**Table S2**: **Description of the final MRDS models.**

Description of the final MRDS model used to model perception bias for each platform used in the AMAPPS surveys, species pooled in the analysis and sample size. The species pooled include humpback whales (huwh), fin whales (fiwh), minke whales (miwh), sei whales (sewh), unidentified fin-sei whale (fise), unidentified baleen whales (unbw), right whales (riwh) and sperm whales (spwh). The platform specific distance sampling (DS) model, truncation distance (W), key function (half-normal (HN) or hazard rate (HZ)), and total sample size (NTotal) for each analysis are included/shown/provided.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Platform | DS Model | W (m) | Key | MR Model | Species | NTotal |
| NE Ship | Distance+Glare | 4000 | HZ | Distance | cbwh, fise,fiwh,  huwh,miwh, riwh,  sewh,spwh,unbw | 137 |
| SE Ship | Distance+Beaufort | 8840 | HN | Distance\*Observer+Beaufort | fiwh,huwh,  riwh,spwh | 75 |
| NE Aerial | Distance+Glare | 900 | HZ | None | cbwh, fise,fiwh,  huwh,miwh,riwh,  sewh, spwh unbw | 131 |
| SE Aerial | Distance+Beaufort | 600 | HN | None | cbwh,fiwh, huwh,  miwh,riwh,spwh | 56 |