

/mΛit/, /meyit/, /mΛyit/, /meyət/, /mΛyət/, /meyit/, /mΛyit/, /meyt/, /mΛyt/, /meiit/, /mΛiit/.

*Semantics.* Though considerable care was taken to obtain matching sememes from one language to another, some error is nevertheless to be expected in this area. Semantic overlap between some of the items of the test list is indicated in the notes to those items. Nouns are cited in singular forms, unless the plural is the only form used (as, for example, with ‘water’ in many languages of the WP phylum); adjectives are cited in masculine singular forms, and numerals in the form used for counting male humans. Verb roots in the majority of these languages are bound forms, and appear as such in the wordlist, stripped of affixes. The morpheme boundary between affixes and root was not always easy to determine, however, and some verb roots given should perhaps be longer or shorter by a phoneme.

*Estimates of Shared Vocabulary.* Each language item is followed by a letter, as an estimate of relationship; items with the same letter count as “shared vocabulary” whether the relationship is one of cognation or borrowing, and items with different letters count as unrelated or “unshared.” In the absence of established sound correspondences, these judgements of relationship were made on the basis of “resemblance” only and are likely to err in some cases on the side of generosity, and in others on the side of miserliness. Thus, the PSV figures in Table 3 should be treated with caution—the more so as the shortened 50-word list here used, consisting of items selected on the basis of reliability of response, is not comparable with other lexicostatistical lists. It is likely that, in general, the PSV figures given here are slightly higher than would be the case after full investigation.

1. ‘man’: 1 mana (a), 2 oma (b), 3 maŋko (a), 4 metene (c), 5 monol (a), 6 ru:til (d), 7 metfaine (c), 8 mitik (c), 9 məsin (c), 10 masin (c), 12 teralkit (e), 13 matei (c), 14 nyiŋkilpən (f), 15 maikən (g), 16 makenti (g), 17 almias (h), 18 məsəmiyen (c), 19 kamwol (i), 20 məsən (c), 21 matan (c), 22 mukun (g), 23 masən (c), 24 mohon (g), 25 eiŋ (j), 26 mik (g), 33 kəmel (i), 35 lamo (k), 36 ramiyan (k), 37 yaŋkai (l), 38 tama (m), 39 tama (m), 40 tama (m), 41 kama (m), 42 ur (n), 43 kam (m), 44 tam (m), 45 wul (n), 46 dw (o), 53 ma (p), 55 ma (p), 56 lu (o), 57 araman (h).
2. ‘woman’: 1 pi:ni (a), 2 pin (a), 3 pəneno (a), 4 mo:to (b), 5

matal (b), 6 wapur (c), 7 kulum (d), 8 mite (b), 9 matei (b), 10 na<sup>2</sup> aipi (e), 12 yu: (f), 13 nusakei (g), 14 kekəntə (h), 15 asək (i), 16 simi (j), 17 wasi (k), 18 ri (i), 19 wukora (m), 20 nukapyene (a), 21 yukətet (f), 22 nuwot (g), 23 sakwoto (i), 24 nuwete<sup>2</sup> (g), 25 injik (n), 26 tuwei (g), 33 ki:n (o), 35 təlum (p), 36 taləran (p), 37 telou (p), 38 tawa (q), 39 tawa (q), 40 ta: (q), 41 ka (q), 42 sa (q), 43 wik (r), 44 taw (q), 45 tal (q), 46 takwΛ (q), 53 mi:ma (s), 55 nogəpie (t), 56 ere (u), 57 aramatoku (v).

3. 'child':<sup>6</sup> 1 mala (a), 2 awute (b), 3 kantana (c), 4 nəŋke (d), 5 niŋən (d), 6 nini (d), 7 nəfkayə (e), 8 niki (d), 9 kan (c), 10 kiyl (f), 12 wirəŋ (g), 13 kata (c), 14 weruweru (g), 15 pamayen (h), 16 —, 17 wara (g), 18 kat (c), 19 wuko (i), 20 masiyen (j), 21 kanəf (c), 22 kafai (k), 23 fasən (l), 24 anisa (m), 25 lenəŋ (d), 26 təla (n), 33 wariyimp (g), 35 yan (o), 36 yal (o), 37 yan (o), 38 erpam (p), 39 yen (o), 40 yen (o), 41 —, 42 ne (q), 43 isem (r), 44 yon (o), 45 yan (o), 46 ñan (s), 53 yigapa (x), 55 jagri (u), 56 tan (v), 57 bataŋi (w).
4. 'father': 1 aya (a), 2 aya (a), 3 aya (a), 4 yaitei (b), 5 aiye (a), 6 aiye (a), 7 aya (a), 8 xa<sup>2</sup>ai (a), 9 ya (a), 10 ya<sup>2</sup>ai (a), 12 yaki (b), 13 ataya (a), 14 minyal (c), 15 aya (a), 16 ayi (a), 17 yaya (a), 18 yayak (a), 19 noni (d), 20 yaye (a), 21 iji (e), 22 tete (f), 23 kene (g), 24 yinisa (h), 25 ayaŋ (a), 26 yai (a), 33 ya:nt (i), 35 aya (a), 36 ŋayi (a), 37 aya (a), 38 pahai (j), 39 afa (k), 40 ari (l), 41 —, 42 ayo (a), 43 at (m), 44 dadi (n), 45 aya (a), 46 apΛ (k), 53 afəje (k), 55 apuko (k), 56 eya (a), 57 jaken (b).
5. 'mother': 1 ama (a), 2 ama (a), 3 ama (a), 4 ema (a), 5 mukei (b), 6 ama (a), 7 nəmo (c), 8 miye (d), 9 mai (e), 10 na<sup>2</sup>ai (f), 12 nəki (g), 13 nuraya (h), 14 mikan (b), 15 meŋ (i), 16 me (i), 17 kaku (j), 18 mitak (b), 19 nu:ka (k), 20 mama<sup>2</sup> (l), 21 mai (e), 22 nawe<sup>2</sup> (m), 23 səkwoho (n), 24 nuwisa<sup>2</sup> (m), 25 maŋ (i), 26 mam (i), 33 ma:nt (o), 35 ami (a), 36 ŋami (a), 37 ami (a), 38 nawah (m), 39 nawa (m), 40 nawi (m), 41 —, 42 yipe (p), 43 ipi (p), 44 nesa (m), 45 mwok (q), 46 nwΛ (m), 53 auwi (r), 55 nijapa (s), 56 mo (t), 57 jameku (b).
6. 'T': 1 i (a), 2 ki (b), 3 ka (c), 4 ki (b), 5 ki (b), 6 ki (b), 7 ki (b), 8 xi (b), 9 i (a), 10 yi (a), 12 ŋkiye (b), 13 kiy (b), 14 kəməx (c), 15 au (d), 16 am (e), 17 wup (f), 18 ai (g), 19 ku (h), 20 —,

