|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Site** | **Location** | **Date** | **Depth (m)** | **% Cover** | **Exposure (min.)** | **Pos. PCRs** | **Presence *z* (CI)** | **Occupancy** *ψ* **(CI)** | ***θ*11 (CI)** | ***p*11 (CI)** | **Method** |
| H02 | Hōlanikū | 7/11/2023 | 1.8 | <1 | 15 | 4, 4 | 1 | 0.60  (0.36, 0.83) | 0.98  (0.85, 1) | 0.79  (0.66, 0.90) | Active MCE & Passive MCE |
| H04 | Hōlanikū | 7/11/2023 | 1.5 | <1 | 15 | 4, 5 | 1 | 0.60  (0.35, 0.84) | 0.98  (0.85, 1) | 0.75  (0.59, 0.89) | Active MCE & Passive MCE |
| H05 | Hōlanikū | 7/11/2023 | 1.5 | <1 | 15 | 4, 5 | 1 | 0.60  (0.36, 0.83) | 0.98  (0.85, 1) | 0.79  (0.66, 0.89) | Active MCE & Passive MCE |
| H09 | Hōlanikū | 7/12/2023 | 1.8 | 0 | 15 | 0, 0 | 0 | 0.59  (0.36, 0.82) | 0.97  (0.85, 1) | 0.82  (0.71, 0.91) | Active MCE & Passive MCE |
| H10 | Hōlanikū | 7/12/2023 | 0.9 | 0 | 15 | 0, 0 | 0 | 0.59  (0.36, 0.82) | 0.97  (0.85, 1) | 0.81  (0.70, 0.91) | Active MCE & Passive MCE |
| K01 | Kuaihelani | 2/13/2024 | 3.7 | 5 | 15 | 6, 6 | 1 | 0.61  (0.39, 0.81) | 0.96  (0.83, 1) | 0.92  (0.82, 0.97) | Active MCE & Passive MCE |
| K02 | Kuaihelani | 6/26/2024 | 3.7 | 1 | 15 | 3, 3 | 1 | 0.54  (0.33, 0.74) | 0.93  (0.78, 1) | 0.49  (0.35, 0.63) | Passive Cotton & MCE on Buoy |
| K05 | Kuaihelani | 2/13/2024 | 1.5 | 85 | 15 | 6, 6 | 1 | 0.83  (0.44, 1) | 0.93  (0.39, 1) | 0.98  (0.90, 1) | Active MCE & Passive MCE |
| K07 | Kuaihelani | 6/26/2024 | 2.7 | <1 | 15 | 3, 3 | 1 | 0.54  (0.33, 0.74) | 0.94  (0.78, 1) | 0.47  (0.32, 0.61) | Passive Cotton & MCE on Buoy |
| K10 | Kuaihelani | 6/26/2024 | 4.6 | 20 | 15 | 3, 3 | 1 | 0.64  (0.42, 0.84) | 0.94  (0.79, 1) | 0.61  (0.42, 0.81) | Passive Cotton & MCE on Buoy |
| K11 | Kuaihelani | 6/26/2024 | 2.7 | 1 | 15 | 0, 3 | 1 | 0.54  (0.33, 0.74) | 0.94  (0.78, 1) | 0.48  (0.34, 0.62) | Passive Cotton & MCE on Buoy |
| K12 | Kuaihelani | 2/13/2024 | 1.5 | 5 | 15 | 6, 6 | 1 | 0.61  (0.39, 0.81) | 0.96  (0.84, 1) | 0.91  (0.82, 0.96) | Active MCE & Passive MCE |
| K13 | Kuaihelani | 2/13/2024 | 2.7 | 80 | 15 | 6, 6 | 1 | 0.82  (0.44, 0.99) | 0.93  (0.43, 1) | 0.98  (0.90, 1) | Active MCE & Passive MCE |
| K14 | Kuaihelani | 6/27/2024 | 7.6 | 0 | 15 | 0, 0 | 0 | 0.54  (0.32, 0.74) | 0.93  (0.77, 1) | 0.48  (0.34, 0.63) | Passive Cotton & MCE on Buoy |
| K15 | Kuaihelani | 6/27/2024 | 1.8 | 0 | 15 | 0, 0 | 0 | 0.54  (0.32, 0.74) | 0.93  (0.77, 1) | 0.49  (0.34, 0.63) | Passive Cotton & MCE on Buoy |
| K16 | Kuaihelani | 6/27/2024 | 0.9 | 0 | 15 | 0, 0 | 0 | 0.54  (0.32, 0.74) | 0.93  (0.77, 1) | 0.49  (0.34, 0.64) | Passive Cotton & MCE on Buoy |
| K17 | Kuaihelani | 2/13/2024 | 1.1 | 20 | 15 | 6, 6 | 1 | 0.68  (0.46, 0.87) | 0.96  (0.83, 1) | 0.94  (0.87, 0.98) | Active MCE & Passive MCE |
| K20 | Kuaihelani | 6/27/2024 | 1.8 | <1 | 15 | 3, 3 | 1 | 0.54  (0.33, 0.74) | 0.93  (0.78, 1) | 0.48  (0.33, 0.62) | Passive Cotton & MCE on Buoy |
