

Vaka o Lata



Sustainable Sea Transport



Some Sustainable Features of Vaka o Lata

- 1) **weather work** - predict and control
- 2) **Te Nohoanga Te Matangi**
(Wind Position) calculator - this way finding system of ancient knowledge is deeper & safer than any modern or "revived" methods
- 3) **sail and rig design** - most efficient, safe, and easiest to handle and maintain
- 4) **hull design** - fastest & most stability
- 5) **massive outrigger** - stronger, faster, more maneuverable, & more efficient
- 6) **lashings** - strong & safer, have flexibility
- 7) **natural materials** - use them & support their sustainable growth
- 8) **ancient protocols, routes, partnerships, schedules, currencies** - build community, survival capacity, engage/employ youth, support sustainable use and recovery of resources





















NO	FAMILY	TOTAL PEOPLE	CHILDREN	ADULT	CHILDREN	ADULTS	HOUSEHOLD	TRIBE
1	CRUSO	23	9	14	450	1 232	7	1 682
2	BARNA	28	11	17	550	1 496	9	2 046
3	MOSES	19	8	11	400	968	4	1 368
4	LAKAPAU	14	6	8	300	704	3	1 004
5	LONGOPUNI	17	7	10	350	880	7	1 230
6	MATUA	41	17	24	350	2 112	8	2 962
7	NINGALO	33	16	17	800	1 496	7	2 296
8	TEAVE	32	13	19	650	1 672	10	2 322
9	HOLANI	24	10	14	500	1 232	5	1 732
10	MAGNE	20	9	11	450	968	5	1 418
11	NILLA	20	12	8	600	704	4	1 304
12	THIO	99	3	6	150	528	3	678
13	PAUPEA	20	10	10	500	880	5	1 386
14	LEIAU	12	6	6	300	528	3	828
15	TAKUA	24	7	17	350	1 496	4	1 846
		336	144	192	7 200	16 896	84	24 096
		336	144	192	7 200	16 896	84	24 096

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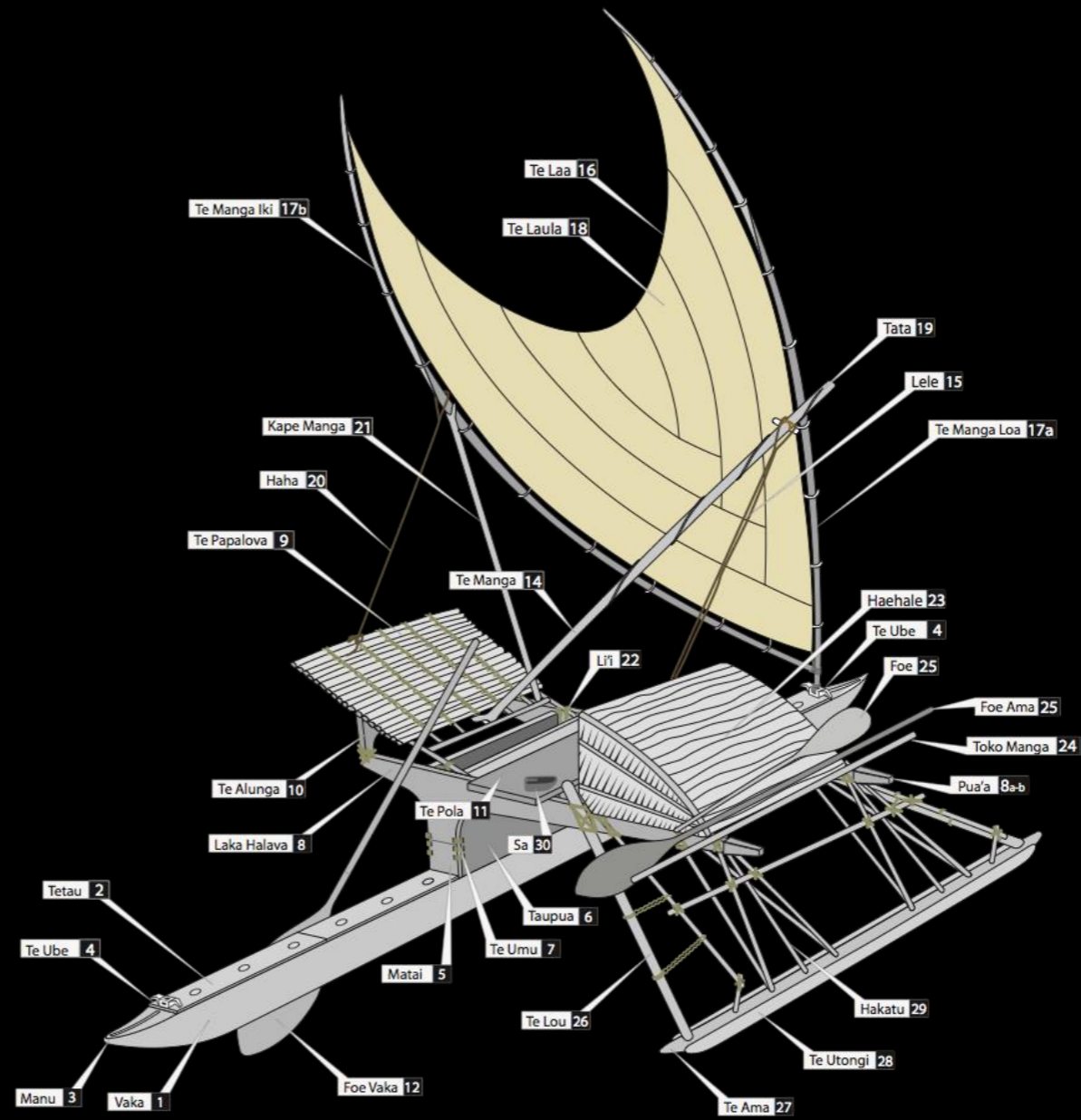