*Languages of Lumi Subdistrict, New Guinea*

- 21 oi (g), 22 ai (g), 23 ki (b), 24 ai (g), 25 —, 26 am (e), 33 ku:pm (i), 35 wan (j), 36 wan (j), 37 wan (j), 38 —, 39 onta (k), 40 an (k), 41 an (k), 42 ha (c), 43 ka (c), 44 nai (l), 45 ŋan (k), 46 wnə (m), 53 an (k), 55 an (k), 56 won (m), 57 eik (n).
7. 'thou': 1 yo (a), 2 yo (a), 3 ay (b), 4 ye (a), 5 ite (a), 6 yi (a), 7 yi (a), 8 ti (c), 9 a (d), 10 pay (e), 12 yi (a), 13 yi (a), 14 kiyox (f), 15 i: (a), 16 yi (a), 17 yit (a), 18 yi (a), 19 yi (a), 20 —, 21 yi (a), 22 is (g), 23 si (g), 24 is (g), 25 —, 26 in (h), 33 ki:tñ (i), 35 yin (h), 36 yin (h), 37 yin (h), 38 —, 39 nura (j), 40 na (k), 41 aran (l), 42 hun (m), 43 ki (n), 44 ti (c), 45 n (k), 46 mənə (o), 53 mə (o), 55 mi (o), 56 ni (k), 57 ɲak (p).
8. 'he': 1 one (a), 2 wo (b), 3 wa (b), 4 le (c), 5 elel (c), 6 rən (d), 7 rən (d), 8 xərak (e), 9 an (f), 10 pan (g), 12 anfin (h), 13 rana (d), 14 tənə (d), 15 —, 16 —, 17 tuwun (i), 18 —, 19 —, 20 —, 21 tən (d), 22 apan (g), 23 ofo (j), 24 apan (g), 25 —, 26 kin (k), 33 kil (k), 35 arpa (l), 36 rei (m), 37 ram (n), 38 —, 39 rura (o), 40 ra (o), 41 —, 42 hi (p), 43 si (p), 44 tor (q), 45 —, 46 də (r), 53 rə (r), 55 or (s), 56 lə (r), 57 anan (a).
9. 'we': 1 mo (a), 2 mo (a), 3 mei (a), 4 ku (b), 5 ku (b), 6 kufu (b), 7 kufu (b), 8 xaiw (c), 9 aw (d), 10 you (e), 12 ŋkam (f), 13 —, 14 kupox (b), 15 amən (g), 16 mən̄ti (g), 17 miyan (h), 18 ep (d), 19 —, 20 —, 21 yep (d), 22 epep (d), 23 əfə (d), 24 apap (d), 25 —, 26 puy (i), 33 ment (g), 35 nam (j), 36 nam (j), 37 nam (j), 38 —, 39 nomra (j), 40 naləm (j), 41 —, 42 hrom (k), 43 kərəma (k), 44 non (l), 45 nu:t (m), 46 nΛnə (l), 53 no (l), 55 ni (n), 56 eim (o), 57 apok (p).
10. 'you': 1 po (a), 2 po (a), 3 pei (a), 4 ife (b), 5 yife (b), 6 yifi (b), 7 yifi (b), 8 yi (b), 9 ü (c), 10 piyou (d), 12 yifi (b), 13 —, 14 kimox (e), 15 yi (b), 16 yimi (b), 17 yip (b), 18 yip (b), 19 —, 20 —, 21 yip (b), 22 ipip (b), 23 si (f), 24 ipip (b), 25 —, 26 ip (b), 33 ki:pm (g), 35 yim (h), 36 am (i), 37 yim (h), 38 —, 39 kumra (j), 40 kaləm (k), 41 —, 42 hom (j), 43 koma (j), 44 nom (k), 45 kun (l), 46 gwnə (l), 53 kuta (l), 55 ji (m), 56 um (n), 57 ipak (b).
11. 'they': 1 none (a), 2 no (a), 3 nei (a), 4 pe (b), 5 elpel (b), 6 rəl (c), 7 rəl (c), 8 xər (d), 9 aral (e), 10 pəram (b), 12 anfal (b),

13 —, 14 təmo (e), 15 may (f), 16 —, 17 ti (g), 18 rəm (e), 19 —, 20 —, 21 təmoŋ (e), 22 apam (h), 23 afa (h), 24 —, 25 —, 26 tiŋ (g), 33 tuw (i), 35 arpam (j), 36 ram (e), 37 atəm (e), 38 —, 39 mura (k), 40 atəm (e), 41 —, 42 hom (l), 43 soma (l), 44 yor (m), 45 ilum (n), 46 dΛy (o), 53 ye (p), 55 may (f), 56 ləm (e), 57 amum (q).

12. 'head': 1 selə (a), 2 sela (a), 3 səkon (b), 4 u:ru (c), 5 palau (d), nülü (e), 7 lülü (e), 8 faʔan (f), 9 ariyi (g), 10 waʔal (h), 12 pale (d), 13 peine (d), 14 peləf (d), 15 —, 16 wantu (h), 17 wah (h), 18 wotuf (h), 19 paikwa (i), 20 etwun (j), 21 paroŋ (d), 22 wuntəf (h), 23 —, 24 utüwe (c), 25 emen (k), 26 ntoh (e), 33 ləŋkəp (m), 35 nouraka (n), 36 makəlak (o), 37 moulaka (p), 38 taraʔwey (q), 39 terfa (q), 40 tara (q), 41 —, 42 makwe (o), 43 mu (p), 44 towam (r), 45 makələ (o), 46 makΛ (o), 53 masək (s), 55 masiki (s), 56 magu (o), 57 berag (d).

