

Appendix 1. Overview of languages and negation strategies in the South American sample.

Genealogical classification and glossonyms follow Glottolog (Hammarström *et al.* 2021).

Language families are listed in alphabetical order.

All abbreviations and references follow the table.

Language family	Branch or group	Glottocode	Language name [iso-code]	Preverbal single pattern	Double-marking pattern (either optional or obligatory)	Postverbal single pattern	References
Araucanian		mapu1245	Mapudungun [arn]	-	-	[V- <i>la</i>]	Zúñiga (2000:37); Smeets (2008:243)
Arawakan	Central Maipuran	pare1272	Parecís [pab]	[<i>maiha/maitsa</i> V]	-	-	Brandão (2014:347)
Arawakan	Central Maipuran	waur1244	Waurá [wau]	[<i>aitsa</i> V]	-	-	Ball (2014:146)
Arawakan	-	pali1279	Palikúr [plu]	[<i>ka</i> V]	-	-	Launey (2003:197)
Arawakan	Alto Orinoco	maip1246	Maipure [-]	[<i>nuca</i> V]	-	-	Zamponi (2003b:50)
Arawakan	Alto Orinoco	guar1293	Warekena [gae]	-	[(<i>ya=</i>)V= <i>pia</i>]	-	Aikhenvald (1998:264-5)
Arawakan	Caribbean Arawakan	wayu1243	Wayuu (Goajiro) [guc]	[<i>nóhol~ nóhol</i> V]	-	-	Michael (2014:240); Olza & Jusayú (2012:265)
Arawakan	Caribbean Arawakan	para1316	Paraujano (Añun) [pbg]	-	-	[V- <i>pe</i>]	Michael (2014:248); Patte (1989:101)
Arawakan	Caribbean Arawakan	araw1276	Lokono [arw]	-	-	[V <i>kho(ro)</i>]	Patte (2014:53)
Arawakan	Medio Rio Negro	bare1276	Baré [bae]	[<i>hena</i> V]	-	-	Aikhenvald (1995:33-34); Michael (2014:245-6)
Arawakan	Japura-Colombia	curr1243	Curripaco [kpc]	[<i>khen</i> V]	-	-	Granadillo (2014:72)
Arawakan	Japura-Colombia	tari1256	Tariana [tae]	-	[<i>ma-V-kade</i>] _{NFUT} [<i>ma-V-kasu</i>] _{FUT}	-	Aikhenvald (2014:87,89)
Arawakan	Japura-Colombia	acha1250	Achagua [aca]	[<i>ho-ka</i> V] _{IND} [<i>ho-ka</i> V] _{NIND}	-	-	Michael (2014:240-3)
Arawakan	Japura-Colombia	yucu1253	Yucuna [ycn]	-	[<i>unká</i> V- <i>la</i>]	-	Lemus Serrano & Rose (forthc., p.c.); Schauer & Schauer (1978:22)
Arawakan	Japura-Colombia	resi1247	Resígaro [rgr]	[<i>ní</i> V]	-	-	Allin (1976:302); Michael (2014:238)
Arawakan	Negro-Roraima	xiri1243	Bahuana (Xiriana) [xir]	[<i>mainda</i> V]	-	-	Ramirez (1992:71-2)
Arawakan	Negro-Roraima	wapi1253	Wapishana [wap]	[<i>au-na</i> V] (?)	-	-	Dos Santos (2006:154)
Arawakan	Southern Maipuran	baur1253	Baure [brg]	[<i>n(o)ka</i> V]	-	-	Danielsen (2007:338)
Arawakan	Southern Maipuran	trin1274	Trinitario [trn]	[<i>wo~wi/wo 'i</i> V]	-	-	Rose (2014:211-2)
Arawakan	Southern Maipuran	tere1279	Terena [ter]	[<i>aco/avo</i> V]	-	-	Ekdahl & Butler (1979:75)
Arawakan	Southern Maipuran	ajyi1238	Ajyíninka Apurucayali [cpc]	[<i>ti</i> V]; [<i>iíro</i> V]	-	-	Payne (1981:10,26-7)

Arawakan	Southern Maipuran	apur1254	Apurinã [apu]	[kuna V]	-	-	Facundes (2014:122)
Arawakan	Southern Maipuran	yine1238	Yine [pib]	[hi V]	-	-	Hanson (2010:307-8)
Arawakan	Southern Maipuran	yane1238	Yanesha' [ame]	-	[ama V- <i>e~o</i>]	-	Duff-Tripp (1997:179)
Arawan	-	paum1247	Paumari [pad]	[ni=V]	-	[V- <i>ri/-ra</i>]	Chapman & Derbyshire (1991:220-1)
Arawan	Madi-Madiha	culi1244	Culina [cul]	-	-	[V AUX- <i>hara/-hera</i>]; [V- <i>hara/-hera</i>]	Dienst (2014:83,126)
Arawan	Madi-Madiha	jama1261	Jarawara [jaa]	-	-	[V- <i>ra</i>]	Dixon (2004:245-7)
Aymaran	Tupe	jaqa1244	Jaquaru [jqr]	-	[isha V- <i>txi</i>]	-	Hardman (2000:114)
Aymaran	Central-Southern	cent2142	Aymara Central [ayr]	-	[jani V- <i>ti</i>]	-	Hardman (2001:188)
Barbacoan	Cayapa-Colorado	colo1256	Tsafiki [cof]	-	-	[V- <i>ti/-tu</i>]	Dickinson (2002:150)
Barbacoan	Coconucan	guam1248	Guambiano [gum]	-	-	[V- <i>m(u)</i>]	Vásquez de Ruiz (1988:134)
Barbacoan	Unclassified Barbacoan	awac1239	Awa Pit [kwi]	-	[shi V- <i>ma</i>]; [shi V <i>kí</i>]; [(zhi) V- <i>zhi</i>]; [zhi V(- <i>zhi</i>)]	-	Curnow (1997:331,333-4); Obando (1992:130); Henriksen & Obando (1985:30,36,58)
Boran	Bora	bora1263	Miraña (Bora) [boa]	-	[(tsáʔa) V- <i>tú</i>]	-	Seifart (2005:62,72); Thiesen & Weber (2012:326,116)
Boran	-	muin1242	Muinane [bmr]	-	-	[V- <i>tí</i>]	Walton & Walton (1975:44-7)
Bororoan		boro1282	Bororo [bor]	[ka V] _{TR}	-	[V- <i>ka</i>] _{INTR}	Crowell (1979:90-1,136)
Bororoan		umot1240	Umotína [umo]	-	-	[V <i>kewa</i>]	Telles (1995:99)
Cahuapanan		chay1248	Shawi [cbt]	-	[ku V- <i>wín</i>]	-	Barraza de García (2005:146); Hart (1988:293)
Cahuapanan		jebe1250	Jebero [jeb]	-	-	[V- <i>i'n</i>]	Valenzuela (2014:124) Bendor-Samuel (1981:104)
Cariban		apal1257	Apalaí [apy]	-	-	[V-(<i>py</i>) <i>ra</i> AUX]	Koehn & Koehn (1986:64)
Cariban		gali1262	Galibi Carib [car]	-	-	[V- <i>pa</i> AUX]	Courtz (2008:127,183,188)
Cariban		maqu1238	Ye'kwana [mch]	-	-	[V- <i>da</i> AUX]	Cáceres (2011:156)
Cariban		hixk1239	Hixkaryana [hix]	-	-	[V- <i>híra</i> AUX]	Derbyshire (1985:46,138)
Cariban		kuik1246	Kuikúro-Kalapálo [kui]	[(i)ñali V-AUX]	(?)	[V- <i>la</i>] (?) [V- <i>hãgã</i>] (?)	Franchetto (1986:238,137); Basso (year unknown:370)
Cariban		macu1259	Macushi [mbc]	-	-	[V <i>pra</i> AUX]; [V <i>pepîn</i>] _{NPST} [V <i>pîn</i>] _{PST,EMPH}	Abbott (1991:55,57-8)
Cariban		enap1235	Panare [pbh]	-	-	[V- <i>'ka</i> AUX]	Payne & Payne (2013:230-1)
Cariban		trio1238	Tiriyó [tri]	-	-	[V- <i>sewa</i> AUX]	Meira (1999:558)
Cariban		waiw1244	Waiwai [waw]	-	-	[V-(<i>h</i>) <i>ra</i> AUX]	Hawkins (1998:31,66)
Cariban		waya1269	Wayana [way]	-	-	[V- <i>la</i> AUX]	Tavares (2005:234)
Cariban		waim1253	Waimiri-Atroari [atr]	-	-	[V- <i>huwa/-ha</i> AUX]	Bruno (2003:92)
Charruan		chan1296	Chaná	[reé V]	-	-	Jaime & Viegas Barros (2013:52)
Chapacuran		wari1268	Wari' [pav]	['om V]	-	-	Everett & Kern (1997:50, 168); Birchall (forthc.)