Te Puke

1. Vaka = main hull
2. Tatau = coverboards on the vaka (main hull)
3. Manu = bird head image at both ends of the vaka
 - 3a. Ihu = the nose of the bird
 - 3b. Papama = the cheeks of the bird
 - 3c. Talanga = the ears of the bird
4. Te Ube = carving of the bushy pigdin that helped Lata to build the first Te Puke. There is a hole in the back of the bird that the mast goes into.
- 4a. Underneath the ube are lashings that are called the teeth of Lata. They hold the mast in place.
5. Matai = one of two wooden planks that are the front and back walls of the rear box.
6. Taupua = one of two wooden planks that are the side walls of the rear box.
7. Te Umu = lashing
8. Laka Halava = crossbeam
 - 8a. Pua'a = pig's head image indicating that pigs in cages will hang on the laka.
 - 8b. Serrations on the edges of the pig's head reference the tail of the fresh wa.
9. Te Papalova = leeward platform
10. Te Alunga = the pillow or support for the platform and for the heads of the ama.
11. Te Pola = carved wooden plank that is the windward platform between the ama.
12. Foe Vaka = big steering blade that is used on the vaka side.
13. Foe Ama = small steering blade that is used on the ama side.
14. Te Manga = mast
15. Lele = line that raises the mast
16. Te Lau = the sail - the shape is that of Lata holding his arms over his head.
- 17a. Te Manga Loa = the boom to which each side of the sail of Lata is tied. The long part of each boom is about 3/4 the length of the boom, and it is the short, thinner tip of the boom that is lashed onto the longer part. It is a strong gun hit it. It makes the sail self reefing.
- 17b. Te Manga Iki = the short, thinner tip of the boom is lashed onto the longer part. It is a strong gun hit it. It makes the sail self reefing.
18. Te Laua = a woven sail panel
19. Tata = halyard to raise sail - brings leading rope to mast
20. Taha = sheet = rope attached to leeward boom, used to trim sail
21. Kape Manga = reaching pole
22. Te Li'i are down inside the rear box, 3 forward and 3 aft. They hold the vaka together.
23. Haehale = the shanty on a Te Puke
24. Toko Manga = pulling pole
25. Foe = for paddling when in shallows or reef or when visiting an island
26. Te Lou = structural member joining leeward platform to end of ama
27. Te Ama = the central float
28. Te Utongi = two float on either side of the ama. There are two utongi on each side.
29. Hakatu = vertical members that connect the ama to the crossbeams
30. Sa = balsa