13. 'eye':<sup>7</sup> 1 namla (a), 2 naməna (a), 3 nəŋka (a), 4 lüs (b), 5 —, 6 kwuriyaf (c), 7 kwutiyane (c), 8 naʔan (a), 9 nap (a), 10 namək (a), 12 yampax (a), 13 napaka (a), 14 yilp (d), 15 nəmalal (a), 16 yolta (d), 17 yilkŋum (d), 18 nampəkāt (a), 19 juwol (e), 20 napə (a), 21 oi (f), 22 nampəl (a), 23 satoʔ (g), 24 napelkə (a), 25 yempit (d), 26 ampep (h), 33 i:kŋ (i), 35 nowar (k), 36 nü (j), 37 noulaka (j), 38 niaʔwey (j), 39 lakwo (k), 40 la (k), 41 la (k), 42 nanε (l), 43 nu (j), 44 li (m), 45 nai (j), 46 myny (n), 53 mi: (n), 55 məsokome (o), 56 eno (p), 57 nabep (a).

14. 'nose': 1 suwla (a), 2 sülü (a), 3 sünü (a), 4 minopoŋko (b), 5 —, 6 minit (c), 7 minityu (c), 8 yipwur (d), 9 nupuŋk (e), 10 nəfənək (e), 12 maləx (f), 13 malka (g), 14 təlom (h), 15 mipan (i), 16 mup (i), 17 yimwar (d), 18 minif (c), 19 tuwarka (a), 20 mohau (j), 21 luwet (k), 22 ruwot (k), 23 suwopən (k), 24 luweka (k), 25 wujipen (l), 26 muhron (m), 33 ləmp (n), 35 wolokə (o), 36 witol (p), 37 waklaka (q), 38 fikihinwi (r), 39 wiliŋki (o), 40 raŋki (s), 41 haŋki (s), 42 kasan (t), 43 nomwos (u), 44 boliŋ (v), 45 yimeʔ (w), 46 tamΛ (x), 53 sumwonj (y), 55 miñompo (z), 56 nəmala (aa), 57 —.

15. 'ear': 1 tipi (a), 2 təpəli (a), 3 arpan (b), 4 məŋkam (c), 5 ŋipi (d), 6 yampər (e), 7 yapot (e), 8 nikif (f), 9 mək (c), 10 məkər (c), 12 ma (c), 13 ma (c), 14 nuŋkul (g), 15 taŋkən (h), 16 yəŋkole (i), 17 yiŋku:l (i), 18 kik (j), 19 muŋkwalnta (k), 20

## *Languages of Lumi Subdistrict, New Guinea*

nikiw (g), 21 taŋən (h), 22 raŋkun (h), 23 ŋətə (l), 24 rakun (h), 25 wolep (m), 26 kwin (n), 33 nuŋkul (g), 35 məroəlakə (o), 36 ma:nə (p), 37 maklaka (p), 38 wapray (q), 39 namra (r), 40 wan (s), 41 wan (s), 42 nwek (t), 43 wun (s), 44 mam (u), 45 maŋ (u), 46 wan (s) 53 fu: (v), 55 mampla (u), 56 mak (u), 57 atah (h).

16. 'tooth': 1 nala (a), 2 nelə (a), 3 ne:n (a), 4 nelpə (a), 5 nulpo (a), 6 ya:nət (b), 7 yanət (b), 8 yaxas (c), 9 nak (d), 10 na: (d), 12 yaŋkən (c), 13 na:kən (d), 14 nef (d), 15 owayen (e), 16 na (d), 17 awak (e), 18 naf (d), 19 nai (d), 20 panikye (f), 21 panəm (f), 22 paniŋk (f), 23 niŋo (a), 24 parkita (f), 25 nal (a), 26 asep (g), 33 e:k (h), 35 piyapa (i), 36 pilak (i), 37 pilaka (i), 38 pia<sup>2</sup>wey (i), 39 mpi (i), 40 lir (j), 41 rir (j), 42 nas (k), 43 piknu (i), 44 ndəl (l), 45 pu (m), 46 nəby (n), 53 tarəkwi (o), 55 fu (m), 56 pinarə (i), 57 nauḥ (d).
17. 'tongue': 1 alfoi (a), 2 ŋkotelə (b), 3 ŋkoten (b), 4 non (c), 5 yuwaŋ (d), 6 yimyau (e), 7 —, 8 ni:n (c), 9 war (f), 10 wa:r (f), 12 yilwat (d), 13 —, 14 kə:ləp (g), 15 akaŋ (h), 16 aləta (i), 17 yalip (d), 18 wulaf (a), 19 naliya (j), 20 ləhe (k), 21 yansi (d), 22 eləŋkitif (l), 23 life (k), 24 elktife (l), 25 yaŋkəlou (d), 26 —, 33 milip (m), 35 lələmu (n), 36 la:lə (n), 37 lələpi (n), 38 tafəki (o), 39 tawul (p), 40 tawlə (p), 41 kawul (p), 42 sanə (q), 43 kwane (q), 44 taliyen (q), 45 lal (n), 46 təkələ (o), 53 kwunja (p), 55 tarple (r), 56 lar (n), 57 jaham (s).
18. 'arm': 1 meu (a), 2 meu (a), 3 mpen (b), 4 e:təf (c), 5 yisi (d), 6 kwutis (e), 7 kwutil (e), 8 xis (d), 9 pa (f), 10 fe:k (g), 12 rakət (h), 13 rakita (h), 14 pam (f), 15 yitən (d), 16 nuŋku (i), 17 pampam (f), 18 tat (j), 19 kilota (k), 20 lahə (h), 21 laŋ (h), 22 natəŋ (l), 23 paŋin (f), 24 natekya (l), 25 ntal (m), 26 sep (n), 33 wamp (o), 35 yilo (p), 36 yilə (p), 37 yilo (p), 38 yehe (q), 39 lesu (r), 40 lat (s), 41 la:k (s), 42 yiha (q), 43 an (t), 44 yer (p), 45 lalpuk (s), 46 tabΛ (u), 53 ta:pa (u), 55 tapa (u), 56 larə (s), 57 ragər (h).
19. 'breast': 1 nimla (a), 2 mommo (b), 3 momo (b), 4 nemer (a), 5 niman (a), 6 numar (a), 7 nəmar (a), 8 nəm (a), 9 mak (a), 10 ma: (a), 12 mate (a), 13 mata (a), 14 yimaŋkəf (a), 15 yimawoŋ (a), 16 yimá (a), 17 yimán (a), 18 nəmap (a), 19 nəmai (a), 20 mapi (a), 21 maŋ (a), 22 may (a), 23 mapi (a), 24 maka

(a), 25 yimep (a), 26 ampreip (c), 33 ma: (a), 35 mui (d), 36 mui (d), 37 mui (d), 38 muwi (d), 39 muku (d), 40 mukw (d), 41 mukw (d), 42 mu (d), 43 mui (d), 44 muk (d), 45 m (d), 46 mwña (e), 53 muk (d), 55 muku (d), 56 mu (d), 57 —.

