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Appendix 14.1. The CALMSEA 200-word list. \* in the English word column = words which also appear on the Swadesh 200-word list; † = corresponds to Swadesh's 'feather'. STC = Benedict's Sino-Tibetan: a Conspectus (1972); TSR = The Loloish Tonal Split Revisited (Matisoff 1972); JAM = James Matisoff; PLB = Proto-Lolo-Burmese. Numbers in brackets refer to page numbers in the respective volumes. (Adapted from Matisoff 1978, 284–96.)

## A. Body parts

- |                      |   |
|----------------------|---|
| 1. belly (exterior)* | STC *pu:k (358)   |
| 2. blood*            | STC *s-hwi:y (222)  |
| 3. bone*             | STC *rus (6)  |
| 4. ear/hear*         | STC *g-na (453)   |
| 5. egg*              | STC *twiy (168)   |
| 6. eye*              | STC *mik ≈ *myak (402)  |
| 7. fat/grease*       | STC *ryak (204); *tsil (pp. 16, 168, 173); *sar:w (272)                                   |
| 8. foot*             | STC *kriy (38)  |
| 9. guts*             | STC *pik (35)   |
| 10. hair (head)*     | STC *s-kra (115); *ney (292); *tsam (73)  |
| 11. hair (body)*†    | STC *mul (2); *tsam (73)  |
| 12. hand/arm*        | STC *lak (86)   |
| 13. head*            | STC *m-gaw ≈ *s-gaw (490); *d-bu (p. 117)   |
| 14. heart*           | STC *s-nij (367)  |
| 15. horn*            | STC *kruw (37); *runj (85)  |
| 16. liver*           | STC *m-sin (234)  |
| 17. mouth*           | STC *ak (106); *m-ka (468)  |
| 18. neck*            | STC *ke (251); *liŋ (96); *tuk (392)  |
| 19. nose*            | STC *s-na ~ *s-na:r (101)   |
| 20. skin/bark*       | STC *s-graw (121); *kok (342)   |
| 21. spit*            | STC *m-ts(y)il (231); *m-tuk ≈ *s-tu:k ≈ *s-du:k (pp. 58, 75, 126, 132, 146); *twiy (168) |
| 22. tail*            | STC *r-may (282)  |
| 23. tongue*          | STC *m-lay ≈ *s-lay (281)   |
| 24. tooth*           | STC *s-wa (437)   |
| 25. wing*            | JAM *s-toŋ; *(s/k-)l-w-ak; *(s/p-)lyap  |
| 26. nail/claw*       | STC *m-(t)sin (74)  |
- In Swadesh, but not in our list:
- |      |  |
|------|--|
| back | STC *s-ga:l (p. 18); *s-nuŋ (354)                        |
| knee | STC *du (p. 21); *(m-)ku:k (pp. 120, 159, 182); *put (7) |
| leg  | STC *(r-)kaŋ (70, 142)                                   |
- The following are not in Swadesh, but are on our list:
- |                           |   |
|---------------------------|---|
| 27. finger/toe            | STC *m-yuŋ (355)  |
| 28. palm                  | STC *pwa or *b-wa (418)   |
| 29. penis                 | STC *li ≈ *m-ley (262)  |
| 30. vagina or breast/milk | STC *nuw (419) 'breast'; *dzop (69) 'suck';<br>TSR *b(y)et (5) 'vagina' (TSR 5)                 |
| 31. brain                 | STC *nuk (483)  |
| 32. navel                 | STC *la:y; *s-tay (299)   |
| 33. shit                  | STC *kliy (125); *n(y)ik (235); *s-baŋ (p. 21); *r-kyak ≈ *s-kyak (pp. 26, 146); *e:k (26, 146) |

34. piss STC \*ts(y)i ≈ \*ziy (77)  
 35. sweat PLB \*?krwiy<sub>2</sub>  
 36. snot STC \*s-nap (102)  
 37. vomit PLB \*Npat (TSR 38); STC \*on (343)  
 38. marrow STC \*kliŋ (126)  
 39. breath/life STC \*sak (485); TSR \*C-sak (123)