Chapacuran		iten1243	Itene (Moré) [ite]	[xi V]	-	-	Angenot de Lima (2002:330); Birchall (forthc.)
Chapacuran		nape1237	Napeka	-	-	[V za]	Birchall (forthc.) citing Nimuendajú (1925:156)
Chapacuran		tora1263	Torá [trɔ]	-	-	[V ya]	Birchall (forthc.) citing Cardús (1886:320)
Chibchan	Isthmic	bord1248	Border Kuna [kvn]	-	-	[V- <i>chul(i)</i>]	Forster (2011:206)
Chibchan	Magdalenic	chim1309	Chimila [cbg]	[jumma V]	-	-	Trillos Amaya (1996:162-3)
Chibchan	Magdalenic	cogu1240	Cogui [kog]	-	-	[V- <i>ʒa</i>]	Oyala Perdomo (2000:785)
Chibchan	Magdalenic	arhu1242	Arhuaco [arh]	-	-	[V- <i>u</i> ’ AUX]	Frank (1990:89-90); Landaburu (1992:28-9)
Chibchan	Magdalenic	mala1522	Malayo [mbp]	-	-	[V- <i>u</i> AUX]	Williams (1993:90)
Chibchan	Magdalenic	chib1270	Chibcha (Muisca) [chb]	-	-	[V- <i>za/-zha</i>]	Quesada Pacheco (2012:54-5)
Chibchan	Magdalenic	cent2150	Central Tunebo [tuf]	-	-	[V- <i>tí</i>]; [V- <i>bar</i>] _{FUT}	Márquez, Aguablanca & Olza (1988:126,157,124)
Chicham		agua1253	Aguaruna [agr]	-	-	[V- <i>tsu</i>] _{PRS/REM.PST} [V- <i>tʃa</i>]	Overall (2007:324,481; 2017)
Chicham		achu1248	Ashuar-Shiwiari [acu]	-	-	[V- <i>tsu</i>]; [V- <i>cha</i>]	Fast & Fast (1981:23,68)
Chicham		huam1247	Huambisa [hub]	-	-	[V- <i>tsu</i>]; [V- <i>tʃa</i>]	Peña (2015:637)
Chocoan		nort2972	Northern Emberá [emp]	-	-	[V= <i>ẽ</i>] _{PRS} [V= <i>ẽ</i> AUX] _{NPRS}	Mortensen (1999:98)
Chocoan		epen1239	Epena [sja]	-	-	[V- <i>ʔe</i>] _{PRS/FUT} [V- <i>ʔe</i> AUX] _{PST}	Harms (1994:131)
Chocoan		woun1238	Woun Meu [noa]	-	-	[V- <i>ba</i>]	Loewen (1954:115,53)
Chonan		tehu1242	Tehuelche [teh]	[k’om V]	-	-	Garay (1998:428)
Chonan		onaa1245	Selk’nam [ona]	-	-	[V sò]	Najlis (1973:8)
Guahiboan		maca1259	Macaguán [mbn]	-	[a(p)-V(a’ji)]	-	Buenaventura (1993:48); Lobo-Guerrero & Herrera (2000:619)
Guahiboan		guah1255	Sikuani (Guahibo) [guh]	[apo-V]	-	-	Queixalós (1998:252-3)
Guahiboan		guay1257	Guayabero [guo]	-	-	[V e-l / x(ie)-l / jehe-l]	Waller (1974:40-2)
Guaicuruan		kadi1248	Kadiwéu [kbc]	[aG-V]	-	-	Sandalo (1997:46)
Guaicuruan		abip1241	Abipón [axb]	[cig/cit V] ?	-	-	Najlis (1966:71,124)
Guaicuruan		moco1246	Mocoví [moc]	[se-/sque-V]	-	-	Grondona (1998:178)
Guaicuruan		pila1245	Pilagá [plg]	[sa-V]	-	-	Vidal (2001:283-4)
Harakmbut		amar1274	Amarakaeri [amr]	-	-	[V-we’ AUX]	Van linden (forthc.); Tripp (1995:218)
Hibito-Cholon		chol1284	Cholón [cht]	-	-	[V-p(e)]	Alexander-Bakkerus (2005:323)
Huarpean		alle1238	Allentiac [-]	[naha V]	-	-	Adelaar & Muysken (2004: 546)
Huitotoan		mur1274	Murui Huitoto [huu]	-	-	[V- <i>ñe</i>]	Wojtylak (2017:433)
Huitotoan		ocai1244	Ocaina [oca]	-	-	[V- <i>ni</i>]	Fagua (2013:310)
Kakua-Nukak		cacu1241	Kakua [cbv]	-	-	[V- <i>kan</i>]	Bolaños (2016:237,244)
Katukinan		kana1291	Katukína-Kanamari [knm]	-	-	[V-tu]	dos Anjos (2011:193)

