Table S6: Assignment probability to reporting group and population for 28 populations using five SNP panels. Populations are designated by their number (Fig. 1, Table 1). Confidence intervals (95%) are in parentheses. The Bristol Bay-Kuskokwim reporting group is abbreviated Bristol-Kusk.

|  | |  | | Assignment to Reporting Group | | | |  |  |  | |  | | |  |  | Assignment to Population | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pop# | Reporting Group | | Full 281 | | FST96 | EST191 | RAD96 | | | | 96 Random | |  |  | Full 281 | FST96 | | EST191 | RAD96 | | 96 Random |
| 1 | Norton Sound | | 0.89 (0.83-0.95) | | 0.88 (0.82-0.95) | 0.89 (0.83-0.95) | 0.67 (0.55-0.79) | | | | 0.80 (0.69-0.89) | | |  | 0.89 (0.82-0.95) | 0.87 (0.8-0.94) | | 0.89 (0.83-0.94) | 0.65 (0.53-0.75) | | 0.78 (0.68-0.86) | |
| 2 | Norton Sound | | 1.00 (0.99-1.00) | | 0.98 (0.96-1.00) | 0.99 (0.97-1.00) | 1.00 (0.99-1.00) | | | | 0.99 (0.98-1.00) | | |  | 1.00 (0.99-1.00) | 0.98 (0.96-1.00) | | 0.99 (0.97-1.00) | 1.00 (0.98-1.00) | | 0.99 (0.97-1.00) | |
| 3 | Norton Sound | | 0.93 (0.88-0.98) | | 0.95 (0.9-0.98) | 0.81 (0.74-0.87) | 0.89 (0.82-0.95) | | | | 0.83 (0.73-0.89) | | |  | 0.93 (0.88-0.98) | 0.94 (0.89-0.98) | | 0.81 (0.74-0.87) | 0.88 (0.80-0.95) | | 0.82 (0.73-0.89) | |
| 4 | Norton Sound | | 0.98 (0.95-1.00) | | 0.95 (0.9-0.98) | 0.97 (0.93-0.99) | 0.88 (0.81-0.95) | | | | 0.90 (0.84-0.96) | | |  | 0.98 (0.95-0.99) | 0.94 (0.88-0.98) | | 0.97 (0.93-0.99) | 0.83 (0.76-0.90) | | 0.87 (0.81-0.95) | |
| 5 | Lower Yukon | | 0.88 (0.80-0.93) | | 0.92 (0.85-0.97) | 0.83 (0.75-0.90) | 0.83 (0.75-0.90) | | | | 0.74 (0.62-0.87) | | |  | 0.79 (0.72-0.87) | 0.79 (0.69-0.86) | | 0.68 (0.59-0.78) | 0.69 (0.59-0.78) | | 0.62 (0.50-0.74) | |
| 6 | Lower Yukon | | 0.97 (0.93-1.00) | | 0.98 (0.96-1.00) | 0.74 (0.61-0.84) | 0.98 (0.95-1.00) | | | | 0.92 (0.84-0.98) | | |  | 0.67 (0.56-0.74) | 0.7 (0.61-0.80) | | 0.34 (0.24-0.42) | 0.80 (0.71-0.89) | | 0.64 (0.54-0.73) | |
| 7 | Lower Yukon | | 0.88 (0.79-0.94) | | 0.89 (0.82-0.96) | 0.81 (0.69-0.89) | 0.83 (0.73-0.92) | | | | 0.60 (0.48-0.71) | | |  | 0.80 (0.72-0.88) | 0.81 (0.74-0.88) | | 0.74 (0.63-0.83) | 0.68 (0.56-0.77) | | 0.56 (0.45-0.68) | |
| 8 | Bristol-Kusk | | 0.99 (0.96-1.00) | | 0.99 (0.97-1.00) | 0.98 (0.94-1.00) | 0.98 (0.93-1.00) | | | | 0.95 (0.86-1.00) | | |  | 0.39 (0.30-0.48) | 0.48 (0.35-0.60) | | 0.29 (0.15-0.39) | 0.43 (0.28-0.56) | | 0.41 (0.27-0.54) | |
