

[Text version of database, created 21/10/2011].

Annotated Swadesh wordlists for the Solomon Islands group (Austronesian family).

Languages included: 'Are'are /Maasupa/ [slm-are]; 'Are'are /Waiahaa/ [slm-arw].

Data sources.

General: Tryon & Hackman 1983 = Tryon, D. T.; Hackman, B. D. Solomon Islands Languages: An Internal Classification. Pacific Linguistics Series C - No. 72. Research School of Pacific Studies: Australian National University. // (*The monograph uses lexical and phonetic data (collected by the authors) from approximately 100 Austronesian languages of the Solomon Islands to offer a genetic classification. The largest part of the monograph is dedicated to the publication of 320-item wordlists for all of the languages concerned; unfortunately, some of the Swadesh items remain uncovered*).

'Are'are: Geerts 1970 = Geerts, P. 'Āre'āre Dictionary. Pacific Linguistics Series C - No. 14. The Australian National University. // *A comprehensive dictionary of the 'Are'are language, or, rather, "macrolanguage": includes unmarked data from several dialects, which makes it all but impossible to use it for construction of primary wordlists.*

Notes on 'Are'are: Although two of the lists in [Tryon & Hackman 1983] are marked as "'Are'are", numerous lexicostatistical differences make it clear that either the lists (or at least one of the lists) have been compiled very poorly, or that the "'Are'are" language is in reality a "macrolanguage" or even a set of completely distinct languages, or - most probable of all - that both of these things are true.

This impression is further confirmed by analysis of the 'Are'are dictionary by P. Geerts: it is claimed that "the basis of this dictionary is the 'Āre'āre as spoken around Tarapaina, in the Small Malaita Passage", but it is quite transparent that the author has included data from a whole variety of very different (both lexically and phonetically) dialects, unfortunately, without marking the particular sources of data provenance. [Geerts 1970] is, therefore, unusable as a lexicostatistical source, despite containing far more lexical data than the poorly reliable lists in [Tryon & Hackman 1983]. We include data from this dictionary in the Notes sections for auxiliary purposes only.

Database compiled and annotated by: G. Starostin (last revision: October 2011).

1. ALL

References and notes:

'Are'are (Ma'asupa): Not attested.

'Are'are (Waiahaa): Not attested. Cf. *siko* 'all', *ikira siko* 'all of them, everybody' [Geerts 1970: 110], as well as a large variety of other quasi-synonyms, out of which only *siko* seems to have 'all' as its primary meaning. Cf.: *?ahu* 'to wrap, cover; complete, perfect, full (of numbers); all, entire, the whole of' [Geerts 1970: 2], with the derivative *?ahu-ta-na* 'all, the whole of, all together' [Geerts 1970: 3].

2. ASHES

'Are'are (Ma'asupa) *kora-kora* (1), 'Are'are (Waiahaa) *no=noa* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 269. Reduplicated stem. Cf. *?ora-?ora* 'ashes / dust' [Geerts 1970: 80]; *ora-pou* 'wood ash' [ibid.]; *pasa-?ora* 'white ashes' [Geerts 1970: 86]. Secondary synonym (or a phonetic variant of the same stem?): *kora* 'the small stones of the fireplace; charcoal, ashes, embers' [Geerts 1970: 54].

'Are'are (Waiahaa): Tryon & Hackman 1983: 269. Partially reduplicated stem. Cf. *noa-noa*, *noa-noa-na* 'embers' [Geerts 1970: 74].

3. BARK

'Are'are (Ma'asupa) *te?ete?ena* (1), 'Are'are (Waiahaa) *sisima* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 197. Cf. *te?ete?e-na* 'rind, peel, skin' [Geerts 1970: 125].

'Are'are (Waiahaa): Tryon & Hackman 1983: 197. Cf. *sisima-na* 'skin / bark / empty shell' [Geerts 1970: 112].

4. BELLY

'Are'are (Ma'asupa) *opa-na* (1), 'Are'are (Waiahaa) *o:pa-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 137. Cf. *opa-na* 'belly / stomach' [Geerts 1970: 80].

'Are'are (Waiahaa): Tryon & Hackman 1983: 137.

5. BIG

'Are'are (Ma'asupa) *pai-na* (1), 'Are'are (Waiahaa) *pai-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 341. Cf. *pai-na* 'big' [Geerts 1970: 83].

'Are'are (Waiahaa): Tryon & Hackman 1983: 341.

6. BIRD

'Are'are (Ma'asupa) *manu* (1), 'Are'are (Waiahaa) *manu* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 169. Cf. *manu* 'bird / insect' (said of anything that flies) [Geerts 1970: 62].

'Are'are (Waiahaa): Tryon & Hackman 1983: 169.

7. BITE

'Are'are (Ma'asupa) *?araia* (1), 'Are'are (Waiahaa) *ke?eha* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 425. Cf. *arai-a* 'to bite / to cut off / to break off' [Geerts 1970: 10].

'Are'are (Waiahaa): Tryon & Hackman 1983: 425. Cf. *ke?e-a ~ keke-a* 'to bite' [Geerts 1970: 50].

8. BLACK

'Are'are (Ma'asupa) *pupuru?a* (1), 'Are'are (Waiahaa) *pupuruhi?a* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 333. Cf. *poro-poro* 'black, blue' [Geerts 1970: 92]; alternate variants include *puru-puru-?a* id. and *puru-puru-hia* id. [Geerts 1970: 93].