Kawesqar		qawa1238	Qawasqar [alc]	-	-	[V <i>qjeloq</i>]; [V <i>sewel</i>]	Clairis (1985:472); Aguilera (2001:256)
Lengua-Mascoy (Enlhet-Enenlhet)		toba1268	Toba-Maskoy (Enenlhet) [tmf]	[<i>ma</i> '-V]	-	-	Unruh, Kalisch & Romero (2003:96)
Lengua-Mascoy (Enlhet-Enenlhet)		guan1268	Guaná [gva]	[<i>ma</i> -V]	-	-	Unruh & Kallisch (2003:4)
Lengua-Mascoy (Enlhet-Enenlhet)		nort2971	Lengua Norte (Enlhet) [enl]	[<i>paej</i> V]	-	-	Unruh & Kallisch (2003:4)
Macro-Je		rikb1245	Rikbaktsa [rkb]	[<i>bato</i> V]	-	-	Silva (2011:224)
Macro-Je	Aimore	kren1239	Krenak [kqk]	-	-	[V <i>nuk</i>]	Pessoa (2012:236)
Macro-Je	Jabuti	djeo1235	Djeoromitxi [jbt]	-	-	[V <i>tõ</i>]	Pires (1992:121)
Macro-Je	Karaja	kara1500	Karajá [kpi]	-	-	[V= <i>kõ</i>]	Ribeiro (2012:63)
Macro-Je	Maxacalian	maxa1247	Maxakali [mbl]	-	[<i>a</i> V <i>ah</i>]	-	Campos (2009:128-9)
Macro-Je	Je, Central	xere1240	Xerente [xer]	-	-	[V <i>kõ=di</i>]	Sousa Filho (2007:140)
Macro-Je	Je, Central	xava1240	Xavante [xav]	-	-	[V <i>tõ/õ=di</i>]	Estevam (2011:277)
Macro-Je	Je, Northern	pana1307	Panará [kre]	-	-	[V <i>piɔ/piɔw</i>]	Dourado (2001:117)
Macro-Je	Je, core Northern	apin1244	Apinajé [apn]	-	-	[V <i>ket=nẽ</i>]	Cunha de Oliveira (2005:251)
Macro-Je	Je, core Northern	cane1242	Canela-Krahô [ram]	-	-	[V <i>narẽ</i>]	Alves (2004:129); Miranda (2015:252)
Macro-Je	Je, core Northern	kaya1330	Kayapó [txu]	-	-	[V <i>kêt</i>]	Beauchamp et al. (2017)
Macro-Je	Je, core Northern	suya1243	Suyá [suy]	-	-	[V <i>'kere/'ket</i>]	dos Santos (1997:94)
Macro-Je	Je, Southern	xokl1240	Xokleng [xok]	-	-	[V <i>tũ</i>]	Gakran (2015:205-6)
Macro-Je	Je, Southern	kain1272	Southern Kaingang [kgp]	-	-	[V <i>tõ</i>]	Da Silva (2011:76,162)
Matacoan		maca1260	Maca [mca]	[<i>nite</i> ' V]	-	-	Gerzenstein (1994:188)
Matacoan		niva1238	Nivacle [cag]	[<i>ni</i> -' <i>na</i> -V]; [<i>tan</i> V] _{FUT}	-	-	Fabre (2016:264,369)
Matacoan		iyow1239	Chorote [crq]	[<i>'xa</i> -' <i>ka</i> -V]	-	-	Gerzenstein (1978:112)
Matacoan		wich1262	Wichí [mtp]	-	[<i>nam</i> -V-(<i>y</i>) <i>a</i>] _{1P} [<i>qa</i> -V-(<i>y</i>) <i>a</i>] _{2P} [<i>ni</i> -V-(<i>y</i>) <i>a</i>] _{3P}	[V- <i>hit</i> 'e]	Terraza (2009:138-9)
Naduhup		nade1244	Nadëb [mbj]	[<i>dooh</i> V]; [<i>na</i> -V]	-	-	Weir (1994:294-6)
Naduhup		daww1239	Dâw [kwa]	-	-	[V- <i>ẽh</i>]	Martins (2004:325)
Naduhup		hupd1244	Hupda [jup]	-	-	[V- <i>nẽh</i>]	Epps (2008:725)
Nambiquaran		sout2994	Southern Nambikuára [nab]	-	-	[V- <i>nxa</i>] _{1P} [V- <i>xa</i>] _{2/3P}	Kroeker (2001:46)
Nambiquaran		lako1248	Lakondê [lkd]	-	-	[V- <i>ta</i>]	Telles (2002:261-2)
Nambiquaran		mama1278	Mamaindê [wmd]	-	-	[V- <i>na</i> ?]+low tone	Eberhard (2009:437)
Nambiquaran		saba1268	Sabanê [sae]	-	-	[V- <i>mi</i> (<i>si</i>) <i>na</i>]	Araujo (2004:133)
Pano-Tacanan	Panoan	amah1246	Amahuaca [amc]	-	-	[V- <i>yama</i>]	Russell (1965:46-7)
Pano-Tacanan	Panoan	cash1251	Cashibo-Cacataibo [cbr]	-	-	[V= <i>ma</i>]	Zariquiey (2011:538)

