**Supplementary Table 1: Average culmen length, asset numbers, and calculated body length during flight for each of four species of alcid.** Calculated body lengths were used to convert from units of species-specific body length to metric units. Average culmen length was calculated as the mean of all values present in the *Birds of North America* entry (Rodewald, 2015) for adult birds (males and females) of that species. Multiple birds were digitized in some photographs. See methods for details.

|  |  |  |  |
| --- | --- | --- | --- |
| Species | Average culmen length (mm) | Asset number | Calculated body length during flight (eye-to-tail) (mm) |
| Common murre | 45.7 | ML130936951  ML131083411  ML133502561  ML135189951  ML135262691  ML138943951  ML153828011  ML107922131  ML109190921  ML109269361  ML110104101  ML123633261  ML124704241  ML127601661  ML128211881 | 357.2 |
| Horned puffin | 48.3 | ML128125701  ML129591491  ML132256341  ML132256341  ML133379331  ML133502351  ML135262671  ML135482301  ML103661271  ML103661271  ML110814591  ML114538841  ML114538901  ML116573881  ML128125681 | 260.7 |
| Pigeon guillemot | 34.9 | ML137281651  ML137369751  ML100083281  ML102575791  ML107512881  ML107512911  ML109212741  ML109212751  ML109270431  ML109982411  ML116574131  ML126682601  ML126741691  ML129421451  ML129421471 | 276.7 |
| Tufted puffin | 58.2 | ML149438221  ML77583491  ML103948801  ML108569631  ML108569931  ML108988301  ML110239891  ML110391621  ML111384021  ML112301331  ML113722471  ML120413871  ML131728531  ML133386421  ML135063271 | 290.4 |

**Rodewald, P. (Editor)** (2015). The Birds of North America: https://birdsna.org. *Cornell Lab. Ornithol. Ithica, New York*.