

Marine Metre² Rūri Takutai

TAPĀTAI ONE ME TE PARATAIAO

RA	KURA / RŌPŪ
WAHI	INGOA O NGĀ KAIRŪRI
WĀ	
TE KĪ O TE TAI	TAI TIMU
TE HURANGA	TINO HURANGA
TAI WAENGANUI	HURANGA
TAI PARI	HE MARUMARU
	PŪAHATANGA

TE KIRI ONE	te whānuitanga/āhua	ŌRAU %
Ākau	te pūkawa	
Toka nui	te upoko	
Toka iti	te ringatahi	
Kirikiri	te māpere	
Onepū	he tātahi	
Parakiwai	he maramara oneone	
Paruparu	he poharu	
Te tapeke	te ūrau katoa = 100%	100 %

HE AHA NGĀ WHAKAĀHUA MATUA O TE WĀHI?

hei tauira: he toka nui ki te pūhatanga; he waka e noho ana; he ngaru nui; he wai māori l rere mai; he pango te onepū; ka marumaru tēnei wāhi l te ngā puke.

HE AHA NGĀ TUMOMO TOHU O NGĀ TĀNGATA?

he rāpihi; e kohikohi ana mahinga kai a ngā tāngata; he tohu o ngā motokā; he tohu a ngā kurī; he tāngata l te wai

PIKITIA

Tuku pikitia o te mīta pūrua me tēnei whārangi l te pikitia kōtahi, kia awhina ai i a koe ā muri ake nei.

MĀ WAI NGĀ TŪMOMO ORANGA I TOHUTOHU I TE KARETAI O TE PARUPARU? TUHIA NGĀ MOMO KAREAI ME NGĀ	HE TOHU ĒNEI I TE KARETAI?
Kōhao – e.g. tēnā pea nō ngā pāpaka, kōura rangi, tuangi, mōwhitiwhiti...	
Tiko nō ngā noke moana - h.t. nō te whānau Maldanidae, ko te momo Abarenicola affinis rānei.	
Tohutohu o te mahi kai - h.t. nō ngā Hanikura me ngā ara pūpū).	
Ētahi atu tūmomo orange - h.t. tuhia te āhua.	

TE TAUTA O NGĀ KOIORA (I te mīta pūrua 1m x 1m te ‘quadrat’ rānei)

Tautahi te ingoa o ngā koiora I te wahi me te ūrau o te whānuitanga, o ngā momo tipu moana, āra, me ngā rimurimu, ngā tipu meroiti (diatoms) me ngā otaota. Kaua e tatau ngā karere e mate ana, me tatau I ngā karere koiora...

NGĀ TIPU O TE MOANA	ŪRAU O TE WHĀNUITANGA %	TE KATOA O TE ŪRAU %
tuhia ngā ingoa pūtaiao hoki		

NGĀ MOMO KARAREHE	E HIA NGĀ MOMO ĀHUA	TE TATAU WHAKAMUTUNGA
tuhia ngā ingoa pūtaiao hoki		

TE WHAKAPAPARANGA HĀORA (te uho 10cm x 10cm)

Tuatahi I te tiki tīpako, me nekenekē i ngā koiora i te karetai kia waiho I te tatau anō. Mā te kō, ngā uho e karikari, mai i ngā kōkona o te mīta pūrua. Tikina ngā uho e whā. Inea te roa o te whakaparanga me te tae e ūrite ana, ki te tae e rerekē ana. Koinei te wahannga o te ‘Redox Potential Discontinuity’ (RPD), arā, koinei te wahanaga e tangotango ana, e tāpiritanga hoki ana te hāora I te onepū. Koinei te wahanga e pai ana.

TE ROA O TE WHAKAPAPARANGA E hia ngā mm i raro i te karetai?	NAMA O TE UHO				TATAU KATOA O NGĀ KARAREHE
	1	2	3	4	
TE TATAU KARAREHE I TE UHO tuhia ngā ingoa pūtaiao hoki	NAMA O TE UHO				TATAU KATOA O NGĀ KARAREHE
	1	2	3	4	
(Hei tauira:) Tuangi	4	3	0	6	13

Mehemea kaore e koe tētahi momo koiora e mārama ana, tuhia te whakaāhua o te mea me te wāhi e noho ana I te tūtiri I runga. Me tuku pikitia me te pāronga ki a mātou, ki te īmera marinemetresquared@gmail.com

Me whakakī tāu mahi I te whārangī ipurangi ‘RŪRI MĪTA PŪRUA TAKUTAI’: www.mm2.net.nz