Pano-Tacanan	Panoan	cash1254	Cashinahua [cbs]	-	-	[V- <i>ma</i>]	Camargo (1991:208)
Pano-Tacanan	Panoan	chac1251	Chácobo [cao]	-	-	[V= <i>yama</i>]	Tallman (2018:217, p.c)
Pano-Tacanan	Panoan	mats1244	Matsés [mcf]	-	-	[V- <i>a</i> AUX] _{PFV} [V- <i>en</i> AUX] _{NPFV}	Fleck (2003:1063)
Pano-Tacanan	Panoan	mati1255	Matís [mpq]	-	-	[V- <i>ma</i>] _{PST} [V- <i>men</i>] _{NPST}	Ferreira (2001:74)
Pano-Tacanan	Panoan	maru1252	Marúbo [mzr]	-	-	[V- <i>ma</i>]	Soares (2006:107)
Pano-Tacanan	Panoan	pano1254	Katukina [knt]	-	-	[V= <i>ma</i>]	Aguiar (1994:241-2)
Pano-Tacanan	Panoan	shar1245	Sharanahua (Shawā) [mcd]	-	-	[V- <i>ba</i>]	Souza (2012:81)
Pano-Tacanan	Panoan	yami1256	Yaminahua [yaa]	-	-	[V- <i>ma</i>]	Faust & Loos (2002:41)
Pano-Tacanan	Panoan	yawa1260	Yawanawa [ywn]	-	-	[V- <i>ma</i>]	Souza (2016, p.c.)
Pano-Tacanan	Panoan	ship1254	Shipibo-Konibo [shp]	-	-	[V- <i>yama</i>]	Valenzuela (2003:157,293)
Pano-Tacanan	Panoan	capa1241	Capanahua [kaq]	-	-	[V- <i>yama</i>]	Loos (1969:36)
Pano-Tacanan	Tacanan	cavi1250	Cavineña [cav]	-	-	[V= <i>ama</i>]	Guillaume (2008:678-9)
Pano-Tacanan	Tacanan	esee1248	Ese Eija [ese]	-	-	[V- 'axa AUX]; [V- <i>xima</i> AUX];	Vuillermet (2012:289-290)
Pano-Tacanan	Tacanan	taca1256	Tacana [tna]	[<i>aimue</i> V (AUX)]; [<i>mué</i> =V (AUX)]	[<i>aimue</i> V= <i>mawe</i>]	-	Guillaume (forthcoming)
Pano-Tacanan	Tacanan	arao1248	Araona [aro]	-	[<i>pi</i> =V= <i>ma</i>]; [<i>pi</i> =V= <i>ma</i> AUX] _{REC.PST}	-	Emkow (2006:444-6)
Peba-Yagua		yagu1244	Yagua [yad]	[<i>néé</i> V]	-	[V- <i>tya</i>]	Payne & Payne (1990:317,320)
Saliban		maco1239	Maco [wpc]	-	-	[V- <i>iki/-ok/-uk</i>]	Rosés Labrada (2015:316)
Saliban		sali1298	Sáliba [slc]	-	-	[V- <i>di</i>]	Estrada Ramírez (1996:137)
Quechuan	QI	hual1241	Huallaga Huánuco Quechua [qub]	-	[(<i>mana</i>) V- <i>ču</i>]	-	Weber (1996:55-6)
Quechuan	QI	nort2980	Tarma (North Junín) Quechua [qvn]	-	[(<i>mana</i>) V- <i>ču</i>]	-	Adelaar (1977:78)
Quechuan	QI	huay1240	Ancash Huaraz Quechua [qwh]	-	[(<i>mana</i>) V- <i>ču</i>]	-	Pineda-Bernuy (2014:103-4)
Quechuan	QII	lamb1276	Lambayeque Quechua [quf]	-	[<i>mana</i> V- <i>ču</i>]	-	Taylor (1999:28-9)
Quechuan	QII	caja1238	Cajamarca Quechua [qvc]	-	[<i>mana</i> V- <i>ču</i>]	-	Shimelman (2017:255)
Quechuan	QIIB	imba1240	Imbabura Highland Quechua [qvi]	-	[<i>mana</i> V- <i>ču</i>]	-	Cole (1982:83)
Quechuan	QIIC	ayac1239	Ayacucho Quechua [quy]	-	[<i>mana</i> V- <i>ču</i>]	-	Sola & Parker (1963:54)
Quechuan	QIIC	sout2991	South Bolivian Quechua [quh]	-	[<i>mana</i> V- <i>ču</i>]	-	Sola & Lastra (1964:28-9)
Quechuan	QIIC	cusc1236	Cuzco Quechua [quz]	-	[<i>mana</i> V- <i>ču</i>]	-	Pineda-Bernuy (2014:101-2)
Ticuna-Yuri		ticu1245	Ticuna [tca]	[<i>tāu</i> V]	-	-	Montes (2004:155); Bertet (2020, p.c.)
Tucanoan	Eastern Tucanoan	guan1269	Kotiria (Wanano) [gvc]	-	-	[V- <i>éra</i>] _{REA} [V- <i>śí</i>] _{IRR}	Stenzel (2013:246-250,301-3)