**B. Pronouns/kinship terms/nouns referring to humans**

40. person/human being\* STC \*r-mi(y) (pp. 107, 119, 158)  
 41. thou\* STC \*na(ŋ) (407)  
 42. I\* STC \*ŋa (406) ≈ \*ŋay (285)  
 43. child/son\* STC \*za ≈ \*tsa (59)  
 44. grandchild (nephew) STC \*b-liy (448)  
 45. son-in-law STC \*ma-k (324); TSR \*z-ma-k (153)  
 46. name\* STC \*r-miŋ (83)

**C. Foodstuffs**

47. peas, beans STC \*be (253); TSR \*s-nok (140)  
 48. poison [antifood] STC \*duk ≈ \*tuk (472)  
 49. mushroom/fungus STC \*g-muw (455) ≈ (JAM \*s-muw)  
 50. liquor STC \*yu(w) (94)  
 51. plantain/banana STC \*s-ŋak (477)  
 51a. medicine/juice STC \*tsiy (65)  
 51b. rice (in fields) STC \*b-ras (pp. 17, 123)  
 51c. rice (cooked) PLB \*haŋ<sup>2</sup>

**D. Animal names or animal products**

52. meat/animal\* STC \*sya (181)  
 53. bird\* STC \*bya (177); TSR \*s-ŋak (141)  
 54. dog\* STC \*kwiy (159)  
 55. fish\* STC \*ŋya (189)  
 56. louse\* STC \*s-rik (439); \*sar ≈ śar (pp. 15, 53, 84, 147, 172, 189)  
 57. snake\* STC \*b-ru<sup>1</sup> (447)  
 58. frog STC \*s-bal (15, 21, 107)  
 59. insect, bug, vermin STC \*buw (27)  
 60. bee PLB \*bya<sub>2</sub>; STC \*kwa-y (157); \*was (17); \*taŋ (494)  
 61. dove STC \*m-kruw (118); \*kuy 'pigeon' (495)  
 62. monkey STC \*mruk (pp. 43, 112); \*woy (314); PLB \*m-yuk  
 63. pig STC \*pwak (43); PLB \*wak (TSR 168)  
 64. fowl STC \*k-rak (pp. 88, 107, 187-9)  
 65. otter STC \*s-ram (438)  
 66. horse STC \*s-raŋ ≈ \*m-raŋ (145)  
 67. ant STC \*rwak (199)  
 68. bear STC \*d-wam (461)  
 68a. leech STC \*r-pat  
 68b. water leech STC \*m-li-t  
 69. rat/rodent TSR \*k-r-wak (188); STC \*bwiy 'bamboo rat' (173);  
 STC \*b-yuw 'rat, rabbit' (93)

**E. Natural objects or phenomena; the inanimate landscape; vegetable and mineral kingdoms**

70. ashes\* STC \*pla (137)  
 71. cloud\* PLB \*C-tim<sub>1</sub>  
 72. earth\* STC \*r-ka (97); \*mliy (152)  
 73. fire\* STC \*bar ≈ \*par (220); \*mey (290)  
 74. flower\* STC \*ba-r (1)  
 75. fruit\* STC \*sey (57)  
 76. grass\* STC \*mrak (149)  
 77. leaf\* STC \*la (486); \*lap (321); \*pak (40)  
 78. moon\* STC \*s-la ≈ \*g-la (144)  
 79. mountain\* PLB \*kaŋ<sub>1</sub>  
 80. rain\* STC \*r-wa (443)  
 81. river/valley\* STC \*kluŋ (127); \*kor (349); PLB \*laŋ<sup>1</sup>  
 82. road\* STC \*lam (87)  
 83. root\* STC \*bul ≈ \*pul (pp. 166, 173); \*r-sa (442)  
 84. salt\* STC \*g-ryum (245); \*tsa (214)  
 85. sky\* STC \*muw (488)  
 86. smoke\* STC \*kuw (256)  
 87. star\* STC \*s-kar (49)  
 88. stick\* PLB \*da, (cf. Lahu á-tà)  
 89. stone\* STC \*brak 'rock' (134); \*r-luŋ (88); PLB \*k-lok ≈ \*k-loŋ  
 (TSR 190)  
 90. sun/day\* STC \*nam (48); \*niy (81); \*tsyar (187)  
 91. tree/wood\* STC \*siŋ (233); PLB \*sik (TSR 118)  
 92. water\* STC \*twiy (168)  
 93. wind\* STC \*g-liy (454)  
 94. branch STC \*ka-k (327); \*kuŋ (359)  
 95. silver STC \*d-ŋul (pp. 15, 173)  
 96. bamboo STC \*g-pa (44)  
 97. shade/shadow STC \*g-rip ≈ \*s-rip (p. 113)  
 98. joint STC \*tsik (64)  
 99. thorn (prick) STC \*tsow (276)  
 100. night\* STC \*ya (417)  
 101. iron STC \*sir (372); \*syam (228)  
 102. field  
 102a. swidden PLB \*hya<sub>1</sub>  
 102b. irrigated paddy field PLB \*?dan<sub>2</sub>; \*C-mi<sub>1</sub>
- F. Artefacts and social organization**
103. arrow STC \*m-da (pp. 96, 111-12, 118); \*b-la (449)  
 104. needle STC \*kap (52); PLB \*k-rap (TSR 191)  
 105. house STC \*kim ≈ \*kyim ≈ \*kyum (53)  
 106. bow STC \*d-liy (463)  
 107. boat STC \*m-liy (474)  
 108. mortar STC \*tsum (75)  
 109. village STC \*r-wa ≈ \*g-wa (444); TSR \*kak (22)

