

# Appendixes

## Appendix 1. List of hunter-gatherer languages

| WALS code | Name               | Genus                        | Family              | Macroarea |
|-----------|--------------------|------------------------------|---------------------|-----------|
| orw       | Oromo (Waata)      | Eastern Cushitic             | Afro-Asiatic        | Africa    |
| dah       | Dahalo             | Southern Cushitic            | Afro-Asiatic        | Africa    |
| had       | Hadza              | Hadza                        | Hadza               | Africa    |
| ani       | //Ani              | Central Khoisan              | Khoisan             | Africa    |
| det       | Deti               | Central Khoisan              | Khoisan             | Africa    |
| kxo       | Kxoe               | Central Khoisan              | Khoisan             | Africa    |
| nro       | Nharo              | Central Khoisan              | Khoisan             | Africa    |
| xun       | !Xun (Ekoka)       | Northern Khoisan             | Khoisan             | Africa    |
| juh       | Ju 'hoan           | Northern Khoisan             | Khoisan             | Africa    |
| sdw       | Sandawe            | Sandawe                      | Khoisan             | Africa    |
| xoo       | !Xóǒ               | Southern Khoisan             | Khoisan             | Africa    |
| xam       | /Xam               | Southern Khoisan             | Khoisan             | Africa    |
| bak       | Baka (in Cameroon) | Adamawa-Ubangian             | Niger-Congo         | Africa    |
| aka       | Aka                | Bantoid                      | Niger-Congo         | Africa    |
| shb       | Shabo              | Shabo                        | Nilo-Saharan        | Africa    |
| koe       | Koegu              | Surmic                       | Nilo-Saharan        | Africa    |
| ain       | Ainu               | Ainu                         | Ainu                | Eurasia   |
| evn       | Even               | Tungusic                     | Altaic              | Eurasia   |
| eve       | Evenki             | Tungusic                     | Altaic              | Eurasia   |
| nai       | Nanai              | Tungusic                     | Altaic              | Eurasia   |
| neg       | Negidal            | Tungusic                     | Altaic              | Eurasia   |
| orc       | Oroch              | Tungusic                     | Altaic              | Eurasia   |
| ork       | Orok               | Tungusic                     | Altaic              | Eurasia   |
| udh       | Udihe              | Tungusic                     | Altaic              | Eurasia   |
| ulc       | Ulcha              | Tungusic                     | Altaic              | Eurasia   |
| dol       | Dolgan             | Turkic                       | Altaic              | Eurasia   |
| tof       | Tofa               | Turkic                       | Altaic              | Eurasia   |
| alu       | Alutor             | Northern Chukotko-Kamchatkan | Chukotko-Kamchatkan | Eurasia   |

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## Appendix 1. (Continued)

| WALS code | Name                   | Genus                        | Family              | Macroarea         |
|-----------|------------------------|------------------------------|---------------------|-------------------|
| chk       | Chukchi                | Northern Chukotko-Kamchatkan | Chukotko-Kamchatkan | Eurasia           |
| krq       | Kerek                  | Northern Chukotko-Kamchatkan | Chukotko-Kamchatkan | Eurasia           |
| kry       | Koryak                 | Northern Chukotko-Kamchatkan | Chukotko-Kamchatkan | Eurasia           |
| ite       | Itelmen                | Southern Chukotko-Kamchatkan | Chukotko-Kamchatkan | Eurasia           |
| ved       | Vedda                  | Indic                        | Indo-European       | Eurasia           |
| kus       | Kusunda                | Kusunda                      | Kusunda             | Eurasia           |
| niv       | Nivkh                  | Nivkh                        | Nivkh               | Eurasia           |
| nvs       | Nivkh (South Sakhalin) | Nivkh                        | Nivkh               | Eurasia           |
| ene       | Enets                  | Samoyedic                    | Uralic              | Eurasia           |
| nga       | Nganasan               | Samoyedic                    | Uralic              | Eurasia           |
| skp       | Selkup                 | Samoyedic                    | Uralic              | Eurasia           |
| kty       | Khanty                 | Ugric                        | Uralic              | Eurasia           |
| mns       | Mansi                  | Ugric                        | Uralic              | Eurasia           |
| ket       | Ket                    | Yeniseian                    | Yeniseian           | Eurasia           |
| ktt       | Kott                   | Yeniseian                    | Yeniseian           | Eurasia           |
| yug       | Yugh                   | Yeniseian                    | Yeniseian           | Eurasia           |
| yko       | Yukaghir (Kolyma)      | Yukaghir                     | Yukaghir            | Eurasia           |
| apk       | A-Pucikwar             | Great Andamanese             | Andamanese          | SE Asia & Oceania |
| akb       | Aka-Biada              | Great Andamanese             | Andamanese          | SE Asia & Oceania |
| akc       | Aka-Cari               | Great Andamanese             | Andamanese          | SE Asia & Oceania |
| akk       | Aka-Kede               | Great Andamanese             | Andamanese          | SE Asia & Oceania |
| jrj       | Jarawa (in Andamans)   | South Andamanese             | Andamanese          | SE Asia & Oceania |
| ong       | Onge                   | South Andamanese             | Andamanese          | SE Asia & Oceania |
| jah       | Jahai                  | Aslian                       | Austro-Asiatic      | SE Asia & Oceania |
| jun       | Juang                  | Munda                        | Austro-Asiatic      | SE Asia & Oceania |

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| <b>WALS code</b> | <b>Name</b>         | <b>Genus</b>                    | <b>Family</b>     | <b>Macroarea</b>  |
|------------------|---------------------|---------------------------------|-------------------|-------------------|
| mlm              | Mlabri (Minor)      | Palaung-Khmuic                  | Austro-Asiatic    | SE Asia & Oceania |
| bat              | Batak               | Meso-Philippine                 | Austronesian      | SE Asia & Oceania |
| mmn              | Mamanwa             | Meso-Philippine                 | Austronesian      | SE Asia & Oceania |
| agc              | Agta (Central)      | Northern Philippines            | Austronesian      | SE Asia & Oceania |
| dca              | Dumagat (Casiguran) | Northern Philippines            | Austronesian      | SE Asia & Oceania |
| baj              | Bajau               | Sama-Bajaw                      | Austronesian      | SE Asia & Oceania |
| bik              | Biak                | South Halmahera–West New Guinea | Austronesian      | SE Asia & Oceania |
| wrp              | Waropen             | South Halmahera–West New Guinea | Austronesian      | SE Asia & Oceania |
| url              | Urak Lawoi'         | Sundic                          | Austronesian      | SE Asia & Oceania |
| bzi              | Bauzi               | East Geelvink Bay               | East Geelvink Bay | New Guinea        |
| kiw              | Kiwai               | Kiwaian                         | Kiwaian           | New Guinea        |
| isi              | Isirawa             | Kwerba                          | Kwerba            | New Guinea        |
| kwb              | Kwerba              | Kwerba                          | Kwerba            | New Guinea        |
| dou              | Doutai              | Lakes Plain                     | Lakes Plain       | New Guinea        |
| iau              | Iau                 | Lakes Plain                     | Lakes Plain       | New Guinea        |
| kkk              | Kirikiri            | Lakes Plain                     | Lakes Plain       | New Guinea        |
| skr              | Sikaritai           | Lakes Plain                     | Lakes Plain       | New Guinea        |
| kbo              | Kambot              | Botin                           | Lower Sepik-Ramu  | New Guinea        |
| mrk              | Murik               | Lower Sepik                     | Lower Sepik-Ramu  | New Guinea        |
| yim              | Yimas               | Lower Sepik                     | Lower Sepik-Ramu  | New Guinea        |
| boa              | Boazi               | Marind Proper                   | Marind            | New Guinea        |
| zim              | Zimakani            | Marind Proper                   | Marind            | New Guinea        |
| kwo              | Kwoma               | Middle Sepik                    | Sepik             | New Guinea        |
| ala              | Alamblak            | Sepik Hill                      | Sepik             | New Guinea        |
| bhn              | Bahinemo            | Sepik Hill                      | Sepik             | New Guinea        |
| sar              | Sare                | Sepik Hill                      | Sepik             | New Guinea        |
| brk              | Berik               | Tor                             | Tor               | New Guinea        |
| one              | One                 | West Wapei                      | Torricelli        | New Guinea        |
| asm              | Asmat               | Asmat-Kamoro                    | Trans-New Guinea  | New Guinea        |
| kmr              | Kamoro              | Asmat-Kamoro                    | Trans-New Guinea  | New Guinea        |
| kmb              | Kombai              | Awju-Dumut                      | Trans-New Guinea  | New Guinea        |

