Forest (and) primates: Conservation and ecology of the endemic primates of Java and Borneo
Nijman, V.

Citation for published version (APA):
Nijman, V. (2001). Forest (and) primates: Conservation and ecology of the endemic primates of Java and Borneo Wageningen: Tropenbos International

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: http://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.
LIST OF TABLES AND FIGURES

LIST OF TABLES

Table 1.1  Endemic primates on Borneo and Java and their IUCN threat status .......................... 5
Table 1.2  Selected study sites on Borneo and Java where long-term studies on endemic primates have been conducted ................................................................. 8
Table 2.1  Density and biomass estimates for Bornean gibbon *Hylobates muelleri* for two areas in East Kalimantan, Indonesia ......................................................... 23
Table 2.2  Two-way Analysis of Variance of density estimates in Bornean gibbon *Hylobates muelleri* ............................................................ 25
Table 3.1  Behavioural responses of two gibbons species to an observer in disturbed versus undisturbed habitats ............................................................... 37
Table 3.2  Number of days *Hylobates moloch* groups were heard calling at different times of the day ............................................................... 39
Table 5.1  Pelage characteristics of grizzled leaf monkey *Presbytis comata* ............................. 66
Table 6.1  Study sites on the island of Java, Indonesia .............................................................................. 76
Table 6.2  Localities with records of grizzled leaf monkey *Presbytis comata* ............................. 77
Table 8.1  Javan gibbon, grizzled leaf monkey and ebony leaf monkey observed in the Dieng mountains ......................................................... 122
Table 8.2  Estimates of the numbers of Javan gibbon present at the different vegetation zones on the Dieng mountains following the assumptions of Supriatna et al. (1994) ................................................................. 124
Table 8.3  Estimates of the numbers of Javan gibbon present in the different vegetation zones on the Dieng mountains using the assumptions of Kappeler (1984) and Asquith et al. (1995) ......................................................... 125
Table 8.4  Endemic and restricted range bird species recorded in the Dieng mountains ................................................................. 127
Table 9.1  Priority areas for the protection of proboscis monkeys *Nasalis larvatus* in Kalimantan, Indonesia .............................................................................. 134
Table 9.2  Proboscis monkey *Nasalis larvatus* habitat (km²) in Kalimantan (after MacKinnon et al., 1996) ................................................................. 135
Table 10.1  Summary of the numbers of proboscis monkeys involved in the Pulau Kaget translocation .............................................................................. 150
Table 11.1  Centers of endemism or species-richness in northern Borneo .............................................. 155
Table 11.2  Habitat and altitudinal limits of the primates of Borneo ...................................................... 157
Table 11.3  List of large reserves that rank(ed) among the highest in primate species richness ................................................................. 164
Table 12.1  Estimates of densities of grizzled leaf monkey *Presbytis comata* in Java ................................................................. 172
Table 12.2  Densities of white-fronted leaf monkey *Presbytis frontata* in Borneo ................................................................. 174
Table 12.3  Estimated number of Javan gibbons *Hylobates moloch* present in Java ................................................................. 179
LIST OF FIGURES

Figure 2.1  Bornean gibbon *Hylobates muelleri* in Sungai Wain protection forest ............ 15
Figure 2.2  Location of Kayan Mentarang National Park and Sungai Wain protection forest on Borneo ........................................ 18
Figure 3.1  Percentage of canopy use by two gibbon species in disturbed and undisturbed habitats ........................................ 38
Figure 4.1  Map of Java showing the remaining forest areas inhabited by gibbons showing Ujung Kulon and the Dieng mountains ..................... 46
Figure 4.2  Sonagrams of representative phrases of female songs, female scream calls, communal group calls, and male phrases ..................... 49
Figure 4.3  Frequency distribution of the starting time of gibbon song bouts on Java ........................................ 53
Figure 4.4  Frequency distribution of the song bout duration during 11 consecutive days in Linggo Asri ........................................ 54
Figure 5.1  Geographical variation in pelage characteristics in grizzled leaf monkey *Presbytis comata* ........................................ 65
Figure 6.1  Geographical distribution of grizzled leaf monkey *Presbytis comata*, on Java, Indonesia ........................................ 78
Figure 7.1  Geographical distribution of ebony leaf monkey *Trachypithecus auratus* on Java, Bali, and Lombok, Indonesia ..................... 90
Figure 7.2  Melanic pelage morph of ebony leaf monkey *Trachypithecus auratus* ............. 111
Figure 7.3  Three individuals of the erythristic pelage morph of ebony leaf monkey *Trachypithecus auratus* ........................................ 111
Figure 7.4  Melanic and erythristic pelage morph of ebony leaf monkey *Trachypithecus auratus* ........................................ 111
Figure 8.1  The Dieng mountains, Central Java, Indonesia ........................................ 117
Figure 8.2  A view of the lowland forests near Linggo, Dieng mountains, Central Java, with on the foreground areas cleared for wet rice fields ........................................ 119
Figure 9.1  Area covered during the 1994 - 1997 survey ........................................ 131
Figure 9.2  The 153 recent records of proboscis monkey *Nasalis larvatus* on Borneo .......... 133
Figure 9.3  The land use planning in Central Kalimantan, Indonesia, based on forest use classification (TGHK) maps ........................................ 137
Figure 10.1  The island of Borneo (insert) and the location of Pulau Kaget and adjacent islands ........................................ 146
Figure 10.2  Male proboscis monkey in illegal private captivity ........................................ 147
Figure 10.3  Former prime proboscis monkey *Nasalis larvatus* habitat on Pulau Kaget ........................................ 149
Figure 11.1  Geographical distribution of white-fronted leaf monkey *Presbytis frontata* ........................................ 159
Figure 11.2  Geographical distribution of Bornean leaf monkey *Presbytis hosei* ........................................ 160
Figure 11.3  Geographical distribution of Bornean gibbon *Hylobates muelleri* ........................................ 161
Figure 11.4  Pattern of primate diversity on Borneo ........................................ 162
Figure 11.5  Pattern of endemic primate diversity on Borneo ........................................ 163
Figure 13.1  Relationship between island size and number of primate species in the Sundaic region ........................................ 189
Figure 13.2  Relationship between island size and number of endemic primate species in the Sundaic region ........................................ 190