Supplementary Material

# Supplementary Figures



**Supplementary Figure 1.** Histogram of the raw behavioral response scores of chinstrap penguins (CHPE, *n* = 404), Antarctic fur seals (AFS, *n* = 160), and leopard seals (LS, *n* = 78) during control periods, 30 m UAS overflights, and ground survey methodologies (CHPE = nest and chick census counts, AFS = pup census counts, or LS = leopard seal sedation captures).



**Supplementary Figure 2.** Histogram of the raw behavioral response scores of chinstrap penguins (CHPE, *n* = 1199) to UAS overflights at specific altitudes during early, mid-, and late stages of their summer breeding chronology.



**Supplementary Figure 3.** Histogram of the raw behavioral response scores of Antarctic fur seals (AFS, *n* = 1418) to UAS overflights at specific altitudes during early, mid-, and late stages of their summer breeding chronology.



**Supplementary Figure 4**. Average behavioral responses (*n* = 4254 scores, plotted with standard deviation error bars) adult Antarctic fur seals (AFS) during UAS overflights at specific altitudes when: (**A**) compared between male and female animals, (**B**) the UAS approached target animals from downwind versus upwind, or (**C**) compared between animals in colonies regularly visited by researchers (High) and colonies rarely visited by researchers (Low).



**Supplementary Figure 5**. Histogram of the raw behavioral response scores of leopard seals (LS, *n* = 129) to UAS overflights at specific altitudes during early, mid-, and post molt stages. No leopard seals exhibited an “escape” response during any of these overflights.



**Supplementary Figure 6**. Average behavioral responses (plotted with standard deviation error bars) assigned to: (**A**) chinstrap penguins (CHPE, *n* = 1199 scores), (**B**) Antarctic fur seals (AFS, *n* = 1418 scores), and (**C**) leopard seals (LS, *n* = 129) during UAS overflights at specific altitudes by each of three independent observers (Obs 1, Obs 2, and Obs 3)