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## Appendix 1. (Continued)

| WALS code | Name           | Genus         | Family     | Macroarea |
|-----------|----------------|---------------|------------|-----------|
| ann       | Anindilyakwa   | Anindilyakwa  | Australian | Australia |
| bac       | Bachamal       | Anson Bay     | Australian | Australia |
| pun       | Pungupungu     | Anson Bay     | Australian | Australia |
| bnb       | Bunuba         | Bunuban       | Australian | Australia |
| goo       | Gooniyandi     | Bunuban       | Australian | Australia |
| bua       | Burarra        | Burarran      | Australian | Australia |
| grg       | Gurr-goni      | Burarran      | Australian | Australia |
| kij       | Kitja          | Djeragan      | Australian | Australia |
| mir       | Miriwung       | Djeragan      | Australian | Australia |
| kmw       | Kamu           | Eastern Daly  | Australian | Australia |
| mdl       | Madngele       | Eastern Daly  | Australian | Australia |
| gaa       | Gaagudju       | Gaagudju      | Australian | Australia |
| grr       | Garrwa         | Garrwan       | Australian | Australia |
| bbw       | Bininj Gun-Wok | Gunwinygic    | Australian | Australia |
| gnb       | Gunbalang      | Gunwinygic    | Australian | Australia |
| nkb       | Ngalkbun       | Gunwinygic    | Australian | Australia |
| iwa       | Iwaidja        | Iwaidjan      | Australian | Australia |
| mau       | Maung          | Iwaidjan      | Australian | Australia |
| jam       | Jaminjung      | Jaminjungan   | Australian | Australia |
| lar       | Laragia        | Laragiyen     | Australian | Australia |
| lml       | Limilngan      | Limilngan     | Australian | Australia |
| myi       | Mangarrayi     | Mangarrayi    | Australian | Australia |
| alw       | Alawa          | Maran         | Australian | Australia |
| mra       | Mara           | Maran         | Australian | Australia |
| wrn       | Warndarang     | Maran         | Australian | Australia |
| mpa       | Murrinh-Patha  | Murrinh-Patha | Australian | Australia |
| nkk       | Nakkara        | Nakkara       | Australian | Australia |
| ndj       | Ndjébbana      | Ndjébbana     | Australian | Australia |
| ngl       | Ngalakan       | Ngalakan      | Australian | Australia |
| ngn       | Ngandi         | Ngandi        | Australian | Australia |
| mlk       | Malakmalak     | Northern Daly | Australian | Australia |
| tye       | Tyeraity       | Northern Daly | Australian | Australia |
| nug       | Nunggubuyu     | Nunggubuyu    | Australian | Australia |

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| <b>WALS code</b> | <b>Name</b>              | <b>Genus</b> | <b>Family</b> | <b>Macroarea</b> |
|------------------|--------------------------|--------------|---------------|------------------|
| brd              | Bardi                    | Nyulnyulan   | Australian    | Australia        |
| nyn              | Nyigina                  | Nyulnyulan   | Australian    | Australia        |
| nyu              | Nyulnyul                 | Nyulnyulan   | Australian    | Australia        |
| wrw              | Warrwa                   | Nyulnyulan   | Australian    | Australia        |
| ywr              | Yawuru                   | Nyulnyulan   | Australian    | Australia        |
| adn              | Adynyamathanha           | Pama-Nyungan | Australian    | Australia        |
| aly              | Alyawarra                | Pama-Nyungan | Australian    | Australia        |
| agt              | Anguthimri               | Pama-Nyungan | Australian    | Australia        |
| abn              | Arabana                  | Pama-Nyungan | Australian    | Australia        |
| arr              | Arrernte                 | Pama-Nyungan | Australian    | Australia        |
| amp              | Arrernte<br>(Mparntwe)   | Pama-Nyungan | Australian    | Australia        |
| awe              | Arrernte<br>(Western)    | Pama-Nyungan | Australian    | Australia        |
| bdm              | Badimaya                 | Pama-Nyungan | Australian    | Australia        |
| bnj              | Bandjalang               | Pama-Nyungan | Australian    | Australia        |
| bca              | Bandjalang<br>(Casino)   | Pama-Nyungan | Australian    | Australia        |
| bwa              | Bandjalang<br>(Waalubal) | Pama-Nyungan | Australian    | Australia        |
| byu              | Bandjalang<br>(Yugumbir) | Pama-Nyungan | Australian    | Australia        |
| bnl              | Banggarla                | Pama-Nyungan | Australian    | Australia        |
| bnr              | Bilinara                 | Pama-Nyungan | Australian    | Australia        |
| bii              | Biri                     | Pama-Nyungan | Australian    | Australia        |
| bnu              | Bularnu                  | Pama-Nyungan | Australian    | Australia        |
| clc              | Colac                    | Pama-Nyungan | Australian    | Australia        |
| dhw              | Dharawal                 | Pama-Nyungan | Australian    | Australia        |
| dhr              | Dhargari                 | Pama-Nyungan | Australian    | Australia        |
| dhb              | Dharumbal                | Pama-Nyungan | Australian    | Australia        |
| dhu              | Dhurga                   | Pama-Nyungan | Australian    | Australia        |
| dda              | Dhuwal (Dätiwuy)         | Pama-Nyungan | Australian    | Australia        |
| diy              | Diyari                   | Pama-Nyungan | Australian    | Australia        |
| dja              | Djabugay                 | Pama-Nyungan | Australian    | Australia        |
| djm              | Djambarrpuyngu           | Pama-Nyungan | Australian    | Australia        |

