



附录1 白云山公园某监测点鸟类音节聚类及标注实例。其中标记为9、40的音节为蓝喉啄木鸟, 21, 34为鹰鹃。

Appendix 1 An example of bird syllable clustering and labeling at a monitoring site in Baiyun Mountain Park. The syllables marked 9 and 40 are *Psilopogon asiaticus*, and 21 and 34 are *Hierococcyx sparveroides*.