

The Direct and Indirect Impacts of Logging on Mammals in Sabah, Borneo

Amy Fitzmaurice MSc
2014

Amy.v.fitzmaurice@hotmail.co.uk





Logging and wildlife hunting



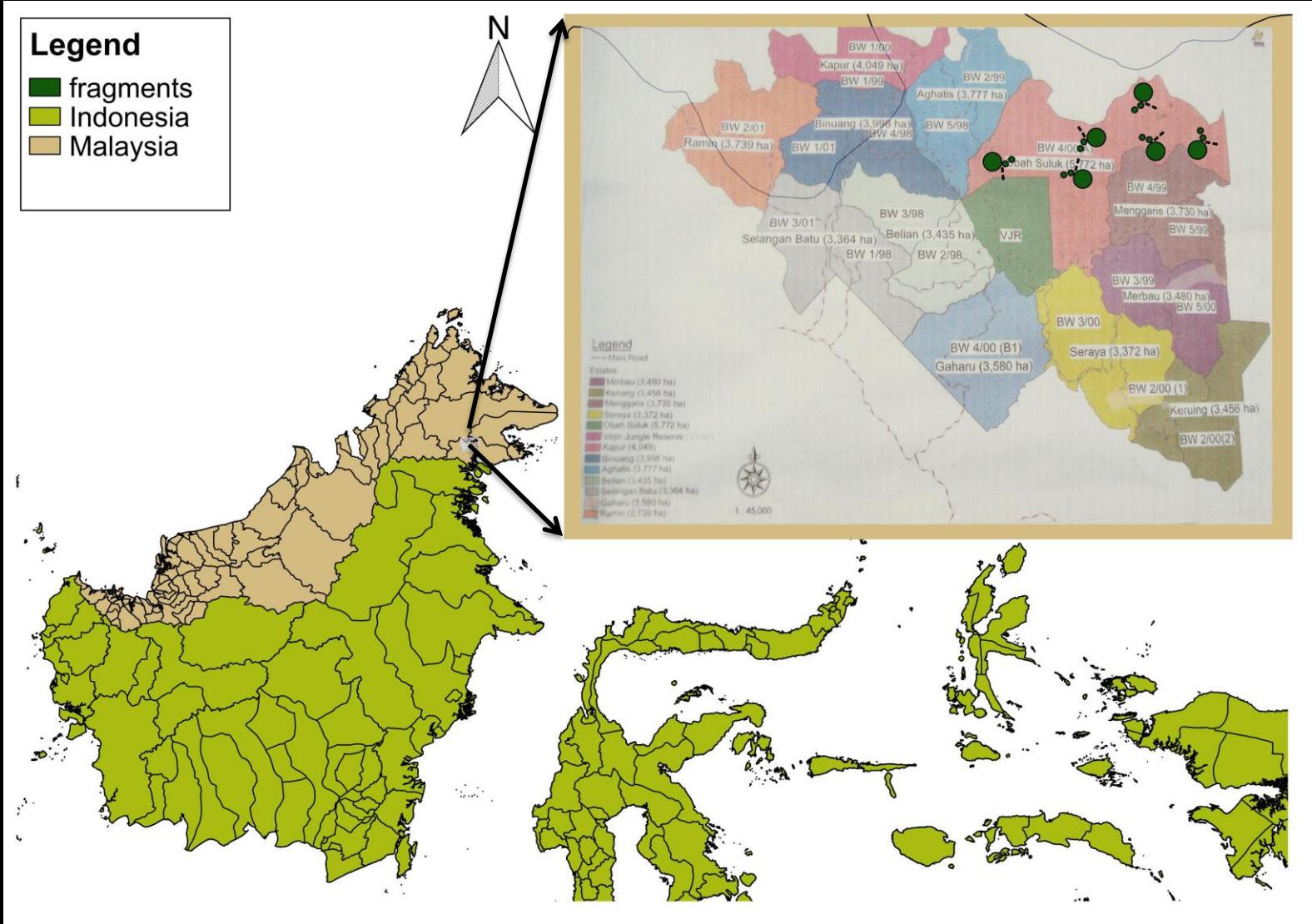
©Amy Fitzmaurice



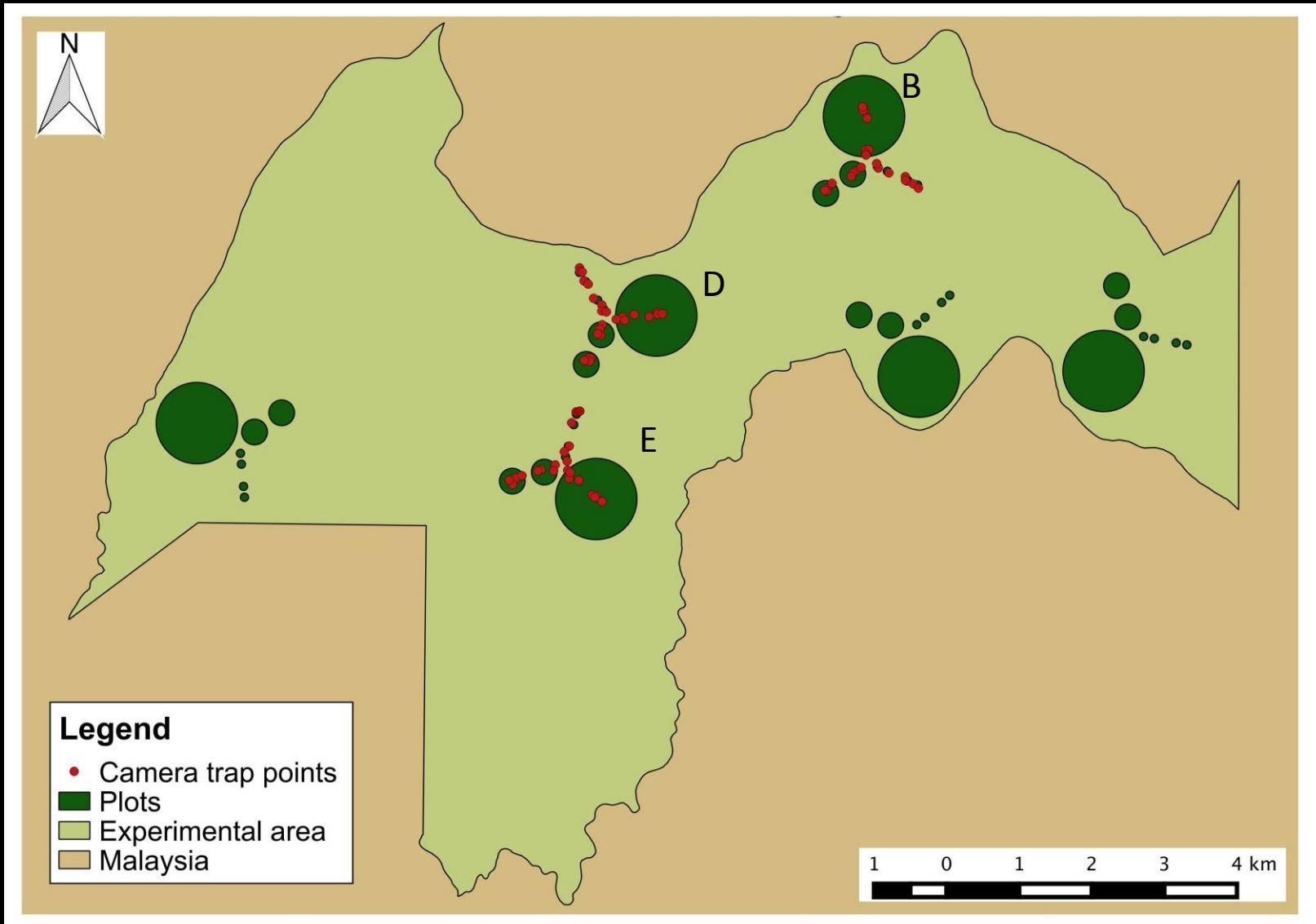
**Barbaric bombing
of wild boar in
Wildlife Sanctuary**

