## APPENDIX D

## Phylogenetic tree reconstruction of the parrot and cockatoo families using MrBayes and various methods and models in MEGA5

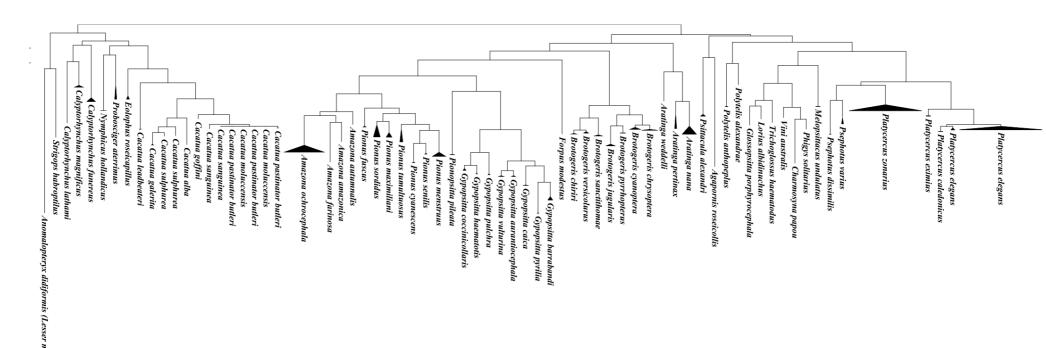


Figure D.1: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Maximum Likelihood method, Jukes-Cantor model in MEGA 5 program.

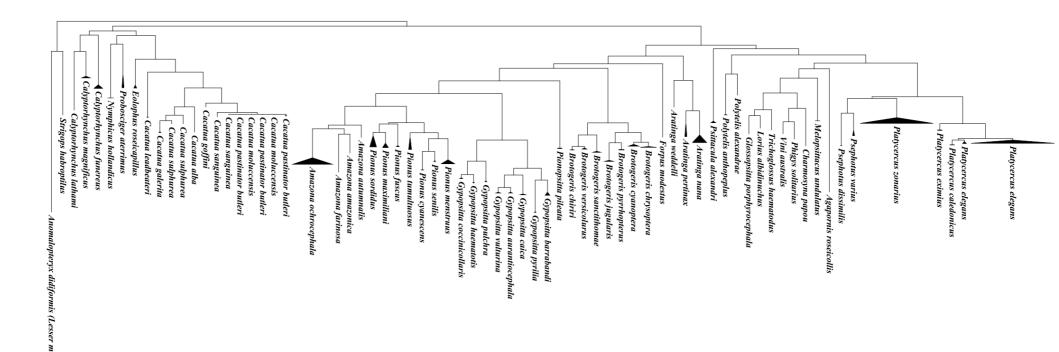


Figure D.2: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Maximum Likelihood method, Kimura 2-parameter model in MEGA 5 program.

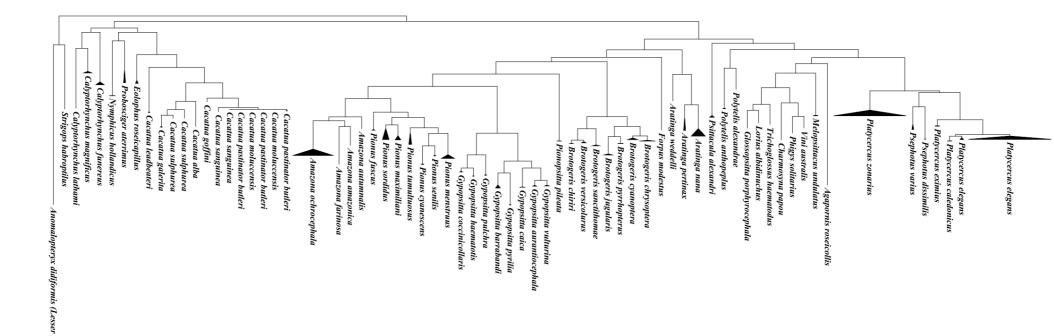


Figure D.3: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Maximum Likelihood method, Tamura 3-parameter model in MEGA 5 program.

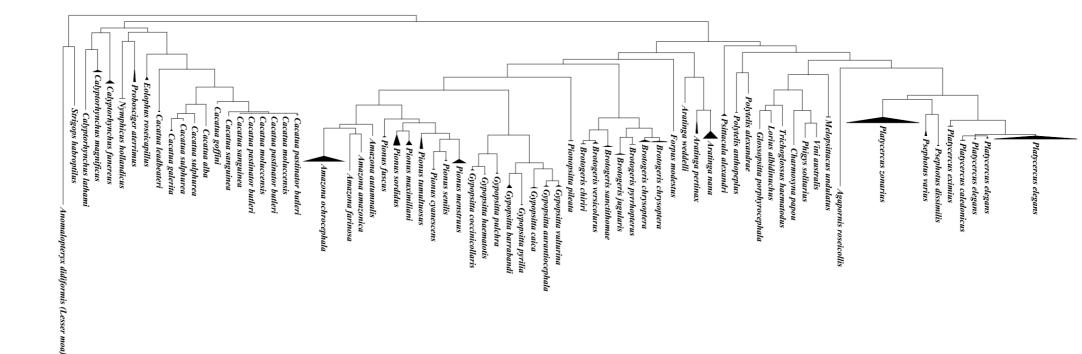


Figure D.4: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Maximum Likelihood method, Hasegawa-Kishino-Yano model in MEGA 5 program.

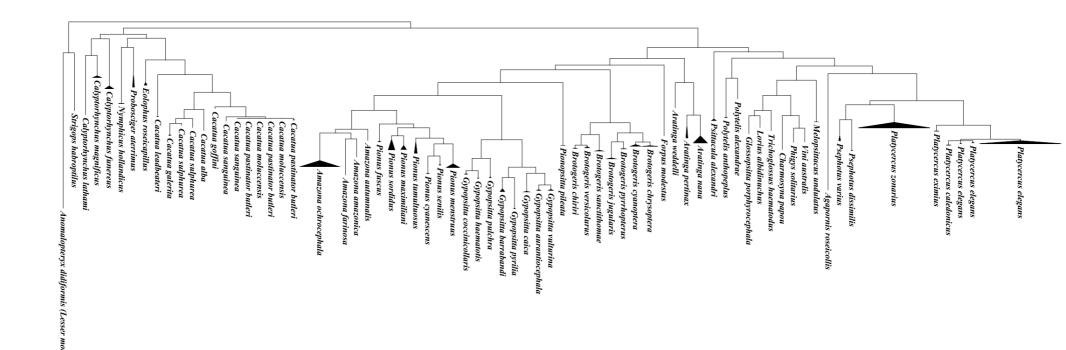


Figure D.5: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Maximum Likelihood method, Tamura-Nei model in MEGA 5 program.

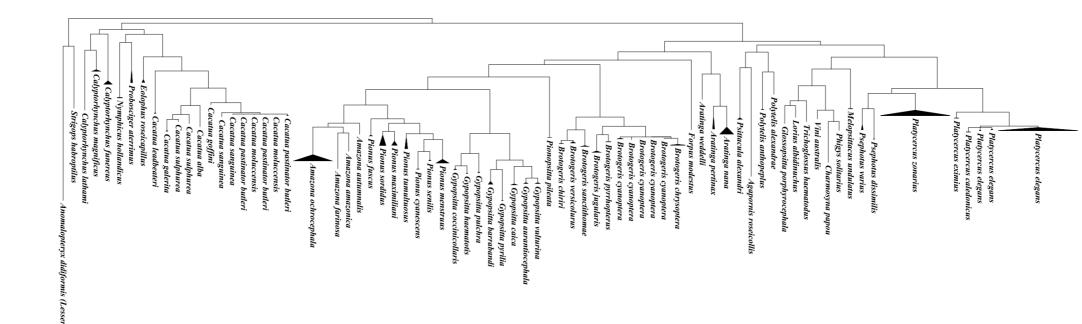


Figure D.6: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Maximum Likelihood method, General Time Reversible model in MEGA 5 program.

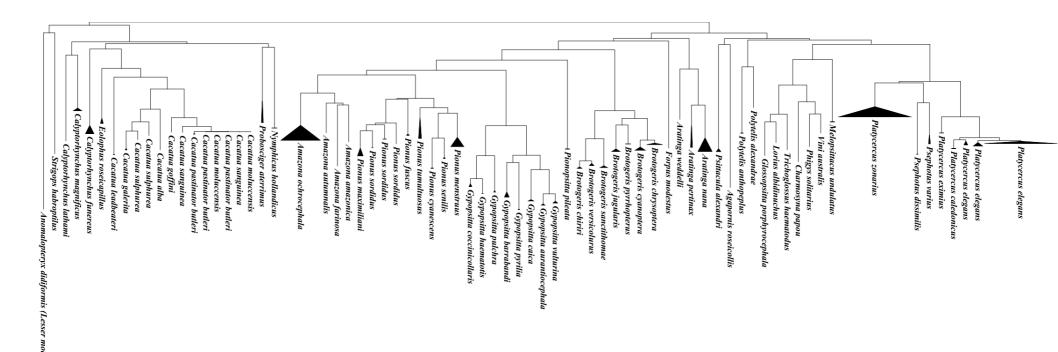


Figure D.7: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Neighbor-Joining method, No. of differences model in MEGA 5 program.

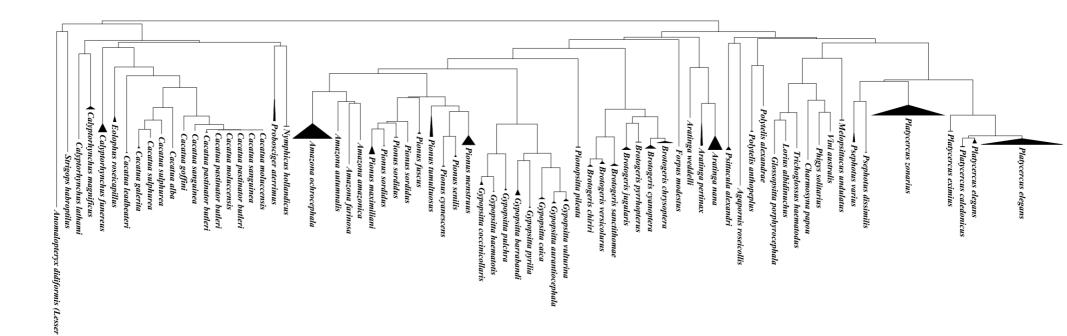


Figure D.8: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Neighbor-Joining method, p-distance model in MEGA 5 program.