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## Appendix 1. (Continued)

| WALS code | Name            | Genus        | Family     | Macroarea |
|-----------|-----------------|--------------|------------|-----------|
| djp       | Djapu           | Pama-Nyungan | Australian | Australia |
| djr       | Djaru           | Pama-Nyungan | Australian | Australia |
| djn       | Djinang         | Pama-Nyungan | Australian | Australia |
| dyi       | Dyirbal         | Pama-Nyungan | Australian | Australia |
| glp       | Gaalpu          | Pama-Nyungan | Australian | Australia |
| gml       | Gamilaraay      | Pama-Nyungan | Australian | Australia |
| gid       | Gidabal         | Pama-Nyungan | Australian | Australia |
| gug       | Gugada          | Pama-Nyungan | Australian | Australia |
| gmt       | Gumatj          | Pama-Nyungan | Australian | Australia |
| gum       | Gumbaynggir     | Pama-Nyungan | Australian | Australia |
| gny       | Gunya           | Pama-Nyungan | Australian | Australia |
| ggu       | Gureng Gureng   | Pama-Nyungan | Australian | Australia |
| gji       | Gurindji        | Pama-Nyungan | Australian | Australia |
| guu       | Guugu Yimidhirr | Pama-Nyungan | Australian | Australia |
| jua       | Juat            | Pama-Nyungan | Australian | Australia |
| kly       | Kala Lagaw Ya   | Pama-Nyungan | Australian | Australia |
| kgu       | Kalkatungu      | Pama-Nyungan | Australian | Australia |
| krj       | Karadjeri       | Pama-Nyungan | Australian | Australia |
| kaq       | Kaurna          | Pama-Nyungan | Australian | Australia |
| knc       | Kugu Nganhcara  | Pama-Nyungan | Australian | Australia |
| kya       | Kuku-Yalanji    | Pama-Nyungan | Australian | Australia |
| kjn       | Kunjen          | Pama-Nyungan | Australian | Australia |
| kuu       | Kuuku Ya'u      | Pama-Nyungan | Australian | Australia |
| lla       | Lamu-Lamu       | Pama-Nyungan | Australian | Australia |
| lrd       | Lardil          | Pama-Nyungan | Australian | Australia |
| mdm       | Madimadi        | Pama-Nyungan | Australian | Australia |
| mnj       | Mantjiltjara    | Pama-Nyungan | Australian | Australia |
| mny       | Margany         | Pama-Nyungan | Australian | Australia |
| mwa       | Martu Wangka    | Pama-Nyungan | Australian | Australia |
| mrt       | Martuthunira    | Pama-Nyungan | Australian | Australia |
| myy       | Mayi-Yapi       | Pama-Nyungan | Australian | Australia |
| mbb       | Mbabaram        | Pama-Nyungan | Australian | Australia |
| mdb       | Mudburra        | Pama-Nyungan | Australian | Australia |

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| <b>WALS code</b> | <b>Name</b>                | <b>Genus</b> | <b>Family</b> | <b>Macroarea</b> |
|------------------|----------------------------|--------------|---------------|------------------|
| mrw              | Muruwari                   | Pama-Nyungan | Australian    | Australia        |
| ntj              | Ngaanyatjarra              | Pama-Nyungan | Australian    | Australia        |
| ngj              | Ngadjumaja                 | Pama-Nyungan | Australian    | Australia        |
| ngr              | Ngarinyeri                 | Pama-Nyungan | Australian    | Australia        |
| ngy              | Ngarinyman                 | Pama-Nyungan | Australian    | Australia        |
| nlu              | Ngarluma                   | Pama-Nyungan | Australian    | Australia        |
| ngw              | Ngawun                     | Pama-Nyungan | Australian    | Australia        |
| ngi              | Ngiyambaa                  | Pama-Nyungan | Australian    | Australia        |
| nha              | Nhanda                     | Pama-Nyungan | Australian    | Australia        |
| nyr              | Nyangumarda                | Pama-Nyungan | Australian    | Australia        |
| nya              | Nyawaygi                   | Pama-Nyungan | Australian    | Australia        |
| nju              | Nyungar                    | Pama-Nyungan | Australian    | Australia        |
| pkn              | Paakantyi                  | Pama-Nyungan | Australian    | Australia        |
| pak              | Pakanha                    | Pama-Nyungan | Australian    | Australia        |
| pnj              | Panyjima                   | Pama-Nyungan | Australian    | Australia        |
| pin              | Pintupi                    | Pama-Nyungan | Australian    | Australia        |
| pit              | Pitjantjatjara             | Pama-Nyungan | Australian    | Australia        |
| ppi              | Pitta Pitta                | Pama-Nyungan | Australian    | Australia        |
| rit              | Ritharngu                  | Pama-Nyungan | Australian    | Australia        |
| thy              | Thaayorre                  | Pama-Nyungan | Australian    | Australia        |
| thp              | Thaypan                    | Pama-Nyungan | Australian    | Australia        |
| uhi              | Uradhi                     | Pama-Nyungan | Australian    | Australia        |
| wlm              | Walmatjari                 | Pama-Nyungan | Australian    | Australia        |
| wan              | Wangkumara                 | Pama-Nyungan | Australian    | Australia        |
| wrl              | Warlpiri                   | Pama-Nyungan | Australian    | Australia        |
| wlw              | Warluwara                  | Pama-Nyungan | Australian    | Australia        |
| wrg              | Warrgamay                  | Pama-Nyungan | Australian    | Australia        |
| wrb              | Warrnambool                | Pama-Nyungan | Australian    | Australia        |
| wgu              | Warrungu                   | Pama-Nyungan | Australian    | Australia        |
| wth              | Wathawurrung               | Pama-Nyungan | Australian    | Australia        |
| wat              | Watjarri                   | Pama-Nyungan | Australian    | Australia        |
| wem              | Wembawemba                 | Pama-Nyungan | Australian    | Australia        |
| wdo              | Western Desert<br>(Ooldea) | Pama-Nyungan | Australian    | Australia        |

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## Appendix 1. (Continued)

| WALS code | Name                    | Genus         | Family     | Macroarea |
|-----------|-------------------------|---------------|------------|-----------|
| wmu       | Wik Munkan              | Pama-Nyungan  | Australian | Australia |
| wn        | Wik Ngathana            | Pama-Nyungan  | Australian | Australia |
| wir       | Wirangu                 | Pama-Nyungan  | Australian | Australia |
| wwr       | Woiwurrung              | Pama-Nyungan  | Australian | Australia |
| ynk       | Yankuntjatjara          | Pama-Nyungan  | Australian | Australia |
| yny       | Yanyuwa                 | Pama-Nyungan  | Australian | Australia |
| yyg       | Yaygir                  | Pama-Nyungan  | Australian | Australia |
| yid       | Yidiny                  | Pama-Nyungan  | Australian | Australia |
| yin       | Yindjibarndi            | Pama-Nyungan  | Australian | Australia |
| yng       | Yingkarta               | Pama-Nyungan  | Australian | Australia |
| yir       | Yir Yiront              | Pama-Nyungan  | Australian | Australia |
| yyo       | Yorta Yorta             | Pama-Nyungan  | Australian | Australia |
| yib       | Yulparija               | Pama-Nyungan  | Australian | Australia |
| yuw       | Yuwaalaraay             | Pama-Nyungan  | Australian | Australia |
| rmb       | Rembarnga               | Rembarnga     | Australian | Australia |
| ngg       | Ngan'gityemmerri        | Southern Daly | Australian | Australia |
| ngk       | Ngankikurungkurr        | Southern Daly | Australian | Australia |
| kay       | Kayardild               | Tangkic       | Australian | Australia |
| yuk       | Yukulta                 | Tangkic       | Australian | Australia |
| tiw       | Tiwi                    | Tiwian        | Australian | Australia |
| wry       | Waray<br>(in Australia) | Waray         | Australian | Australia |
| dji       | Djingili                | West Barkly   | Australian | Australia |
| wam       | Wambaya                 | West Barkly   | Australian | Australia |
| emm       | Emmi                    | Western Daly  | Australian | Australia |
| mku       | Maranungku              | Western Daly  | Australian | Australia |
| mrr       | Maringarr               | Western Daly  | Australian | Australia |
| mrh       | Marrithiyel             | Western Daly  | Australian | Australia |
| gnn       | Gunin                   | Wororan       | Australian | Australia |
| ung       | Ungarinjin              | Wororan       | Australian | Australia |
| wor       | Worora                  | Wororan       | Australian | Australia |
| wag       | Wagiman                 | Yangmanic     | Australian | Australia |
| wrd       | Wardaman                | Yangmanic     | Australian | Australia |