Tucanoan	Eastern Tucanoan	cara1272	Carapana [cbc]	-	-	[V-e/-ẽ] _{PRS/PST} [V-eti/-ẽtĩ]	Metzger (1981:62)
Tucanoan	Eastern Tucanoan	tatu1247	Tatuyo [tav]	-	-	[V-(kẽ)ti]	Gomez-Imbert (1982:279)
Tucanoan	Eastern Tucanoan	tuyu1244	Tuyuca [tue]	-	-	[V-ri AUX] _{PST/FUT} [V-e AUX] _{PRS}	Barnes (1994:330-4)
Tucanoan	Eastern Tucanoan	tani1257	Retuarã [tnc]	-	-	[V-be]	Strom (1992:6-7)
Tucanoan	Eastern Tucanoan	bara1380	Barasano [bsn]	-	-	[V-be(ti)]	Jones & Jones (1991:7,125)
Tucanoan	Eastern Tucanoan	cube1242	Cubeo [cub]	-	-	[V-be/-me]	Chacon (2012:267)
Tucanoan	Eastern Tucanoan	desa1247	Desano [des]	-	-	[V-bi(ri)] _{PST} [V-bea] _{PRS} [V-sõbẽ] _{FUT}	Miller (1999:135-6); Silva (2012:139,247)
Tucanoan	Western Tucanoan	kore1283	Koreguaje [coe]	-	-	[V-ma(ne)]	Cook & Criswell (1993:61)
Tucanoan	Western Tucanoan	orej1242	Máihiki [ore]	-	-	[V-ma]	Farmer (2015:54-5)
Tucanoan	Western Tucanoan	seco1241	Secoya [sey]	-	-	[V-ma AUX]; [V bã/beo]	Johnson & Levinsohn (1990:64); Anne Schwarz, p.c.
Tucanoan	Western Tucanoan	sion1247	Siona [snn]	-	-	[V-ma(ɾi)]; [V bã]	Wheeler (1970:93-4); Bruil (2014: 204, p.c.)
Tupian	Monde	gavi1246	Gavião [gvo]	[ǎ'õ V]	-	[V óp]	Moore (2016)
Tupian	Juruna	juru1256	Jurúna [jur]	-	-	[V-(a)ũ] _{REA} [V-ma] _{IRR}	Fargetti (2001:193-9)
Tupian	Arikemic	kari1311	Karitiãna [ktn]	-	-	[V (padni)]	Storto (2018)
Tupian	Ramarama	karo1305	Karo [arr]	-	-	[V iʔke]	Gabas (1999:184)
Tupian	Mundurukuic	mund1330	Mundurukú [myu]	-	-	[V ġu]	Crofts (2004:123); Gomes (2006:171)
Tupian	Tuparic	saki1248	Mekens [skf]	-	-	[V-ap]	Galucio (2001:92-3)
Tupian	Maweti-Guarani	awet1244	Awetí [awe]	-	[an V-(y)ka]	-	Reiter (2011:274)
Tupian	Maweti-Guarani	sate1243	Sateré-Mawé [mav]	-	[it=V-'i]	-	Da Silva (2010:140)
Tupian	Tupi-Guarani	kama1373	Kamaiurá [kay]	-	[(na=)V-ite]	-	Seki (2000:329)
Tupian	Tupi-Guarani	kaiw1246	Kaiwá [kgk]	-	[n(d)(a)-V-i]	-	Taylor & Taylor (1966:35)
Tupian	Tupi-Guarani	east2555	Eastern Bolivian Guaraní [gui]	[mbátĩ V]	-	[V-a]	Dietrich (1986:143-4)
Tupian	Tupi-Guarani	tapi1253	Tapieté [tpj]	-	-	[V-ã]	González (2005:251)
Tupian	Tupi-Guarani	siri1273	Sirionó [srq]	-	-	[V-(y)ã]; [V eã]	Dahl (2014:122)
Tupian	Tupi-Guarani	coca1259	Cocama-Cocamilla [cod]	[ĩma V]; [ni V]	-	-	Vallejos (2016:423-6)
Tupian	Tupi-Guarani	tupi1273	Tupinambá [tpn]	-	[n(d)(a)-V-i]	-	Navarro (2004:84)
Tupian	Tupi-Guarani	toca1235	Asuriní Tocantins [asu]	-	[n(a)-V-i]	[V-y'ym]	Harrison (1963:3,7,25)
Tupian	Tupi-Guarani	waya1270	Wayampi [oym]	-	[n-V-i]	-	Grenand (1980:89); Jensen 1994:349)
Tupian	Tupi-Guarani	emer1243	Teko [eme]	-	[d-V-(ɔʒ)ĩ]	-	Rose (2003:399, 2011)
Tupian	Tupi-Guarani	urub1250	Urubú-Kaapor [urb]	-	-	[V(-)ʔim]	Kakumasu (1986:358);

							Garcia (2009:103-4)
Tupian	Tupi-Guarani	kaya1329	Kayabí [kyz]	-	[n-V-i]	[V-e'em]	Dobson (2005:33-4)
Uru-Chipaya		chip1262	Chipaya [cap]	[ana V]	-	-	Cerron-Palomino (2006:241)
Uru-Chipaya		uruu1244	Uru Irohito /Bolivia [ure]	[ana V]	-	-	Hannß (2014:205-6)
Yanomaman		sanu1240	Sanumá [xsu]	-	-	[V-ma/-mi/-mai]	Borgman (1990:82-4)
Yanomaman		nina1238	Ninam [shb]	-	-	[V pemi]; [V Siha]; [V-ra]	Goodwin Gómez (1990:108-109)
Yanomaman		yano1262	Yanomami [wca]	-	-	[V=imi]; [V ma]	Perri Ferreira (2017:360-2)
Zamucoan		ayor1240	Ayoreo [ayo]	[ke V] _{REA} [ka V] _{IRR}	-	-	Bertinetto (2014:402)
Zamucoan		cham1315	Chamacoco [ceg]	-	[ye V=pe]	-	Ciucci (2016:134)
Zaparoan		arab1268	Arabela [arl]	[maja V]	-	[V-yaqui]	Rich (1975:9,60)
Zaparoan		iqui1243	Iquito [iqu]	[caa V]	-	-	Lai (2009:55-6); Hansen (2018:137)
Zaparoan		zapa1253	Záparo [zro]	[taykwá V]	-	-	Peeke (1962:130-1); Moya (2007:177)
isolate		ando1256	Andoke [ano]	[háma V]	-	-	Landaburu (1979:251)
isolate		atac1235	Atacame (Esmeraldeño)	[ba-V]	-	-	Adelaar & Muysken (2004:158)
isolate		cand1248	Candoshi-Shapra [cbu]	[nda V]	-	[V=zi/ši]	Overall (2016)
isolate		cani1243	Canichana [caz]	[nihuas V]	-	-	Crevels (2012a:443); Cardús (1886:317)
isolate		cayu1262	Cayuvava [cyb]	[ye-V]	-	-	Crevels & Musyken (2012:364)
isolate		guat1253	Guató [gta]	[véi-V]	-	-	Palácio (1984:61,69,110)
isolate		puel1244	Puelche (Günuna Küne) [pue]	[gan-V]	-	-	Casamiquela (1983:57)
isolate		iton1250	Itonama [ito]	[ʔ-V] _{MONOSYLLABIC.V} [V<ʔ>V] _{POLYSYLLABIC.V}	-	-	Crevels (2012b:257)
isolate		mose1249	Mosetén-Chimané [cas]	[jam V]	-	-	Sakel (2004:329)
isolate		movi1243	Movima [mzp]	[(kas) V]	-	-	Haude (2006: 319, 440)
isolate		muni1258	Muniche [myr]	[ap V]	-	-	Gibson (1996:48-50, <i>passim</i>)
isolate		puin1248	Puinave [pui]	[sân-V]	-	-	Girón (2008:259-260)
isolate		puqu1242	Puquina [pug]	[apa~appa V]	-	-	Adelaar & van de Kerke (2009:141)
isolate		waor1240	Waorani [auc]	[wĩ V]	-	[V-dābaĩ (AUX)]	Peeke (1994:273, 277)
isolate		yura1255	Yurakaré [yuz]	[nish V]	-	-	van Gijn (2006:288)
isolate		cams1241	Camsá [kbh]	-	[(ndoñ) at-V]; [ndoñ (at)-V]	-	O'Brien (2018:131,186)
isolate		chiq1248	Chiquitano [cax]	-	[chi-V-pi]	-	Galeote (2014:284)
isolate		cofa1242	Cofán [con]	-	-	[V=(m)bi]	Tobar (1995:128); Fischer & Hengeveld (forthc.)
isolate		urar1246	Urarina [ura]	-	-	[V-ene/a/e/i]	Olawsky (2006:484)