'Are'are (Waiahaa): Tryon & Hackman 1983: 333.

9. BLOOD

'Are'are (Ma'asupa) *?apu-na* (1), 'Are'are (Waiahaa) *?apu* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 141. Cf. *apu-na* 'blood' [Geerts 1970: 9].

'Are'are (Waiahaa): Tryon & Hackman 1983: 141.

10. BONE

'Are'are (Ma'asupa) *susuri-na* (1), 'Are'are (Waiahaa) *susuri* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 141. Cf. *suri-na* 'bone' [Geerts 1970: 114].

'Are'are (Waiahaa): Tryon & Hackman 1983: 141.

11. BREAST

'Are'are (Ma'asupa) *susu-na* # (1), 'Are'are (Waiahaa) *susu* # (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 145. Exact meaning ('female breast' or 'male chest') not indicated. Most likely, this is simply 'female breast', cf. *susu-na* 'breasts, paps' [Geerts 1970: 116]. Cf. *mano-na* 'breast' [Geerts 1970: 62], as well as the complex form *mamata ni arau* [Geerts 1970: 60] with the same meaning. Cf. also *papara?a-na* 'chest, breast' [Geerts 1970: 85].

'Are'are (Waiahaa): Tryon & Hackman 1983: 145. Exact meaning ('female breast' or 'male chest') not indicated.

12. BURN TR.

'Are'are (Ma'asupa) *sunia* (1), 'Are'are (Waiahaa) *sunia* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 417. Synonym: *ehu* (it is not indicated which one of the two is transitive, but elicited from external data). Cf. *sunia* 'burn' [Geerts 1970: 114]. Same root as 'fire' q.v.

'Are'are (Waiahaa): Tryon & Hackman 1983: 417. Synonym: *sura*: (it is not indicated which one of the two is transitive, but elicited from external data).

13. CLAW(NAIL)

References and notes:

'Are'are (Ma'asupa): Not attested. Cf. *sisiki-na* ~ *sisiki-hana* ~ *siski-?ana* 'nail of finger and toe' [Geerts 1970: 111]; *misi ni ?u?una* 'nail' [Geerts 1970: 136] (*?u?u-na* = 'finger, toe, claw, paw' [ibid.]).

'Are'are (Waiahaa): Not attested.

14. CLOUD

'Are'are (Ma'asupa) *wahawaha* (1), 'Are'are (Waiahaa) *wahawaha* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 273. Cf. *wawaha*: 'cloud, mist' [Geerts 1970: 140].

'Are'are (Waiahaa): Tryon & Hackman 1983: 273.

15. COLD

'Are'are (Ma'asupa) *mamaʔu:si* (1), 'Are'are (Waiahaa) *sisiuʔa* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 341. Cf. *uʔusi* 'cold' [Geerts 1970: 136].

'Are'are (Waiahaa): Tryon & Hackman 1983: 341. Cf. *sisiuʔa* 'cold, fresh' [Geerts 1970: 113]; *wa:siuʔa* 'cold / stop hurting (of pain)' [Geerts 1970: 139].

16. COME

'Are'are (Ma'asupa) *rae-mai* (1), 'Are'are (Waiahaa) *ra:-mai* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 401. The root is the same as in 'go' q.v. Cf. *ra-mai* 'come here!' [Geerts 1970: 94].

'Are'are (Waiahaa): Tryon & Hackman 1983: 401. The root is the same as in 'go' q.v.

17. DIE

'Are'are (Ma'asupa) *mae* (1), 'Are'are (Waiahaa) *maeha* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 429. Cf. *ma:e* 'unconscious, faint, ill, die, paralysed, numb' [Geerts 1970: 57]; another word with the meaning 'to die' is *paoʔoroa* [Geerts 1970: 84].

'Are'are (Waiahaa): Tryon & Hackman 1983: 429.

18. DOG

'Are'are (Ma'asupa) *kukui* (1), 'Are'are (Waiahaa) *ki:* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 173. Cf. *kui ~ kui-kui ~ kukui* 'dog' [Geerts 1970: 55].

'Are'are (Waiahaa): Tryon & Hackman 1983: 173.

19. DRINK

'Are'are (Ma'asupa) *ino* (1), 'Are'are (Waiahaa) *koʔuha* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 429.

'Are'are (Waiahaa): Tryon & Hackman 1983: 429. Cf. *koʔu-a* 'to drink' [Geerts 1970: 55].

20. DRY

'Are'are (Ma'asupa) *aʔ=ate* (1), 'Are'are (Waiahaa) *ake-ake* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 345. Partial reduplication. Cf. *aʔ=ate* ~ *?ateʔate* 'dry' [Geerts 1970: 1, 14]. Cf. also the verbal stem *aʔake* 'to be dry, dried by the sun' [ibid.]; *?aʔai* 'dried by the sun; stiff' [ibid.]; *?ake-ʔake* 'dry, dried by the sun' [Geerts 1970: 4]; *hute-hute* 'dry' [Geerts 1970: 41]; *nate-nate* 'dry' [Geerts 1970: 72].

'Are'are (Waiahaa): Tryon & Hackman 1983: 345. Reduplicated stem.