20. 'belly': 1 ponna (a), 2 pənalua (a), 3 pənanuwi (a), 4 yūfu (b), 5 tuau (c), 6 təfau (c), 7 təfau (c), 8 tu: (c), 9 su:k (d), 10 nəfalou (e), 12 yimpəx (f), 13 —, 14 kaʔaf (g), 15 yipin (f), 16 —, 17 jiyu (h), 18 nəpi (e), 19 —, 20 səlpəʔ (i), 21 —, 22 wulp (j), 23 kitin (k), 24 wulpa (j), 25 əpum (l), 26 —, 33 ni:k (m), 35 wəy (n), 36 wak (n), 37 ri (o), 38 hum (p), 39 wau (n), 40 kimpur (q), 41 sə (r), 42 swaro (r), 43 mui (s), 44 han (t), 45 məlkai (u), 46 bya (v), 53 mpə (v), 55 seŋku (w), 56 li: (o), 57 —.

21. 'leg': 1 teu (a), 2 teu (a), 3 saten (a), 4 orou (b), 5 tiye (c), 6 kiriu (d), 7 kiriu (d), 8 xət (e), 9 su: (f), 10 yau (g), 12 xuwa (e), 13 walək (h), 14 kelfek (i), 15 aŋ (j), 16 ala (j), 17 rak (k), 18 tip (l), 19 safiel (m), 20 etiyə (c), 21 tiŋ (c), 22 youpep (n), 23 papaŋ (o), 24 itikya (c), 25 araiʔ (j), 26 nihip (p), 33 ne:p (p), 35 lalə (q), 36 rūwe (r), 37 lalə (q), 38 huwa (r), 39 suwa (r), 40 towa (r), 41 sowa (r), 42 sunə (r), 43 wərku (s), 44 su (r), 45 lū (t), 46 man (u), 53 ya:te (v), 55 kumpa (w), 56 li: (t), 57 aijag (g).

22. 'skin': 1 plapi (a), 2 tapio (b), 3 na:ni (c), 4 topo (b), 5 paulou (a), 6 ternan (d), 7 tərkwaf (d), 8 yilik (e), 9 pawar (a), 10 fa:wal (a), 12 pawült (a), 13 pawulta (a), 14 saf (b), 15 yakən (f), 16 wiye (g), 17 yikisiw (h), 18 wiyirk (g), 19 jiwota (i), 20 kirkeʔ (j), 21 purko (k), 22 halip (l), 23 noʔoŋ (m), 24 halipa (l), 25 alou (n), 26 yahreik (h), 33 palək (a), 35 nəpyei (o), 36 yai (p), 37 mouwil (q), 38 fuhum (r), 39 liki (s), 40 was (t), 41 —, 42 ohi (u), 43 pəw (v), 44 mbe (w), 45 pu:k (v), 46 cəpə (x), 53 mampə (y), 55 maume (z), 56 urarə (aa), 57 jageniuh (ab).

23. 'blood':<sup>8</sup> 1 fampwi (a), 2 soli (b), 3 soro (b), 4 təlūs (c), 5 omkol (d), 6 nawe (e), 7 nawan (e), 8 amkra (d), 9 nək (f), 10 ni:kri (f), 12 amkə (d), 13 leŋka (g), 14 komkok (d), 15 səneimpən (h), 16 səna (h), 17 yuwanip (i), 18 amk (d), 19 xaməŋka (d), 20 amkeʔ (d), 21 wuji (j), 22 wiyef (j), 23 kuŋwē (k), 24 wiyefa (j), 25 yalkup (l), 26 wim (m), 33 waləmpop (n), 35 aywi (o), 36 aipi (o), 37 eipi (o), 38 nefum (p), 39 kefu (q), 40 nap (p), 41 nap



(p), 42 nyoh (p), 43 ni (p), 44 noh (p), 45 ni:p (p), 46 ñəky (r), 53 pi (s), 55 fi (s), 56 norə (t), 57 ausibər (u).

24. 'bone': 1 amla (a), 2 kamóya (a), 3 komoyo (a), 4 emio (a), 5 emiŋel (a), 6 kumialen (a), 7 kəmiene (a), 8 xəmik (a), 9 nimik (b), 10 ləmeʔi (b), 12 lakət (b), 13 lakita (b), 14 lekəl (b), 15 lapən (c), 16 pəniŋki (d), 17 yiklia (e), 18 lə (b), 19 kamənaŋkil (a), 20 lokɪ (b), 21 lok (b), 22 yefa (f), 23 loknwě (b), 24 yefa (f), 25 ləp (c), 26 lupuŋ (c), 33 təpmuŋkut (g), 35 lakə (b), 36 lakər (b), 37 lakə (b), 38 yefa (f), 39 yefa (f), 40 yaha (f), 41 —, 42 ayo (h), 43 kew (i), 44 rubwi (j), 45 nəŋolak (k), 46 apɿ (f), 53 hapa (f), 55 hapa (f), 56 lak (b), 57 bələpigər (l).
25. 'sun':<sup>9</sup> 1 ayre (a), 2 kepli (b), 3 ko:fəni (b), 4 epli (b), 5 wopli (b), 6 kwipli (b), 7 kwapli (b), 8 wupli (b), 9 wupli (b), 10 wufliyəx (b), 12 wopli (b), 13 xahi (c), 14 kentief (d), 15 wan (b), 16 wa (b), 17 təkŋan (e), 18 waf (b), 19 wota (b), 20 amwo (f), 21 olok (g), 22 fala (h), 23 watli (b), 24 fala (h), 25 awən (i), 26 nai (j), 33 takəni (e), 35 taliyə (k), 36 may (l), 37 may (l), 38 napuy (m), 39 nampul (m), 40 yampəl (m), 41 yampəl (m), 42 e (n), 43 pi (o), 44 yam (m), 45 mwak (p), 46 ña (q), 53 ya (r), 55 ta (s), 56 wuluwa (t), 57 aun (i).
26. 'moon':<sup>10</sup> 1 anini (a), 2 funmo (b), 3 yinmon (c), 4 ane (a), 5 auniyil (a), 6 nu:lai (d), 7 noulai (d), 8 wunkə (e), 9 uni (a), 10 onyil (a), 12 ouyi (a), 13 aunəxə (a), 14 ke:nyif (f), 15 ayen (a), 16 anyə (a), 17 mərəŋkil (g), 18 wuni (a), 19 uni (a), 20 auniye (a), 21 aune (a), 22 kwonif (f), 23 waluko (h), 24 onifəʔ (f), 25 iyén (i), 26 wantihi (j), 33 kanyil (f), 35 yalma (k), 36 yelmek (k), 37 yalma (k), 38 nefʔa (l), 39 nekwa (l), 40 lup (m), 41 lüp (m), 42 yeny (n), 43 pwan (o), 44 luh (p), 45 yimal (q), 46 bapmw (r), 53 nowəka (l), 55 niyaka (l), 56 yem (q), 57 aun (a).
27. 'star':<sup>11</sup> 1 tosoila (a), 2 kulokula (b), 3 ŋkamsuwap (c), 4 tauru (d), 5 taurul (d), 6 tauru (d), 7 kwurilpət (b), 8 xər (e), 9 nupər (f), 10 nəfrei (f), 12 yampulte (g), 13 miru (h), 14 səmprəŋ (i), 15 towuʔ (d), 16 tam (d), 17 ntul (j), 18 yipos (k), 19 yowampal (g), 20 neputen (f), 21 nifən (f), 22 ŋkalo (l), 23 kipito (m), 24 epun (g), 25 tamər (d), 26 naiŋkwəs (n), 33 kuŋkumemp (o), 35 wawunə (p), 36 wu:p (q), 37 weypa (r), 38 ware (s), 39 ware (s), 40 sow (d), 41 sow (d), 42 napwar (f), 43 nawiyən (f),

