



# Mamautari Newsletter

MFMRD Bairiki, Tarawa P.O Box 64 Phone no: 21099 Fax no: 21120

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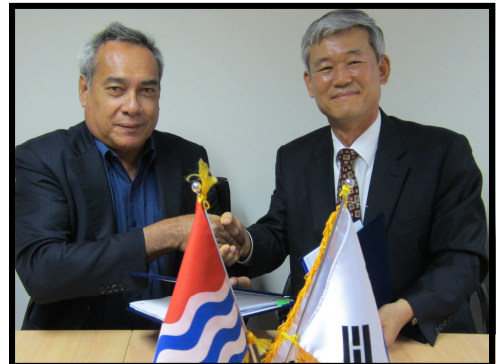
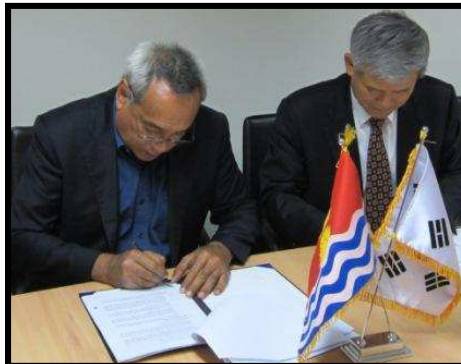
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## **Tiainaaki te boraraoi iaon te kaai ni ikarekebai ni karikirake imarenan te Tautaeke ni Kiribati ma uoua (2) kambwana n akawa mai Korea**



**Kaubwain ara marawa ae te ika e aki kona n toki tangirana irouia kambwana n akawa mai tinaniku ibukin iokinibwaiana ni kabuta aban te aonaba.**

Te Minita man te Botaki n Akawa ao Karikirakean Kaubwaira mai Marawa, te Honourable Tinian Reiher ngaia are e tiaina te boraraoi iaon te kaai ni karekebai ni karikirake iaon karaunian te ika-nimarawa ma kambwana n akawa mai Korea aika Dongwon Industry ao Hansung Enterprise n raonaki ma Han Trade. Atiainaki boraraoi aikai i Brisbane Aotiteria imwin te bowi are e bo man 8 nakon 10 n Meei, 2013.

Ai itiuwa ngkai mwaitin te kambwana ni karaun ika-ni-marawa are ea waki ngkai ni karikirake ma te Tautaeke ni Kiribati. Man te karikirake aio ao iai noran te kabwaia ae ena kona n reke nakon Kiribati man te waaki ni karekebai ni karikirake aio bwa ana kona ni manga kamwakuraki kaimoan Kiribati iaon kaibuke ni karaun mai Korea ake a ka-baeaki iaan te boraraoi aio. Tiaki ti ngaia ma iai te katautau bwa ana kona naba ni manga kamwakuraki n tabeua taabo ni karao ika iaon Korea, ao man kona naba ni karaai iika mai tinanikun Tarawa ibukin mwaketenakina ke iokinibwaiana

...reitana i/b 3...

## Bibitakin kanoan boong e kona n roota aron mwamwaingingin te tano

**Kamatebwai ma kukune aika tia ni karaoaki iaon Kiribati e rangi ni ibuobuoki nakon kaekaan titiraki ma tabeaianga iaon rikiraken mwamwaingingin te tano man te tabo teuana nakon teuana.**

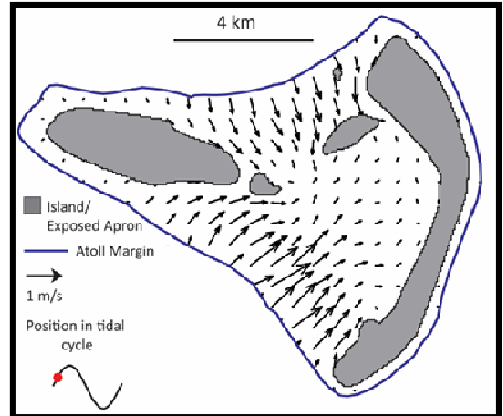
N Tianuare, 2013 ao e karaoaki ruamwian te kakae ma kamatebwai iaon bibitakin kanoan boong ni irekereke ma mwamwaingingin te tano man te tabo teuana nakon teuana. Te kamatebwai iaon mwamwaingingin te tano iaon Kiribati e moan waakinaki irouia kain te tiim man ana reirei ae rietata Amerika ae Kansas University man te ririki 2005 n taorimwiaki aua (4) te ririki imwina 2009, 2011 ao ai 2013. Kain te tiim aio bon Dr Gene Rankey, Hannah Wasserman, Michelle Mary ao ai Tion Uriam man te Botaki n Akawa ao Karikirakean Kaubwaira mai Marawa. A bon kawaraki aba aika Maiana ibukin te itera meang, Aranuka ibukin te itera nuuka ao ai Beru ibukin te itera maiaki.