21. EAR

'Are'are (Ma'asupa) *arina-na* (1), 'Are'are (Waiahaa) *roroa-na* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 145. Cf. *arina-na* 'ear' [Geerts 1970: 11].

'Are'are (Waiahaa): Tryon & Hackman 1983: 145. Cf. *roroa-na* 'ear' [Geerts 1970: 105].

22. EARTH

'Are'are (Ma'asupa) *makano* (1), 'Are'are (Waiahaa) *mako* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 249. Cf. *makano* 'soil, ground, earth, land, dust' [Geerts 1970: 59].

'Are'are (Waiahaa): Tryon & Hackman 1983: 249. Cf. *mako* 'soil, ground, earth, land, dust' [Geerts 1970: 59].

23. EAT

'Are'are (Ma'asupa) *nau* (1), 'Are'are (Waiahaa) *hanaha* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 429.

'Are'are (Waiahaa): Tryon & Hackman 1983: 429. Cf. *hana* 'to eat' [Geerts 1970: 29].

24. EGG

'Are'are (Ma'asupa) *apotona* (1), 'Are'are (Waiahaa) *apota* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 145.

'Are'are (Waiahaa): Tryon & Hackman 1983: 145. Cf. *apota* 'egg' [Geerts 1970: 9].

25. EYE

'Are'are (Ma'asupa) *ma:-na* (1), 'Are'are (Waiahaa) *ma:-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 145. Cf. *ma:-na* 'eye / face / front' [Geerts 1970: 61].

'Are'are (Waiahaa): Tryon & Hackman 1983: 145.

26. FAT N.

'Are'are (Ma'asupa) *pi?a* # (1), 'Are'are (Waiahaa) *momo-na* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 149. Cf. *pi?a* 'to be fat (of persons, animals, and fruit)' [Geerts 1970: 88].

'Are'are (Waiahaa): Tryon & Hackman 1983: 149. Cf. *momo-na* 'fat, of meat' [Geerts 1970: 68].

27. FEATHER

'Are'are (Ma'asupa) *warahu-na* (1), 'Are'are (Waiahaa) *uhuhu* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 149. Polysemy: 'feather / body hair'. Cf. *warahu-na* ~ *warauhu-na* 'hair', *warahuna pau-na* 'scalp hair' [Geerts 1970: 138].

'Are'are (Waiahaa): Tryon & Hackman 1983: 149.

28. FIRE

'Are'are (Ma'asupa) *su:na* (1), 'Are'are (Waiahaa) *suna* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 269. Cf. *su:na* 'fire, firestick' [Geerts 1970: 114].

'Are'are (Waiahaa): Tryon & Hackman 1983: 269.

29. FISH

'Are'are (Ma'asupa) *waisi?a* (1), 'Are'are (Waiahaa) *marika* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 177. Cf. *waisi* 'fish' [Geerts 1970: 137]; *waisi?a* in such compounds as *waisi?a ni aisi* 'fish, sea animal', *waisi?a ni hanua* 'land animal' [Geerts 1970: 137]. Cf. also *i?a* 'fish' [Geerts 1970: 41].

'Are'are (Waiahaa): Tryon & Hackman 1983: 177.

30. FLY V.

'Are'are (Ma'asupa) *roho* (1), 'Are'are (Waiahaa) *rohoha* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 421. Cf. *roho* 'to fly' [Geerts 1970: 104].

'Are'are (Waiahaa): Tryon & Hackman 1983: 421.

31. FOOT

'Are'are (Ma'asupa) *aʔe-na* (1), 'Are'are (Waiahaa) *aʔe-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 153. The meaning is given as 'leg'. Cf. *aʔe-na* 'leg, foot' [Geerts 1970: 1].

'Are'are (Waiahaa): Tryon & Hackman 1983: 153. The meaning is given as 'leg'.

32. FULL

'Are'are (Ma'asupa) *honu* (1), 'Are'are (Waiahaa) *honu* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 349. Cf. *honu* 'full' [Geerts 1970: 37] (also *iroi* [Geerts 1970: 45]).

'Are'are (Waiahaa): Tryon & Hackman 1983: 349.

33. GIVE

'Are'are (Ma'asupa) *ni-a* (1), 'Are'are (Waiahaa) *wateha* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 381. Cf. *ni-a* 'to give', *niʔi-a* 'to give, present, distribute' [Geerts 1970: 73].

'Are'are (Waiahaa): Tryon & Hackman 1983: 381. Cf. *wate-a* 'give (the thing given has not to be returned to the donor, as opposed to *ta:*)' [Geerts 1970: 140].

34. GOOD

'Are'are (Ma'asupa) *siani* (1), 'Are'are (Waiahaa) *sena* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 337. Cf. *siani* 'good, well, proper, accurate, prosperous' [Geerts 1970: 109]; cf. also *mahu* 'well, good' [Geerts 1970: 58].

'Are'are (Waiahaa): Tryon & Hackman 1983: 337. Secondary synonym: *rete* (less archaic).

35. GREEN

'Are'are (Ma'asupa) *kirakira?*a (1), 'Are'are (Waiahaa) *warawarawa?*a (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 333.

'Are'are (Waiahaa): Tryon & Hackman 1983: 333. Cf. *marawa* 'green / unripe' [Geerts 1970: 63]; *mamarana* ~ *mamarawa?*a 'green / greenish' [Geerts 1970: 60].