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| <b>WALS code</b> | <b>Name</b>                         | <b>Genus</b> | <b>Family</b> | <b>Macroarea</b> |
|------------------|-------------------------------------|--------------|---------------|------------------|
| abw              | Abenaki<br>(Western)                | Algonquian   | Algic         | North America    |
| alg              | Algonquin                           | Algonquian   | Algic         | North America    |
| aho              | Arapaho                             | Algonquian   | Algic         | North America    |
| ati              | Atikamekw                           | Algonquian   | Algic         | North America    |
| bla              | Blackfoot                           | Algonquian   | Algic         | North America    |
| cyn              | Cheyenne                            | Algonquian   | Algic         | North America    |
| cpw              | Chippewa (Red<br>Lake and Pillager) | Algonquian   | Algic         | North America    |
| cea              | Cree (Eastern)                      | Algonquian   | Algic         | North America    |
| cre              | Cree (Plains)                       | Algonquian   | Algic         | North America    |
| fox              | Fox                                 | Algonquian   | Algic         | North America    |
| ill              | Illinois                            | Algonquian   | Algic         | North America    |
| kic              | Kickapoo                            | Algonquian   | Algic         | North America    |
| men              | Menomini                            | Algonquian   | Algic         | North America    |
| mic              | Micmac                              | Algonquian   | Algic         | North America    |
| mtg              | Montagnais                          | Algonquian   | Algic         | North America    |
| nsk              | Naskapi                             | Algonquian   | Algic         | North America    |
| oji              | Ojibwa (Eastern)                    | Algonquian   | Algic         | North America    |
| ojs              | Ojibwa (Severn)                     | Algonquian   | Algic         | North America    |
| ojm              | Ojibwe<br>(Minnesota)               | Algonquian   | Algic         | North America    |
| psm              | Passamaquoddy-<br>Maliseet          | Algonquian   | Algic         | North America    |
| pot              | Potawatomi                          | Algonquian   | Algic         | North America    |
| shw              | Shawnee                             | Algonquian   | Algic         | North America    |
| wiy              | Wiyot                               | Wiyot        | Algic         | North America    |
| yur              | Yurok                               | Yurok        | Algic         | North America    |
| beo              | Beothuk                             | Beothuk      | Beothuk       | North America    |
| cmk              | Chemakum                            | Chimakuan    | Chimakuan     | North America    |
| qui              | Quileute                            | Chimakuan    | Chimakuan     | North America    |
| ctm              | Chitimacha                          | Chitimacha   | Chitimacha    | North America    |
| cba              | Chumash<br>(Barbareño)              | Chumash      | Chumash       | North America    |
| cin              | Chumash<br>(Ineseño)                | Chumash      | Chumash       | North America    |

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## Appendix 1. (Continued)

| WALS code | Name                        | Genus        | Family       | Macroarea     |
|-----------|-----------------------------|--------------|--------------|---------------|
| ale       | Aleut                       | Eskimo-Aleut | Eskimo-Aleut | North America |
| aea       | Aleut (Eastern)             | Eskimo-Aleut | Eskimo-Aleut | North America |
| atq       | Alutiiq                     | Eskimo-Aleut | Eskimo-Aleut | North America |
| gre       | Greenlandic (East)          | Eskimo-Aleut | Eskimo-Aleut | North America |
| gso       | Greenlandic (South)         | Eskimo-Aleut | Eskimo-Aleut | North America |
| grw       | Greenlandic (West)          | Eskimo-Aleut | Eskimo-Aleut | North America |
| inu       | Iñupiaq                     | Eskimo-Aleut | Eskimo-Aleut | North America |
| iql       | Inuktitut (Quebec-Labrador) | Eskimo-Aleut | Eskimo-Aleut | North America |
| inr       | Inuktitut (Rankin Inlet)    | Eskimo-Aleut | Eskimo-Aleut | North America |
| ins       | Inuktitut (Salluit)         | Eskimo-Aleut | Eskimo-Aleut | North America |
| kgt       | Kangiryuarmiut              | Eskimo-Aleut | Eskimo-Aleut | North America |
| ypk       | Yup'ik (Central)            | Eskimo-Aleut | Eskimo-Aleut | North America |
| ych       | Yup'ik (Chevak)             | Eskimo-Aleut | Eskimo-Aleut | North America |
| yun       | Yup'ik (Norton Sound)       | Eskimo-Aleut | Eskimo-Aleut | North America |
| yna       | Yupik (Naukan)              | Eskimo-Aleut | Eskimo-Aleut | North America |
| yus       | Yupik (Siberian)            | Eskimo-Aleut | Eskimo-Aleut | North America |
| ysi       | Yupik (Sirenik)             | Eskimo-Aleut | Eskimo-Aleut | North America |
| ysl       | Yupik (St. Lawrence Island) | Eskimo-Aleut | Eskimo-Aleut | North America |
| ess       | Esselen                     | Esselen      | Esselen      | North America |
| hai       | Haida                       | Haida        | Haida        | North America |
| hno       | Haida (Northern)            | Haida        | Haida        | North America |
| chi       | Chimariko                   | Chimariko    | Hokan        | North America |
| acm       | Achumawi                    | Palaihnihan  | Hokan        | North America |
| ats       | Atsugewi                    | Palaihnihan  | Hokan        | North America |
| ksh       | Kashaya                     | Pomoan       | Hokan        | North America |
| pmc       | Pomo (Central)              | Pomoan       | Hokan        | North America |
| pme       | Pomo (Eastern)              | Pomoan       | Hokan        | North America |
| pmn       | Pomo (Northern)             | Pomoan       | Hokan        | North America |
| pso       | Pomo (Southeastern)         | Pomoan       | Hokan        | North America |

