**Table S1: Ethnicities, towns and coordinates**



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| # | Ethnicity | Town | Coordinates | |
|  |  |  |  |  |
| 1 | Sakalava | Ambanja | -13.67 | 48.33 |
| 2 | Sihanaka | Ambatondrazaka | -17.87 | 48.42 |
| 3 | Antankarana | Ambilobe | -13.20 | 49.05 |
| 4 | Antandroy | Ambovombe | -25.17 | 46.08 |
| 5 | Mahafaly | Ampanihy | -24.68 | 44.73 |
| 6 | Mikea | Ampoakafo | -22.67 | 43.75 |
| 7 | Betsimisaraka | Antalaha | -14.88 | 50.27 |
| 8 | Merina | Antananarivo | -18.90 | 47.52 |
| 9 | Bara | Betroka | -23.28 | 46.08 |
| 10 | Zafisoro | Farafangana | -22.80 | 47.82 |
| 11 | Betsimisaraka | Fenoarivo-Est | -17.38 | 49.40 |
| 12 | Betsileo | Fianarantsoa | -21.43 | 47.08 |
| 13 | Betsimisaraka | Mahanoro | -19.88 | 48.80 |
| 14 | Sakalava | Maintirano | -18.07 | 44.02 |
| 15 | Sakalava | Mahajanga | -15.72 | 46.32 |
| 16 | Antaimoro | Manakara | -22.10 | 48.00 |
| 17 | Antambohoaka | Mananjary | -21.22 | 48.33 |
| 18 | Tsimihety | Mandritsara | -15.83 | 48.82 |
| 19 | Masikoro | Miary | -23.30 | 43.72 |
| 20 | Sakalava | Morondava | -20.28 | 44.32 |
| 21 | Antanosy | Tolagnaro | -25.03 | 46.98 |
| 22 | Vezo | Toliara | -23.34 | 43.67 |
| 23 | Antaisaka | Vangaindrano | -23.32 | 47.60 |
| 24 | Antankarana | Vohemar | -13.37 | 50.00 |
| 25 | Betsileo | Ambositra | -20.52 | 47.25 |
| 26 | Betsileo | Ambalavao | -21.83 | 46.92 |
| 27 | Antanalana | Itampolo | -24.68 | 43.95 |
| 28 | Vezo | Morombe | -21.74 | 43.36 |
| 29 | Antanosy | Bezaha | -23.50 | 44.50 |
| 30 | Tanala | Ifanadiana | -21.28 | 47.63 |
| 31 | Bara | Ranohira | -22.43 | 45.35 |
| 32 | Antanalana | Manorofify | -23.52 | 43.97 |
| 33 | Antandroy | Toliara | -23.34 | 43.67 |
| 34 | Antanalana | Anakao | -23.67 | 43.65 |
| 35 | Betsimisaraka | Marolambo | -20.05 | 48.12 |
| 36 | Betsimisaraka | Antsiranana | -12.27 | 49.28 |
| 37 | Betsimisaraka | Brickaville | -18.82 | 49.07 |
| 38 | Betsimisaraka | Toamasina | -18.15 | 49.42 |
| 39 | Betsimisaraka | Mananara | -16.17 | 49.77 |
| 40 | Tsimihety | Mampikony | -16.09 | 47.64 |
| 41 | Tsimihety | Andapa | -14.67 | 49.65 |
| 42 | Nosy Boraha | Ambodifotatra | -17.00 | 49.85 |
| 43 | Bara | Beroroha | -21.67 | 45.17 |
| 44 | Sakalava | Miandrivazo | -19.56 | 45.45 |
| 45 | Vezo | Morondava | -20.28 | 44.32 |
| 46 | Bara | Ihosy | -22.40 | 46.12 |
| 47 | Tsimihety | Antsohihy | -14.88 | 47.98 |
| 48 | Merina | Maevatanana | -16.95 | 46.83 |
| 49 | Sakalava | Besalampy | -16.75 | 44.47 |
| 50 | Betsimisaraka | Tanambao Manampotsy | -19.48 | 48.57 |
| 51 | Sihanaka | Morarano Chrome | -17.75 | 48.17 |
| 52 | Betsileo | Ambohimahasoa | -21.10 | 47.22 |
| 53 | Betsimisaraka | Maroantsetra | -15.43 | 49.75 |
| 54 | Merina | Analavory | -18.58 | 46.43 |
| 55 | Betsimisaraka | Sahavato | -20.60 | 48.33 |
| 56 | Mahafaly | Ejeda | -24.35 | 44.52 |
| 57 | Antanosy | Belamoty | -23.55 | 44.80 |
| 58 | Sihanaka | Andilamena | -17.02 | 48.58 |
| 59 | Antandroy | Tsihombe | -25.32 | 45.48 |
| 60 | Sakalava | Belon'i Tsiribihina | -19.70 | 44.55 |
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The name of the dialects (ethnicities), the name of the Towns/Villages where dialects were collected toghether with their coordinates. Latitude and longitude are given in degrees complete of decimals, therefore, the two digits after point do not represent seconds but degree's decimals.