

Consider the data below from four Polynesian languages. Figure out the sound correspondences for the consonants, and reconstruct the Proto-Polynesian forms. Do the sound changes need to be ordered?

Treat Maori *wh* as a voiceless bilabial fricative (IPA ϕ)

	<u>Hawaiian</u>	<u>Maori</u>	<u>Tongan</u>	<u>Samoan</u>	
1.	?ele	kere	kele	?ele	'black'
2.	?ula	kura	kula	?ula	'red'
3.	hale	whare	fale	fale	'house'
4.	he?e	wheke	feke	fe?e	'octopus'
5.	kalo	taro	talo	talo	'taro'
6.	kahu	tahu	tafu	tafu	'cook'
7.	kai	tai	tahi	tai	'sea'
8.	ha?a	haka	haka	sa?a	'dance'
9.	li?i	riki	iki	li?i	'small'
10.	lu?u	ruku	uku		'dive'
11.	lama	rama	ama	lama	'torch'
12.	puna	pu?ja	pu?ja	pu?ja	'coral'
13.	piko	pito	pito	pito	'navel'
14.	nuku	?jutu	?jutu	?jutu	'beak'
15.	nalu	?jaru	?jalu	?jalu	'wave'
16.	niho	niho	nifo	nifo	'tooth'
17.	moko	moto	moto	moto	'strike with fist'
18.	moe	moe	mohe	moe	'sleep'
19.		a?ja	ha?ja	a?ja	'to face'
20.	ih?o	ih?o	hifo	ifo	'downwards'
21.	a?e	ake	hake	a?e	'upwards'
23.	ihi	ihi	hihi	isi	'to strip, peel'
24.	aka	ata	ata	ata	'dawn'
25.	awa	awa	ava	ava	'channel'
26.	pee	pee	pe?e	pee	'overripe'
27.	ao	ao	?aho	ao	'day'
28.	au	au	?ahu	au	'gall'
29.	aloha	aroha	?alo?ofa	alofa	'love, pity'
30.	wai	wai	vai	vai	'water'
31.	wa?a	waka	vaka	va?a	'canoe'
32.	wae	wae	va?e	vae	'leg'
33.	hau	hau	hau	sau	'dew'

34.	hi?u	hiku	hiku	si?u	'tail'
35.	iwa	iwa	hiva	iva	'nine'
36.	ihu	ihu	ihu	isu	'nose'
37.	noho	noho	nofo	nofo	'sit, dwell'
38.	leo	reo	le?o	leo	'voice'
39.	lele	rere	lele	lele	'fly, run'
40.	lemo	remo	lemo	lemo	'drown'
41.	lehu	rehu	efu	lefu	'ashes'
42.	mimi	mimi	mimi	mimi	'urinate'
43.	mana	ma?ja	ma?ja	ma?ja	'branch'
44.	hala	whara	faa	fala	'pandanus'
45.	hana	wha?ja	faj?a	faj?a	'bay'
46.	?apo	kapo		?apo	'grasp'