(Continued)

| <b>WALS code</b> | <b>Name</b>            | <b>Genus</b> | <b>Family</b> | <b>Macroarea</b> |
|------------------|------------------------|--------------|---------------|------------------|
| ser              | Seri                   | Seri         | Hokan         | North America    |
| shs              | Shasta                 | Shasta       | Hokan         | North America    |
| yan              | Yana                   | Yana         | Hokan         | North America    |
| ccp              | Cocopa                 | Yuman        | Hokan         | North America    |
| klw              | Kiliwa                 | Yuman        | Hokan         | North America    |
| mar              | Maricopa               | Yuman        | Hokan         | North America    |
| moj              | Mojave                 | Yuman        | Hokan         | North America    |
| que              | Quechan                | Yuman        | Hokan         | North America    |
| klp              | Kalapuya               | Kalapuyan    | Kalapuyan     | North America    |
| krk              | Karok                  | Karok        | Karok         | North America    |
| kio              | Kiowa                  | Kiowa-Tanoan | Kiowa-Tanoan  | North America    |
| kut              | Kutenai                | Kutenai      | Kutenai       | North America    |
| aht              | Ahtna                  | Athapaskan   | Na-Dene       | North America    |
| apc              | Apache<br>(Chiricahua) | Athapaskan   | Na-Dene       | North America    |
| apj              | Apache (Jicarilla)     | Athapaskan   | Na-Dene       | North America    |
| apw              | Apache (Western)       | Athapaskan   | Na-Dene       | North America    |
| crq              | Carrier                | Athapaskan   | Na-Dene       | North America    |
| chp              | Chipewyan              | Athapaskan   | Na-Dene       | North America    |
| dgx              | Degexit'an             | Athapaskan   | Na-Dene       | North America    |
| hup              | Hupa                   | Athapaskan   | Na-Dene       | North America    |
| kto              | Kato                   | Athapaskan   | Na-Dene       | North America    |
| kyn              | Koyukon                | Athapaskan   | Na-Dene       | North America    |
| kth              | Kutchin                | Athapaskan   | Na-Dene       | North America    |
| mtl              | Mattole                | Athapaskan   | Na-Dene       | North America    |
| src              | Sarcee                 | Athapaskan   | Na-Dene       | North America    |
| sla              | Slave                  | Athapaskan   | Na-Dene       | North America    |
| slv              | Slavey                 | Athapaskan   | Na-Dene       | North America    |
| tnc              | Tanacross              | Athapaskan   | Na-Dene       | North America    |
| tnj              | Tanaina                | Athapaskan   | Na-Dene       | North America    |
| tnl              | Tanana (Lower)         | Athapaskan   | Na-Dene       | North America    |
| tut              | Tutchone<br>(Northern) | Athapaskan   | Na-Dene       | North America    |
| uku              | Upper Kuskokwim        | Athapaskan   | Na-Dene       | North America    |

*(Continued)*

## Appendix 1. (Continued)

| WALS code | Name                       | Genus         | Family       | Macroarea     |
|-----------|----------------------------|---------------|--------------|---------------|
| eya       | Eyak                       | Eyak          | Na-Dene      | North America |
| tli       | Tlingit                    | Tlingit       | Na-Dene      | North America |
| als       | Alsea                      | Alsea         | Oregon Coast | North America |
| coo       | Coos (Hanis)               | Coosan        | Oregon Coast | North America |
| siu       | Siuslaw                    | Siuslawan     | Oregon Coast | North America |
| ckl       | Chinook (Lower)            | Chinookan     | Penutian     | North America |
| cku       | Chinook (Upper)            | Chinookan     | Penutian     | North America |
| cos       | Costanoan                  | Costanoan     | Penutian     | North America |
| mut       | Mutsun                     | Costanoan     | Penutian     | North America |
| klm       | Klamath                    | Klamath-Modoc | Penutian     | North America |
| knw       | Konkow                     | Maiduan       | Penutian     | North America |
| mne       | Maidu (Northeast)          | Maiduan       | Penutian     | North America |
| nsn       | Nisenan                    | Maiduan       | Penutian     | North America |
| mkb       | Miwok (Bodega)             | Miwok         | Penutian     | North America |
| mcs       | Miwok<br>(Central Sierra)  | Miwok         | Penutian     | North America |
| mwl       | Miwok (Lake)               | Miwok         | Penutian     | North America |
| mwn       | Miwok<br>(Northern Sierra) | Miwok         | Penutian     | North America |
| mwp       | Miwok (Plains)             | Miwok         | Penutian     | North America |
| mss       | Miwok<br>(Southern Sierra) | Miwok         | Penutian     | North America |
| mll       | Molala                     | Molala        | Penutian     | North America |
| nez       | Nez Perce                  | Sahaptian     | Penutian     | North America |
| shp       | Sahaptin (Northern)        | Sahaptian     | Penutian     | North America |
| smt       | Sahaptin (Umatilla)        | Sahaptian     | Penutian     | North America |
| git       | Gitksan                    | Tsimshianic   | Penutian     | North America |
| nsg       | Nisgha                     | Tsimshianic   | Penutian     | North America |
| tsi       | Tsimshian (Coast)          | Tsimshianic   | Penutian     | North America |
| ptw       | Patwin                     | Wintuan       | Penutian     | North America |
| win       | Wintu                      | Wintuan       | Penutian     | North America |
| wik       | Wikchamni                  | Yokuts        | Penutian     | North America |
| ywl       | Yawelmani                  | Yokuts        | Penutian     | North America |
| yok       | Yokuts (Yaudanchi)         | Yokuts        | Penutian     | North America |

(Continued)

| <b>WALS code</b> | <b>Name</b>                      | <b>Genus</b>    | <b>Family</b> | <b>Macroarea</b> |
|------------------|----------------------------------|-----------------|---------------|------------------|
| sal              | Salinan                          | Salinan         | Salinan       | North America    |
| bco              | Bella Coola                      | Bella Coola     | Salishan      | North America    |
| cla              | Clallam                          | Central Salish  | Salishan      | North America    |
| cmx              | Comox                            | Central Salish  | Salishan      | North America    |
| hlk              | Halkomelem                       | Central Salish  | Salishan      | North America    |
| lum              | Lummi                            | Central Salish  | Salishan      | North America    |
| lus              | Lushootseed                      | Central Salish  | Salishan      | North America    |
| sch              | Saanich                          | Central Salish  | Salishan      | North America    |
| sss              | Salish<br>(Samish Straits)       | Central Salish  | Salishan      | North America    |
| sps              | Salish<br>(Southern Puget Sound) | Central Salish  | Salishan      | North America    |
| sst              | Salish (Straits)                 | Central Salish  | Salishan      | North America    |
| sgs              | Songish                          | Central Salish  | Salishan      | North America    |
| soo              | Sooke                            | Central Salish  | Salishan      | North America    |
| squ              | Squamish                         | Central Salish  | Salishan      | North America    |
| tw               | Twana                            | Central Salish  | Salishan      | North America    |
| coe              | Coeur d'Alene                    | Interior Salish | Salishan      | North America    |
| cwe              | Columbia-Wenatchi                | Interior Salish | Salishan      | North America    |
| kls              | Kalispel                         | Interior Salish | Salishan      | North America    |
| lil              | Lillooet                         | Interior Salish | Salishan      | North America    |
| oka              | Okanagan                         | Interior Salish | Salishan      | North America    |
| shu              | Shuswap                          | Interior Salish | Salishan      | North America    |
| spo              | Spokane                          | Interior Salish | Salishan      | North America    |
| tho              | Thompson                         | Interior Salish | Salishan      | North America    |
| til              | Tillamook                        | Tillamook       | Salishan      | North America    |
| chl              | Chehalis (Upper)                 | Tsamosan        | Salishan      | North America    |
| blx              | Biloxi                           | Siouan          | Siouan        | North America    |
| cro              | Crow                             | Siouan          | Siouan        | North America    |
| dak              | Dakota                           | Siouan          | Siouan        | North America    |
| lkt              | Lakhota                          | Siouan          | Siouan        | North America    |
| omh              | Omaha                            | Siouan          | Siouan        | North America    |
| osa              | Osage                            | Siouan          | Siouan        | North America    |
| sto              | Stoney                           | Siouan          | Siouan        | North America    |