36. HAIR**References and notes:**

'Are'are (Ma'asupa): Not attested. ([Tryon & Hackman 1983] only has an entry for 'body hair'). Cf. *u:hu* ~ *u:hu-na* 'hair, feathers' [Geerts 1970: 132].

'Are'are (Waiahaa): Not attested. ([Tryon & Hackman 1983] only has an entry for 'body hair').

37. HAND

'Are'are (Ma'asupa) *kaika?*i-na (1), 'Are'are (Waiahaa) *ki?iki?*i-na (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 137. The meaning is given as 'arm'. Cf. *ka?ika?*i-na 'arm, hand' [Geerts 1970: 46]; *?ai?ai-na* 'arm' [Geerts 1970: 3].

'Are'are (Waiahaa): Tryon & Hackman 1983: 137. The meaning is given as 'arm'.

38. HEAD

'Are'are (Ma'asupa) *pau-na* (1), 'Are'are (Waiahaa) *rahu-na* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 153. Cf. *pau-na* 'head, skull' [Geerts 1970: 87].

'Are'are (Waiahaa): Tryon & Hackman 1983: 153.

39. HEAR

'Are'are (Ma'asupa) *rono* (1), 'Are'are (Waiahaa) *panoroha* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 429. Cf. *noro-a* 'hear, hear tidings of, understand' [Geerts 1970: 75].

'Are'are (Waiahaa): Tryon & Hackman 1983: 429.

40. HEART

'Are'are (Ma'asupa) *sae-na* (1), 'Are'are (Waiahaa) *rae-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 153.

'Are'are (Waiahaa): Tryon & Hackman 1983: 153. Cf. *rae-na* 'stomach, heart, liver, lungs, womb, mind, seat of affections, intention, will' [Geerts 1970: 94]. Cf. also *tou-na* 'heart; the core, heart, middle of something' [Geerts 1970: 131].

41. HORN

References and notes:

'Are'are (Ma'asupa): Not attested. (The word may not exist in the language, as is typical of Austronesian).

'Are'are (Waiahaa): Not attested. (The word may not exist in the language, as is typical of Austronesian).

42. I

'Are'are (Ma'asupa) *inau* (1), 'Are'are (Waiahaa) *inau* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 285. Cf. *inau* 'I' [Geerts 1970: 5]; this is the fully autonomous form, used as subject and object; cf. also the truncated form *nau* 'I, me' [Geerts 1970: 72]. In bound usage, *aku* [Geerts 1970: 5] is used instead.

'Are'are (Waiahaa): Tryon & Hackman 1983: 285.

43. KILL

'Are'are (Ma'asupa) *horo?ia* (1), 'Are'are (Waiahaa) *wa?iha* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 385. Cf. *horo ~ horo?i-a* 'beat / strike / kill / win in games' [Geerts 1970: 37].

'Are'are (Waiahaa): Tryon & Hackman 1983: 385. Cf. *wa?i-a* 'to kill, beat' [Geerts 1970: 137].

44. KNEE

'Are'are (Ma'asupa) *uru:ru?ana* (1), 'Are'are (Waiahaa) *uru:ruana* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 153. Cf. *uru:ru-na ~ uru:rua-na* 'knee' [Geerts 1970: 134].

'Are'are (Waiahaa): Tryon & Hackman 1983: 153.

45. KNOW

'Are'are (Ma'asupa) *saea* (1), 'Are'are (Waiahaa) *raea* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 413.

'Are'are (Waiahaa): Tryon & Hackman 1983: 413. Cf. *rai-a* 'know / understand' [Geerts 1970: 95]. Cf. also *mata?ini-a* [Geerts 1970: 65] 'to know, to be told, to hear (of news)'.

46. LEAF

'Are'are (Ma'asupa) *?a?apa-na* (1), 'Are'are (Waiahaa) *po?ere* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 201. Cf. *apa-na ~ apa:pa-na ~ apa:-pai* 'leaf / wing / fin' [Geerts 1970: 8].

'Are'are (Waiahaa): Tryon & Hackman 1983: 201. Cf. *po?ore* 'leaf' [Geerts 1970: 91].

47. LIE

'Are'are (Ma'asupa) *eno* (1), 'Are'are (Waiahaa) *eno* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 433. Meaning given as 'to lie down'. Cf. *eno* 'to lie' [Geerts 1970: 17].

'Are'are (Waiahaa): Tryon & Hackman 1983: 433. Meaning given as 'to lie down'.

48. LIVER

'Are'are (Ma'asupa) *sae ?ou?ohuna* (1), 'Are'are (Waiahaa) *rae-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 157. The first morpheme *sae* = 'heart' q.v.

'Are'are (Waiahaa): Tryon & Hackman 1983: 157. Polysemy: 'heart / liver'.

49. LONG

'Are'are (Ma'asupa) *teva* (1), 'Are'are (Waiahaa) *?ewa* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 353.

'Are'are (Waiahaa): Tryon & Hackman 1983: 353. Cf. *ewa* 'long / tall / high' [Geerts 1970: 18]. Cf. also *atara* id. [Geerts 1970: 14].