©Danau Girang Field Centre

Study Area



Camera trapping

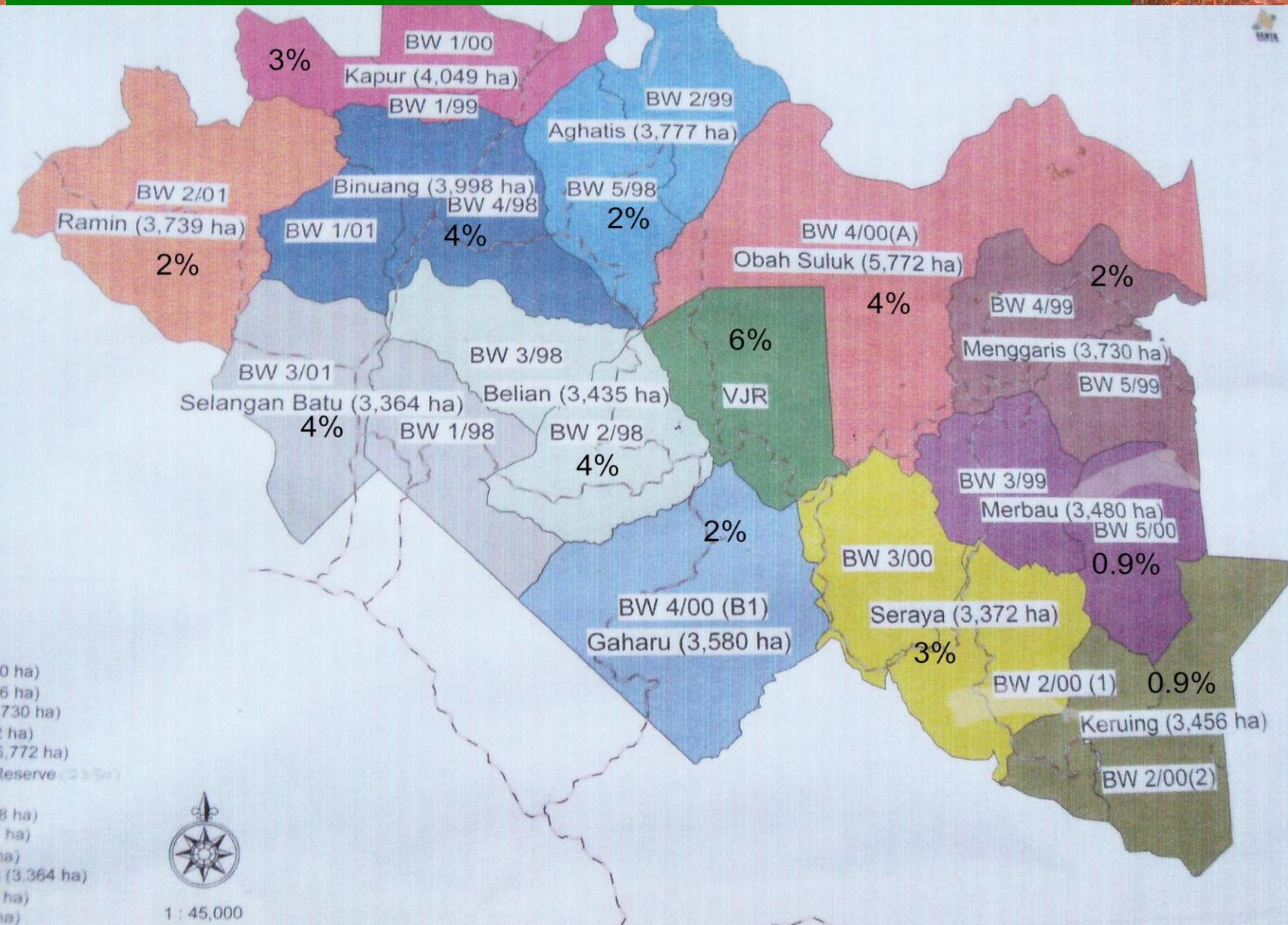




Results – Social surveys

- 112 people completed the questionnaire.
- Knowledge of wildlife varied per species.
- Knowledge of wildlife varied depending on socio-demographic variables.
- Logging is main perceived activity affecting wildlife.
- Wildlife hunting is occurring within the study area.
- Single Count Technique

Results – Social surveys



Results – Social surveys



© Oliver Wearn (2013)



Results – Species data

- Camera trapping detected 29 mammal species.
- Community composition and species richness differences.
- Species occupancy in relation to logging disturbance varied between small, medium and large mammals