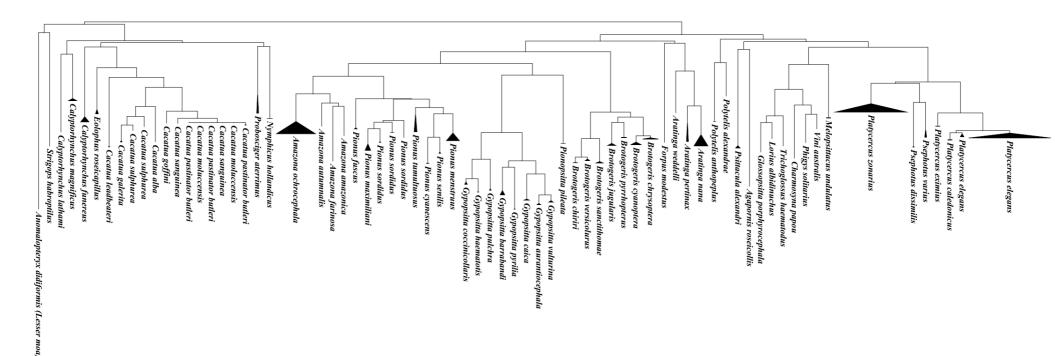


Figure D.9: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Neighbor-Joining method, Jukes-Cantor model in MEGA 5 program.

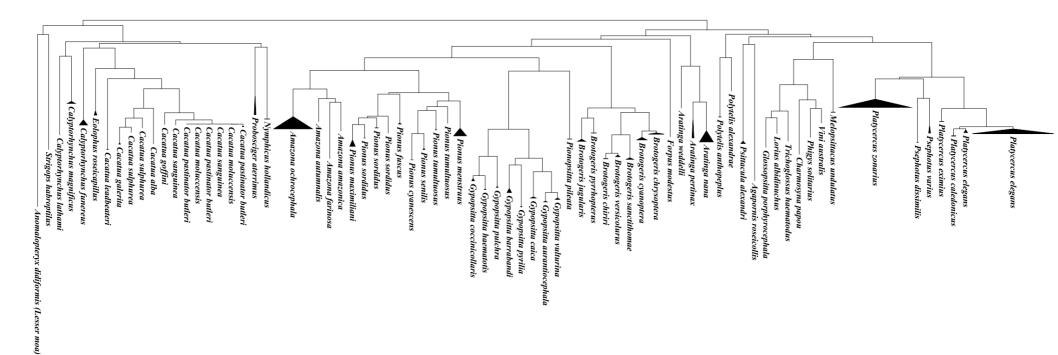


Figure D.10: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Neighbor-Joining method, Kimura 2-parameter model in MEGA 5 program.

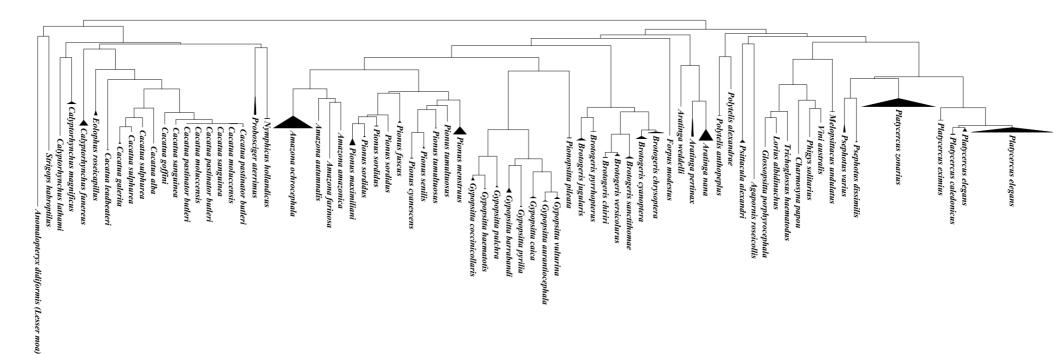


Figure D.11: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Neighbor-Joining method, Tajima-Nei model in MEGA 5 program.

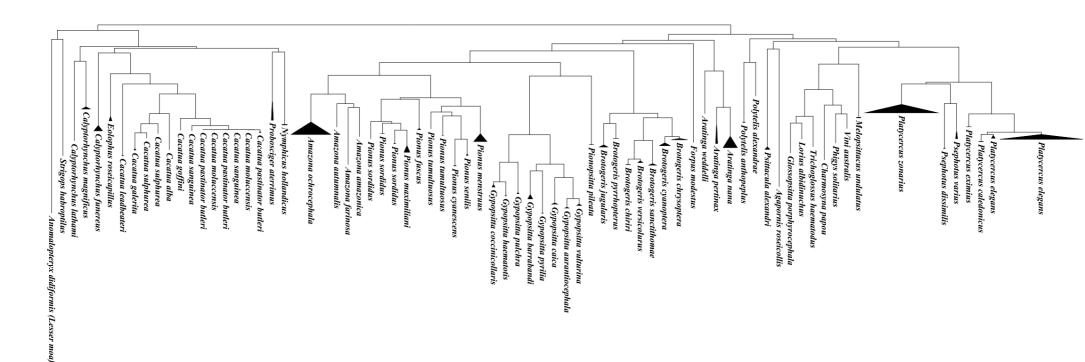


Figure D.12: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Neighbor-Joining method, Tamura 3-parameter model in MEGA 5 program.

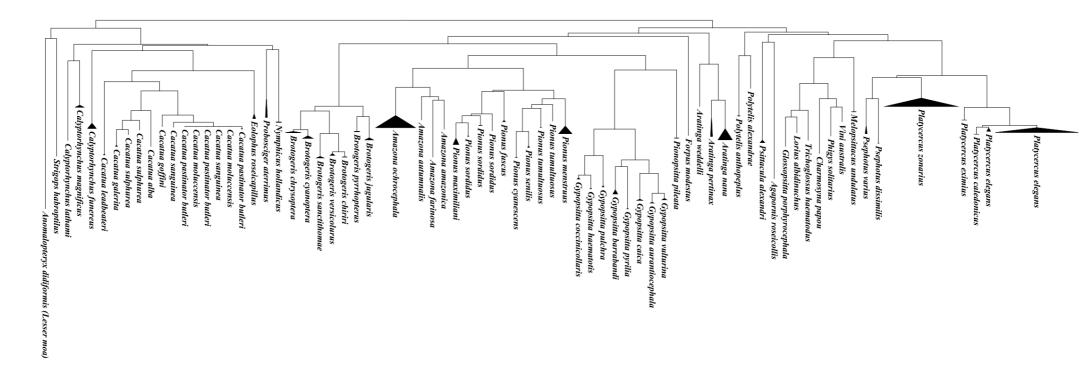


Figure D.13: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Neighbor-Joining method, Tamura-Nei model in MEGA 5 program.

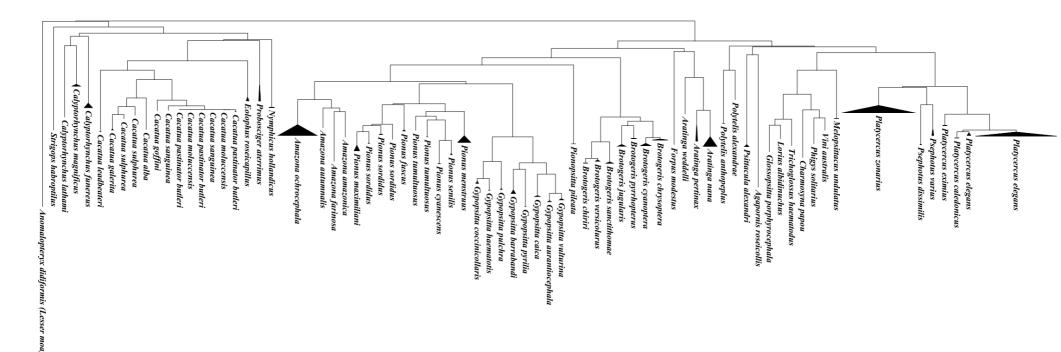


Figure D.14: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Neighbor-Joining method, Maximum Composite Likelihood model in MEGA 5 program.

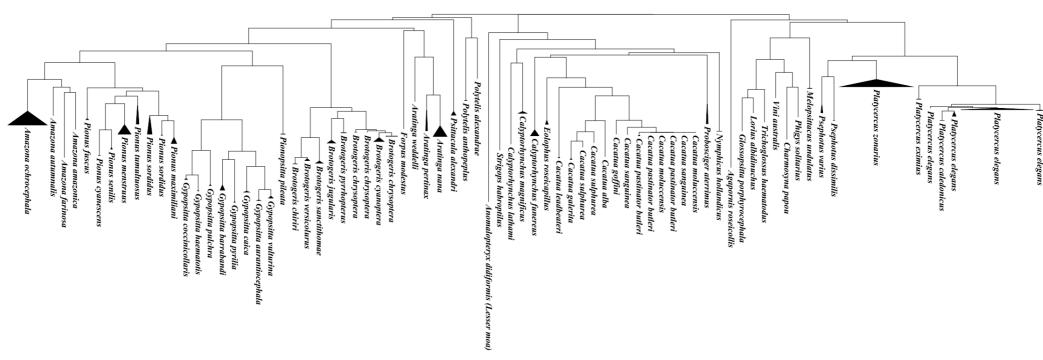


Figure D.15: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Neighbor-Joining method, LogDet (Tamura-Kumar) model in MEGA 5 program.

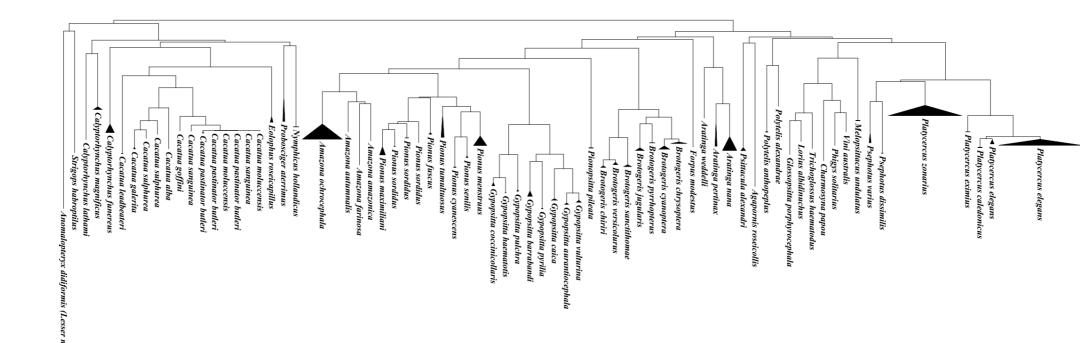


Figure D.16: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Minimum-Evolution method, No. of differences model in MEGA 5 program.