50. LOUSE

'Are'are (Ma'asupa) *?u:* (1), 'Are'are (Waiahaa) *?u:* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 181. Cf. *u:* 'louse, flea' [Geerts 1970: 131].

'Are'are (Waiahaa): Tryon & Hackman 1983: 181.

51. MAN

'Are'are (Ma'asupa) *mane* (1), 'Are'are (Waiahaa) *mane* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 221. Cf. *ma:ne* 'a male, of humans and animals, and birds; man, boy' [Geerts 1970: 61].

'Are'are (Waiahaa): Tryon & Hackman 1983: 221.

52. MANY

'Are'are (Ma'asupa) *hito?o* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 305. Cf. *hita* 'how much, how many?' [Geerts 1970: 35].

'Are'are (Waiahaa): Not attested. Cf. *uvera* 'much, many' [Geerts 1970: 136].

53. MEAT

'Are'are (Ma'asupa) *manitana* (1), 'Are'are (Waiahaa) *hinasu* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 157.

'Are'are (Waiahaa): Tryon & Hackman 1983: 157. Cf. *hinasu-na* 'flesh' [Geerts 1970: 33].

54. MOON

'Are'are (Ma'asupa) *waro-waro* (1), 'Are'are (Waiahaa) *hura* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 281. Reduplicated stem. Cf. *waro* 'moon' [Geerts 1970: 139].

'Are'are (Waiahaa): Tryon & Hackman 1983: 281. Cf. *hura* 'moon / month (lunar)' [Geerts 1970: 40].

55. MOUNTAIN

'Are'are (Ma'asupa) *ire* (1), 'Are'are (Waiahaa) *ire* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 253. Cf. *ire* 'hill, mountain' [Geerts 1970: 44].

'Are'are (Waiahaa): Tryon & Hackman 1983: 253.

56. MOUTH

'Are'are (Ma'asupa) *wawa-na* (1), 'Are'are (Waiahaa) *nusu-na* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 157. Cf. *owa-na* ~ *wawa:-na* ~ *wowa-na* 'mouth' [Geerts 1970: 82, 140, 141]; *wowana* 'beak, opening, hole' [Geerts 1970: 141].

'Are'are (Waiahaa): Tryon & Hackman 1983: 157. Cf. *nisu-na* 'mouth' [Geerts 1970: 74].

57. NAME

'Are'are (Ma'asupa) *sasa-na* (1), 'Are'are (Waiahaa) *rata-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 233. Cf. *tata-na* 'name' [Geerts 1970: 124].

'Are'are (Waiahaa): Tryon & Hackman 1983: 233. Cf. *ratai* ~ *rata-na* 'name' [Geerts 1970: 100].

58. NECK

'Are'are (Ma'asupa) *rua-na* (1), 'Are'are (Waiahaa) *rua-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 161. Cf. *rua-na* 'throat, neck, back' [Geerts 1970: 107].

'Are'are (Waiahaa): Tryon & Hackman 1983: 161.

59. NEW

'Are'are (Ma'asupa) *haoru* (1), 'Are'are (Waiahaa) *haoru* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 357. Cf. *haoru* 'new' [Geerts 1970: 29].

'Are'are (Waiahaa): Tryon & Hackman 1983: 357.

60. NIGHT

'Are'are (Ma'asupa) *hau=roto* (1), 'Are'are (Waiahaa) *meʔetani* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 261. Cf. *roto* 'to be dark, night' [Geerts 1970: 106]. Cf. *hairiponi* 'night' [Geerts 1970: 27] (probably a different word).

'Are'are (Waiahaa): Tryon & Hackman 1983: 261. Cf. *metani* 'night' [Geerts 1970: 67].

61. NOSE

'Are'are (Ma'asupa) *pano-na* (1), 'Are'are (Waiahaa) *pano-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 161. Cf. *pano-na* 'nose, nostril' [Geerts 1970: 84].

'Are'are (Waiahaa): Tryon & Hackman 1983: 161.

62. NOT**References and notes:**

'Are'are (Ma'asupa): Not attested. Cf. *mai* 'not' [Geerts 1970: 58].

'Are'are (Waiahaa): Not attested.

63. ONE

'Are'are (Ma'asupa) *e:ta* (1), 'Are'are (Waiahaa) *e:ta* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 125. Cf. *ta?ai* 'one' [Geerts 1970: 117].

'Are'are (Waiahaa): Tryon & Hackman 1983: 125.

64. PERSON

'Are'are (Ma'asupa) *i=noni* (1), 'Are'are (Waiahaa) *noni* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 221. Cf. *i=noni* 'person' [Geerts 1970: 44]. Morphologically related form: *noni-ha* 'human, man, people' [Geerts 1970: 75]. Cf. also *ara* 'man, in general' [Geerts 1970: 9].

'Are'are (Waiahaa): Tryon & Hackman 1983: 221.

65. RAIN

'Are'are (Ma'asupa) *nemo* (1), 'Are'are (Waiahaa) *u:ta* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 277. Cf. *nemo* 'rain / to rain' [Geerts 1970: 72].

'Are'are (Waiahaa): Tryon & Hackman 1983: 277. Cf. *uta* 'to rain', *uta ni mae ~ uta umae* 'torrential rain' [Geerts 1970: 135].

