmental conservation and related global health on a global scale.

Acknowledgements

Training & Community Outreach has been supported in part by:

National Institutes of Health (P510D010425)

One Earth Institute

American Society of Primatologists

Woodland Park Zoo

International Primatological Society

IPS Lawrence Jacobsen Ed. Devel. Award

Fulbright Program

Global Partnerships in Field Training & Community Outreach Education: Promoting Conservation Biology & Global Health

