**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 ML131083411ML133502561 ML135189951ML135262691ML138943951ML153828011ML107922131ML109190921ML109269361ML110104101ML123633261ML124704241ML127601661ML128211881 | 357.2 |
| Horned puffin | 48.3 | ML128125701ML129591491 ML132256341 ML132256341 ML133379331ML133502351ML135262671ML135482301ML103661271ML103661271ML110814591ML114538841ML114538901ML116573881ML128125681 | 260.7 |
| Pigeon guillemot | 34.9 | ML137281651ML137369751ML100083281ML102575791ML107512881ML107512911ML109212741ML109212751ML109270431ML109982411ML116574131ML126682601ML126741691ML129421451 ML129421471 | 276.7 |
| Tufted puffin | 58.2 | ML149438221ML77583491ML103948801 ML108569631ML108569931ML108988301ML110239891ML110391621ML111384021ML112301331ML113722471ML120413871ML131728531 ML133386421ML135063271 | 290.4 |

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