*(Continued)*

## Appendix 1. (Continued)

| <b>WALS code</b> | <b>Name</b>                | <b>Genus</b>      | <b>Family</b> | <b>Macroarea</b> |
|------------------|----------------------------|-------------------|---------------|------------------|
| wnb              | Winnebago                  | Siouan            | Siouan        | North America    |
| tkl              | Takelma                    | Takelma           | Takelma       | North America    |
| ton              | Tonkawa                    | Tonkawa           | Tonkawa       | North America    |
| cmn              | Comanche                   | Numic             | Uto-Aztecan   | North America    |
| kws              | Kawaiisu                   | Numic             | Uto-Aztecan   | North America    |
| mno              | Mono<br>(in United States) | Numic             | Uto-Aztecan   | North America    |
| pno              | Paiute (Northern)          | Numic             | Uto-Aztecan   | North America    |
| sho              | Shoshone                   | Numic             | Uto-Aztecan   | North America    |
| swr              | Shoshone<br>(Wind River)   | Numic             | Uto-Aztecan   | North America    |
| tsh              | Tümpisa Shoshone           | Numic             | Uto-Aztecan   | North America    |
| ute              | Ute                        | Numic             | Uto-Aztecan   | North America    |
| cah              | Cahuilla                   | Takic             | Uto-Aztecan   | North America    |
| cup              | Cupeño                     | Takic             | Uto-Aztecan   | North America    |
| lui              | Luiसेño                    | Takic             | Uto-Aztecan   | North America    |
| srr              | Serrano                    | Takic             | Uto-Aztecan   | North America    |
| tbb              | Tübatulabal                | Tubatulabal       | Uto-Aztecan   | North America    |
| hsl              | Haisla                     | Northern Wakashan | Wakashan      | North America    |
| hei              | Heiltsuk                   | Northern Wakashan | Wakashan      | North America    |
| kwk              | Kwakw'ala                  | Northern Wakashan | Wakashan      | North America    |
| kyq              | Kyuquot                    | Southern Wakashan | Wakashan      | North America    |
| mak              | Makah                      | Southern Wakashan | Wakashan      | North America    |
| nit              | Nitinaht                   | Southern Wakashan | Wakashan      | North America    |
| nuu              | Nuuchahnulth               | Southern Wakashan | Wakashan      | North America    |
| wap              | Wappo                      | Wappo             | Wappo-Yukian  | North America    |
| yki              | Yuki                       | Yukian            | Wappo-Yukian  | North America    |
| was              | Washo                      | Washo             | Washo         | North America    |
| qaw              | Qawasqar                   | Alacalufan        | Alacalufan    | South America    |
| cac              | Cacua                      | Cacua-Nukak       | Cacua-Nukak   | South America    |
| nuk              | Nukak                      | Cacua-Nukak       | Cacua-Nukak   | South America    |
| akw              | Akawaio                    | Cariban           | Cariban       | South America    |
| kun              | Kuna                       | Kuna              | Chibchan      | South America    |

(Continued)

| <b>WALS code</b> | <b>Name</b> | <b>Genus</b>  | <b>Family</b> | <b>Macroarea</b> |
|------------------|-------------|---------------|---------------|------------------|
| sel              | Selknam     | Chon Proper   | Chon          | South America    |
| teh              | Tehuelche   | Chon Proper   | Chon          | South America    |
| gku              | Gününa Küne | Puelche       | Chon          | South America    |
| cui              | Cuiba       | Guahiban      | Guahiban      | South America    |
| ghb              | Guahibo     | Guahiban      | Guahiban      | South America    |
| abi              | Abipón      | Guaicuruan    | Guaicuruan    | South America    |
| kdw              | Kadiwéu     | Guaicuruan    | Guaicuruan    | South America    |
| mcv              | Mocoví      | Guaicuruan    | Guaicuruan    | South America    |
| pga              | Pilagá      | Guaicuruan    | Guaicuruan    | South America    |
| tob              | Toba        | Guaicuruan    | Guaicuruan    | South America    |
| hmb              | Huambisa    | Jivaroan      | Jivaroan      | South America    |
| lul              | Lule        | Lule-Vilela   | Lule-Vilela   | South America    |
| mkw              | Máku        | Máku          | Máku          | South America    |
| brr              | Bororo      | Bororo        | Macro-Ge      | South America    |
| kng              | Kaingang    | Ge-Kaingang   | Macro-Ge      | South America    |
| kyp              | Kayapó      | Ge-Kaingang   | Macro-Ge      | South America    |
| gto              | Guató       | Guató         | Macro-Ge      | South America    |
| gna              | Guana       | Mascoian      | Mascoian      | South America    |
| lng              | Lengua      | Mascoian      | Mascoian      | South America    |
| crt              | Chorote     | Matacoan      | Matacoan      | South America    |
| mca              | Maca        | Matacoan      | Matacoan      | South America    |
| wch              | Wichí       | Matacoan      | Matacoan      | South America    |
| mis              | Miskito     | Misumalpan    | Misumalpan    | South America    |
| prh              | Pirahã      | Mura          | Mura          | South America    |
| nmb              | Nambikuára  | Nambikuaran   | Nambikuaran   | South America    |
| ese              | Ese Ejja    | Tacanan       | Tacanan       | South America    |
| ach              | Aché        | Tupi-Guaraní  | Tupian        | South America    |
| srn              | Sirionó     | Tupi-Guaraní  | Tupian        | South America    |
| daw              | Dâw         | Vaupés-Japurá | Vaupés-Japurá | South America    |
| hpd              | Hupda       | Vaupés-Japurá | Vaupés-Japurá | South America    |
| nad              | Nadëb       | Vaupés-Japurá | Vaupés-Japurá | South America    |
| wao              | Worani      | Worani        | Worani        | South America    |
| wra              | Warao       | Warao         | Warao         | South America    |
| yah              | Yahgan      | Yámana        | Yámana        | South America    |

*(Continued)*

## Appendix 1. (Continued)

| WALS code | Name     | Genus   | Family  | Macroarea     |
|-----------|----------|---------|---------|---------------|
| snm       | Sanuma   | Yanomam | Yanomam | South America |
| shi       | Shiriana | Yanomam | Yanomam | South America |
| yrr       | Yaruro   | Yaruro  | Yaruro  | South America |