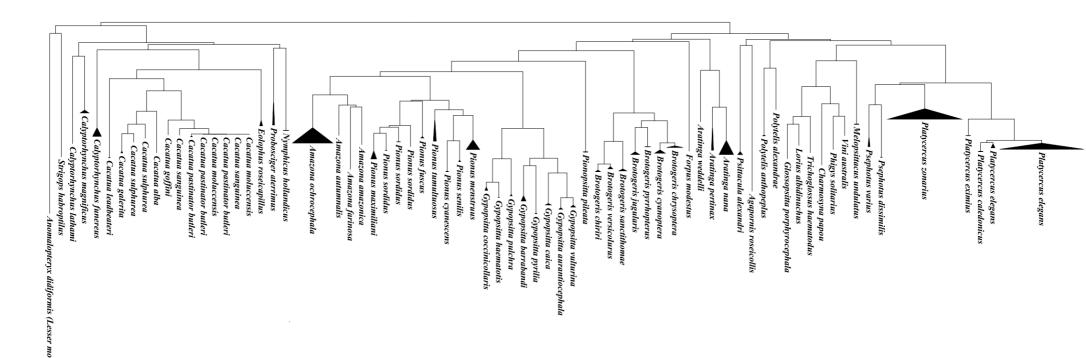


Figure D.17: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Minimum-Evolution method, p-distance model in MEGA 5 program.

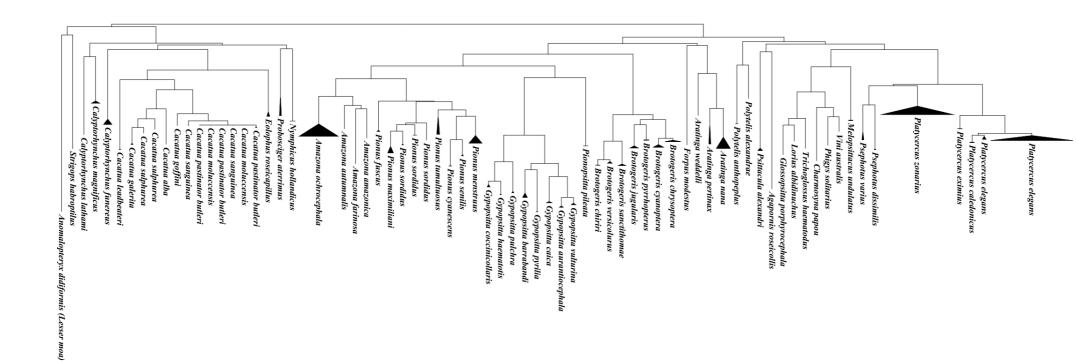


Figure D.18: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Minimum-Evolution method, Jukes-Cantor model in MEGA 5 program.

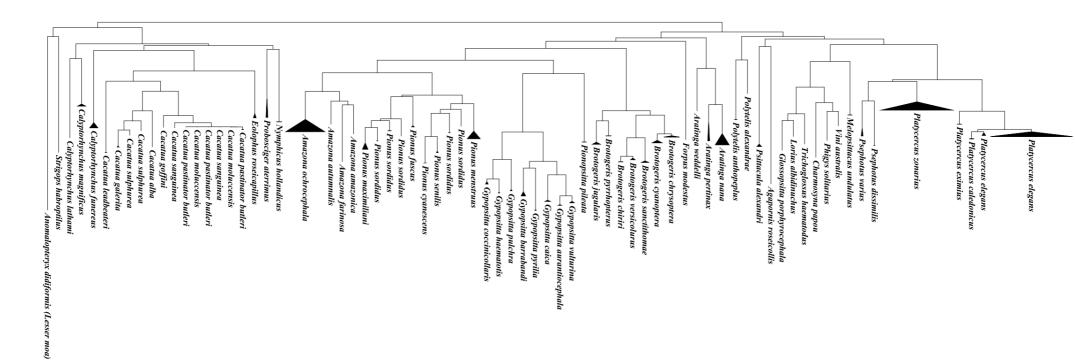


Figure D.19: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Minimum-Evolution method, Kimura 2-parameter model in MEGA 5 program.

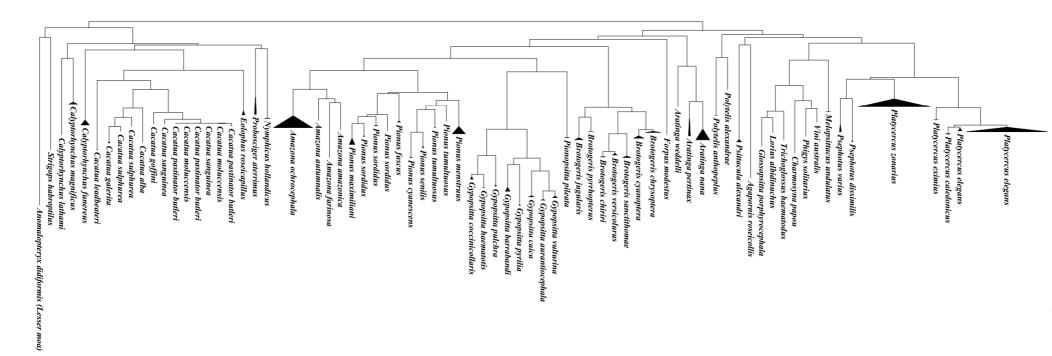


Figure D.20: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Minimum-Evolution method, Tajima-Nei model in MEGA 5 program.

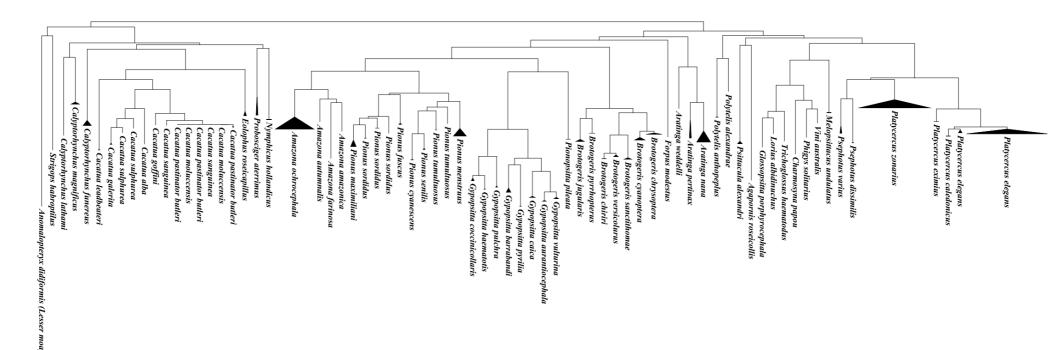


Figure D.21: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Minimum-Evolution method, Tamura 3-parameter model in MEGA 5 program.

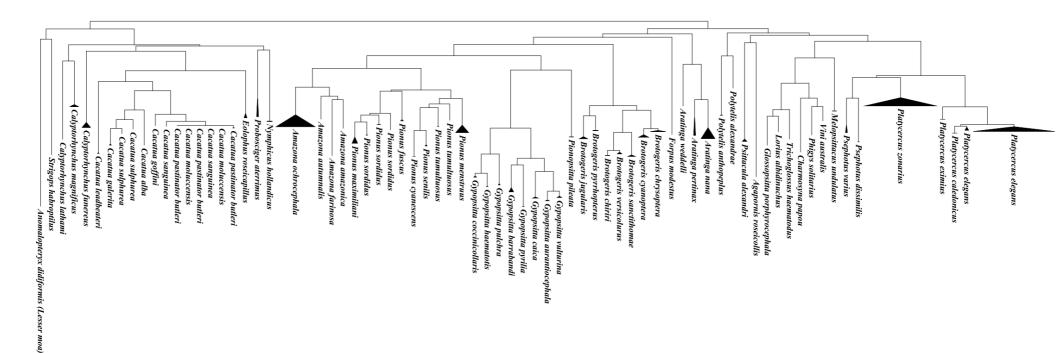


Figure D.22: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Minimum-Evolution method, Tamura-Nei model in MEGA 5 program.

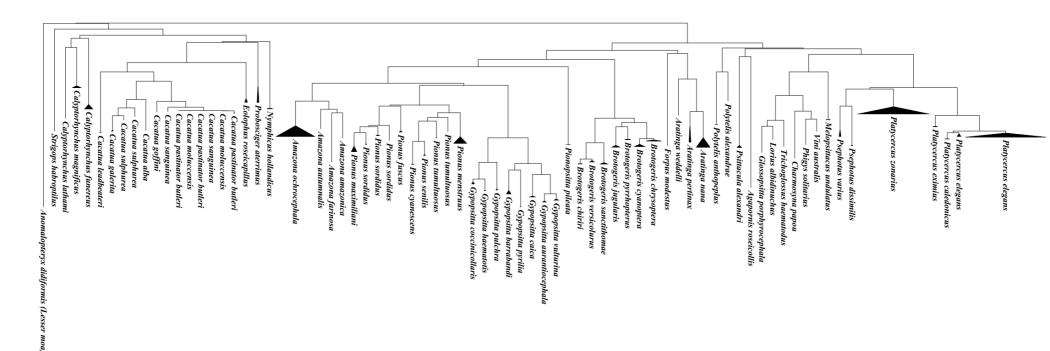


Figure D.23: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Minimum-Evolution method, Maximum Composite Likelihood model in MEGA 5 program.

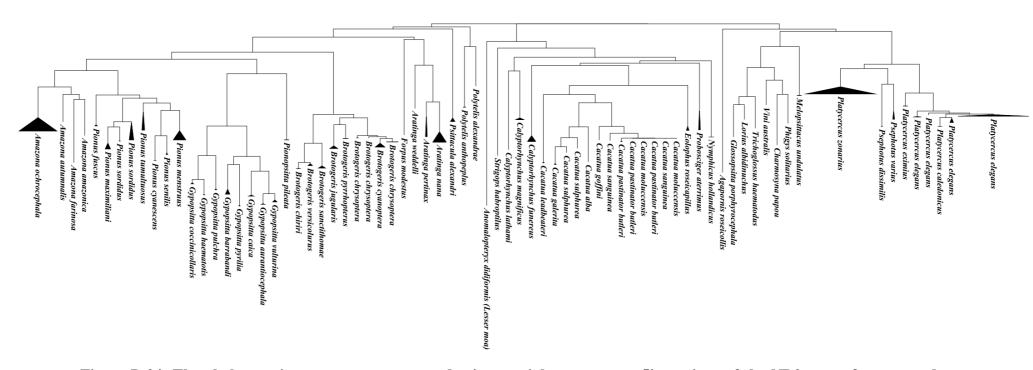


Figure D.24: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Minimum-Evolution method, LogDet (Tamura-Kumar) model in MEGA 5 program.

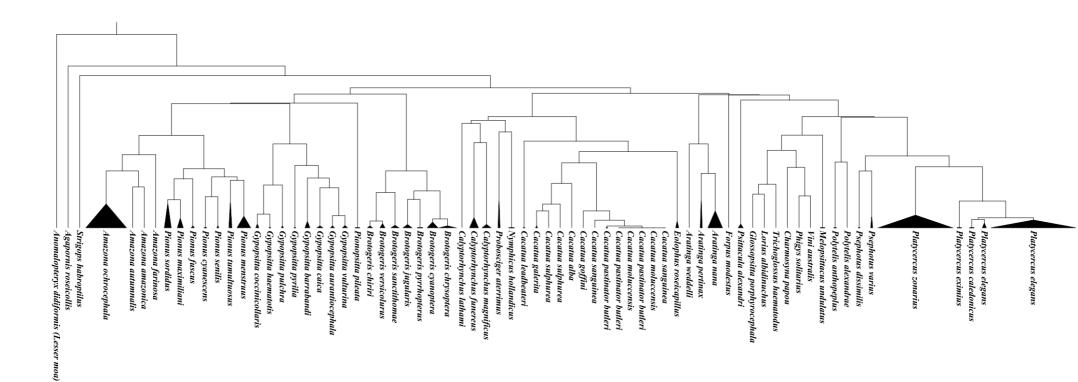


Figure D.25: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using UPGMA method, No. of differences model in MEGA 5 program.