isolate		aika1237	Aikanã [tba]	-	-	[V- <i>na</i>]	Vasconelos (2004:50)
isolate		beto1236	Betoi-Jirara	-	-	[V- <i>omé</i> (AUX)]	Zamponi (2003a:7, 21)
isolate		fuln1247	Fulniô (Iatê) [fun]	-	-	[V- <i>dode</i>]	Costa (1999:269)
isolate		iran1263	Irántxe-Münkü [irn]	-	-	[V-(<i>r</i>)ara/rera]	Montserrat (2010:57)
isolate		yuwa1244	Hoti [yau]	-	-	[V- <i>de</i>] [V <i>mide/dide</i>]	Vilera Díaz (1985:104); Quatra (2008:74,90,93)
isolate		kano1245	Kanoê [kxo]			[V <i>k</i> -AUX]	Bacelar (2004:216-217)
isolate		kari1254	Kariri (Dzubukua variety)	-	-	[V- <i>kie</i>]; [V- <i>di</i>]	Correia de Queiroz (2012:356-357)
isolate		kwaz1243	Kwaza [xwa]	-	-	[V- <i>he</i>]	van der Voort (2004:520)
isolate		kunz1244	Kunza [kuz]	-	-	[V- <i>cha</i>]?	Mostny (1954:153) in Adelaar & Muysken (2004:384)
isolate		moch1259	Mochica [omc]	-	-	[V-<un(o)>]	Eloranta-Barrera Virhuez (2020:194)
isolate		leco1242	Leko [lec]	-	-	[V- <i>in/ir</i>]	van de Kerke (2009:305)
isolate		paez1247	Páez [pbb]	-	-	[V- <i>mee</i>]	Jung (2008:193)
isolate		pira1253	Pirahã [myp]	-	-	[V- <i>hiab</i>]	Everett (1986:252-4,289)
isolate		taus1253	Taushiro [trr]	-	-	[V- <i>hiro</i>]	Alicea Ortiz (1975:106)
isolate		trum1247	Trumai [tpy]	-	-	[V <i>tak</i> (AUX)]	Guirardello (1999:233)
isolate		pume1238	Pumé (Yaruro) [yae]	-	-	[V- <i>de</i>]	Guerreiro de Pirela (2016:170)
isolate		yuru1243	Yurumanguí [-]	-	-	[V-<ci>] (?)	Urban (2019:10-11); Rivet (1942: 36); Constenla Umaña (1991:53)
isolate		wara1303	Warao [wba]	-	-	[V- <i>naka</i> AUX]	Romero-Figueroa (1997:28)

Abbreviations:

1P = 1st person
2P = 2nd person
3P = 3rd person
AUX = auxiliary
EMPH = emphatic
EXCL = exclusive
FUT = future
INC = inclusive
IND = indicative
INTR = intransitive
IRR = irrealis
N = non-
PFV = perfective
PRS = present
PST = past
REA = realis
REC = recent
REM = remote
TR = transitive
V = verb

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Appendix 2. Single postverbal negators in the South American languages.

A family name is followed by a number between the brackets which shows the size of the family, according to Glottolog (note that this may also include non-living languages affiliated with a family). The ‘nr repres’ column shows the number of representatives of each family in our sample. The column ‘postverbal’ shows the number of respective languages that have single postverbal negation (either syntactic or morphological). The column ‘postverbal morphological’ shows only the languages that have specifically postverbal morphological negators.

Shaded cells indicate where postverbal negation (either syntactic or morphological), or specifically postverbal morphological, is dominant (‘dominant’ is taken here to mean ‘present in more than half of the sampled languages’).

family (size)	nr repres	postverbal	postverbal morphological	isolate	nr repres	postverbal	postverbal morphological
Araucanian (2)	1	1	1	Aikanã	1	1	1
Arawakan (77)	23	2	1	Andoke	1	0	0
Arawan (6)	3	3	3	Atacame	1	0	0
Aymaran (4)	2	0	0	Betoi-Jirara	1	1	1
Barbacoan (6)	3	2	2	Camsá	1	0	0
Boran (2)	2	2	2	Candoshi-Shapra	1	1	1
Bororoan (3)	2	1	0	Canichana	1	0	0
Cahuapanan (2)	2	1	1	Cayuvava	1	0	0
Cariban (42)	11	11	10	Chiquitano	1	0	0
Chapakuran (12)	4	2	0	Cofán	1	1	0
Charruan (3)	1	0	0	Fulniô	1	1	1
Chibchan (27)	7	6	6	Guató	1	0	0
Chicham (4)	3	3	3	Hoti	1	1	1
Chocoan (9)	3	3	2	Irántxe-Münkü	1	1	1
Chonan (4)	2	1	0	Itonama	1	0	0
Guahiboan (5)	3	1	0	Kanoê	1	1	1
Guaicuruan (5)	4	0	0	Kariri	1	1	1
Harakmbut (2)	1	1	1	Kunza	1	1	1
Hibito-Cholon (2)	1	1	1	Kwaza	1	1	1
Huarpean (2)	1	0	0	Leko	1	1	1
Huitotoan (7)	2	2	2	Mochica	1	1	1
Kakua-Nukak (2)	1	1	1	Mosetén-Chimane	1	0	0
Katukinan (2)	1	1	1	Movima	1	0	0
Kawesqar (3)	1	1	0	Muniche	1	0	0
Lengua-Mascoy (6)	3	0	0	Páez	1	1	1
Macro-Je (30)	14	12	0	Pirahã	1	1	1
Matacoan (7)	4	1	1	Puelche	1	0	0
Naduhup (4)	3	2	2	Puinave	1	0	0
Nambiquaran (6)	4	3	3	Pume (Yaruro)	1	1	1
Pano-Tacanan (45)	17	15	11	Puquina	1	0	0
Peba-Yagua (3)	1	1	1	Taushiro	1	1	1
Quechuan (44)	9	0	0	Trumai	1	1	0
Saliban (3)	2	2	2	Urarina	1	1	1
Ticuna-Yuri (2)	1	0	0	Waorani	1	1	1
Tucanoan (26)	12	12	12	Warao	1	1	1
Tupian (71)	20	12	8	Yurakaré	1	0	0
				Yurumangui	1	1	1
Uru-Chipaya (2)	2	0	0				
Yanomamic (6)	3	3	2				
Zamucoan (3)	2	0	0				
Zaparoan (6)	3	1	1				
Σ1	184	110	80	Σ2	37	22	20
				Σ1 + Σ2	221	132	100

Appendix 3. Kernel density maps (using a quartic kernel function)