## Appendix 2. List of possible hunter-gatherer languages

| WALS code | Name              | Genus              | Family           | Macroarea         |
|-----------|-------------------|--------------------|------------------|-------------------|
| bsr       | Basari            | Northern Atlantic  | Niger-Congo      | Africa            |
| rem       | Remo              | Munda              | Austro-Asiatic   | Eurasia           |
| tsp       | Tamil (Spoken)    | Southern Dravidian | Dravidian        | Eurasia           |
| kur       | Kurukh            | Northern Dravidian | Dravidian        | Eurasia           |
| prd       | Parji (Dravidian) | Central Dravidian  | Dravidian        | Eurasia           |
| dul       | Dulong            | Nungish            | Sino-Tibetan     | SE Asia & Oceania |
| jin       | Jino              | Burmese-Lolo       | Sino-Tibetan     | SE Asia & Oceania |
| slg       | Sulung            | Mirish             | Sino-Tibetan     | SE Asia & Oceania |
| lje       | Lauje             | Sulawesi           | Austronesian     | SE Asia & Oceania |
| mkl       | Maklew            | Bulaka River       | Bulaka River     | New Guinea        |
| ylm       | Yelmek            | Bulaka River       | Bulaka River     | New Guinea        |
| kae       | Kaki Ae           | Eleman             | Eleman           | New Guinea        |
| orl       | Orokolo           | Eleman             | Eleman           | New Guinea        |
| toa       | Toaripi           | Eleman             | Eleman           | New Guinea        |
| tap       | Taiap             | Gapun              | Gapun            | New Guinea        |
| kaj       | Kaure             | Kaure              | Kaure            | New Guinea        |
| tmg       | Tamagario         | Kayagar            | Kayagar          | New Guinea        |
| obk       | Obokuitai         | Lakes Plain        | Lakes Plain      | New Guinea        |
| wrm       | Warembori         | Lower Mamberamo    | Lower Mamberamo  | New Guinea        |
| rao       | Rao               | Annaberg           | Lower Sepik-Ramu | New Guinea        |
| kai       | Kaian             | Lower Ramu         | Lower Sepik-Ramu | New Guinea        |
| mkr       | Mikarew           | Lower Ramu         | Lower Sepik-Ramu | New Guinea        |
| wtm       | Watam             | Lower Ramu         | Lower Sepik-Ramu | New Guinea        |
| chb       | Chambri           | Lower Sepik        | Lower Sepik-Ramu | New Guinea        |

(Continued)



| <b>WALS code</b> | <b>Name</b>       | <b>Genus</b>                   | <b>Family</b>                  | <b>Macroarea</b> |
|------------------|-------------------|--------------------------------|--------------------------------|------------------|
| kie              | Kire              | Mikarew                        | Lower Sepik-Ramu               | New Guinea       |
| mrd              | Marind            | Marind Proper                  | Marind                         | New Guinea       |
| yqy              | Yaqay             | Marind Proper                  | Marind                         | New Guinea       |
| ard              | Arandai           | South Bird's Head              | Marind                         | New Guinea       |
| ina              | Inanwatan         | South Bird's Head              | Marind                         | New Guinea       |
| mri              | Moraori           | Morehead and Upper Maro Rivers | Morehead and Upper Maro Rivers | New Guinea       |
| ang              | Anggor            | Senagi                         | Senagi                         | New Guinea       |
| der              | Dera              | Senagi                         | Senagi                         | New Guinea       |
| snt              | Sentani           | Sentani                        | Sentani                        | New Guinea       |
| tbl              | Tabla             | Sentani                        | Sentani                        | New Guinea       |
| amb              | Ambulas           | Middle Sepik                   | Sepik                          | New Guinea       |
| boi              | Boiken            | Middle Sepik                   | Sepik                          | New Guinea       |
| hhu              | Hanga Hundi       | Middle Sepik                   | Sepik                          | New Guinea       |
| iat              | Iatmul            | Middle Sepik                   | Sepik                          | New Guinea       |
| awt              | Awtuw             | Ram                            | Sepik                          | New Guinea       |
| mhk              | Mehek             | Tama Sepik                     | Sepik                          | New Guinea       |
| aba              | Abau              | Upper Sepik                    | Sepik                          | New Guinea       |
| nam              | Namia             | Yellow River                   | Sepik                          | New Guinea       |
| pok              | Poko-Rawo         | Eastern Sko                    | Sko                            | New Guinea       |
| wom              | Womo              | Eastern Sko                    | Sko                            | New Guinea       |
| isa              | Isaka             | Krisa                          | Sko                            | New Guinea       |
| dum              | Dumo              | Western Sko                    | Sko                            | New Guinea       |
| sko              | Sko               | Western Sko                    | Sko                            | New Guinea       |
| paw              | Pawaian           | Pawaian                        | Teberan-Pawaian                | New Guinea       |
| ory              | Orya              | Tor                            | Tor                            | New Guinea       |
| au               | Au                | Wapei-Palei                    | Torricelli                     | New Guinea       |
| omi              | Ömie              | Koiarian                       | Trans-New Guinea               | New Guinea       |
| baa              | Barai             | Koiarian                       | Trans-New Guinea               | New Guinea       |
| kmo              | Koiali (Mountain) | Koiarian                       | Trans-New Guinea               | New Guinea       |
| koi              | Koiari            | Koiarian                       | Trans-New Guinea               | New Guinea       |
| kta              | Koita             | Koiarian                       | Trans-New Guinea               | New Guinea       |
| har              | Haruai            | Upper Yuat                     | Upper Yuat                     | New Guinea       |
| nag              | Nagatman          | Yale                           | Yale                           | New Guinea       |

(Continued)

## Appendix 2. (Continued)

| WALS code | Name                      | Genus        | Family       | Macroarea     |
|-----------|---------------------------|--------------|--------------|---------------|
| mhc       | Mahican                   | Algonquian   | Algic        | North America |
| mtt       | Massachusett              | Algonquian   | Algic        | North America |
| mcf       | Michif                    | Algonquian   | Algic        | North America |
| mse       | Munsee                    | Algonquian   | Algic        | North America |
| nnt       | Nanticoke                 | Algonquian   | Algic        | North America |
| pow       | Powhatan                  | Algonquian   | Algic        | North America |
| unm       | Unami                     | Algonquian   | Algic        | North America |
| atk       | Atakapa                   | Atakapa      | Atakapa      | North America |
| pwn       | Pawnee                    | Caddoan      | Caddoan      | North America |
| coa       | Coahuilteco               | Coahuiltecan | Coahuiltecan | North America |
| cmc       | Comecrudo                 | Comecrudan   | Comecrudan   | North America |
| hve       | Huave (San Mateo del Mar) | Huavean      | Huavean      | North America |
| kkw       | Karankawa                 | Karankawa    | Karankawa    | North America |
| cco       | Chasta Costa              | Athapaskan   | Na-Dene      | North America |
| tmc       | Timucua                   | Timucua      | Timucua      | North America |
| adk       | Andoke                    | Andoke       | Andoke       | South America |
| bna       | Banawá                    | Arauan       | Arauan       | South America |
| cul       | Culina                    | Arauan       | Arauan       | South America |
| den       | Dení                      | Arauan       | Arauan       | South America |
| jmm       | Jamamadi                  | Arauan       | Arauan       | South America |
| jwr       | Jarawara                  | Arauan       | Arauan       | South America |
| pau       | Paumarí                   | Arauan       | Arauan       | South America |
| aik       | Aikaná                    | Arawakan     | Arawakan     | South America |
| ign       | Ignaciano                 | Arawakan     | Arawakan     | South America |
| irx       | Iranxe                    | Arawakan     | Arawakan     | South America |
| bti       | Betoi                     | Betoi        | Betoi        | South America |
| chy       | Chayahuita                | Cahuapanan   | Cahuapanan   | South America |
| jeb       | Jebero                    | Cahuapanan   | Cahuapanan   | South America |
| can       | Candoshi                  | Candoshi     | Candoshi     | South America |
| apl       | Apalaí                    | Cariban      | Cariban      | South America |
| bki       | Bakairí                   | Cariban      | Cariban      | South America |
| car       | Carib                     | Cariban      | Cariban      | South America |