## G. Spatial/directional

110. left side\* STC \*bay (47)  
 111. right side\* STC \*g-ya ≈ \*g-ra (98)  
 112. far\* (v.) STC \*dzya:l (229); \*wiy<sub>2</sub> (PLB)  
 113. near\* (v.) STC \*ney (291)  
 114. year\* STC \*nij (368); PLB \*C-kok (TSR 34)

## H. Numerals and quantifiers

115. twenty/score STC \*(m)-kul (397)  
 116. one\* STC \*it (pp. 94, 162); \*kat (p. 94);  
 \*(y)ik ≈ \*(g-)lyik (pp. 84, 94, 169, 189)  
 117. seven STC \*s-nis (5)  
 118. ten STC \*gip (16)  
 119. hundred STC \*r-gya (164)  
 120. two\* STC \*g-nis (4)  
 121. three\* STC \*g-sum (409)  
 122. four\* STC \*b-liy (410)  
 123. five\* STC \*l-ŋa ≈ \*b-ŋa (78)  
 124. six STC \*d-ruk (411); PLB \*C-krok (TSR 35)  
 125. eight STC \*b-r-gyat (163)  
 126. nine STC \*d-kuw (13)  
 127. (be) many (v.) STC \*mra (148)

## I. Verbs of utterance, body position or function

128. be born STC \*braj (135); \*kruŋ (382)  
 129. sleep/lie down\* STC \*ip (114); \*mwiy (196); \*n(y)it (236)  
 130. weep STC \*krap (116); \*ŋuw (79)  
 131. laugh\* STC \*m-nwi(y) (191); \*rya-t (202)  
 132. die\* STC \*siy (232)  
 133. awaken STC \*m-sow (295); PLB \*nuw<sub>2</sub> ≈ \*s-nuw<sub>2</sub>  
 134. cough STC \*su(w) (423)  
 135. stand\* STC \*g-ryap (246)  
 136. sit\* STC \*tuŋ (361)

## J. Verbs of motion

137. fall\* (from a height) STC \*kla (123)  
 138. climb, ascend STC \*l-tak (pp. 52, 110, 123); \*syar 'rise' (p. 28, n. 90)  
 139. descend STC \*yu(w) (101, n. 90); \*ʔ-yuk; \*zak (TSR 121)  
 140. fly STC \*pur ≈ \*pir (398); \*pyam (p. 29, n. 93; p. 51, n. 171);  
 \*pyaw 'fly, swim float' (176)  
 141. hide STC \*p(w)ak (46); PLB \*wak ≈ \*ʔ-wak (TSR 178)  
 142. run/flee STC \*ploŋ (140)  
 143. emerge STC \*twak (17); \*pro (248)

## K. Verbs of emotion, cognition and perception

144. fear/frighten\* STC \*grok ≈ \*krok (473); \*kri(y) (416); \*b-ray (450)  
 145. know\* STC \*m-kyen (223); \*syey (182)  
 146. ashamed STC \*kyen (162); \*s-rak (431); \*g-yak (452)

147. forget STC \*b-la:p (335)  
 148. dream STC \*maŋ (82); PLB \*s-mak ≈ \*s-maŋ (TSR 144)  
 149. see\* STC \*mraŋ (149)  
 150. smell\* STC \*m-nam (464)