Postverbal morphological single

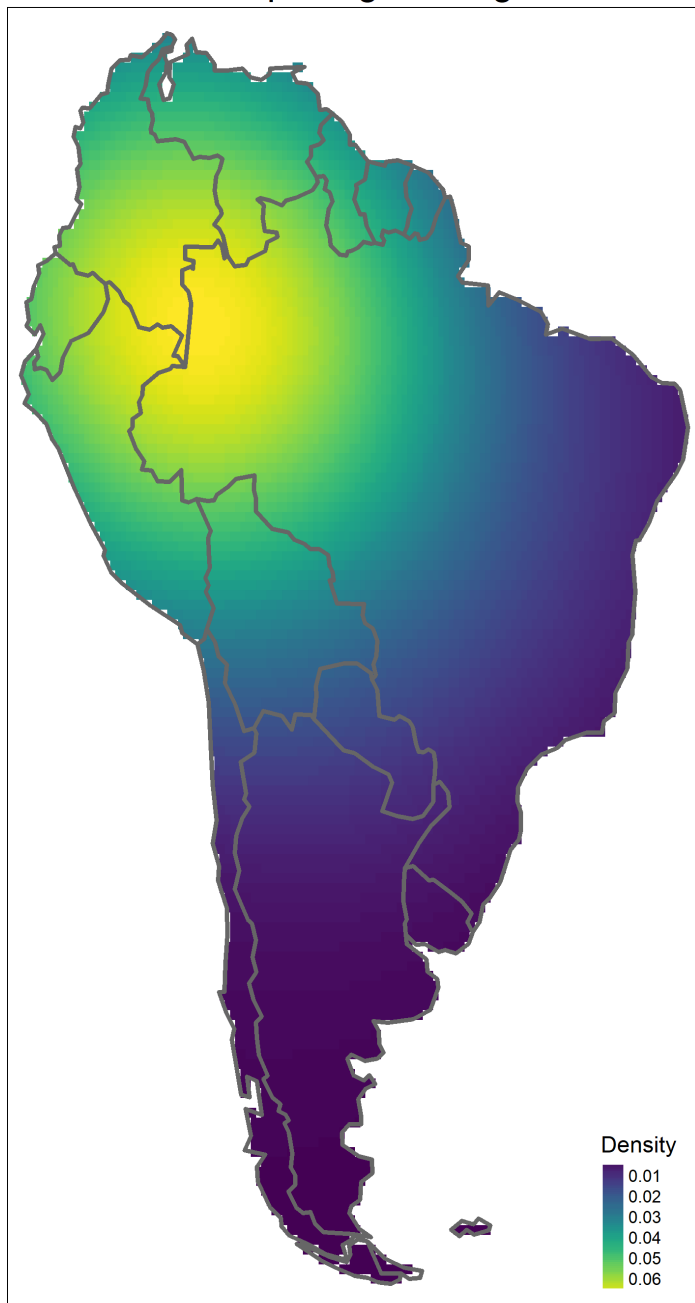


Figure 10: Kernel density map for the postverbal morphological single pattern.

The map is in Eckert IV global equal area projection (cell size $\sim 2200\text{km}^2$). Models were fitted using a quartic kernel function.

Postverbal syntactic single

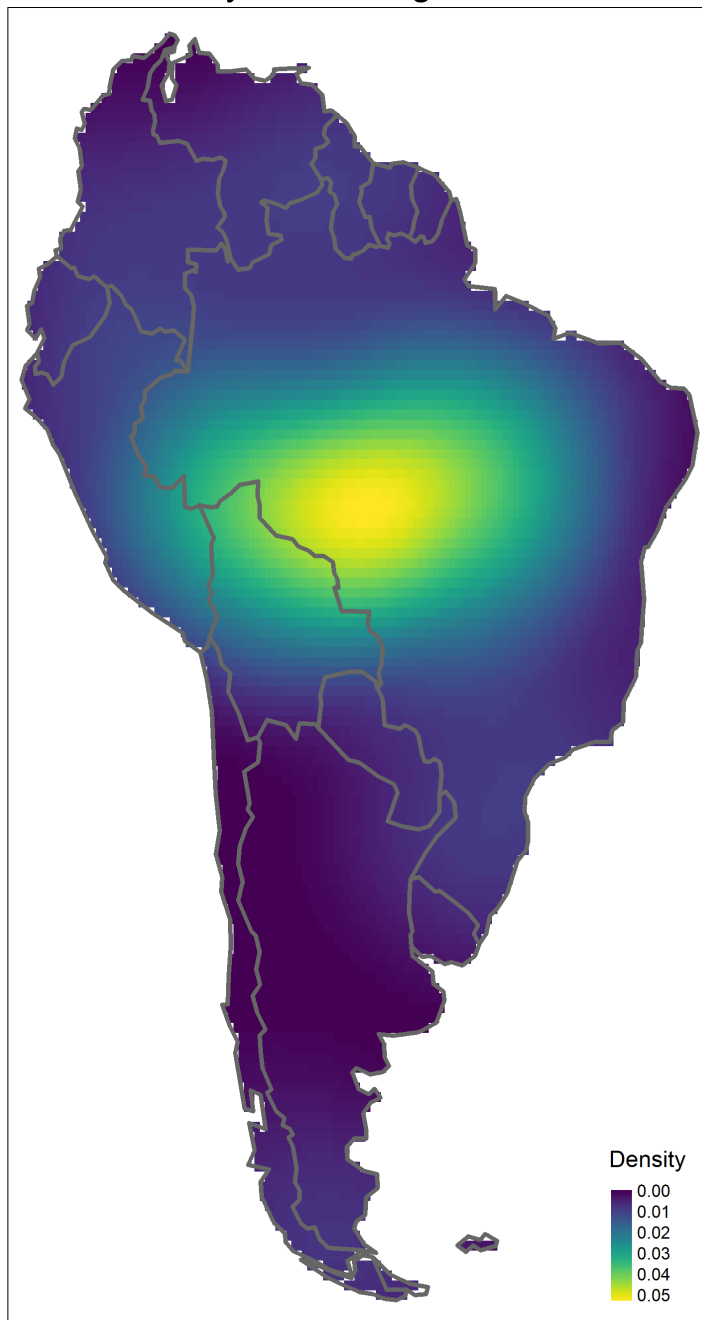


Figure 11: Kernel density map for the postverbal syntactic single pattern.

The map is in Eckert IV global equal area projection (cell size $\sim 2200\text{km}^2$). Models were fitted using a quartic kernel function.