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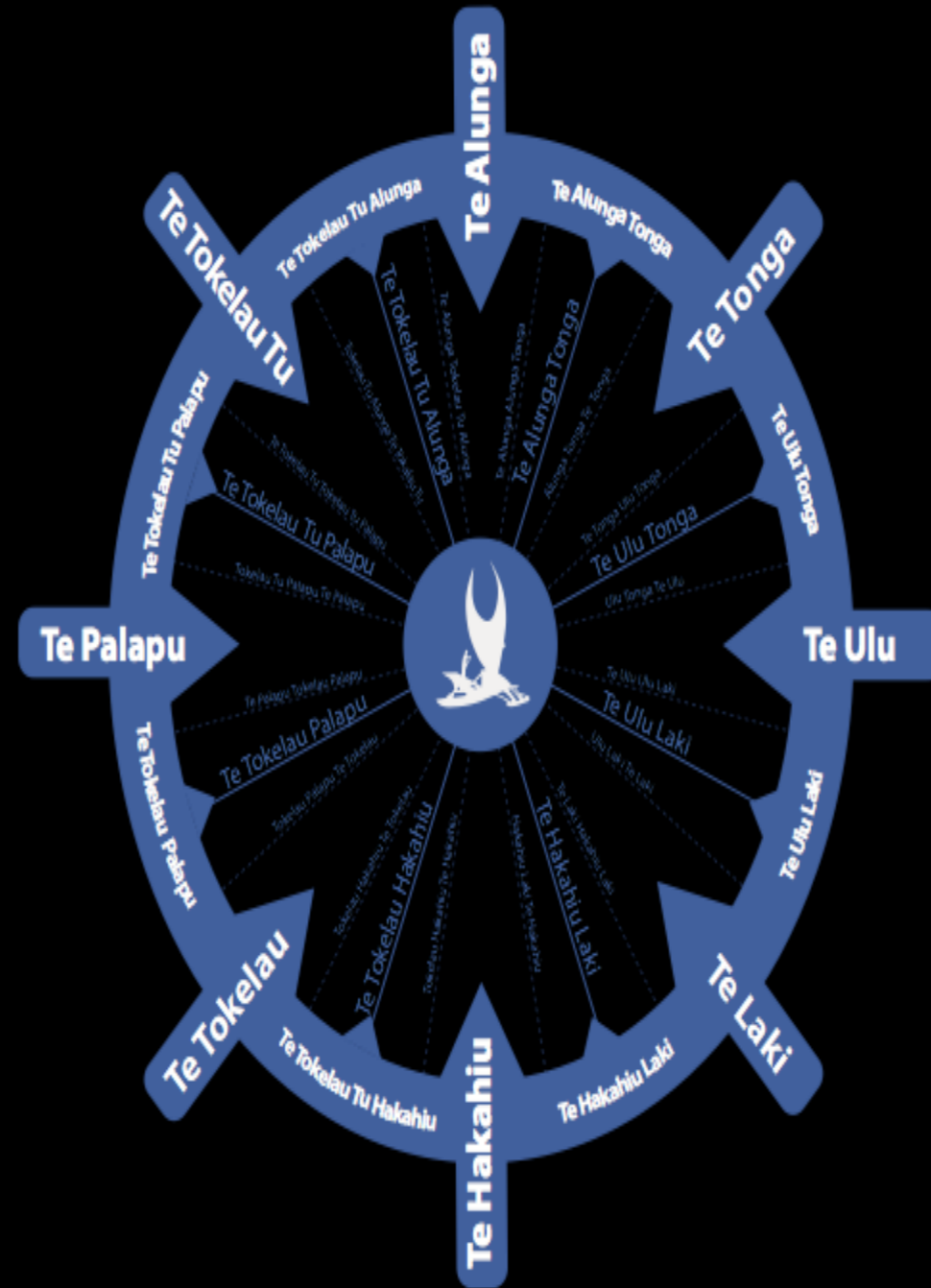