| 9 | Bristol-Kusk | | 0.99 (0.97-1.00) | | 0.98 (0.93-1.00) | 0.99 (0.96-1.00) | 0.94 (0.87-1.00) | | | | 0.96 (0.89-1.00) | | |  | 0.04 (0.00-1.00) | 0.09 (0.00-0.20) | | 0.10 (0.02-0.21) | 0.00 (0.00-0.00) | | 0.00 (0.00-0.10) | |
| 10 | Bristol-Kusk | | 0.99 (0.97-1.00) | | 0.99 (0.94-1.00) | 0.99 (0.96-1.00) | 0.95 (0.88-1.00) | | | | 0.97 (0.91-1.00) | | |  | 0.30 (0.21-0.41) | 0.43 (0.31-0.55) | | 0.25 (0.15-0.37) | 0.18 (0.06-0.32) | | 0.19 (0.08-0.32) | |
| 11 | Bristol-Kusk | | 0.97 (0.93-1.00) | | 0.96 (0.9-1.00) | 0.91 (0.82-0.97) | 0.91 (0.82-0.98) | | | | 0.80 (0.68-0.91) | | |  | 0.12 (0.04-0.20) | 0.13 (0.01-0.25) | | 0.06 (0.00-0.13) | 0.04 (0.00-0.14) | | 0.01 (0.00-0.06) | |
| 12 | Bristol-Kusk | | 0.99 (0.97-1.00) | | 0.97 (0.92-1.00) | 0.99 (0.96-1.00) | 0.93 (0.85-0.98) | | | | 0.96 (0.88-1.00) | | |  | 0.47 (0.36-0.57) | 0.49 (0.33-0.62) | | 0.45 (0.31-0.56) | 0.27 (0.13-0.40) | | 0.22 (0.05-0.34) | |
| 13 | Bristol-Kusk | | 0.99 (0.96-1.00) | | 0.97 (0.91-1.00) | 0.95 (0.88-1.00) | 0.97 (0.92-1.00) | | | | 0.95 (0.88-1.00) | | |  | 0.39 (0.30-0.49) | 0.43 (0.28-0.53) | | 0.40 (0.29-0.51) | 0.26 (0.14-0.35) | | 0.29 (0.16-0.40) | |
| 14 | Bristol-Kusk | | 0.99 (0.97-1.00) | | 0.99 (0.97-1.00) | 0.99 (0.95-1.00) | 0.94 (0.87-1.00) | | | | 0.98 (0.92-1.00) | | |  | 0.63 (0.53-0.74) | 0.53 (0.40-0.66) | | 0.63 (0.53-0.73) | 0.42 (0.28-0.53) | | 0.58 (0.45-0.68) | |
| 15 | Bristol-Kusk | | 0.96 (0.89-0.99) | | 0.93 (0.87-0.98) | 0.92 (0.85-0.98) | 0.91 (0.81-0.96) | | | | 0.98 (0.93-1.00) | | |  | 0.05 (0.00-0.10) | 0.1 (0.01-0.18) | | 0.08 (0.02-0.15) | 0.01 (0.00-0.04) | | 0.00 (0.00-0.00) | |
| 16 | Bristol-Kusk | | 0.99 (0.96-1.00) | | 0.98 (0.95-1.00) | 0.94 (0.87-0.99) | 0.99 (0.96-1.00) | | | | 0.98 (0.94-1.00) | | |  | 0.50 (0.41-0.60) | 0.5 (0.36-0.62) | | 0.19 (0.09-0.29) | 0.63 (0.52-0.74) | | 0.42 (0.30-0.53) | |
| 17 | Bristol-Kusk | | 1.00 (0.98-1.00) | | 0.99 (0.97-1.00) | 0.99 (0.97-1.00) | 0.96 (0.86-1.00) | | | | 0.97 (0.93-1.00) | | |  | 0.78 (0.70-0.84) | 0.75 (0.65-0.85) | | 0.71 (0.59-0.78) | 0.70 (0.58-0.81) | | 0.78 (0.66-0.86) | |
| 18 | Bristol-Kusk | | 0.98 (0.95-1.00) | | 0.97 (0.93-1.00) | 0.97 (0.93-1.00) | 0.94 (0.86-0.99) | | | | 0.89 (0.80-0.98) | | |  | 0.63 (0.55-0.71) | 0.64 (0.52-0.73) | | 0.59 (0.47-0.69) | 0.45 (0.34-0.57) | | 0.43 (0.28-0.56) | |