Preverbal syntactic single

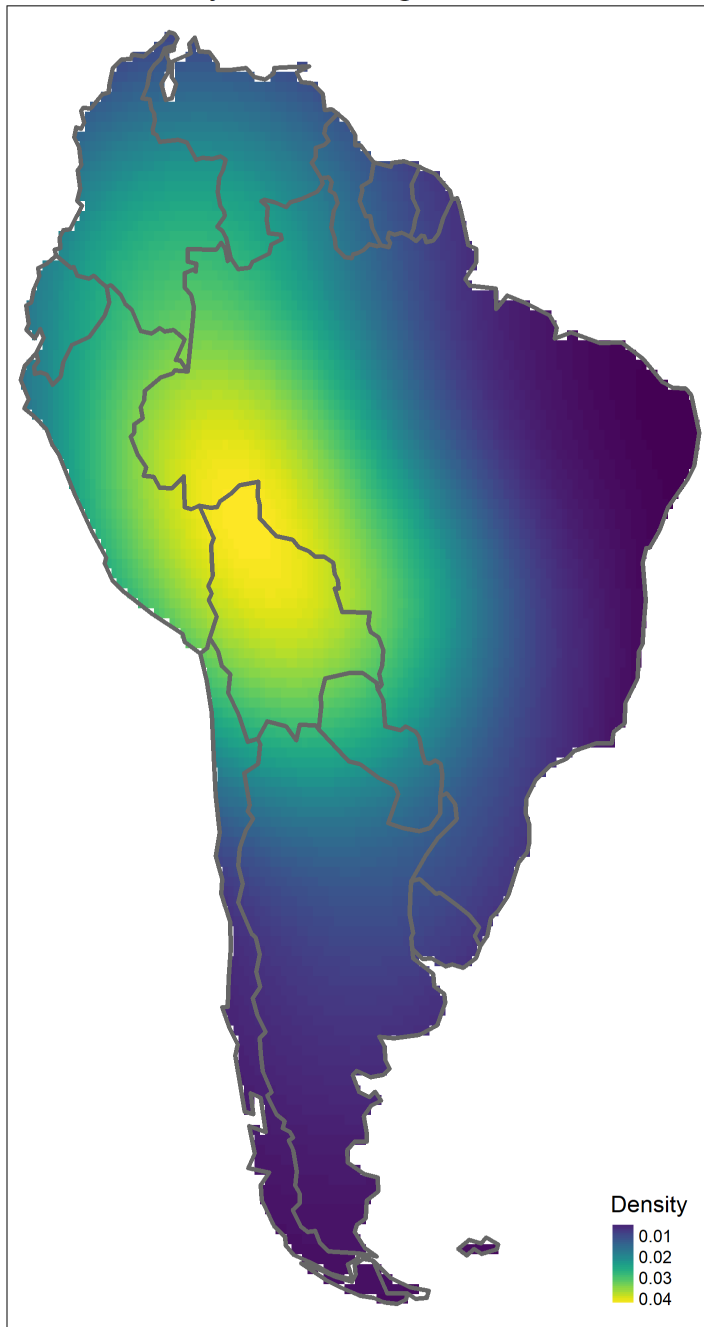


Figure 12: Kernel density map for the preverbal syntactic single pattern.

The map is in Eckert IV global equal area projection (cell size $\sim 2200\text{km}^2$). Models were fitted using a quartic kernel function.

Preverbal morphological single

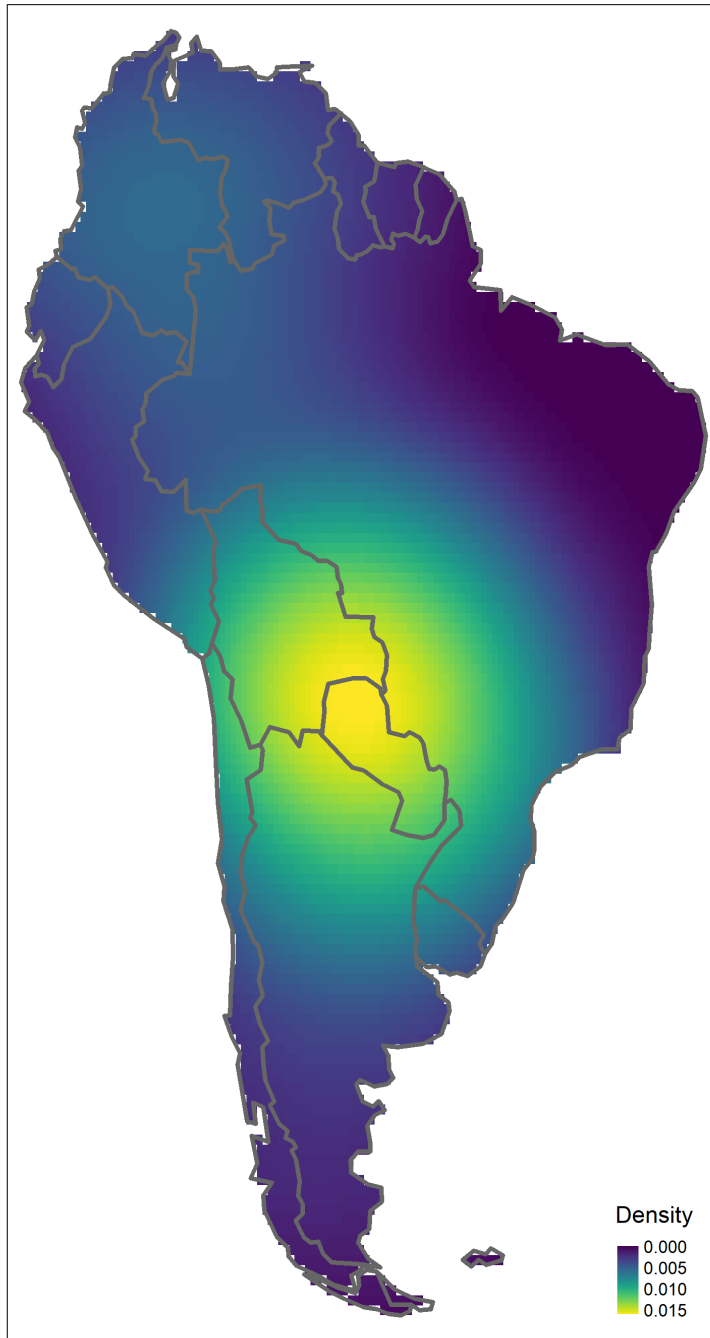


Figure 13: Kernel density map for the preverbal morphological single pattern.

The map is in Eckert IV global equal area projection (cell size $\sim 2200\text{km}^2$). Models were fitted using a quartic kernel function.