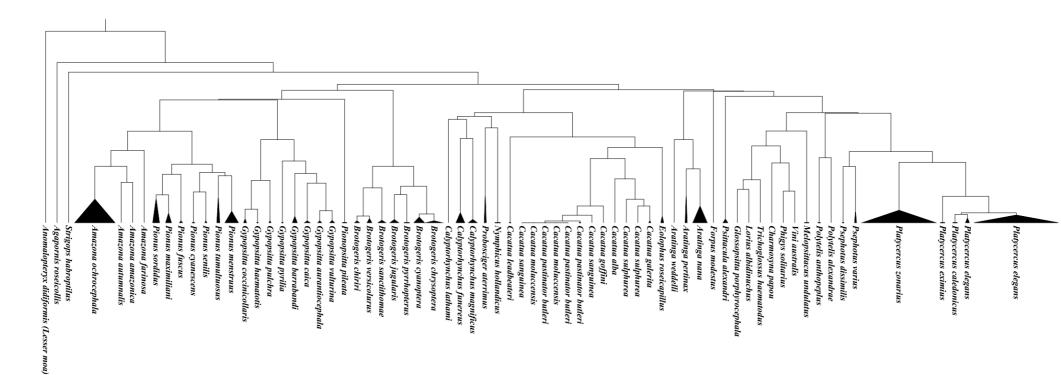


Figure D.26: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using UPGMA method, p-distance model in MEGA 5 program.

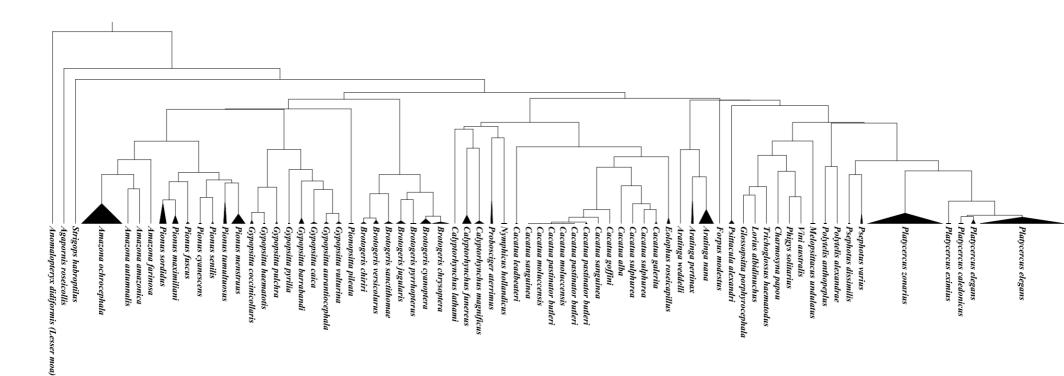


Figure D.27: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using UPGMA method, Jukes-Cantor model in MEGA 5 program.

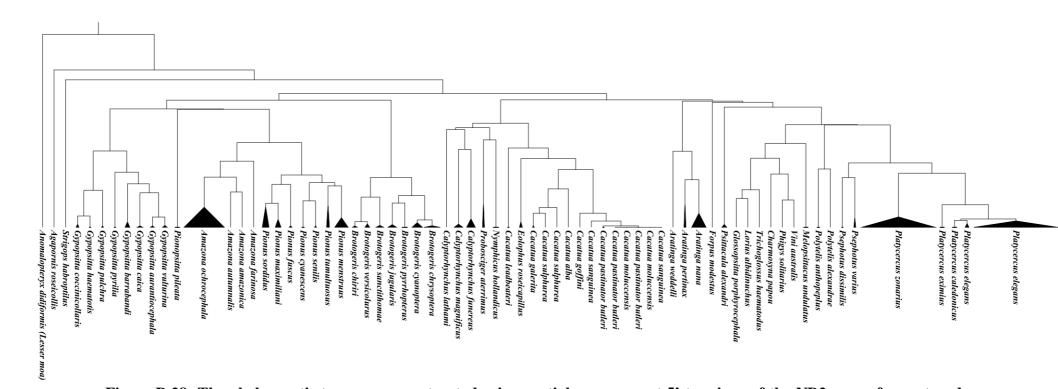


Figure D.28: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using UPGMA method, Kimura 2-parameter model in MEGA 5 program.

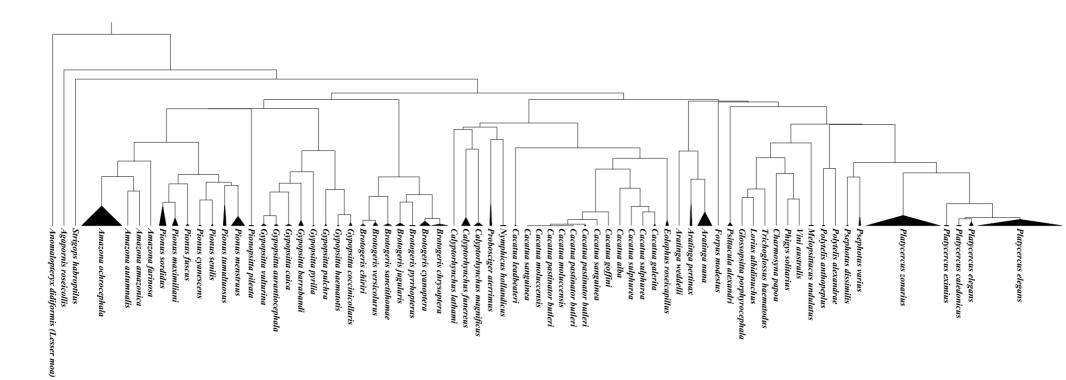


Figure D.29: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using UPGMA method, Tajima-Nei model in MEGA 5 program.

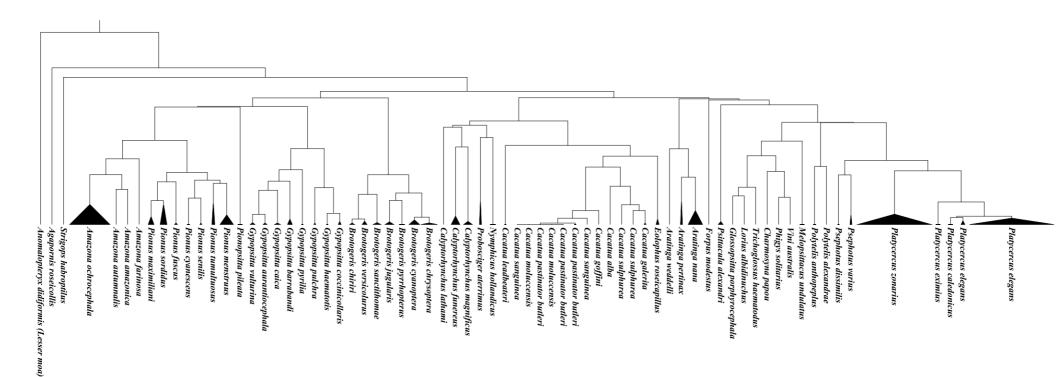


Figure D.30: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using UPGMA method, Tamura 3-parameter model in MEGA 5 program.

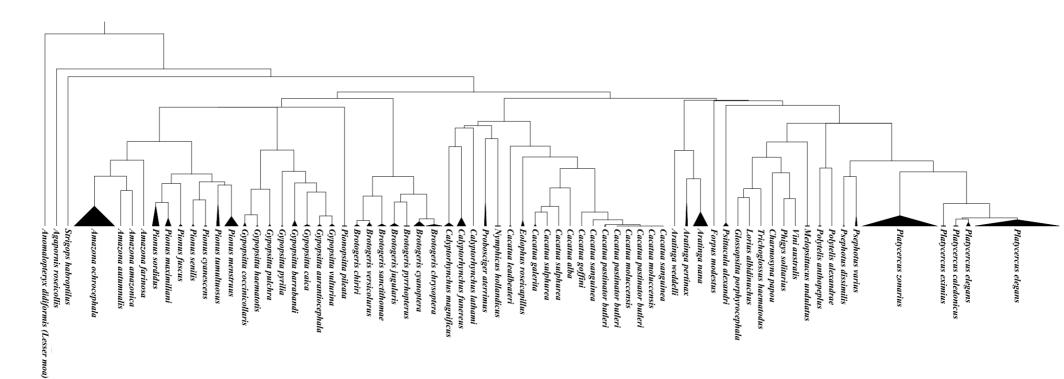


Figure D.31: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using UPGMA method, Tamura-Nei model in MEGA 5 program.

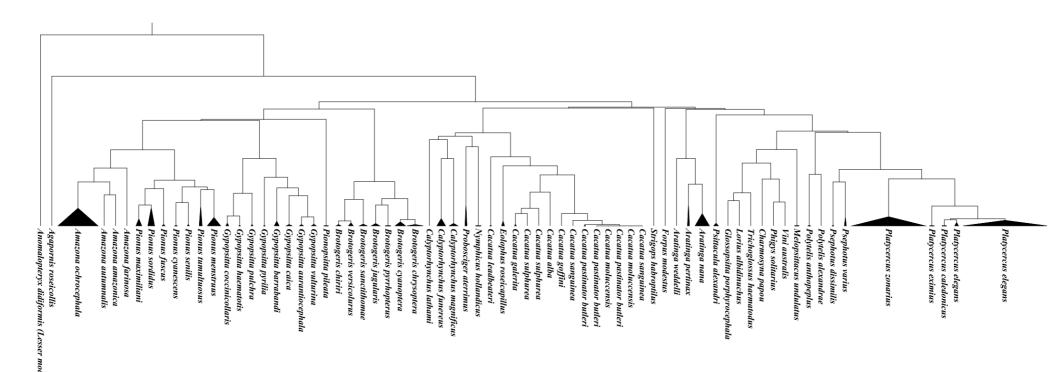


Figure D.32: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using UPGMA method, Maximum Composite Likelihood model in MEGA 5 program.