| 19 | Bristol-Kusk | | 0.99 (0.96-1.00) | | 0.99 (0.96-1.00) | 0.98 (0.94-1.00) | 0.97 (0.90-1.00) | | | | 0.97 (0.88-1.00) | | |  | 0.33 (0.23-0.42) | 0.33 (0.20-0.46) | | 0.29 (0.19-0.39) | 0.23 (0.10-0.38) | | 0.11 (0.01-0.25) | |
| 20 | Bristol-Kusk | | 0.99 (0.97-1.00) | | 0.99 (0.96-1.00) | 0.99 (0.96-1.00) | 0.95 (0.88-0.99) | | | | 0.97 (0.90-1.00) | | |  | 0.12 (0.04-0.21) | 0.11 (0.00-0.20) | | 0.04 (0.00-0.11) | 0.10 (0.01-0.20) | | 0.00 (0.00-0.06) | |
| 21 | Bristol-Kusk | | 0.99 (0.97-1.00) | | 0.99 (0.98-1.00) | 0.98 (0.95-1.00) | 0.99 (0.97-1.00) | | | | 0.96 (0.88-1.00) | | |  | 0.42 (0.32-0.53) | 0.49 (0.36-0.61) | | 0.32 (0.18-0.44) | 0.42 (0.29-0.53) | | 0.26 (0.11-0.38) | |
| 22 | Bristol-Kusk | | 1.00 (0.99-1.00) | | 0.99 (0.97-1.00) | 0.97 (0.93-1.00) | 0.99 (0.98-1.00) | | | | 0.99 (0.96-1.00) | | |  | 0.78 (0.68-0.87) | 0.81 (0.71-0.91) | | 0.40 (0.30-0.50) | 0.87 (0.80-0.95) | | 0.59 (0.46-0.69) | |
| 23 | Bristol-Kusk | | 0.98 (0.95-1.00) | | 0.95 (0.88-1.00) | 0.97 (0.92-1.00) | 0.95 (0.85-1.00) | | | | 0.91 (0.82-0.99) | | |  | 0.29 (0.19-0.38) | 0.16 (0.04-0.27) | | 0.31 (0.18-0.43) | 0.09 (0.00-0.20) | | 0.21 (0.08-0.36) | |
| 24 | Bristol-Kusk | | 1.00 (0.98-1.00) | | 0.99 (0.97-1.00) | 0.99 (0.96-1.00) | 0.98 (0.94-1.00) | | | | 0.99 (0.96-1.00) | | |  | 0.67 (0.59-0.75) | 0.79 (0.69-0.87) | | 0.62 (0.52-0.71) | 0.56 (0.45-0.65) | | 0.54 (0.43-0.65) | |
| 25 | Middle Yukon | | 1.00 (1.00-1.00) | | 1.00 (0.99-1.00) | 1.00 (1.00-1.00) | 1.00 (0.99-1.00) | | | | 1.00 (0.99-1.00) | | |  | 1.00 (0.99-1.00) | 0.98 (0.95-1.00) | | 0.99 (0.97-1.00) | 0.97 (0.92-1.00) | | 0.97 (0.93-1.00) | |
| 26 | Middle Yukon | | 1.00 (1.00-1.00) | | 1.00 (0.99-1.00) | 1.00 (0.99-1.00) | 1.00 (0.99-1.00) | | | | 1.00 (0.99-1.00) | | |  | 1.00 (1.00-1.00) | 0.99 (0.96-1.00) | | 1.00 (0.99-1.00) | 0.99 (0.98-1.00) | | 0.99 (0.98-1.00) | |
| 27 | Middle Yukon | | 1.00 (1.00-1.00) | | 1.00 (1.00-1.00) | 1.00 (1.00-1.00) | 1.00 (1.00-1.00) | | | | 1.00 (0.99-1.00) | | |  | 1.00 (0.99-1.00) | 0.99 (0.95-1.00) | | 0.99 (0.98-1.00) | 0.98 (0.94-1.00) | | 0.97 (0.93-1.00) | |
| 28 | Upper Yukon | | 1.00 (1.00-1.00) | | 1.00 (1.00-1.00) | 1.00 (1.00-1.00) | 1.00 (0.99-1.00) | | | | 1.00 (0.99-1.00) | | |  | 1.00 (1.00-1.00) | 1.00 (1.00-1.00) | | 1.00 (1.00-1.00) | 1.00 (0.99-1.00) | | 1.00 (0.99-1.00) | |