Ibukin te mwananga n te ririki aio ao a bon ti karoko kain te tiim i Aranuka ao i Beru ibukin nooran bibitakin taabo ake a tia n noori inanon ririki aika nako, bwa iai te bitaki nako iai ke akea. N te riboti are e karekea am bebwa ni kaongora ae Mamautari mai iroun te aobitia are tabe ma te itera aio ao e taekinna Tion Uriam bwa iaon Aranuka ao a tuo aron mwamwaingingin te nao ma te aira n te aro bwa ana kona n ata iai aron mwamwaingingin te tano nakon te nama ke te aba.

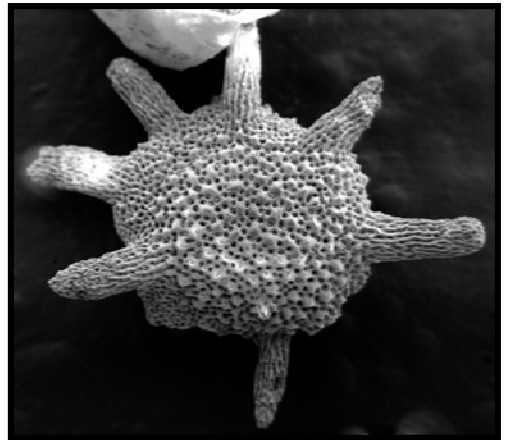
Tiaki ti ngaia ma a bon kakaea naba bukin mwamwaingingin manin taari aika uarereke (organisms) man aia tabo ake a mena iai mai imwaina ni irekerekena ma bibitakin kanoan boong. E oti n te ribooti bwa iaon Aranuka ae bon rangi ni korakora te bitaki nako iai riki n taabo ake a tia n tauaki mwiina nte kombiuta inanon tain te kakae n taai aika nako bwa ea bitaki. N aron teuana te tano ea rangi ni korakora ni mwaing man te rakai nakon te nama ke te aba (noora tamnei). Iai tabeua taabo aika a kanakinako ao iai aika riki ike ea bon kaota naba iai aron mwamwaingingin te tano man te tabo teuana nakon teuana.

Iaon Beru ao a bon karaoa aia kakae iaon atibu ake a kuneaki ni mena n te nei ni bokaboka are e riki ngkoa bwa te kanoa ni mi iroun te unaine inanon te tai n rongo n taai aika nako. E nooraki bwa n te atibu aio bon iai kaubwai aika a kuneaki iai ao anne e bon reke man aia mwakuri maan ake a uarereke (micro-organism). Atibu aikai a kona n reke 1000 te miita iaan tari n te aono ae South Atlantic ao ngaia a bon reke naba n te nei ni bokaboka aio. Te katautau bwa a kaman riki atibu aikai inanon ririki aika nako (tao birion).

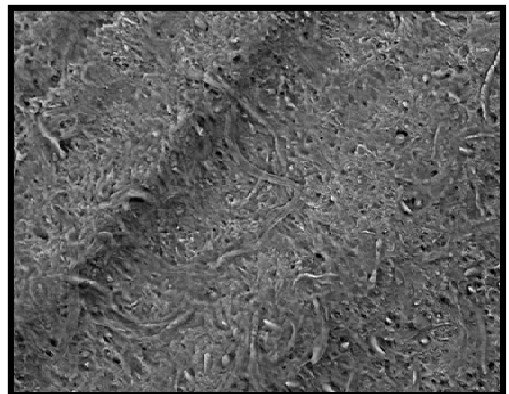
Irarikin anne ao e bon rangi ni korakora naba te bitaki nakon mataniwin te nei aio ni kabotauaki ma are mai imwaina. Ana manga oki rikaki kain te tiim aio nte ririki ae ena roko ibukin katabwaninan raoi aia kakae iaon te itera aio.



Aron mwamwaingingin te tano iaon te abamwakoro ae Aranuka ni irekereke ma bibitakin kanoan boong



Foraminifera teuana mai buakon manin taari aika uarereke are e riki bwa te tano ngkana e mate, bon kanoan naba te kakae



Microbial mat, teuana mai buakon aekaki ni kaubwai ake a kuneaki n te nei ni bokaboka i Beru

## Aron kabonganakin te aiti buraoki ibukin raoiroin irikon te ika

E na riai n tauraoi nnen te aiti ni kamwaitoro ke te kuura bwaoki (cooler box) Kanoa te kuura n taari te kabina inanon am kuura n aiti buraoki.