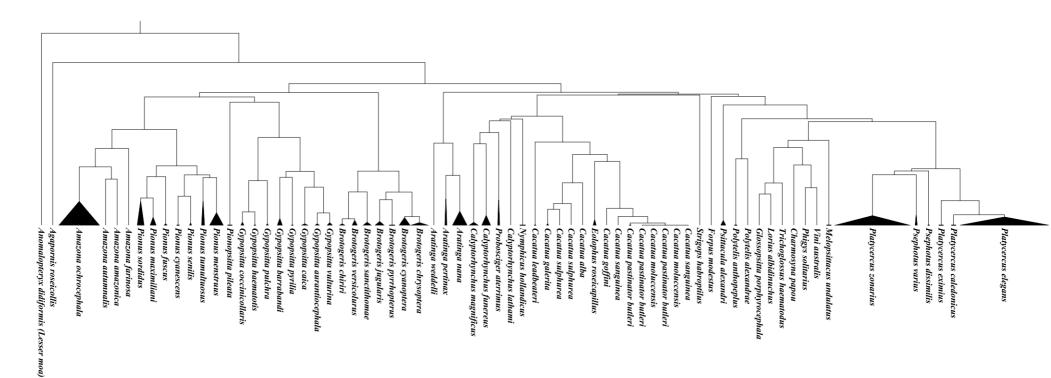


Figure D.33: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using UPGMA method, LogDet (Tamura-Kumar) model in MEGA 5 program.

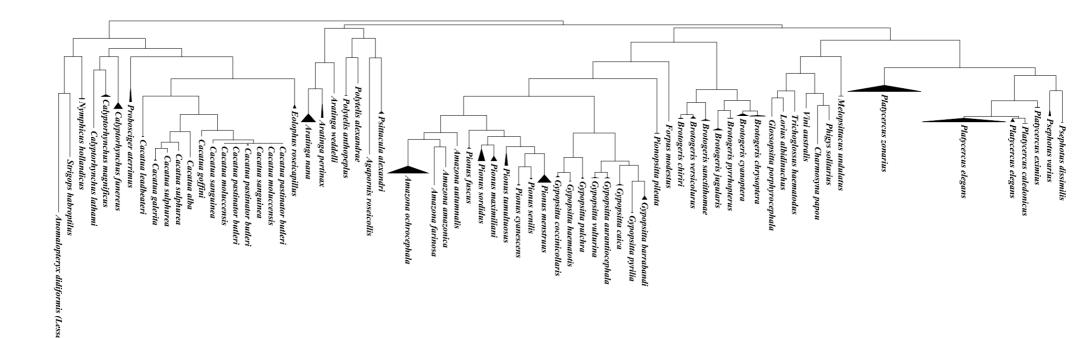
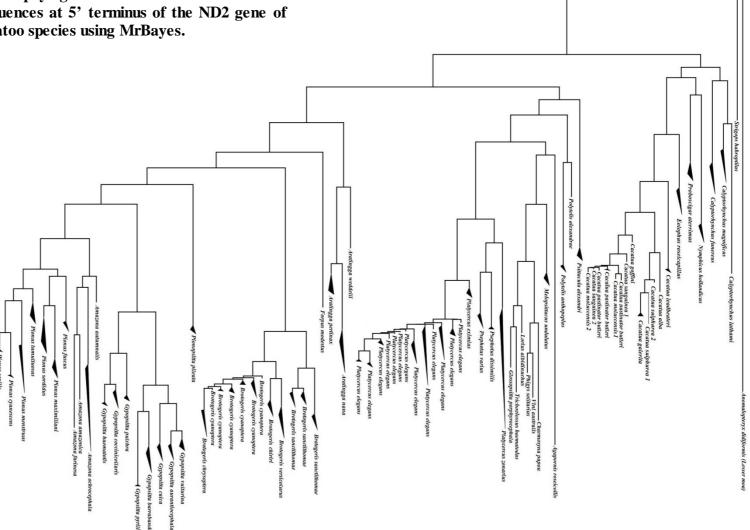


Figure D.34: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using Maximum Parsimony method in MEGA 5 program.

Figure D.35: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND2 gene of parrot and cockatoo species using MrBayes.



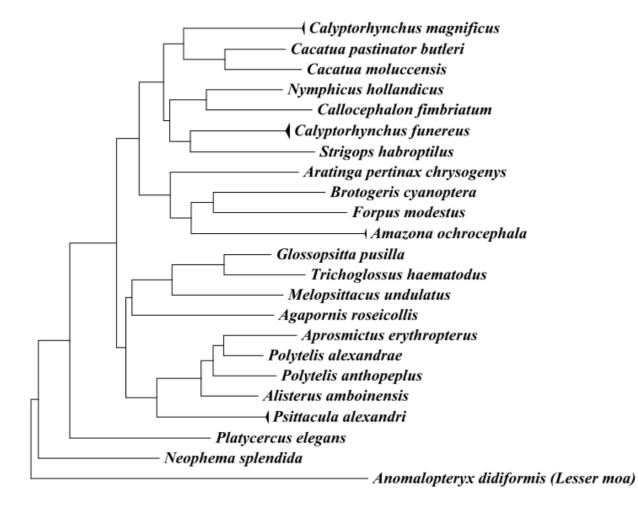


Figure D.36: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Maximum Likelihood method, Jukes-Cantor model in MEGA 5 program.

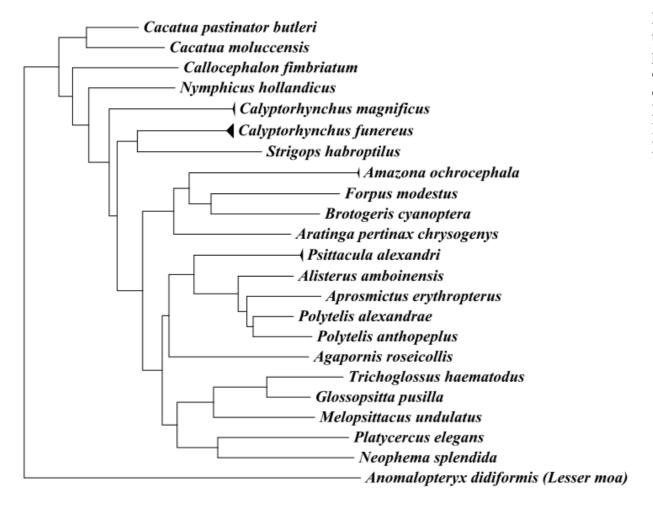


Figure D.37: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Maximum Likelihood method, Kimura 2-parameter model in MEGA 5 program.

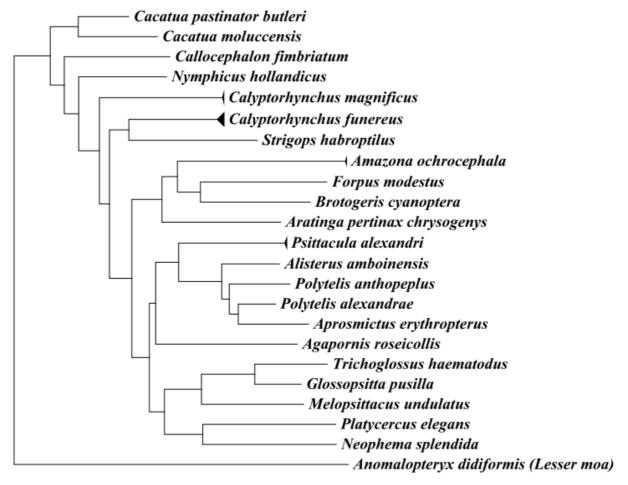


Figure D.38: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Maximum Likelihood method, Tamura 3-parameter model in MEGA 5 program.

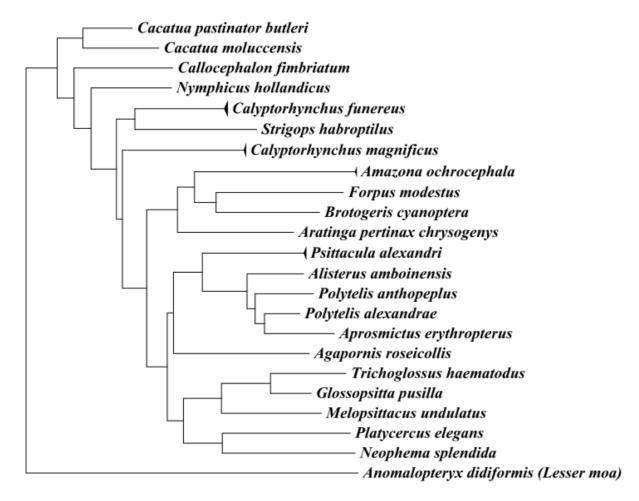


Figure D.39: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Maximum Likelihood method, Hasegawa-Kishino-Yano model in MEGA 5 program.

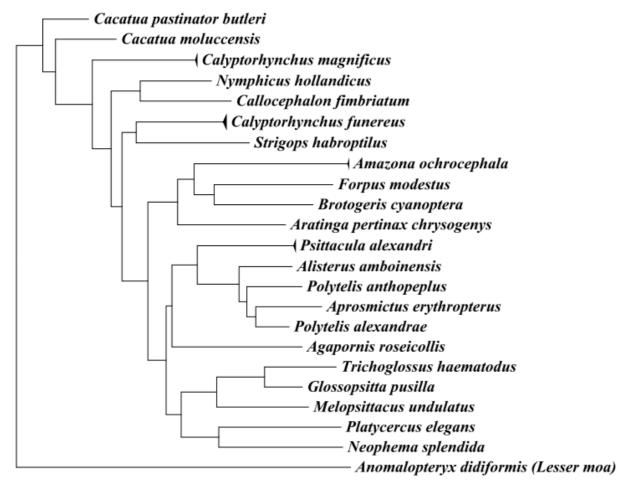


Figure D.40: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Maximum Likelihood method, Tamura-Nei model in MEGA 5 program.

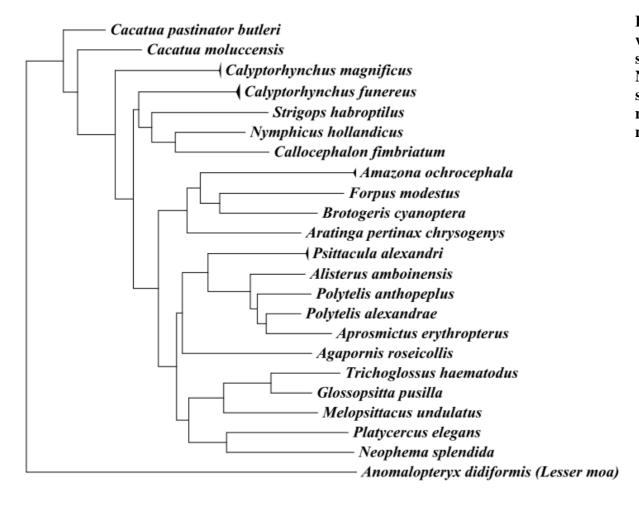


Figure D.41: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Maximum Likelihood method, General Time Reversible model in MEGA 5 program.