(Continued)

| <b>WALS code</b> | <b>Name</b>       | <b>Genus</b> | <b>Family</b> | <b>Macroarea</b> |
|------------------|-------------------|--------------|---------------|------------------|
| cde              | Carib (De'kwana)  | Cariban      | Cariban       | South America    |
| crj              | Carijona          | Cariban      | Cariban       | South America    |
| guq              | Guaque            | Cariban      | Cariban       | South America    |
| hia              | Hianacoto         | Cariban      | Cariban       | South America    |
| hix              | Hixkaryana        | Cariban      | Cariban       | South America    |
| jpr              | Japreria          | Cariban      | Cariban       | South America    |
| mac              | Macushi           | Cariban      | Cariban       | South America    |
| mpy              | Mapoyo            | Cariban      | Cariban       | South America    |
| pnr              | Panare            | Cariban      | Cariban       | South America    |
| pem              | Pemon             | Cariban      | Cariban       | South America    |
| tir              | Tiriyo            | Cariban      | Cariban       | South America    |
| umu              | Umaua             | Cariban      | Cariban       | South America    |
| wai              | Wai Wai           | Cariban      | Cariban       | South America    |
| wyn              | Wayana            | Cariban      | Cariban       | South America    |
| ykp              | Yukpa             | Cariban      | Cariban       | South America    |
| cat              | Catio             | Choco        | Choco         | South America    |
| emb              | Embera            | Choco        | Choco         | South America    |
| emc              | Embera Chami      | Choco        | Choco         | South America    |
| epe              | Epena Pedee       | Choco        | Choco         | South America    |
| wau              | Waunana           | Choco        | Choco         | South America    |
| cln              | Cholon            | Cholon       | Cholon        | South America    |
| cof              | Cofán             | Cofán        | Cofán         | South America    |
| gyb              | Guayabero         | Guahiban     | Guahiban      | South America    |
| mcg              | Macaguán          | Guahiban     | Guahiban      | South America    |
| pla              | Playero           | Guahiban     | Guahiban      | South America    |
| skn              | Sikuani           | Guahiban     | Guahiban      | South America    |
| amk              | Amarakaeri        | Harakmbet    | Harakmbet     | South America    |
| mui              | Muinane           | Boran        | Huitotoan     | South America    |
| bor              | Bora              | Huitoto      | Huitotoan     | South America    |
| htt              | Huitoto           | Huitoto      | Huitotoan     | South America    |
| hmi              | Huitoto (Minica)  | Huitoto      | Huitotoan     | South America    |
| hmu              | Huitoto (Muinane) | Huitoto      | Huitotoan     | South America    |
| hum              | Huitoto (Murui)   | Huitoto      | Huitotoan     | South America    |
| oca              | Ocaina            | Huitoto      | Huitotoan     | South America    |

*(Continued)*

## Appendix 2. (Continued)

| WALS code | Name                   | Genus       | Family      | Macroarea     |
|-----------|------------------------|-------------|-------------|---------------|
| ito       | Itonama                | Itonama     | Itonama     | South America |
| jbt       | Jabutí                 | Jabutí      | Jabutí      | South America |
| acu       | Achuar                 | Jivaroan    | Jivaroan    | South America |
| agr       | Aguaruna               | Jivaroan    | Jivaroan    | South America |
| cnm       | Canamarí               | Katukinan   | Katukinan   | South America |
| kwz       | Kwazá                  | Kwaza       | Kwaza       | South America |
| xav       | Xavánte                | Ge-Kaingang | Macro-Ge    | South America |
| rik       | Rikbaktsa              | Rikbaktsa   | Macro-Ge    | South America |
| chu       | Chulupí                | Matacoan    | Matacoan    | South America |
| mov       | Movima                 | Movima      | Movima      | South America |
| amc       | Amahuaca               | Panoan      | Panoan      | South America |
| cap       | Capanahua              | Panoan      | Panoan      | South America |
| cas       | Cashibo                | Panoan      | Panoan      | South America |
| cash      | Cashinahua             | Panoan      | Panoan      | South America |
| cbo       | Chácobo                | Panoan      | Panoan      | South America |
| kdg       | Karipuna<br>do Guapore | Panoan      | Panoan      | South America |
| mts       | Matis                  | Panoan      | Panoan      | South America |
| myr       | Matsés                 | Panoan      | Panoan      | South America |
| shh       | Sharanahua             | Panoan      | Panoan      | South America |
| shk       | Shipibo-Konibo         | Panoan      | Panoan      | South America |
| yam       | Yaminahua              | Panoan      | Panoan      | South America |
| yag       | Yagua                  | Peba-Yaguan | Peba-Yaguan | South America |
| pui       | Puinave                | Puinave     | Puinave     | South America |
| esm       | Esmeraldeño            | Tacame      | Tacame      | South America |
| ana       | Araona                 | Tacanan     | Tacanan     | South America |
| cav       | Cavineña               | Tacanan     | Tacanan     | South America |
| tac       | Tacana                 | Tacanan     | Tacanan     | South America |
| tsr       | Taushiro               | Taushiro    | Taushiro    | South America |
| tic       | Ticuna                 | Ticuna      | Ticuna      | South America |
| tru       | Trumai                 | Trumai      | Trumai      | South America |
| brs       | Barasano               | Tucanoan    | Tucanoan    | South America |
| bno       | Barasano<br>(Northern) | Tucanoan    | Tucanoan    | South America |

(Continued)

| <b>WALS<br/>code</b> | <b>Name</b> | <b>Genus</b> | <b>Family</b> | <b>Macroarea</b> |
|----------------------|-------------|--------------|---------------|------------------|
| crp                  | Carapana    | Tucanoan     | Tucanoan      | South America    |
| cub                  | Cubeo       | Tucanoan     | Tucanoan      | South America    |
| des                  | Desano      | Tucanoan     | Tucanoan      | South America    |
| gno                  | Guanano     | Tucanoan     | Tucanoan      | South America    |
| kje                  | Koreguaje   | Tucanoan     | Tucanoan      | South America    |
| mcn                  | Macuna      | Tucanoan     | Tucanoan      | South America    |
| ore                  | Orejón      | Tucanoan     | Tucanoan      | South America    |
| prt                  | Piratapuyo  | Tucanoan     | Tucanoan      | South America    |
| ret                  | Retuarã     | Tucanoan     | Tucanoan      | South America    |
| sec                  | Secoya      | Tucanoan     | Tucanoan      | South America    |
| sin                  | Siona       | Tucanoan     | Tucanoan      | South America    |
| sri                  | Siriano     | Tucanoan     | Tucanoan      | South America    |
| tty                  | Tatuyo      | Tucanoan     | Tucanoan      | South America    |
| tuc                  | Tucano      | Tucanoan     | Tucanoan      | South America    |
| tuy                  | Tuyuca      | Tucanoan     | Tucanoan      | South America    |
| yrt                  | Yuruti      | Tucanoan     | Tucanoan      | South America    |
| urn                  | Urarina     | Urarina      | Urarina       | South America    |
| uru                  | Uru         | Uru-Chipaya  | Uru-Chipaya   | South America    |
| ynm                  | Yanomámi    | Yanomam      | Yanomam       | South America    |
| ayr                  | Ayoreo      | Zamucoan     | Zamucoan      | South America    |
| arb                  | Arabela     | Zaparoan     | Zaparoan      | South America    |
| iqu                  | Iquito      | Zaparoan     | Zaparoan      | South America    |
| zpr                  | Zaparo      | Zaparoan     | Zaparoan      | South America    |