Results – Camera trapping



2014-06-02 8:47:21 AM M 2/10

40 24°C



CN41

RECONYX

Results – Camera trapping

2014-05-27 1:22:59 AM M 1/10

23°C



CN35

RECONYX

Results – Camera trapping

2014-07-05 9:13:23 AM M 4/10

22°C



CN49

RECONYX

Results – Camera trapping



2014-07-09 3:38:32 PM M 7/10

24°C



Results – Camera trapping

2014-05-30 8:17:28 PM M 1/10

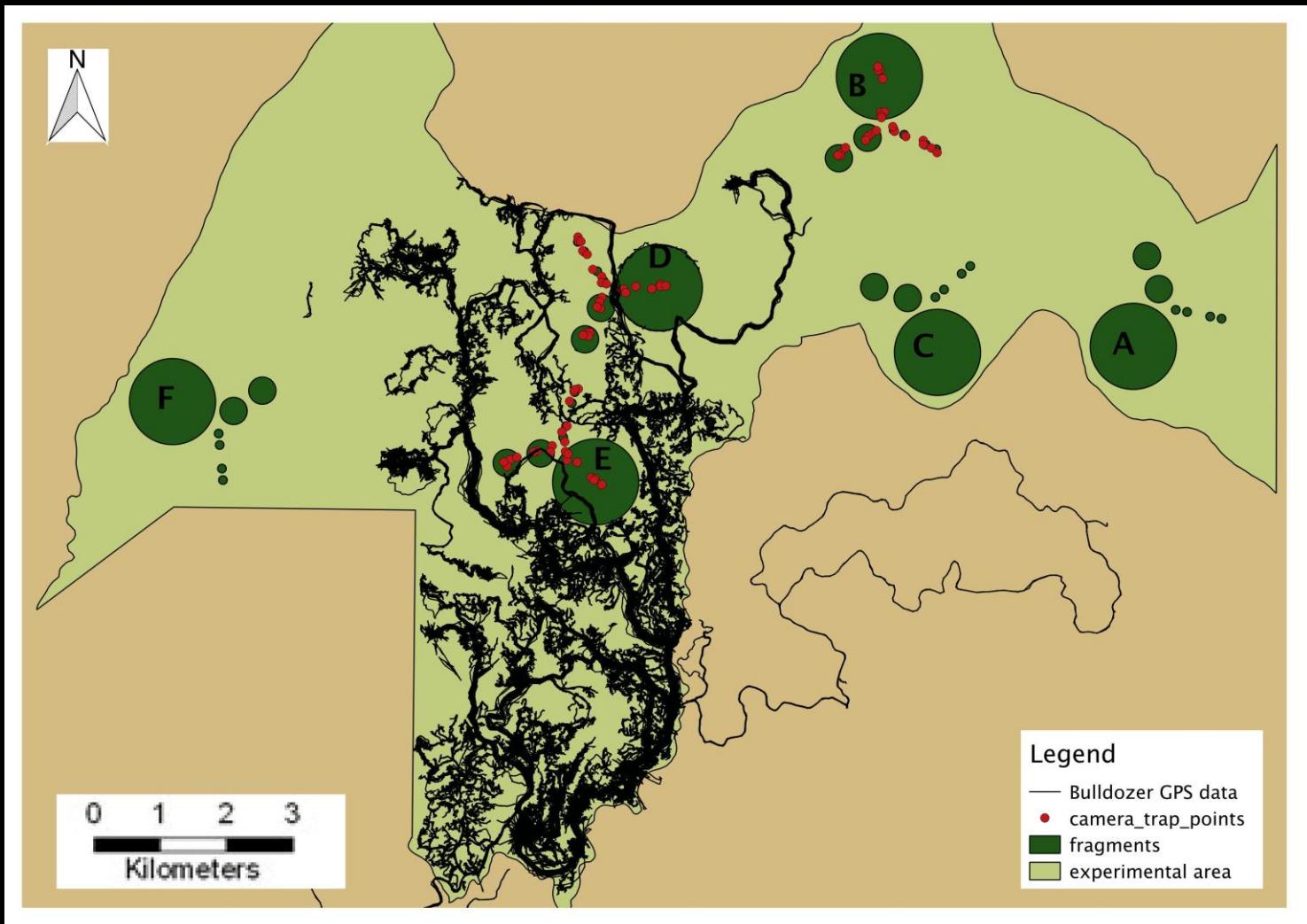
23°C



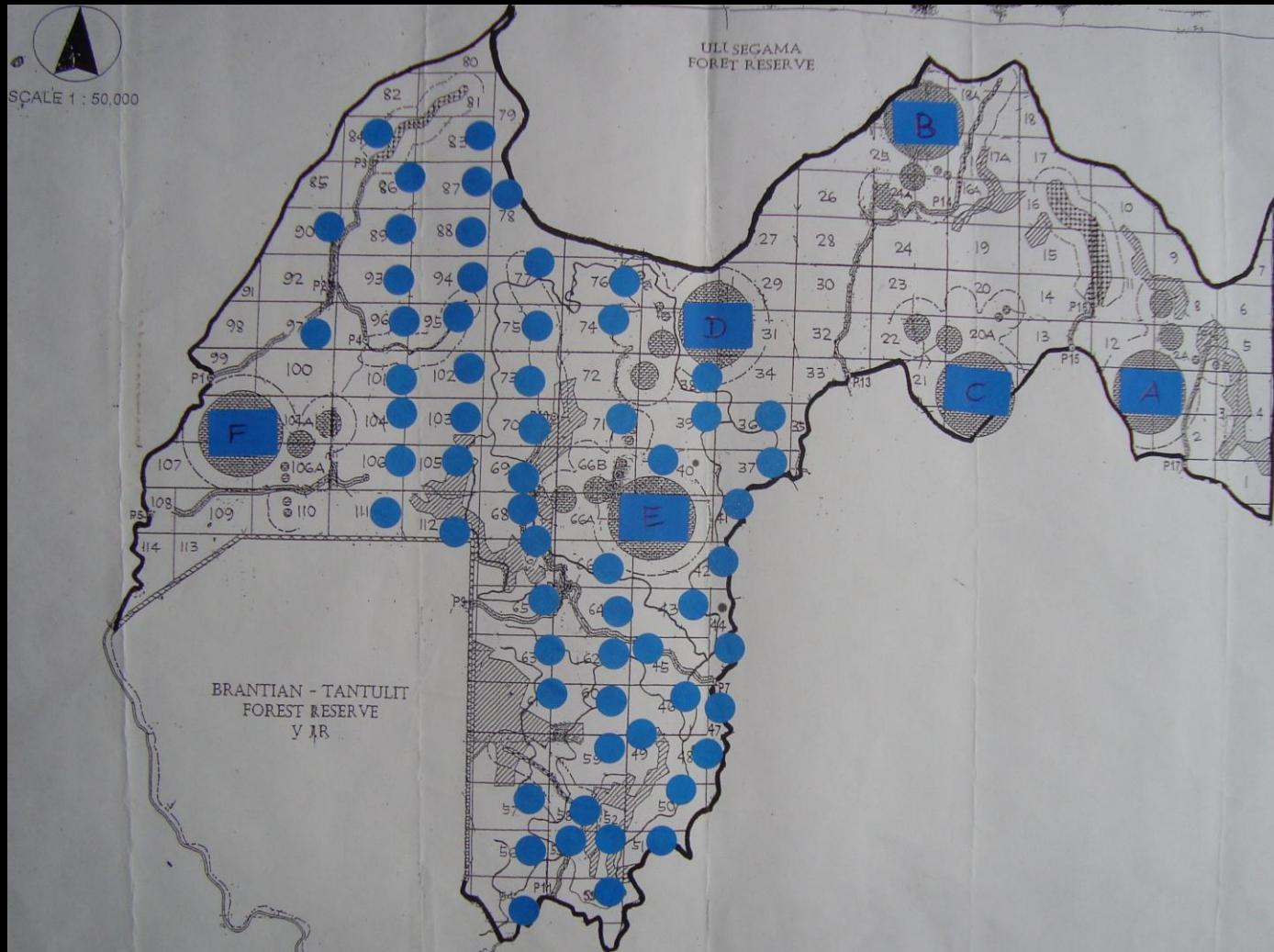
CN33

RECONYX

Results – logging bulldozers

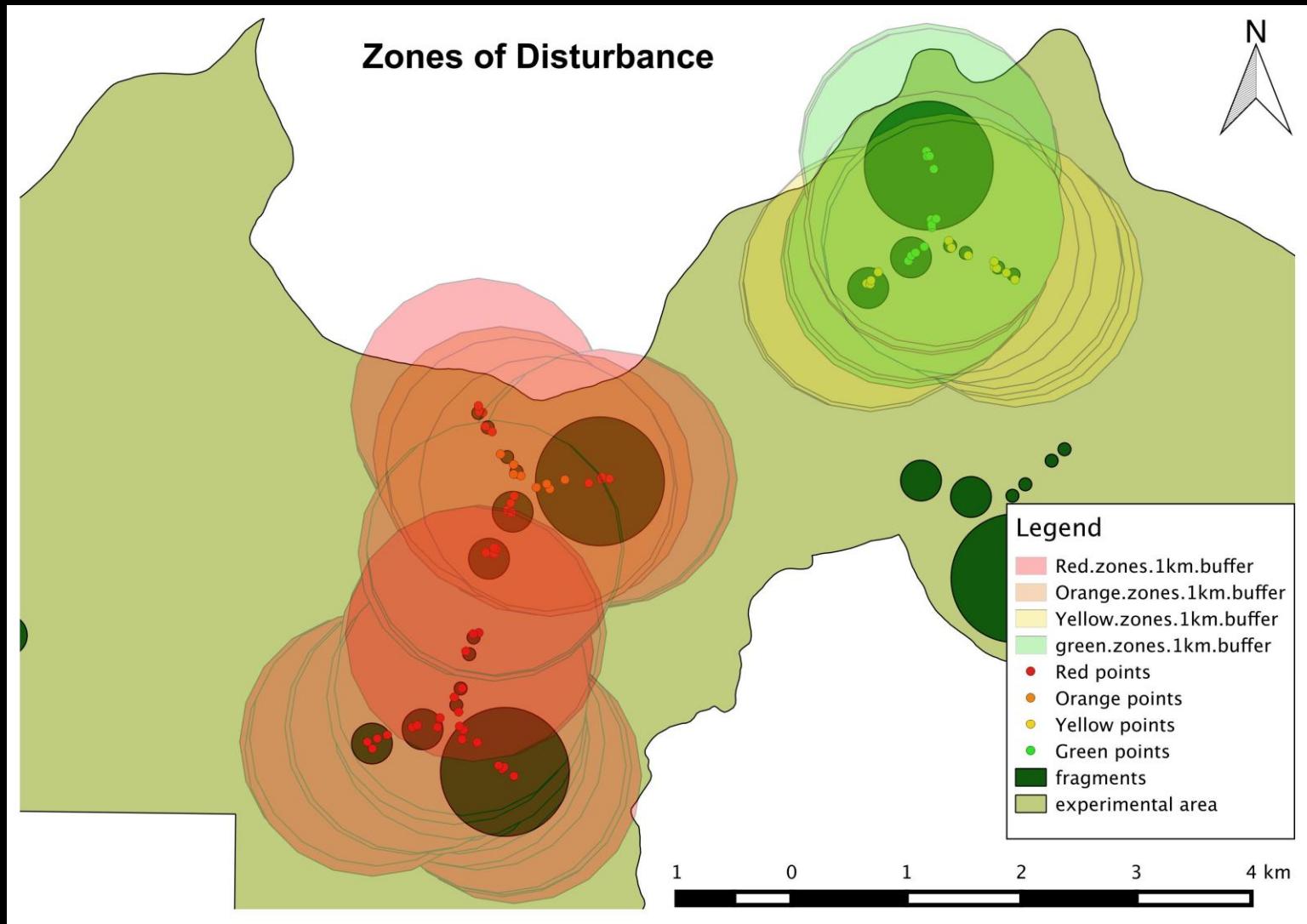


Results – logging extraction





Results – Zones of disturbance



Future

- Analyse species occupancy between before logging and during logging.
- Analyse species distributions between before logging and during logging.
- Investigate zones of disturbance in relation to before logging data set.
- Investigate whether research is affecting research.
- Add new data set to analysis.



Research recommendations

- Long term data sets from camera trapping.
- Radio tracking species.
- Test buffers to reduce disturbance.
- Wildlife hunting surveys.

Thank You!



Any Questions?



2014-06-08 11:57:27 AM M 1/10

28°C