44 ndow (d), 45 ajen (t), 46 kwn (u), 53 wuñəmai (v), 55 tašɨŋkra (w), 56 wofu (x), 57 —.

28. 'rain':<sup>12</sup> 1 ti:pəla (a), 2 wu (b), 3 kun (c), 4 nef (d), 5 au (e), 6 yaf (e), 7 yaf (e), 8 xawo (e), 9 ni: (c), 10 ni: (c), 12 ni: (c), 13 won (b), 14 ku: (c), 15 asaŋ (f), 16 suku (g), 17 sulp (g), 18 sup (g), 19 wul (b), 20 mukɨ (h), 21 wus (b), 22 wi (i), 23 kumi (j), 24 wiyə (i), 25 atsou (k), 26 isih (l), 33 huw (c), 35 ila (m), 36 yelə (m), 37 yila (m), 38 huyuy (c), 39 loko (n), 40 mo (o), 41 mow (o), 42 swari (p), 43 ŋaw (q), 44 mey (o), 45 la:k (n), 46 mac (r), 53 wayip (s), 55 ma (o), 56 lau (n), 57 —.
29. 'water':<sup>13</sup> 1 fa:la (a), 2 mi (b), 3 mi: (b), 4 tepe (c), 5 tipel (c), 6 təpal (c), 7 tipal (c), 8 təpar (c), 9 ni: (d), 10 ni: (d), 12 ni: (d), 13 wɨn (e), 14 ku: (f), 15 səpən (c), 16 suku (g), 17 sulp (g), 18 sup (g), 19 wul (e), 20 supɨ (g), 21 sifyer (c), 22 himpel (c), 23 ite (c), 24 hipelə (c), 25 wop (h), 26 pənɨp (i), 33 huw (f), 35 you (j), 36 yüw (i), 37 you (j), 38 oʔwi (f), 39 okwu (f), 40 okw (f), 41 okw (f), 42 hu (f), 43 op (h), 44 yək (j), 45 i:p (k), 46 gw (f), 53 uku (f), 55 uku (f), 56 ijo (l), 57 bər (c).
30. 'ground': 1 piye (a), 2 pe:ki (b), 3 pe:ki (b), 4 tef (c), 5 tau (c), 6 taf (c), 7 takulu (c), 8 tɨ (c), 9 tau (c), 10 tax (c), 12 ũlap (d), 13 waya (c), 14 kep (f), 15 tawən (c), 16 sau (c), 17 tap (c), 18 sap (c), 19 pəlokwo (g), 20 sərka (h), 21 syap (c), 22 hap (c), 23 nehé (i), 24 hapa (c), 25 pələŋ (g), 26 kəkɨp (j), 33 kənok (k), 35 pəlɨr (g), 36 nü (l), 37 lutil (m), 38 hunuy (n), 39 sul (o), 40 sel (o), 41 sel (o), 42 ki (p), 43 nu (l), 44 salbak (o), 45 logwit (q), 46 kəpma (r), 53 nosap (s), 55 misamp (t), 56 nu: (u), 57 —.
31. 'stone': 1 ta:ma (a), 2 tumala (a), 3 to:mu (a), 4 erau (b), 5 talmanəf (a), 6 krapene (c), 7 kranə (c), 8 nan (d), 9 yir (b), 10 xəroi (b), 12 xəte (e), 13 kita (e), 14 kipru (f), 15 səmpeiken (g), 16 ataukə (h), 17 pikiyap (i), 18 et (h), 20 kitámpa (e), 20 alpɨl (j), 21 wotə (k), 22 wətʂf (k), 23 kalkopo (l), 24 paleka (m), 25 əntoʔ (n), 26 yah (o), 33 weit (p), 35 tɨl (q), 36 tɨl (q), 37 tidl (q), 38 hijopey (r), 39 arkwo (s), 40 pa (t), 41 papə (t), 42 mənɨy (u), 43 siya (v), 44 nong (w), 45 tipal (x), 46 matw (y), 53 papa (t), 55 süŋkye (z), 56 lijei (aa), 57 utom (ab).
32. 'wind': 1 ta:pi (a), 2 tatfəla (a), 3 tafəsi (a), 4 yəf (b), 5 yeiyu (b), 6 nampuf (c), 7 kwupiyəf (d), 8 nəma (e), 9 ma (f), 10 maku (f),



*Languages of Lumi Subdistrict, New Guinea*

12 makə (f), 13 makə (f), 14 kəferk (g), 15 yipo (b), 16 məlaŋke (h), 17 yipil (b), 18 yapif (b), 19 matei (f), 20 areyə (i), 21 kərker (j), 22 wepe (k), 23 lefəti (l), 24 ərpunə (m), 25 wiyəwən (n), 26 weh (o), 33 wuri:pm (p), 35 yik (q), 36 yik (q), 37 yik (q), 38 fiʔin (r), 39 kifal (s), 40 pulə (t), 41 pol (t), 42 anhəh (u), 43 han (v), 44 həkwit (w), 45 pali (t), 46 wymt (x), 53 sowa (y), 55 suwar (y), 56 panəwai (z), 57 —.