Kanoaia ngkanne n te aiti, ngkana 5 te bwaketi mwaitin taari ae ko kabongana ao ena riai ngkanne 15 te bwaketi n aiti.

Ngkana ko akawa ao e reke konam ao karinna ngkekei naba n am kuura ni kamwaitoro are ko a tia n katauraioia.

Ngkana te Ati am iika ao ena riai n tuku inanon am kuura ni kamwaitoro n te maan ae 4 te aoa nakon 8 te aoa.

Ma ngkanga te ika n aonora am ika ao maanna inanon am kuura bon ti 3 nakon 4 te aoa.

### E-COPY!!

Ngkana ko tangiria ni kan kakarekea am e-copy n te Mamautari Newsletter ni katoa namwakaina tera ae tauko, karokoa am email address nakon te Mamautari subscription ae subscribe@mfmrd.gov.ki bwa ko aonga n rin bwa kain ana list te Mamautari Newsletter ngkoe n akea boona!!!

## E uki ana auti ni kamwaitoro te abamwakoro ae Abemama



Hon Tinian Rehier neke e kauka mataroan te auti ni kamwaitoro.  
Hon AG ane man te maine



Katabuaka te auti iroun te Tama man te aro ni Katorika

**E a tauraoi ngkai ni butimwai kokona mai irouia taan akawa te auti ni kamwaitoro iaon te abamwakoro ae Abemama mai imwin kaukana are e karaoaki inanon bongin te namwakaina ae 1 n Tuun, 2013.**

N te riboti are e karekea am bebwa ni kaongora iroun te aobitia are tabe ma te itera aio ae Nei Toaa Ribeta ao e taekinna bwa rabwatan te auti aio e bon mwanenaki iroun te Tautaeka ni Kiribati ao bwain nanona n aron te mitin ni karao buraoki, tianaraita, aua aitibwaoki aika te naan itibubu n riita, nimaua kuura aika te naan uabubua n riita, te booti ni irianaki ma intinna, ao ai bon tataran bwaai aikanne (spare part), a bon bane ni mwanenaki man te Tautaeka n Tiaban. Kaukan te karikirake aio e bon

kanikinaea te reitaki ae tamaroa imarenan te Tautaeka ni Kiribati ma te Tautaeka n Tiaban rinanon aia rabwata aika te Botaki n Akawa ao Karikirakean Kaubwain Marawa ao ai OFCF (Overseas Fishery Co-operation Foundation).

Ake a roko ni kakooua te bukamaru ibukin te auti ni kamwaitoro, bon te Minita n te Botaki n Akawa ae Hon. Tinian Reiher, te Hon Attorney General Titabu Tabane ma kainnabana, Te Minita n Tararuaan ara Otabanin ae Hon. Tiarite Kwong ma kainabana, n raonaki ma Taan Tei ao ai aobitia man ana botaki ni makuri te Tautaeka.

## Tiainaaki te boraraoi iaon te kaai ni ikarekebai ni ...

nako aban tinaniku man karikirakea aia anga ni karekemwane kain buuki man konaia.

Iririkin anne, ao ena bon teimatoa naba n rereke ana karekemwane te Tautaeka man ana baibai ni kambwana aikanne.

Eiraki te Minita irouia aobitia man ana aobiti-te-Tia kaeti Tua ao temanna man te Botaki n Akawa ao Karikirakean Kaubwain Marawa.



## E waaki ngkai iokinibwaiian iriko ni iika, ao ni kabooi iika aika kakaokoro ma aron tein booia te Kiribati Fish Limited (KFL)

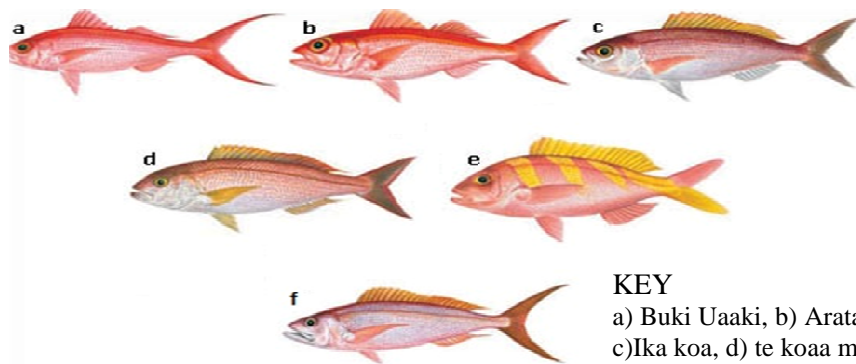
E a tia ni waaki ngkai te iooki ni bwai iaon irikon te ika ni marawa nako aban tinaniku man te kambwana ae Kiribati Fish Limited are e tei i Betio, Tarawa.