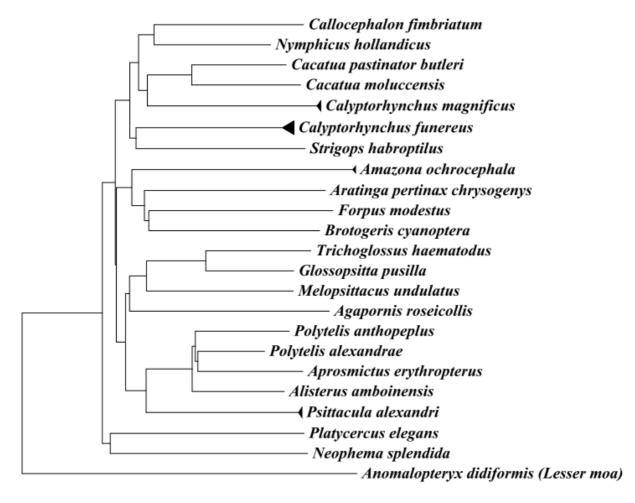


Figure D.42: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Neighbor-Joining method, No. of differences model in MEGA 5 program.

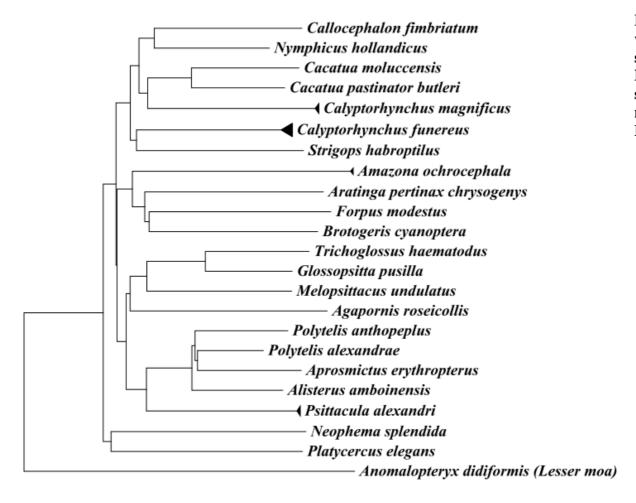


Figure D.43: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Neighbor-Joining method, p-distance model in MEGA 5 program.

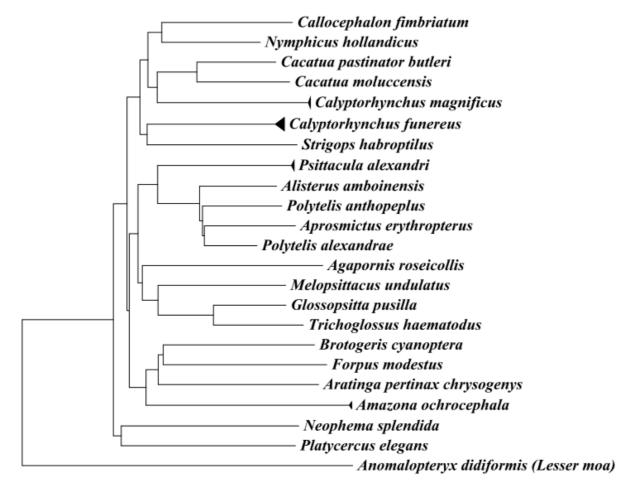


Figure D.44: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Neighbor-Joining method, Jukes-Cantor model in MEGA 5 program.

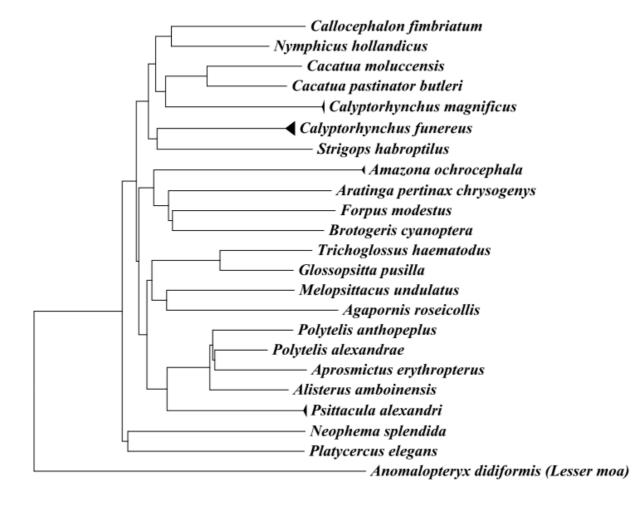


Figure D.45: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Neighbor-Joining method, Kimura 2-parameter model in MEGA 5 program.

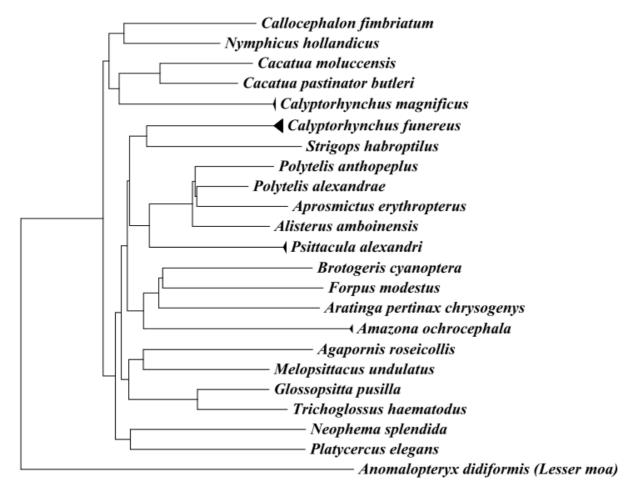


Figure D.46: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Neighbor-Joining method, Tajima-Nei model in MEGA 5 program.

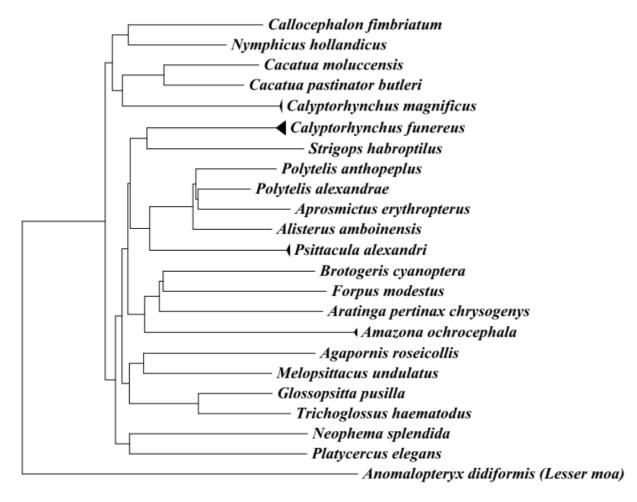


Figure D.47: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Neighbor-Joining method, Tamura 3-parameter model in MEGA 5 program.

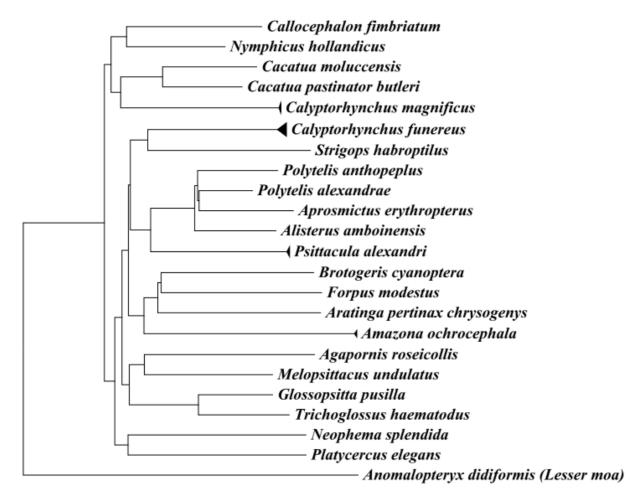


Figure D.48: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Neighbor-Joining method, Tamura-Nei model in MEGA 5 program.

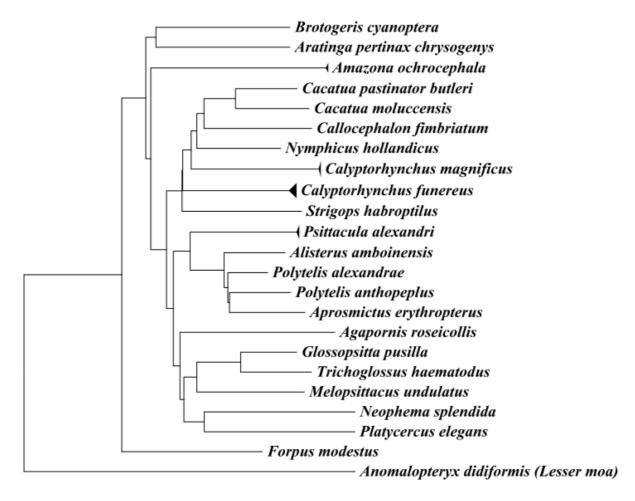


Figure D.49: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Neighbor-Joining method, Maximum Composite Likelihood model in MEGA 5 program.

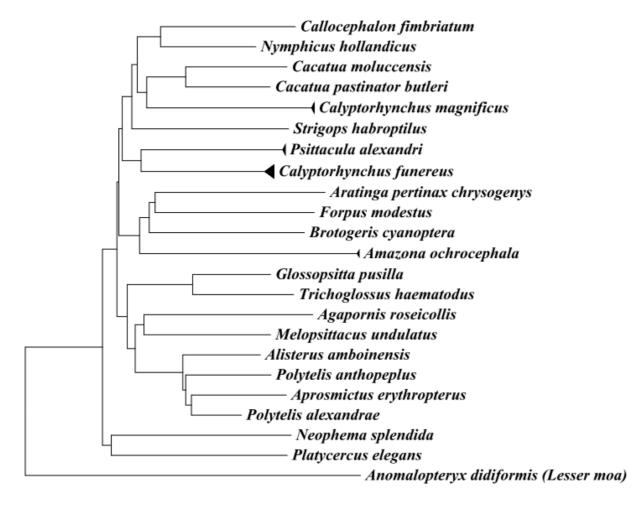


Figure D.50: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Neighbor-Joining method, LogDet (Tamura-Kumar) model in MEGA 5 program.

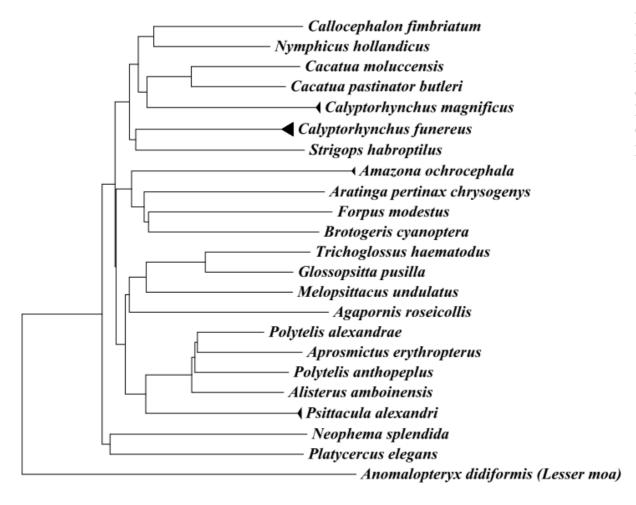


Figure D.51: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Minimum-Evolution method, No. of differences model in MEGA 5 program.