66. RED

'Are'are (Ma'asupa) *memera?a* (1), 'Are'are (Waiahaa) *nonorohi?a* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 333. Cf. *ahamera?a* 'red' [Geerts 1970: 2].

'Are'are (Waiahaa): Tryon & Hackman 1983: 333. Cf. *nonorohi?a* 'red' [Geerts 1970: 75].

67. ROAD

'Are'are (Ma'asupa) *tara* (1), 'Are'are (Waiahaa) *tara* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 257. Cf. *ta:ra* 'track, pathway, road' [Geerts 1970: 121].

'Are'are (Waiahaa): Tryon & Hackman 1983: 257.

68. ROOT

'Are'are (Ma'asupa) *?i?imi-na* (1), 'Are'are (Waiahaa) *iki?iki* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 201. Cf. *imi-imy-na ~ imi-si* 'root' [Geerts 1970: 43].

'Are'are (Waiahaa): Tryon & Hackman 1983: 201. Cf. *iki-na ~ ina-na* 'root' [Geerts 1970: 42, 43].

69. ROUND

References and notes:

'Are'are (Ma'asupa): Not attested. Cf. *?ere-?ere* 'round' [Geerts 1970: 17]; cf. also *kakapona* id. [Geerts 1970: 47].

'Are'are (Waiahaa): Not attested.

70. SAND

'Are'are (Ma'asupa) *o:ne* (1), 'Are'are (Waiahaa) *o:ne* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 257. Cf. *o:ne* 'sand / beach' [Geerts 1970: 79].

'Are'are (Waiahaa): Tryon & Hackman 1983: 257.

71. SAY

'Are'are (Ma'asupa) *unua* (1), 'Are'are (Waiahaa) *iria* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 417. Cf. *unu:nu* 'tell, say, recount' [Geerts 1970: 133].

'Are'are (Waiahaa): Tryon & Hackman 1983: 417. Cf. *iri-a* 'say' [Geerts 1970: 45].

72. SEE

'Are'are (Ma'asupa) *riosia* (1), 'Are'are (Waiahaa) *resia* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 433. Cf. *rio ~ rio-rio ~ ririo* 'see, look, to be awake' [Geerts 1970: 103].

'Are'are (Waiahaa): Tryon & Hackman 1983: 433. Cf. *resi-a* 'see, understand, find' [Geerts 1970: 102].

73. SEED

'Are'are (Ma'asupa) ?u?u-na (1), 'Are'are (Waiahaa) ?u?u (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 201. Cf. *huhua-na* 'seeds, of fruits' [Geerts 1970: 39]; *?u?u* 'a round object; stone of fruit' [Geerts 1970: 135]; *?u?u?i* 'seed' [Geerts 1970: 135]; *?u?u-na* 'seed, stone (of fruit); a round object' [Geerts 1970: 136]. Cf. also *popo-na* 'seed, stone (of fruit)' [Geerts 1970: 91].

'Are'are (Waiahaa): Tryon & Hackman 1983: 201.

74. SIT

'Are'are (Ma'asupa) *i?o* (1), 'Are'are (Waiahaa) *to?oru* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 437.

'Are'are (Waiahaa): Tryon & Hackman 1983: 437. Cf. *toru ~ to?oru* 'sit, be seated, sit down' [Geerts 1970: 130].

75. SKIN

'Are'are (Ma'asupa) *hinasuna* (1), 'Are'are (Waiahaa) *sisima-na* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 161. Cf. *hoho?a-na* 'skin' [Geerts 1970: 36] (probably a different word).

'Are'are (Waiahaa): Tryon & Hackman 1983: 161.

76. SLEEP

'Are'are (Ma'asupa) *ma?ahu* (1), 'Are'are (Waiahaa) *ma?asu* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 437. Cf. *ma?asu ~ mahu ~ mo?osu* [Geerts 1970: 57, 58, 68]. Cf. also *mareo* id. [Geerts 1970: 64]; *mauru* id. [Geerts 1970: 66].

'Are'are (Waiahaa): Tryon & Hackman 1983: 437.

77. SMALL

'Are'are (Ma'asupa) *maimai* (1), 'Are'are (Waiahaa) *masike* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 341. Secondary synonym: *momaru* (less archaic). Cf. *mememe* 'small' [Geerts 1970: 67]; *momoru ~ moru-moru* id. [Geerts 1970: 68].

'Are'are (Waiahaa): Tryon & Hackman 1983: 341. Cf. *masiʔe* ~ *masike* [Geerts 1970: 64, 65].

78. SMOKE

'Are'are (Ma'asupa) *tasu* (1), 'Are'are (Waiahaa) *rasu* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 273.

'Are'are (Waiahaa): Tryon & Hackman 1983: 273. Cf. *rasu* 'to smoke (of fire)' [Geerts 1970: 99].

79. STAND

'Are'are (Ma'asupa) *ura* (1), 'Are'are (Waiahaa) *u:ra* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 441. Cf. *ura* 'stand (up)' [Geerts 1970: 133].

'Are'are (Waiahaa): Tryon & Hackman 1983: 441.

80. STAR

'Are'are (Ma'asupa) *?u?uma:he?u* (1), 'Are'are (Waiahaa) *puru-puru* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 285.

'Are'are (Waiahaa): Tryon & Hackman 1983: 285. Cf. *puru-puru* 'star' [Geerts 1970: 93].