33. 'fire': 1 ni:pi (a), 2 sakul (b), 3 nep (a), 4 weli (c), 5 wul (c), 6 weli (c), 7 wəti (c), 8 si: (d), 9 walk (c), 10 walk (c), 12 yalix (e), 13 yakə (e), 14 nif (a), 15 niŋ (a), 16 yimpu (f), 17 niw (a), 18 ni (a), 19 ni (a), 20 yakel (e), 21 ya (e), 22 yaʔaf (e), 23 safi (g), 24 yafa (e), 25 yotou (h), 26 nih (a), 33 wa:kŋ (c), 35 tapo (i), 36 tapo (i), 37 tapo (i), 38 irʔi (j), 39 kiri (j), 40 kər (j), 41 kər (j), 42 ya (e), 43 pay (k), 44 kur (j), 45 wa: (c), 46 ya (e), 53 hi: (l), 55 hi (l), 56 ipi (m), 57 niḡ (a).

34. 'smoke': 1 apasie (a), 2 nompəlo (b), 3 numpolo (b), 4 tuwaŋkes (c), 5 tuwaŋe (c), 6 tumur (d), 7 tumut (d), 8 tuwakra (c), 9 suwok (c), 10 suwaku (c), 12 wakit (e), 13 wakə (e), 14 yipar (f), 15 suwaŋ (c), 16 sanye (g), 17 nuwan (c), 18 səpaf (c), 19 uwo (h), 20 sahal (i), 21 hanəm (j), 22 poroŋkot (k), 23 pəlwəl (l), 24 pərka (l), 25 feikilp (m), 26 hisik (n), 33 həwak (c), 35 liya (o), 36 liyou (o), 37 liyo (o), 38 hofənúm (p), 39 sufun (c), 40 yar (q), 41 —, 42 yakw (r), 43 pawī (s), 44 ubo (h), 45 lya (o), 46 yacñə (r), 53 rəka (t), 55 ikriša (u), 56 inaru (v), 57 —.

35. 'tree': 1 silo (a), 2 si (a), 3 səno (a), 4 nəmpe (b), 5 nipel (b), 6 nimpip (b), 7 nifif (b), 8 nu: (c), 9 lo: (c), 10 lu: (c), 12 lowə (c), 13 ni:pa (b), 14 nimp (b), 15 nimpən (b), 16 nəmpə (b), 17 nim (b), 18 nip (b), 19 numwol (b), 20 lowi (c), 21 lou (c), 22 lou (c), 23 lowo (c), 24 lowə (c), 25 lu (c), 26 lou (c), 33 yo: (d), 35 tau (e), 36 tau (e), 37 tau (e), 38 muy (f), 39 mo: (f), 40 me (f), 41 meʔ (t), 42 no (c), 43 paykap (g), 44 mbotom (h), 45 pi:t (i), 46 my (f), 53 me (f), 55 mi (f), 56 mi (f), 57 lawag (c).

36. 'dog': 1 pa:la (a), 2 pa:lə (a), 3 pa:n (a), 4 pele (a), 5 palel (a), 6 pi:ren (b), 7 asi (c), 8 napara (d), 9 par (a), 10 faré: (a), 12 patə (a), 13 pata (a), 14 yimpa (d), 15 yimpan (d), 16 yimpa (d), 17 yimpak (d), 18 pat (a), 19 nəmpo (d), 20 panə (a), 21 pat (a), 22 mpat (a), 23 pato (a), 24 mpat (a), 25 yimpeu (d), 26 pwat (a), 33 nəmpa (d), 35 aukwə (e), 36 pi:rən (b), 37 nəpay

(d), 38 waʔay (f), 39 wala (f), 40 wala (f), 41 wale (f), 42 nwɔhɔ (g), 43 nwa (g), 44 wal (f), 45 wun (h), 46 wacΛ (c), 53 asa (c), 55 asa (c), 56 ar (f), 57 nybat (d).

37. 'bird': 1 nawra (a), 2 pəsiapa (b), 3 pəlisia (c), 4 nafle (a), 5 aulon (a), 6 yafren (a), 7 yafren (a), 8 xoura (a), 9 afər (a), 10 aprei (a), 12 antə (d), 13 nata (d), 14 kal (e), 15 alin (d), 16 ali (d), 17 al (d), 18 napet (a), 19 nol (a), 20 pelhin (c), 21 hilit (e), 22 felfis (c), 23 walfun (c), 24 walfisa (c), 25 elip (d), 26 antet (d), 33 wel (c), 35 yio (f), 36 yi (f), 37 awra (a), 38 feydey (g), 39 fenre (g), 40 ap (h), 41 apu (h), 42 ahnɛ (h), 43 owit (i), 44 yah (f), 45 yok (f), 46 apwy (h), 53 apu (h), 55 afi (h), 56 eyu (f), 57 aramir (j).
38. 'egg':<sup>14</sup> 1 amu (a), 2 a:mo (a), 3 tənna (b), 4 yiləm (c), 5 yülam (c), 6 walilip (d), 7 yilip (c), 8 yinu (c), 9 wi:lər (d), 10 yu:lək (c), 12 yilkit (c), 13 puta (e), 14 yiplop (c), 15 yinalən (c), 16 yoltə (c), 17 yulp (c), 18 yufəlip (c), 19 nəŋkoi (f), 20 waltiye (d), 21 yilhəf (c), 22 lawo (g), 23 lawiyen (g), 24 laʔwo (g), 25 yimpwonən (c), 26 —, 33 haləmpar (h), 35 warə (i), 36 paŋkə (j), 37 wa:tə (i), 38 yaʔwey (g), 39 lakwo (g), 40 yen (k), 41 yan (k), 42 ne (l), 43 yen (k), 44 —, 45 yen (k), 46 gək (m), 53 mpei (n), 55 fəla (o), 56 puna (p), 57 juhuryb (q).
39. 'louse': 1 munola (a), 2 təməfəl (b), 3 təmpofənə (b), 4 nəmóm (c), 5 nəməiləm (c), 6 kwurəl (d), 7 kwutəl (d), 8 nəmk (c), 9 namkar (c), 10 nəmaŋkar (c), 12 raləx (e), 13 rarka (e), 14 yiməl (c), 15 yimukun (c), 16 yimunə (c), 17 yimul (c), 18 kakyerk (f), 19 watokəl (g), 20 lumum (c), 21 —, 22 yaflin (h), 23 —, 24 hipəp (i), 25 numuk (c), 26 ompik (j), 33 nəmin (c), 35 nipikəm (k), 36 nin (l), 37 nipia (k), 38 nunum (m), 39 nunum (m), 40 ni (l), 41 niʔ (l), 42 mapru (n), 43 ŋən (l), 44 tetak (o), 45 ŋin (l), 46 ñəmw (p), 53 nəkə (q), 55 nika (q), 56 nanpeu (r), 57 —.
40. 'good': 1 wolmela (a), 2 upo (b), 3 ke:fo (c), 4 tiŋkifi (d), 5 yerəl (e), 6 kelfine (c), 7 mitne (f), 8 yaʔaik (g), 9 yam (g), 10 —, 12 olanum (h), 13 pwolana (h), 14 me:ət (f), 15 pəriŋ (i), 16 yinkə (j), 17 likŋian (k), 18 pəra (i), 19 yiluwana (j), 20 paye (l), 21 por (i), 22 mis (f), 23 pəriyen (i), 24 —, 25 kinyai (m), 26 mpure (i), 33 wor (n), 35 mta (f), 36 mete (f), 37 məta (f), 38 unay (o), 39 kufe (c), 40 yanpo (j), 41 —, 42 yapre (p),