| K21 | Kuaihelani | 6/27/2024 | 4.6 | 0 | 15 | 0, 0 | 0 | 0.54  (0.32, 0.74) | 0.93  (0.77, 1) | 0.49  (0.34, 0.64) | Passive Cotton & MCE on Buoy |
| K22 | Kuaihelani | 6/27/2024 | 1.5 | 0 | 15 | 0, 0 | 0 | 0.53  (0.32, 0.74) | 0.93  (0.76, 1) | 0.51  (0.35, 0.66) | Passive Cotton & MCE on Buoy |
| K23 | Kuaihelani | 6/27/2024 | 0.9 | 0 | 15 | 0, 0 | 0 | 0.54  (0.32, 0.74) | 0.93  (0.77, 1) | 0.49  (0.34, 0.64) | Passive Cotton & MCE on Buoy |
| K24 | Kuaihelani | 6/27/2024 | 0.9 | 0 | 15 | 0, 0 | 0 | 0.54  (0.32, 0.74) | 0.93  (0.77, 1) | 0.48  (0.34, 0.63) | Passive Cotton & MCE on Buoy |
| PHR01 | Manawai | 9/23/2024 | 6.1 | 0 | 47 | 1, 2 | 0.08  (0, 1) | 0.50  (0.18, 0.78) | 0.38  (0.04, 0.91) | 0.97  (0.87, 1) | Passive cotton on SCUBA |
| PHR02 | Manawai | 9/23/2024 | 3.4 | 0 | 57 | 6, 0 | 0.17  (0, 1) | 0.50  (0.19, 0.78) | 0.39  (0.05, 0.90) | 0.97  (0.89, 1) | Passive cotton on SCUBA |
| PHR03 | Manawai | 9/26/2024 | 4.6 | 0 | 223 | 1, 3 | 0.07  (0, 1) | 0.46  (0.08, 0.86) | 0.43  (0, 1) | 0.95  (0.27, 1) | Passive cotton on SCUBA |
| PHR04 | Manawai | 9/26/2024 | 21.3 | 0 | 225 | 1, 0 | 0.07  (0, 1) | 0.46  (0.08, 0.86) | 0.43  (0, 1) | 0.94  (0.26, 1) | Passive cotton on SCUBA |
| PHR05 | Manawai | 9/27/2024 | 4.3 | <1 | 49 | 0, 0 | 1 | 0.51  (0.23, 0.78) | 0.51  (0.14, 0.91) | 0.96  (0.86, 1) | Passive cotton on SCUBA |
| PHR06 | Manawai | 9/27/2024 | 3.0 | 0 | 15 | 6, 3 | 0.28  (0, 1) | 0.52  (0.24, 0.79) | 0.55  (0.11, 0.93) | 0.91  (0.66, 1) | Passive cotton on SCUBA |
| PHR07 | Manawai | 9/24/2024 | 3.0 | 60 | 54 | 6, 5 | 1 | 0.77  (0.42, 0.98) | 0.59  (0.08, 1) | 0.96  (0.80, 1) | Passive cotton on SCUBA |
| PHR08 | Manawai | 9/24/2024 | 3.0 | 60 | 46 | 4, 6 | 1 | 0.77  (0.43, 0.98) | 0.61  (0.10, 1) | 0.96  (0.84, 1) | Passive cotton on SCUBA |
| PHR09 | Manawai | 9/27/2024 | 3.7 | <1 | 53 | 6, 6 | 1 | 0.51  (0.25, 0.77) | 0.62  (0.27, 0.92) | 0.95  (0.83, 1) | Passive cotton on SCUBA |
| PHR10 | Manawai | 9/25/2024 | 20.7 | 20 | 225 | 6, 6 | 1 | 0.62  (0.20, 0.93) | 0.67  (0, 1) | 0.95  (0.47, 1) | Passive cotton on SCUBA |
| PHR11 | Manawai | 7/18/2023 | 16.8 | 15 | 90 | 3, 6 | 1 | 0.60  (0.35, 0.83) | 0.64  (0.23, 0.95) | 0.97  (0.86, 1) | Passive cotton on SCUBA |
| PHR12 | Manawai | 7/18/2023 | 16.8 | 0 | 52 | 0, 5 | 0.19  (0, 1) | 0.51  (0.23, 0.77) | 0.53  (0.16, 0.91) | 0.96  (0.86, 1) | Passive cotton on SCUBA |

Note: Presence is the estimated probability that *C. tumulosa* eDNA is present at a site, given all modeled observations. Occupancy (*ψ*) is the inherent probability that a site is occupied by *C. tumulosa* eDNA. True capture (*θ*11) is the probability of a sample containing *C. tumulosa* eDNA from an occupied site. True detection (*p*11) is the probability of qPCR replicate detection from a sample containing *C. tumulosa* eDNA.