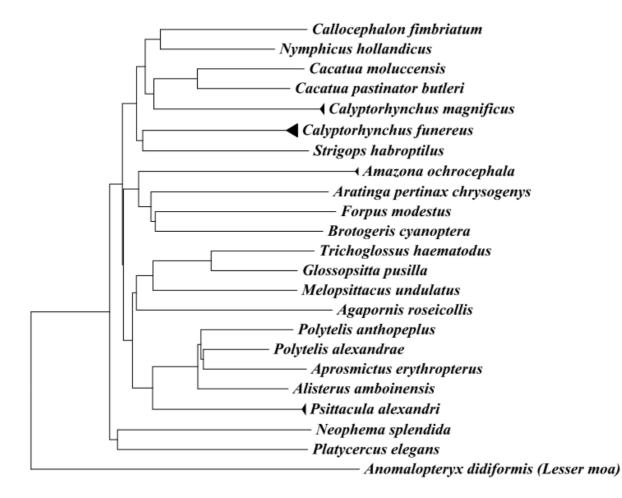


Figure D.52: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Minimum-Evolution method, p-distance model in MEGA 5 program.

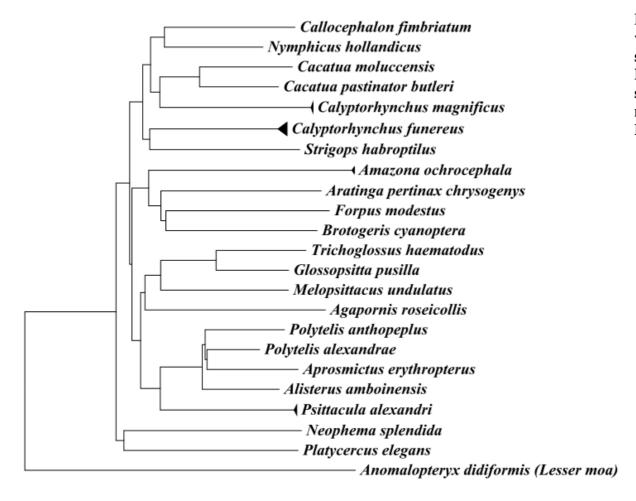


Figure D.53: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Minimum-Evolution method, Jukes-Cantor model in MEGA 5 program.

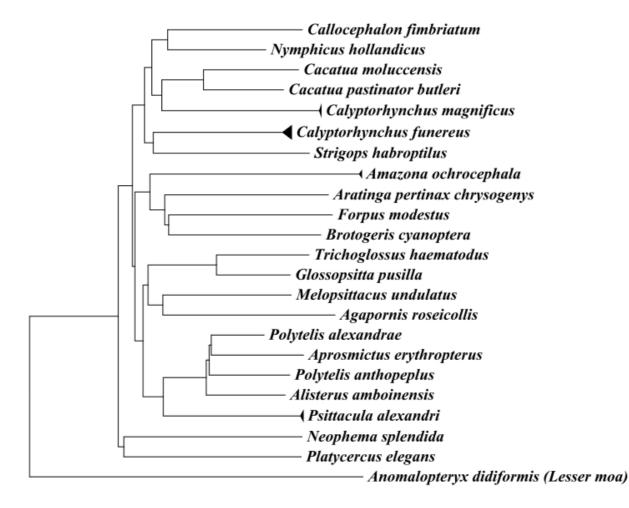


Figure D.54: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Minimum-Evolution method, Kimura 2-parameter model in MEGA 5 program.

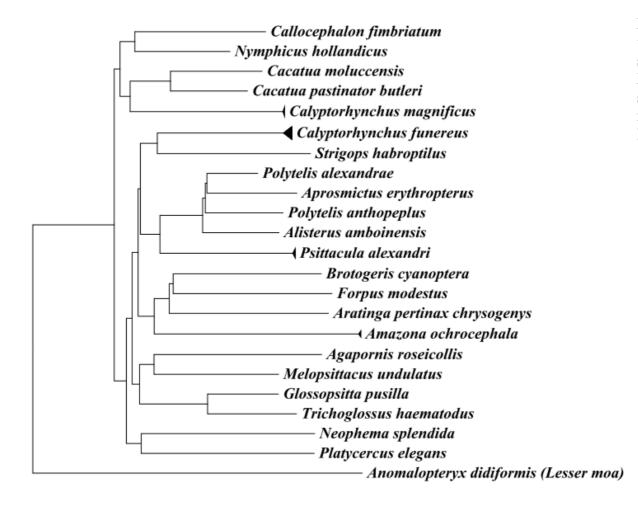


Figure D.55: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Minimum-Evolution method, Tajima-Nei model in MEGA 5 program.

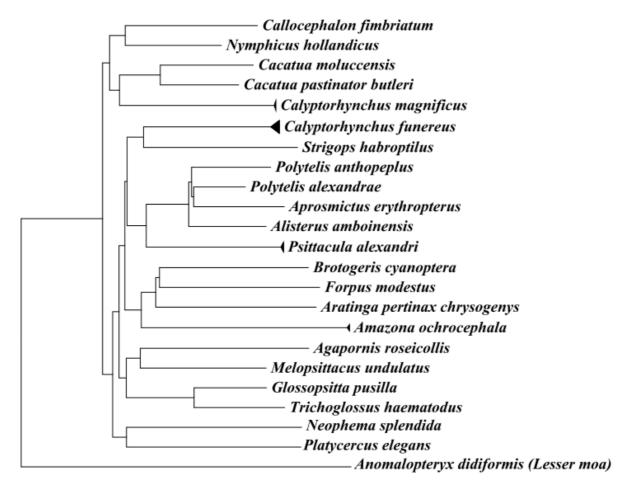


Figure D.56: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Minimum-Evolution method, Tamura 3-parameter model in MEGA 5 program.

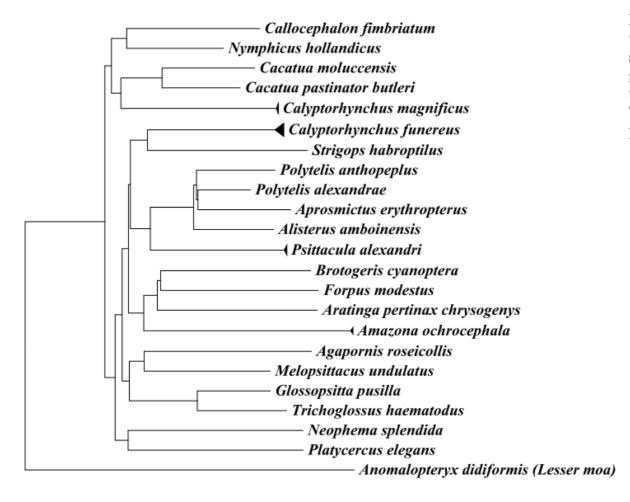


Figure D.57: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Minimum-Evolution method, Tamura-Nei model in MEGA 5 program.

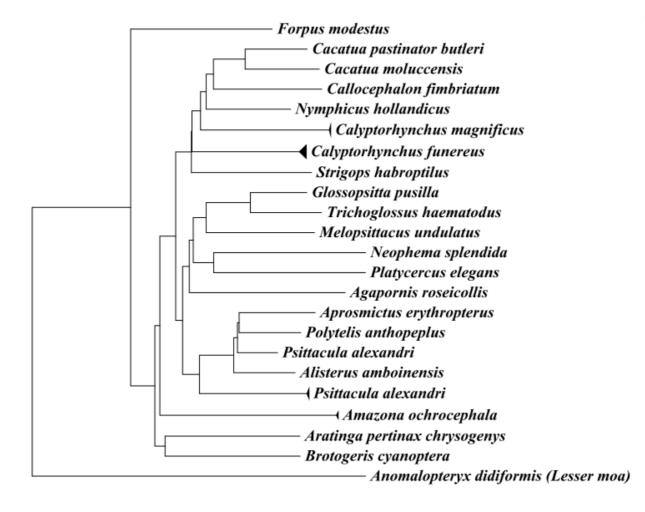


Figure D.58: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Minimum-Evolution method, Maximum Composite Likelihood model in MEGA 5 program.

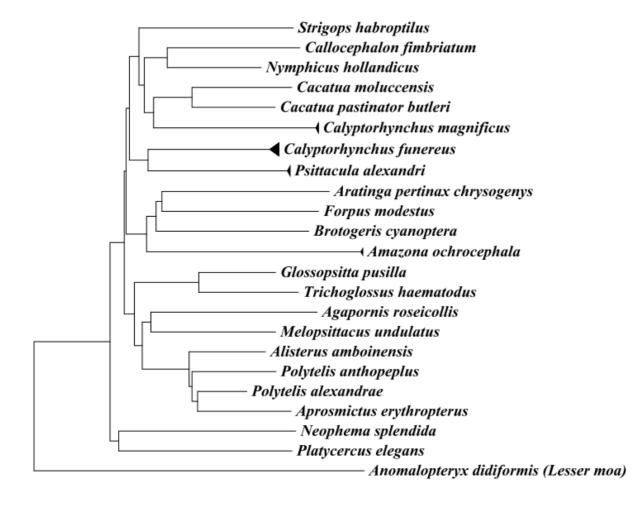


Figure D.59: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Minimum-Evolution method, LogDet (Tamura-Kumar) model in MEGA 5 program.

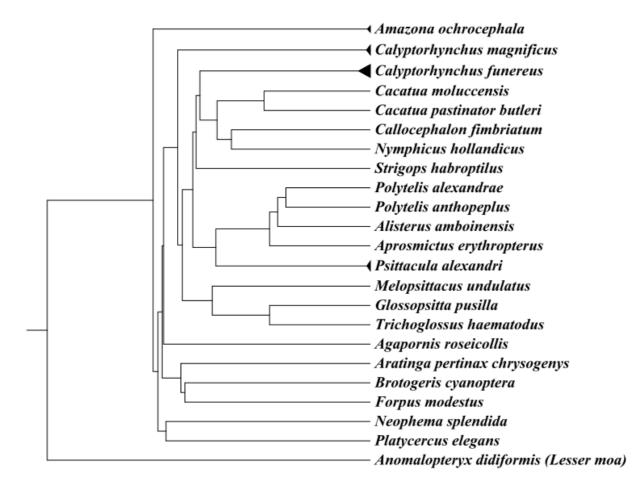


Figure D.60: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using UPGMA method, No. of differences model in MEGA 5 program.