## L. Stative verbs with human patients

151. thin\* STC \*ba (25)  
 152. old\* STC \*r-ga (445)  
 153. alive STC \*kruŋ (382); \*s-riŋ ≈ \*s-raŋ (404); PLB \*dat (TSR 1)  
 154. ill STC \*na (80); \*nyuŋ (194)  
 155. fat STC \*tsow (277)  
 156. itchy STC \*g-ya (451); \*m-sak (465)

## M. Stative verbs with non-human patients

157. full\* STC \*bliŋ ≈ \*pliŋ (142); \*dyaŋ ≈ \*tyam (226)  
 158. long/tall\* STC \*duŋ (20; p. 75, n. 231); \*low (279); \*s-riŋ (433)  
 159. sweet STC \*dz(y)im (71); \*twi(y) (166)  
 160. cold\* STC \*graŋ (120); \*kyam (224)  
 161. bitter STC \*ka (8)  
 162. sour STC \*kri(y) (413); \*s-kyur ≈ \*su-r (42)  
 163. red\* STC \*kyeŋ (162); \*r-ni (pp. 46, 91); \*tsyak (184)  
 164. heavy\* STC \*s-liy (95)  
 165. warm\* STC \*lum (381)  
 166. round\* STC \*z-lum (143); \*wal (91)  
 167. ripe/well-cooked STC \*s-min (432)  
 168. soft (to touch) STC \*now (274)  
 169. white\* STC \*bok (181); \*ŋow (296); \*plu (pp. 41, 46, 60–61, 89)  
 170. black\* STC \*tyaŋ (225); \*(s-)nak (pp. 88, 102, 155; TSR 142);  
 \*sim ≈ \*syim (380)  
 171. thick\* STC \*r-ta-t (426); \*tow (319); \*tu-k (356)  
 172. new\* STC \*sar (147, 172, 189); PLB C-šik (TSR 126)  
 173. sharp\* STC \*s-ryam (pp. 53, 171, 189); \*tak (87; TSR 41)  
 174. lightweight STC \*r-gyaŋ (328)

## N. Action verbs with human agent

175. eat\* STC \*am (481); \*dza (66)  
 176. drink\* STC \*am (481); PLB \*Ndaŋ, (TSR p. 15)  
 177. give\* STC \*biy (427); \*pek (pp. 101, 149)  
 178. tie\* STC \*du-t ≈ \*tu-t (421); \*kik (484)  
 179. steal STC \*r-kuw (33)  
 180. lick STC \*m/s-lyak (211)  
 181. bite\* STC \*gam (491); \*hap (89); \*kurk (388); \*wa (424)  
 182. scratch/scrape\* STC \*hyak (230); \*krak ≈ \*Nkrak (TSR 96);  
 \*kret ≈ \*Nkret (TSR 97); \*kut (TSR 383); \*pruk (TSR 391)  
 183. cook/boil STC \*klak (124); \*prut (131); \*pryo (250)  
 184. grind STC \*krit (119)  
 185. wash\* STC \*kruw (117); \*m-s(y)il (492)  
 186. dig\* STC \*klaw (269); \*r-ko-t (420); \*lary (288); \*tu (258)

187. let go; set free; loosen	STC *g-lwat (209)
188. extinguish	STC *mit (374)
189. blow*	STC *s-mut (75)
190. buy	STC *b-rey (293)
191. sew*	STC *d-rup (456); TSR *(?-)grup ≈ *?drup (63); *byar ≈ *pyar (STC 178)
192. kill*	STC *g-sat (58)
193. weave	STC *tak (17)
194. rub*	STC *nu:l (365); *s(y)wiy (180)
195. squeeze*	STC *nyap (192); *tsyur (188)
196. shoot	STC *ga:p (219)
197. kick	PLB *tek (TSR 14)
198. sell	STC *par (35); *ywar (pp. 15, 51, 89)
199. put, place	STC *s-ta (19)
200. drive/hunt*	PLB *rak ≈ *Ngak (TSR 162)
200a. burn*	STC *bar ≈ *par (220); *ploŋ (139); *tsow (275); *ka:ŋ (330); *duk ≈ *?duk (TSR 62); *put (TSR 8)
200b. cut*	STC *da:n (22); *lep (351); *mrak (147); *ra-t (458); *rit (371); *tsywar (240); *kut (383); *tsyat (185); *tuk (387); TSR *Niök ≈ *?tök (101); *?twap ≈ *C-dwap (69)