81. STONE

'Are'are (Ma'asupa) *hau* (1), 'Are'are (Waiahaa) *hau* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 257. Cf. *hau* 'stone' [Geerts 1970: 31].

'Are'are (Waiahaa): Tryon & Hackman 1983: 257.

82. SUN

'Are'are (Ma'asupa) *saso* (1), 'Are'are (Waiahaa) *rato* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 281.

'Are'are (Waiahaa): Tryon & Hackman 1983: 281. Cf. *rato* 'sun, sunshine' [Geerts 1970: 100].

83. SWIM

'Are'are (Ma'asupa) *o:roha* (1), 'Are'are (Waiahaa) *para?au* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 409. Cf. *oro* 'swim, dive' [Geerts 1970: 81].

'Are'are (Waiahaa): Tryon & Hackman 1983: 409.

84. TAIL

'Are'are (Ma'asupa) *kuku?i-na* (1), 'Are'are (Waiahaa) *ki?iki?i-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 165. Cf. *kukui-na* ~ *?u?ui-na* 'tail' [Geerts 1970: 55, 136] (distinct from *pere-pere-na* 'tail of fish' [Geerts 1970: 88]).

'Are'are (Waiahaa): Tryon & Hackman 1983: 165.

85. THAT

References and notes:

'Are'are (Ma'asupa): Not attested.

'Are'are (Waiahaa): Not attested.

86. THIS

'Are'are (Ma'asupa) *?eto* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 305.

'Are'are (Waiahaa): Not attested. Cf. *ine?e* ~ *ino?o* 'this' [Geerts 1970: 43, 44].

87. THOU

'Are'are (Ma'asupa) *i?oe* (1), 'Are'are (Waiahaa) *i?o* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 285. Cf. *i?o* 'thou' [Geerts 1970: 44], as well as the abbreviated variant: *?o* [Geerts 1970: 77].

'Are'are (Waiahaa): Tryon & Hackman 1983: 285.

88. TONGUE

'Are'are (Ma'asupa) *mea-na* (1), 'Are'are (Waiahaa) *mea-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 165. Cf. *mea-na* 'tongue' [Geerts 1970: 66].

'Are'are (Waiahaa): Tryon & Hackman 1983: 165.

89. TOOTH

'Are'are (Ma'asupa) *niho-na* (1), 'Are'are (Waiahaa) *niho-na* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 165. Cf. *niho-na* 'tooth' [Geerts 1970: 73].

'Are'are (Waiahaa): Tryon & Hackman 1983: 165.

90. TREE

'Are'are (Ma'asupa) *?ai* (1), 'Are'are (Waiahaa) *?ai* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 201. Cf. *?ai* 'tree / wood' [Geerts 1970: 3].

'Are'are (Waiahaa): Tryon & Hackman 1983: 201. Secondary synonym: *mahika* [ibid.].

91. TWO

'Are'are (Ma'asupa) *rua* (1), 'Are'are (Waiahaa) *rua* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 125. Cf. *rua* 'two' [Geerts 1970: 107].

'Are'are (Waiahaa): Tryon & Hackman 1983: 125.

92. WALK (GO)

'Are'are (Ma'asupa) *ra ~ rae* (1), 'Are'are (Waiahaa) *ra:* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 405. Cf. *ra ~ rae* 'go' [Geerts 1970: 94].

'Are'are (Waiahaa): Tryon & Hackman 1983: 405.

93. WARM (HOT)

'Are'are (Ma'asupa) *raraka* (1), 'Are'are (Waiahaa) *rakaraka* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 341. (Meaning is given as 'warm').

'Are'are (Waiahaa): Tryon & Hackman 1983: 341. (Meaning is given as 'warm'). Cf. *raka-raka* 'hot' [Geerts 1970: 96].

94. WATER

'Are'are (Ma'asupa) *wai* (1), 'Are'are (Waiahaa) *kahu* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 285. Cf. *wai* 'fresh water (as opposed to a:si sea water); moisture, sap, juice; river' [Geerts 1970: 137].

'Are'are (Waiahaa): Tryon & Hackman 1983: 285. Cf. *kahu* 'water' [Geerts 1970: 46].

95. WE₁

'Are'are (Ma'asupa) *i=koru* (1), 'Are'are (Waiahaa) *i=koru* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 289. Inclusive form. Cf. *i=koru* 'we (incl.)' [Geerts 1970: 43]. Also attested in the simplified variant *koru* [Geerts 1970: 5] and the dual number form *kura* [Geerts 1970: 56]. Variant: *i=kia* [Geerts 1970: 42].

'Are'are (Waiahaa): Tryon & Hackman 1983: 289. Inclusive form. Variant: *i=kia* [ibid.].

95. WE₂

'Are'are (Ma'asupa) *i=?emi* (2), 'Are'are (Waiahaa) *i=?ami* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 289. Exclusive form. Cf. *i=?ami* 'we (excl.)' [Geerts 1970: 5, 41]. Also attested in the simplified variant *?ami* [Geerts 1970: 5]. Cf. also the dual variant: *erua* 'we two, the two of us' [Geerts 1970: 17].

'Are'are (Waiahaa): Tryon & Hackman 1983: 289. Exclusive form. Variant (probably dual): *i=?eru*.