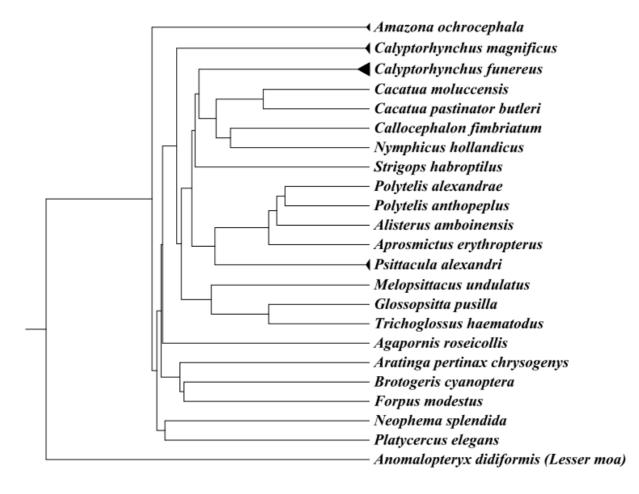


Figure D.61: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using UPGMA method, p-distance model in MEGA 5 program.

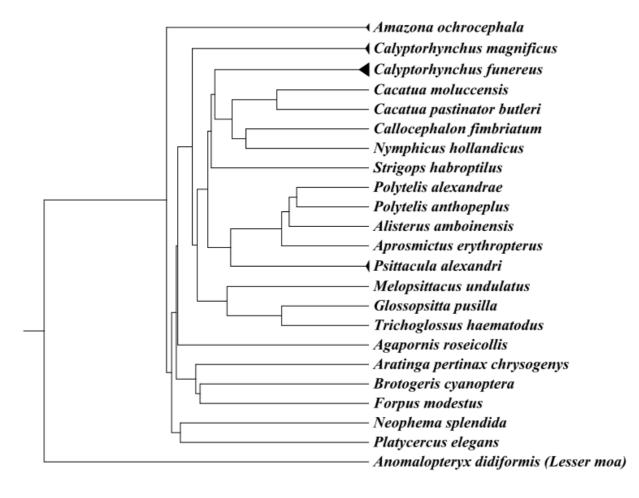


Figure D.62: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using UPGMA method, Jukes-Cantor model in MEGA 5 program.

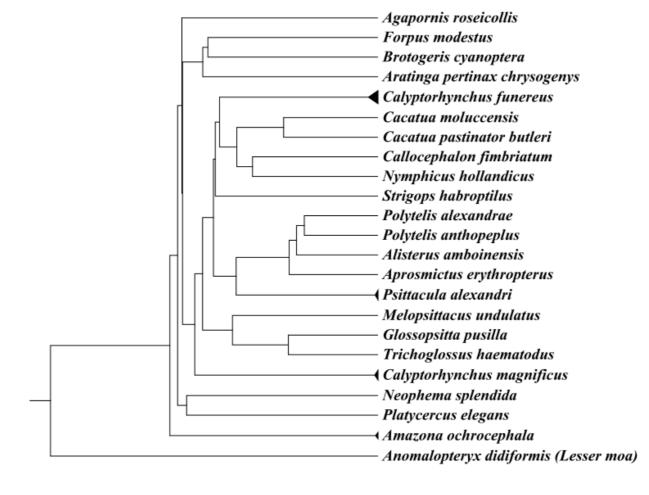


Figure D.63: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using UPGMA method, Kimura 2-parameter model in MEGA 5 program.

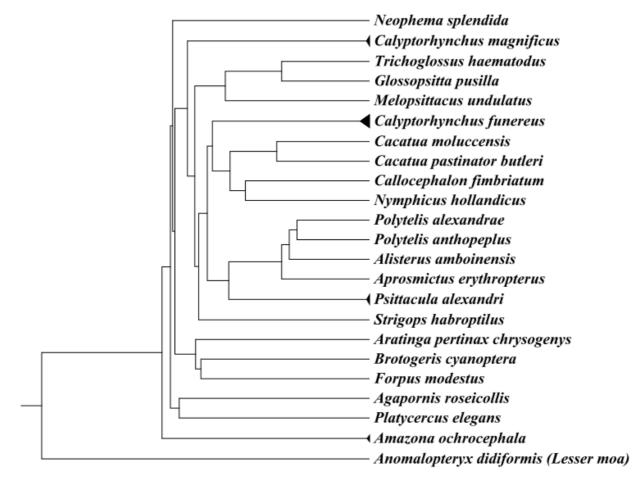


Figure D.64: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using UPGMA method, Tajima-Nei model in MEGA 5 program.

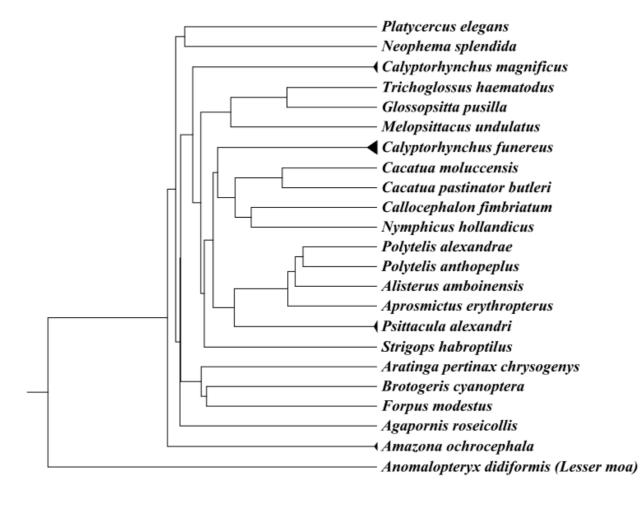


Figure D.65: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using UPGMA method, Tamura 3-parameter model in MEGA 5 program.

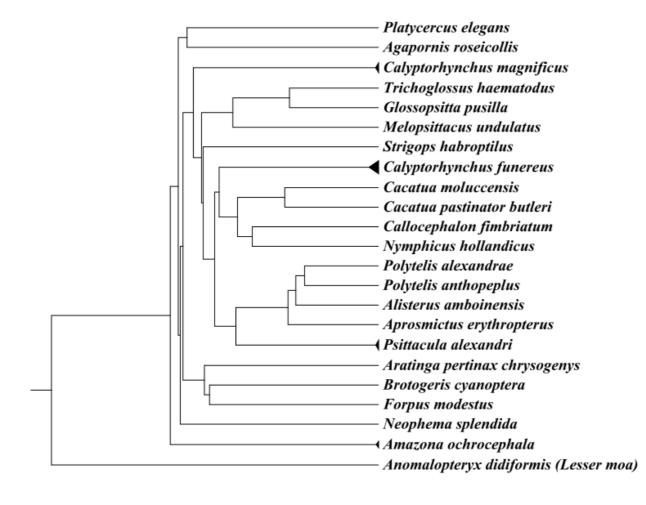


Figure D.66: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using UPGMA method, Tamura-Nei model in MEGA 5 program.

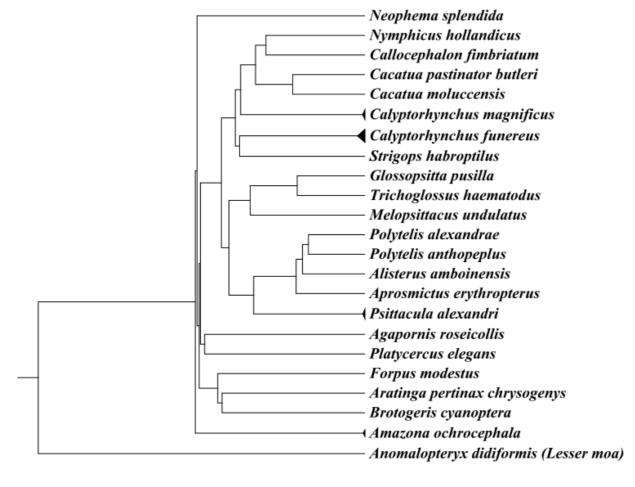


Figure D.67: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using UPGMA method, Maximum Composite Likelihood model in MEGA 5 program.

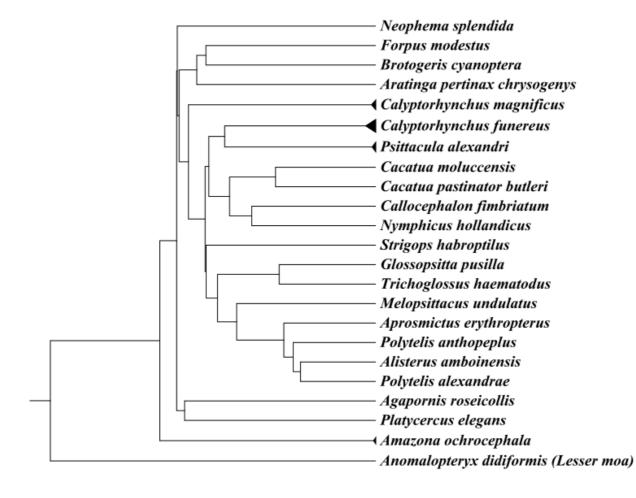


Figure D.68: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using UPGMA method, LogDet (Tamura-Kumar) model in MEGA 5 program.

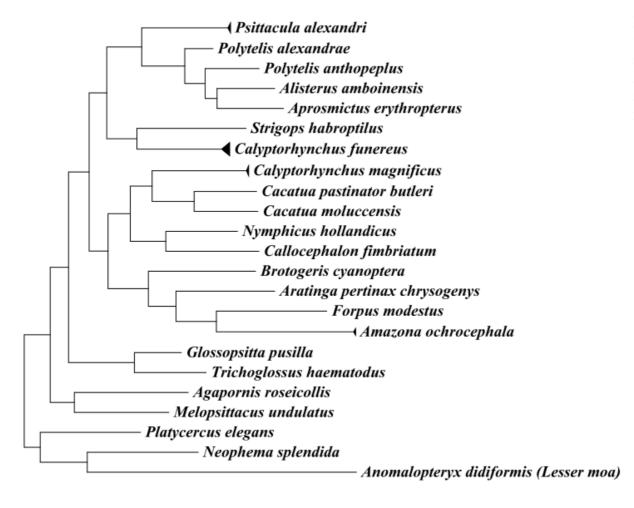


Figure D.69: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using Maximum Parsimony method in MEGA 5 program.

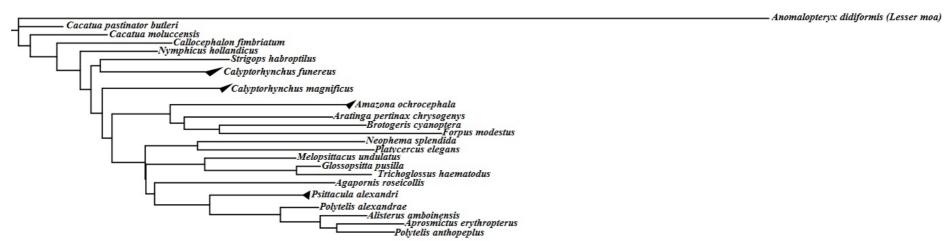


Figure D.70: The phylogenetic tree was reconstructed using partial sequences at 5' terminus of the ND5 gene of parrot and cockatoo species using MrBayes.