Dataset 4 Summary of shared characters (*Anachronornis* nov. gen. added to dataset of Livezey 1986)

Shared with Anhimidae (*Anhima* and *Chauna*)

Unique

Definition: Characters for which *Anachronornis* nov. gen.and any member of Anhimidae have a unique state not found in other taxa

Cranial: None

Postcranial: None

Non-Unique

Definition: Characters for which *Anachronornis* nov. gen.and any member of Anhimidae have a unique state that is found in other taxa

Cranial: 8, 10, 12, 14, 15, 17 (6 total, 75% of all cranial characters that are scored in both taxa)

Postcranial: 21, 26, 29, 32, 34, 35, 36, 39, 43, 46, 47, 48, 51, 53, 54, 58, 59 (17 total, 68% of all cranial characters that are scored in both taxa)

Shared with Anseres (*Anseranas*, *Dendrocygna*, and Anatidae)

Unique

Definition: Characters for which *Anachronornis* nov. gen. and any member of Anseres have a unique state not found in other taxa

Cranial: None

Postcranial: 23, 30, 40, 44, 55 (5 total, 19% of all cranial characters that are scored in both taxa)

Non-Unique

Definition: Characters for which *Anachronornis* nov. gen. and any member of Anseres have a unique state that is found in other taxa

Cranial: 9, 12, 15, 17, 19 (5 total, 63% of all cranial characters that are scored in both taxa)

Postcranial: 21, 24, 26, 29, 32, 34, 35, 36, 39, 42, 43, 46, 47, 49, 51, 52, 53, 54, 58, 59 (20 total, 77% of all cranial characters that are scored in both taxa)