43 kapənaŋki (q), 44 məwlbi (r), 45 —, 46 ykw (s), 53 kep (c), 55 jifi (t), 56 yepanə (p), 57 apui (u).

41. 'bad': 1 fay (a), 2 fayə (a), 3 faisa (a), 4 olpəs (b), 5 wuŋo (c), 6 ru:neʔ (d), 7 touni (d), 8 alu (e), 9 wuwi (f), 10 —, 12 nounam (g), 13 wa:na (h), 14 kəŋkrak (i), 15 uwalan (j), 16 mənketi (k), 17 okontun (l), 18 walú (e), 19 omóniya (m), 20 nakəlten (n), 21 arəhou (e), 22 afa (o), 23 awunen (o), 24 —, 25 arkwat (e), 26 pa:ye (a), 33 pait (a), 35 ərmouni (p), 36 monokna (q), 37 awəni (o), 38 wunteʔmoʔan (r), 39 —, 40 yapər (s), 41 —, 42 pəriyap (t), 43 piyənaŋki (u), 44 hok bo (v), 45 —, 46 kaprΛy (w), 53 kafəsek (w), 55 kapa (w), 56 kəpli (w), 57 jawei (x).

42. 'red':<sup>15</sup> 1 fampúi (a), 2 pu:no (b), 3 pu:no (b), 4 yale (c), 5 nuŋáwo (d), 6 nompine (e), 7 kutouken (f), 8 katyifir (g), 9 nipin (h), 10 —, 12 amŋkər (i), 13 —, 14 komkoto (i), 15 yamatən (j), 16 yamata (j), 17 yimatak (j), 18 —, 19 xaməŋka (i), 20 amke (i), 21 hilkuŋ (k), 22 files (l), 23 pərətipihen (m), 24 —, 25 —, 26 —, 33 watet (n), 35 kiyko (o), 36 eipikwo (p), 37 eifinəni (p), 38 wuʔahay (q), 39 kasa (r), 40 kwufukap (s), 41 —, 42 o (t), 43 paynaŋka (u), 44 mih (v), 45 —, 46 ñəky (w), 53 nai (x), 55 nalo (x), 56 wei (y), 57 —.

43. 'white': 1 talpo (a), 2 tatupo (a), 3 tatu:po (a), 4 fiu (b), 5 piyu (b), 6 fiyu (b), 7 koplafane (c), 8 kəxeika (d), 9 nəŋar (e), 10 —, 12 yaliekə (f), 13 —, 14 toŋkorəf (g), 15 yəlawan (h), 16 ya (h), 17 təŋkarwak (g), 18 —, 19 walwalka (i), 20 nahal (e), 21 sərke (j), 22 yuŋkwo (f), 23 wafritiyen (k), 24 —, 25 wawəŋ (l), 26 —, 33 toŋkorent (g), 35 kwaiyawī (m), 36 kiwokwo (n), 37 kawuwi (m), 38 —, 39 ŋkamu (o), 40 ŋkei (o), 41 —, 42 wes (p), 44 wur (p), 45 —, 46 wamΛ (q), 53 afama (q), 55 afiša (r), 56 kom (s), 57 bagara (t).

44. 'black': 1 ko:li (a), 2 ko:liyo (a), 3 ko:liyo (a), 4 ketəf (b), 5 nuŋo (c), 6 twautəf (d), 7 kete (b), 8 kataukai (b), 9 na:li:k (e), 10 —, 12 leyin (f), 13 —, 14 koposəf (g), 15 sərptən (h), 16 wasiye (i), 17 alŋkasak (j), 18 —, 19 nomopoka (k), 20 malpesiye (l), 21 masəŋ (m), 22 yorfon (n), 23 keflekiyen (o), 24 —, 25 milak (p), 26 —, 33 kotouki:t (b), 35 əmukwī (q), 36 təprai (r), 37 təprai (r), 38 wuʔunʔurun (s), 39 kur (t), 40 kəsafaf (u), 41 —, 42 ɔr (t), 43 yawnaŋka (v), 44 kor (t),

45 —, 46 gələ (w), 53 kəhapa (x), 55 kle (w), 56 waurə (y),  
57 baharabi (z).

45. 'cat': 1 oy (a), 2 ku (b), 3 ku (b), 4 aploi (c), 5 atou (d), 6 liye (e),  
7 liye (e), 8 m (f), 9 aman (f), 10 amu: (f), 12 anman (g), 13  
nəmo (g), 14 kei (b), 15 anən (g), 16 an (g), 17 akɿ (b), 18 ame  
(f), 19 amo (f), 20 aməx (f), 21 akos (g), 22 ana (g), 23 mo (f),  
24 —, 25 mkal (h), 26 no (i), 33 kəpma (j), 35 ra (k), 36 ra (k),  
37 ta (k), 38 —, 39 a (l), 40 a (l), 41 a (l), 42 ra (k), 43 nay (m),  
44 mbe (n), 45 —, 46 kΛ (b), 53 a (l), 55 ra (k), 56 a (l),  
57 wak (o).