96. WHAT

'Are'are (Ma'asupa) *a=ta:* (1), 'Are'are (Waiahaa) *ari=ta:* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 309. Cf. *a=ta?i* 'what?' [Geerts 1970: 14]; *?u=ta:* 'what?' [Geerts 1970: 135].

'Are'are (Waiahaa): Tryon & Hackman 1983: 309.

97. WHITE

'Are'are (Ma'asupa) *?e?eke?a* (1), 'Are'are (Waiahaa) *paparahi?a* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 337. Secondary synonym: *papara?a*. (Deemed secondary only because *?e?eke?a* has better external parallels).

'Are'are (Waiahaa): Tryon & Hackman 1983: 337. Cf. *para-para ~ para-para-?a ~ para-para-hia ~ pare-pare-a* 'white' [Geerts 1970: 85].

98. WHO

'Are'are (Ma'asupa) *a=tei* (1), 'Are'are (Waiahaa) *a=tai* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 313. Cf. *te* 'who' [Geerts 1970: 125] (e. g. in *te raia* "who knows"); *tei* 'who' [ibid.].

'Are'are (Waiahaa): Tryon & Hackman 1983: 313.

99. WOMAN

'Are'are (Ma'asupa) *ke:ni* (1), 'Are'are (Waiahaa) *keni* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 221. Cf. *keni* 'female, woman' [Geerts 1970: 50].

'Are'are (Waiahaa): Tryon & Hackman 1983: 221.

100. YELLOW

'Are'are (Ma'asupa) *sa?isa?i-ra* (1), 'Are'are (Waiahaa) *ko?ako?a-ra* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 337.

'Are'are (Waiahaa): Tryon & Hackman 1983: 337. Cf. *popora* 'become yellow' [Geerts 1970: 91].

101. FAR

'Are'are (Ma'asupa) *ririʔi* (1), 'Are'are (Waiahaa) *haʔitau* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 349. Cf. *ririʔi* 'far, far off, far away, remote, distant' [Geerts 1970: 103].

'Are'are (Waiahaa): Tryon & Hackman 1983: 349.

102. HEAVY

'Are'are (Ma'asupa) *hiʔa-raʔi* (1), 'Are'are (Waiahaa) *hiʔa* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 365.

'Are'are (Waiahaa): Tryon & Hackman 1983: 365. Cf. *hiʔa* 'heavy / pregnant' [Geerts 1970: 33]. Cf. also *kuruʔa* 'heavy, pregnant, rich' [Geerts 1970: 56].

103. NEAR

'Are'are (Ma'asupa) *karaʔini* (1), 'Are'are (Waiahaa) *karahini* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 349.

'Are'are (Waiahaa): Tryon & Hackman 1983: 349. Cf. *hatari-a* 'near' [Geerts 1970: 31]. Cf. also *toʔoto:mana* 'close, near' [Geerts 1970: 128].

104. SALT

References and notes:

'Are'are (Ma'asupa): Not attested.

'Are'are (Waiahaa): Not attested.

105. SHORT

'Are'are (Ma'asupa) *koʔokoʔo-su* (1), 'Are'are (Waiahaa) *kokoʔu-si* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 353. Cf. *kokoʔo-si* 'short, small, low' [Geerts 1970: 53] (same root as *kokoʔo* 'old (of humans)' [ibid.]?).

'Are'are (Waiahaa): Tryon & Hackman 1983: 353.

106. SNAKE

'Are'are (Ma'asupa) *wa:* (1), 'Are'are (Waiahaa) *ma:* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 193.

'Are'are (Waiahaa): Tryon & Hackman 1983: 193. Cf. *ma:* 'snake' [Geerts 1970: 56].

107. THIN

'Are'are (Ma'asupa) *marau* (1), 'Are'are (Waiahaa) *maihihu* (2).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 361. Cf. *matau* 'sharp; thin, of things' [Geerts 1970: 65]. Cf. also various other synonyms with the meaning glossed as 'thin': *a?ahaea* [Geerts 1970: 1]; *hapa-hapaa:* [Geerts 1970: 29]; *masike* [Geerts 1970: 65] (same word as 'small' q.v.).

'Are'are (Waiahaa): Tryon & Hackman 1983: 361.

108. WIND

'Are'are (Ma'asupa) *iru* (1), 'Are'are (Waiahaa) *o:ru* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 281. Cf. *iru* 'wind / to blow (of wind)' [Geerts 1970: 45].

'Are'are (Waiahaa): Tryon & Hackman 1983: 281. Cf. *o:ru* 'wind / air / to blow (of wind)' [Geerts 1970: 81].

109. WORM

References and notes:

'Are'are (Ma'asupa): Not attested.

'Are'are (Waiahaa): Not attested. Cf. *ma:* 'worm' [Geerts 1970: 56]; this is the same word as 'snake' q.v. Cf. also *ma:-suhī* id. [Geerts 1970: 65] (a compound form?).

110. YEAR

'Are'are (Ma'asupa) *harisi* (1), 'Are'are (Waiahaa) *harisi* (1).

References and notes:

'Are'are (Ma'asupa): Tryon & Hackman 1983: 265. Cf. *harisi* 'yam harvest; season of the yam harvest; year (late use)' [Geerts 1970: 30].

'Are'are (Waiahaa): Tryon & Hackman 1983: 265.