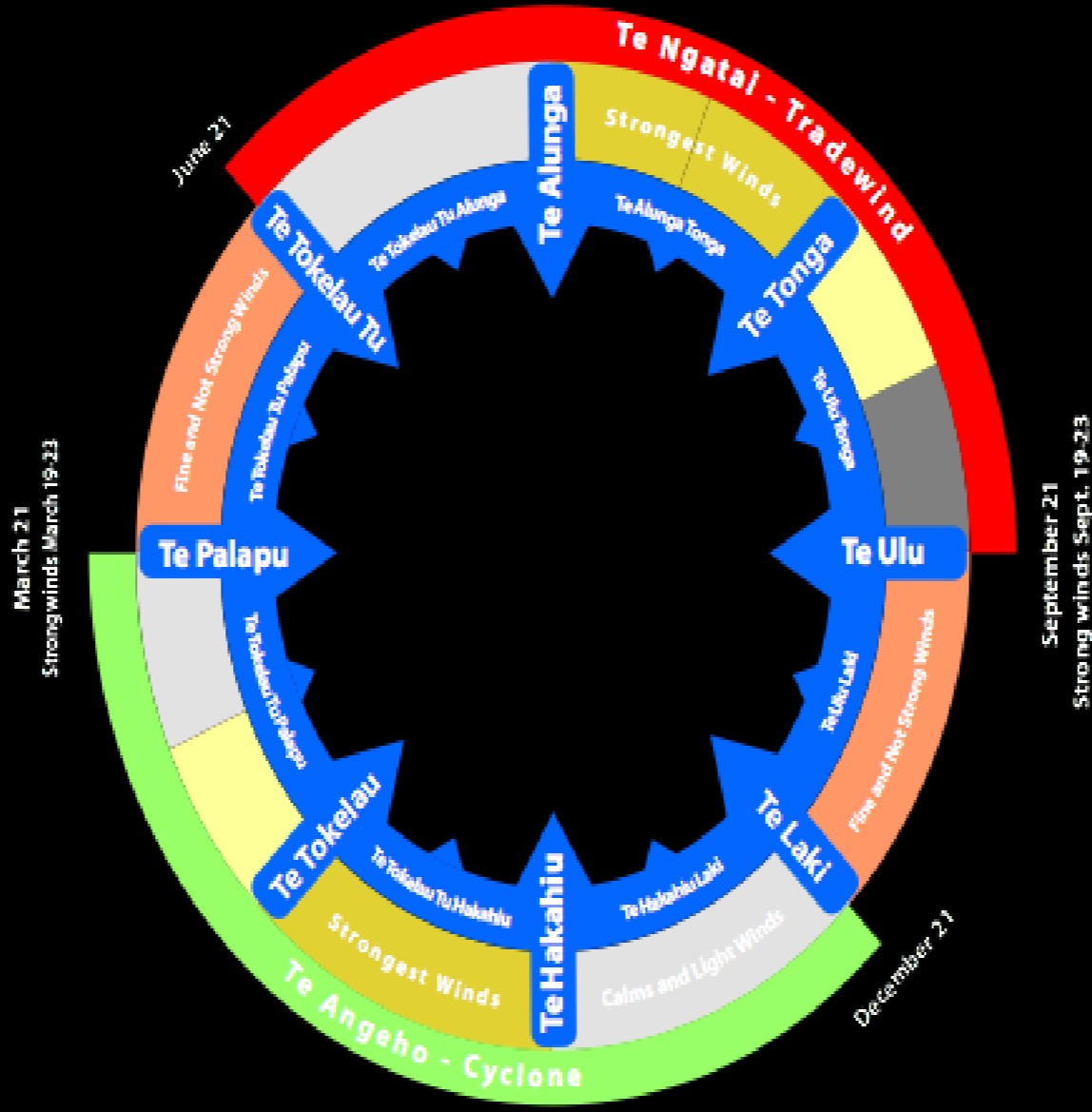


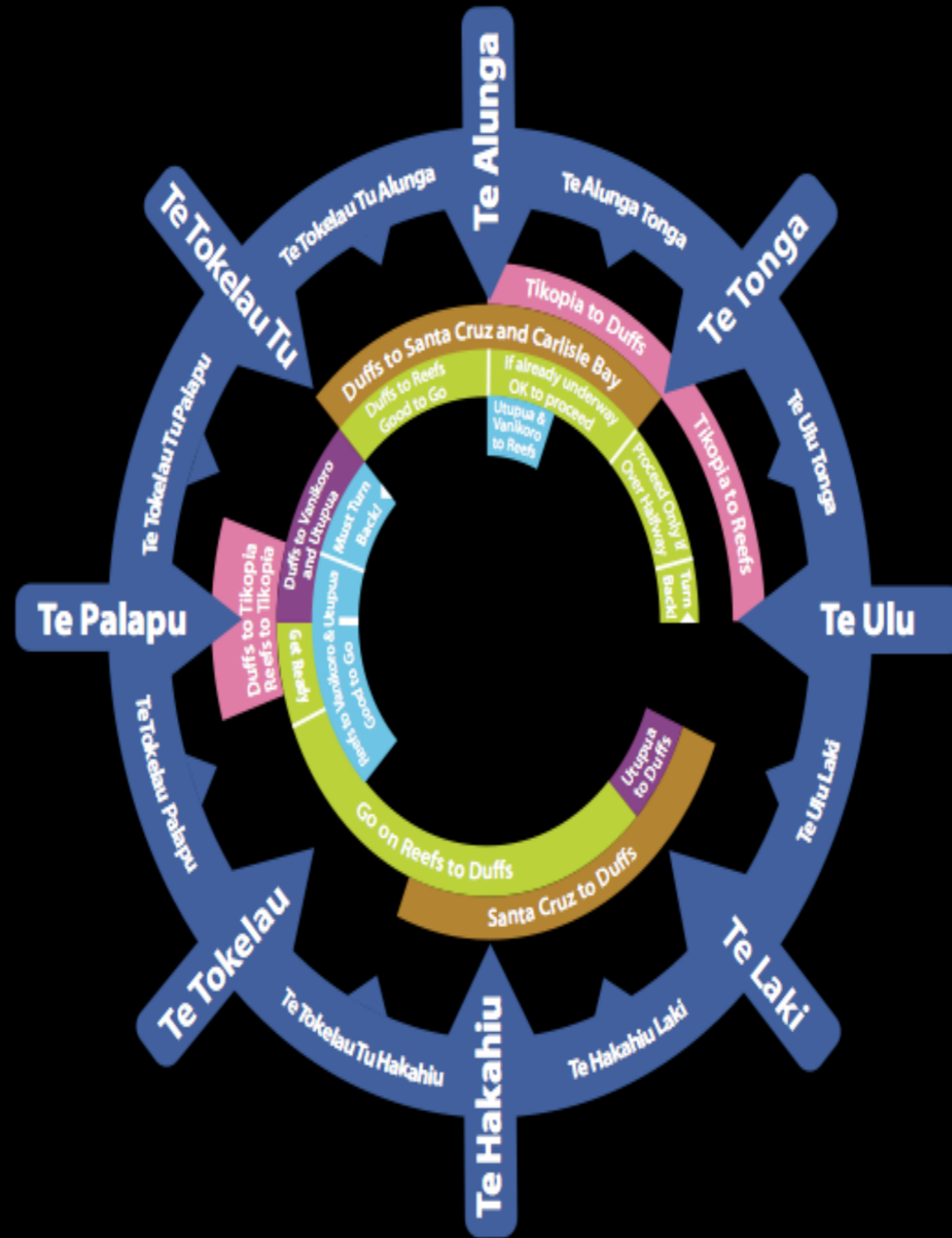