46. 'go': 1 ai (a), 2 ei (a), 3 ei (a), 4 e:li (b), 5 ali (b), 6 ale (b),  
7 ete (c), 8 anou (b), 9 anin (b), 10 amplu (d), 12 amlaf (d),  
13 mla (d), 14 lək (e), 15 al (b), 16 al (b), 17 al (b), 18 amlap  
(d), 19 ma (f), 20 amle (d), 21 alop (b), 22 ŋka (g), 23 inan (h),  
24 —, 25 —, 26 l (b), 33 kay (i), 35 ti (c), 36 tə (c), 37 ti (c),  
38 —, 39 i (j), 40 yi (j), 41 —, 42 re (c), 43 amí (k), 44 wunil  
(l), 45 —, 46 y (j), 53 i (j), 55 yi (j), 56 re (c), 57 na? (m).

47. 'come': 1 i (a), 2 i (a), 3 i (a), 4 aule (b), 5 aine (b), 6 an (b),  
7 an (b), 8 an (b), 9 ali (b), 10 ampih (c), 12 aman (c), 13 kila  
(d), 14 ta (e), 15 ampən (c), 16 am (c), 17 la (f), 18 ar (b), 19 ra  
(f), 20 ale (b), 21 aliyek (b), 22 ale (b), 23 alo (b), 24 —,  
25 —, 26 at (b), 33 kul (d), 35 —, 36 yə (a), 37 yi (a),  
38 ya (g), 39 ya (g), 40 ya (g), 41 ya (g), 42 re (f), 43 wot (h),  
44 yow (i), 45 —, 46 ya (g), 53 ya (g), 55 ta (e), 56 yarə (g),  
57 nakih (j).

48. 'give': 1 ane (a), 2 a (a), 3 a (a), 4 wa (b), 5 wu (b), 6 a (a),  
7 ati (c), 8 wo (b), 9 wa (b), 10 fa:li (d), 12 mpale (d), 13 mpa  
(d), 14 war (b), 15 —, 16 ukwam (e), 17 wu (b), 18 wa? (b),  
19 —, 20 pari (d), 21 kwa (e), 22 un (f), 23 pi (g), 24 —,  
25 —, 26 nak (h), 33 okw (e), 35 ku (e), 36 ka (e), 37 ku (e),  
38 —, 39 nuwa (i), 40 nəwa (i), 41 —, 42 ko (e), 43 nəntuki  
(j), 44 nuw (i), 45 —, 46 kway (e), 53 ha (e), 55 kuwa (e),  
56 pana (k), 57 ka (k).

49. 'see': 1 wane (a), 2 ityal (b), 3 ənteí (c), 4 ulu (d), 5 el (d),  
6 la (e), 7 la (e), 8 ər (f), 9 rə (f), 10 r (f), 12 imsi (g), 13 —,  
14 erk (h), 15 atən (i), 16 tiri (j), 17 rik (h), 18 ako (k), 19 ti (l),  
20 pal (m), 21 atak (h), 22 at (f), 23 tl (j), 24 —, 25 —,

## *Languages of Lumi Subdistrict, New Guinea*

26 tako (h), 33 ari (f), 35 rakə (h), 36 po (k), 37 pu (k), 38 —, 39 ni (l), 40 la (e), 41 —, 42 rira (j), 43 kəki (m), 44 le (e), 45 —, 46 və (n), 53 he (o), 55 ha (o), 56 keinagi (p), 57 tər (j).

50. 'two': 1 plale (a), 2 pəla (a), 3 pəna (a), 4 wiŋkes (b), 5 wiŋe (b), 6 wiyəm (b), wiyum (b), 8 wikat (b), 9 wiyem (b), 10 wilal (b), 12 wiye (b), 13 fiyə (b), 14 poyomp (b), 15 nantiyu (c), 16 piya (b), 17 piyak (b), 18 mantio (d), 19 piyami (b), 20 yatowiye (b), 21 wuríkŋ (e), 22 kolou (g), 23 wosoŋ (g), 24 oloʔw (f), 25 wiyeu (b), 26 hoi (h), 33 we:k (i), 35 yikən (j), 36 yikir (j), 37 yikəramo (j), 38 —, 39 lisifu (k), 40 fes (l), 41 kes (m), 42 pris (n), 43 ŋwis (o), 44 nwis (o), 45 kila (p), 46 vətyk (q), 53 uprus (n), 55 frišip (n), 56 pəli (n), 57 bium (b).

### *Addenda*

VALMAN (KOROKO). Too late for incorporation in the body of this article, and for inclusion on the map, it was discovered that the Valman language (immediately east of Aitape; also known as Koroko) is a member of the Wapei-Palei phylum. Data are to be found in Vormann and Schmidt (1900), Spölgen and Schmidt (1901), and Ray (1902). The following brief wordlist, taken from the first-mentioned publication, will show the relationship:

*man* kónukôl, *woman* nigi, *eye* t'ekûl, *ear* mokúôl, *tooth* eijakôl, *breast* (nipple) ními, *skin* páltogo, *bone* amuŋo, *sun* gnanu, *moon* sanár, *rain* vul, *water* vul, *stone* tómúol, *wind* vio, *fire* ni, *smoke* ava, koltô, *tree* núpôl, *dog* pälén, *bird* gnál, *egg* mäten, *eat* -ago, *come* -ara, *give* -ä, *see* -ätä, *two* viě.

The vocabulary printed on pages 77-78 of the *Annual Reports on Papua and New Guinea* for 1924-1925 is of a form of Olo.

EXTENSION OF THE WP PHYLUM. From information recently available to the author, it appears that the Wapei-Palei phylum (or Torricelli phylum, as it will be called in the future) can be even further extended. A short wordlist collected by Fr. Mitterbauer, SVD, from Mambe village (listed as Muniwara language in Laycock, 1965a) shows that this language also belongs to the phylum. It is likely that all the unclassified and unrecorded languages of this area (Kaiep, Mandi, Tumara, Bungain, Yaugiba, Kamasau, Urimo, Sumup [= Samap], and Buna) will prove to be members of the Torricelli phylum, and will provide the link to the languages of Monumbo and Lilau (= Ngaimbon), which, from an inspection of Vormann