**Appendix 14.2. Proto-Sino-Tibetan and Amerind look-alikes.** The numbers next to the Amerind forms refer to pages from Greenberg's *Language in the Americas* (LIA) (1987). Proto-Sino-Tibetan/Proto-Tibeto-Burman reconstructions are from Benedict's *Sino-Tibetan: a Conspectus* (STC) (1972) and various works of Ffositam (JAM). LTBA = *The Journal Linguistics of the Tibeto-Burman Area*. Since such reconstructions as are to be found in LIA are only of individual subgroups, not of Proto-Amerind itself, we have sometimes simply selected those forms from individual Amerind languages that look most like ST/TM etyma. (Adapted from Matisoff 1990b.)

above/head	PTB *l-tak 'ascend, above' Chiquito ta, ita 'top of', Coroado takuen 'above'. Blackfoot -itoxk ('the -k may be an old locative suffix') (182, 232)
all/many	PTB *mra ≈ *mya Lake Miwok mu?e, Mixe maj (145)
ant	PTB *g-rwak ≈ *p-rwak Cochabamba Quechua ðhaka, Huave ðok, Bribri t'a-vak (183)
arm/give	PTB *bøy 'give' Guahibo -pi 'arm', Amuesah apa 'give', Apolista apaj 'give', Toyeri mpe, upi 'arm' (184)
arrow	PTB *m-da ≈ *b-la Opaie māa 'arrow', Caddo ba? 'bow' (184)
ashes	PTB *pla Cayapa pra 'embers', Krenje pro, Toyeri palo, Uncasica bura (185)

aunt	PTB *m-na 'mother; o. sister; daughter-in-law' Macca nana, Guahibo ena 'mother', Catuquina inai 'grandmother', Maku nō 'mother, aunt' (186-7)
bathe/swim/wash	Mandarin fū 'float', fū-shūi 'swim' Karak ik-puh, Yana puu 'swim', Mixe puh 'wash', Klamath pew 'bathe, swim' (188)
bee <sup>1</sup>	PTB *bya Botocudo pā 'bee, honey' (190)
bee <sup>2</sup> /mosquito	Old Chinese *mjwən 'mosquito' (Mand. wén-zi) Proto-Ge *meñ 'bee, honey'; Mataco apina 'mosquito', Choroti wona 'wasp', Amahuaca wina 'bee, wasp', Proto-Tacanan *wini 'wax' (190)
belly <sup>1</sup>	PTB *pam × *wam Pokomchi pam (191)
belly <sup>2</sup> /guts/skin	PST *bok 'belly' Tucano and Bara paga 'belly', Papury bok 'skin' (95) Mosesten vokko 'belly', Proto-Panoan *poko 'guts' (228)
bite	PTB *N-gwya 'chew' [JAM, LTBA 9.1] Cotoxo, Meniens kua 'eat', Vejoz okua 'bite', Proto-Tacanan *ik(i)a 'eat, bite', Sabela kãi (192-3)
bitter	PTB *b-ka Mosesten bikka, Proto-Panoan *moka (193-4)
blood	PST *s-hyway Proto-Tupi *uwi, Oto-Mangue *we 'red' (86, 196)
broad/flat <sup>1</sup>	PTB *per Wiyot bel 'flat, wide', Yurok pel (199)
broad/flat <sup>2</sup>	PTB *brak × *prak Proto-Siouan *pra 'flat, broad' (199)
burn/sun <sup>2</sup>	PTB *tuk × *duk 'burn' Amarakaeri ta?ak 'fire', Campa taka 'burn', Shukuru itoka 'burn' (200-201); also Ayoman dug 'fire' (261)
child/copulate	Old Chinese *ñjǝŋ 'child'; Jingpho nē? 'copulate' Crengenz ani 'copulate', Guenoa ineu 'son', Mayna ni- 'child', Catio niu 'boy, son' (203)
dark <sup>1</sup>	PTB *syim Itene issim 'night', Xince syma 'night, black' (209) [NB: Chiquimullilla su?max 'black' is to be compared rather with PTB *s-nak 'black']