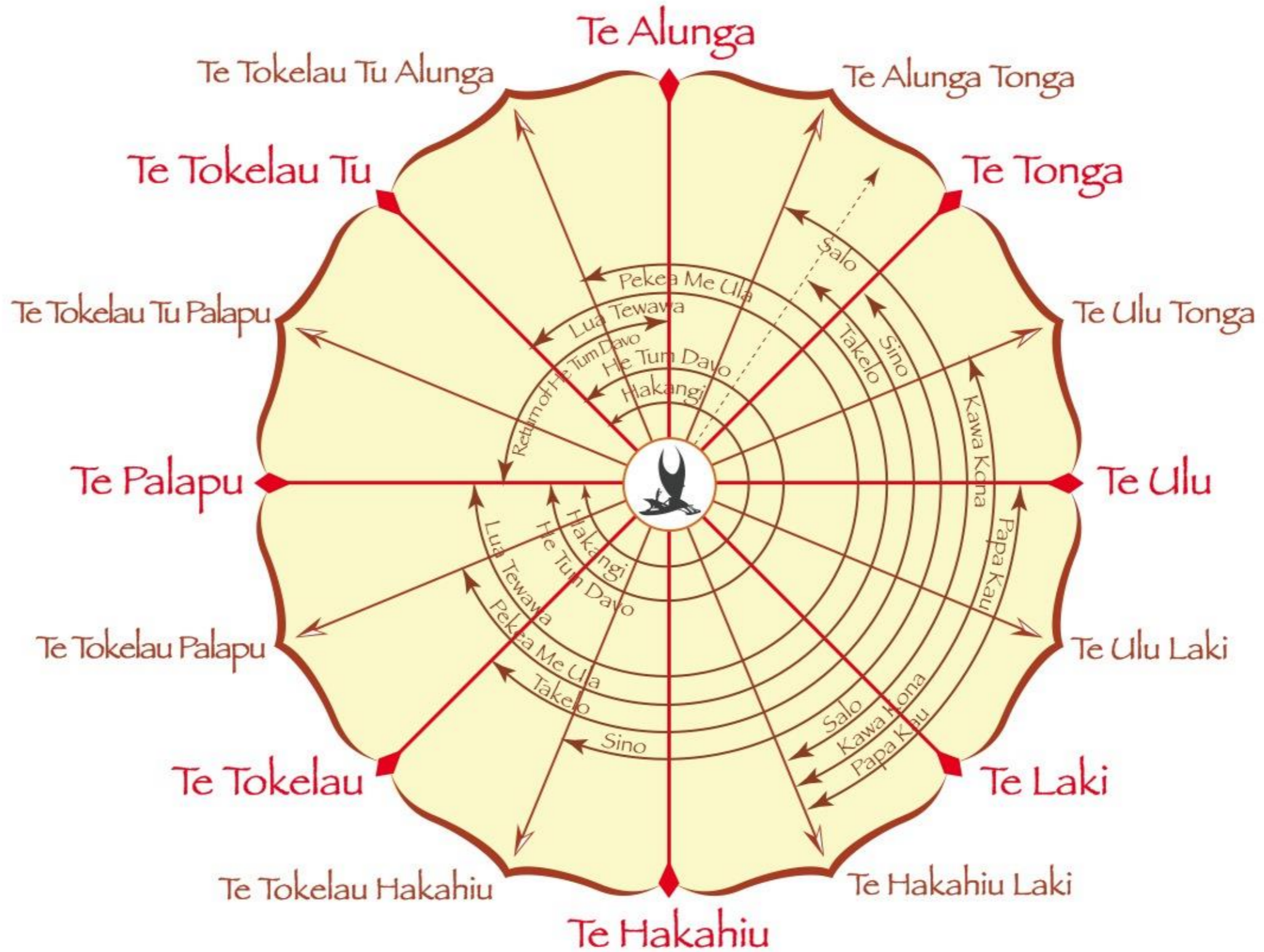
32 Points on Nohoanga te Matangi







NOHOANGA TE MATANGI









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Vinaka Vakalevu !!!

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