N te tai aio ao Kiribati Fish Limited e taketena moa Japan ibukin te sashimi ke te oraora, ao America ibukin irikon iika ni marawa aika a kaburaokaki. Bon iai naba te reitaki ma aba aika Austalia, China,ao aban te EU ibukin naba te iokinibwai. N te tai aio ao e rangi ni karako te kokona are e roko mai irouia taan akawa ibukin te iooki ni bwai ma bon iai te kantaninga bwa ena kona ni manga keerake inanon namwakaina aika imwaira. E ngae n anne ao e waaki naba ngkai KFL ni butimwaa ika ni

marawa n aron te baiura (yellow fin) ao te ingimea (big eye) ma tein booia aikai.

Rawawatan te ika (kilo)	Boona n te kilo
10-20	\$3.00
20-30	\$3.50
30-40	\$3.70
40 ni waerake	\$3.00

Iai te waaki ni kakatai iaon iookinibwaiian iika ake a reke mai nano (deep bottom species) n aron ae oti inano



### KEY

- a) Buki Uaaki, b) Aratabaa  
c) Ika koa, d) te koaa maii  
e) ikabwaun, f) Bukinrin

Ni irekereke ma te angareirei ao bon iai waaki aika a tia ni karaoaki nakoia taan akawa ibukin kateimatoaan tamaroan konaia. E kukurei KFL n taekinna bwa iika ake a tia ni kabooi nako taan akawa nakon KFL a bon bane n roko n te kainibaie. E ngae n anne ao e teimatoa n tauraoi KFL ni karaoa te reirei nakoia koraki ao taan akawa ake a nano iai.

Te akawa ae te vertical long line bon ngaia teuana te akawa ae rangi ni

kaungaaki ngkai e bon kakoauaaki bwa e bon abuabu ngkana e roko te waru. A bon tia naba reiakinaki taan akawa te aekaki n akawa aio ao te kantaninga bwa ana kona ni waaki inanona nakon taai aika imwaira. N ana riboti te kambwana aio ao e ka-koaua bwa inanon moan te ririki aio ni karokoa ngkai ao e rangi ni karako

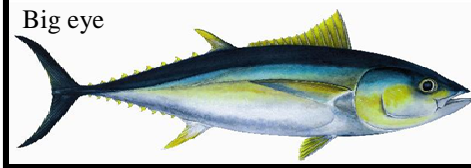
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Te baiura



Utun nako te ika ni marawa ake a iokinibwaiaki irikoia.

Big eye



Te akawa ae te verticle long line (katiki) e bon rangi ni kaungaaki bwa e bon abuabu ngkana e roko te waru, riki bon akea ana urubwai nakon te rakai ao maiun te ika.



Kaona kabin am kuura nte buraoki ibukin teimatoan raoiroin am iika.

## Karairakiia kain te tiim man te Botaki n Akawa man te itera maiaki ibukin katabangakan oin taben te botaki ni mwakuri aio

Mai imwin te mwananga ae abwabwaki ao e kakukurei bwa e tabwanin kanoan ana waaki ana tiim te Botaki n Akawa are ea tia ni karaoia n abamwkoron te itera maiaki iaan ana nonori ao ana babaire te Botaki n Akawa ao Karikirakean Kaubwaira mai Marawa ibukin karikirakean riki aroia taan akawa nte itera maiaki.

Kanoan waan te Botaki n Akawa ake e waakin n abamwakoro ake e kawari n te tai aio bon kabwakaan taian boera n kauika. Tiaki ti ngaia ma a bon wakina naba te reirei iaon kawakinan te ika ma karakan riki te rabakau iaon karaoan te ika ke e ataki n arana ae te value adding. Kaongora iaon kawakinan marin taari nakoia taan reirei n JSS ao moanrinan, warebwaian kaubwain taari. N reitaki ma anne ao a bon kawarii naba auti ibukin karekean rongorongon iaon te kokona

ma kabongan n te mari mai taari. Bobotan rongorongon iaon akawa ake e taneiai n kabonganai te I-Kiribati. Magae n anne te bonoraran nakon booti aramanim, onobwaian tianaraita ma bwain nako auti n kamwaitoro ao ai kanimwan bwaai n taetae ibukin te itoman ma te Tia Akawa. Wakinan te maroro ma ana itera te kauntira iaon ana kakamwakuri te Tia Akawa ke Fisheries Assistants ake a mena iaon aia abamwakoro ao itera riki tabeua ake a kakawaki iaon kanakoraon ana waaki te Botaki n Akawa. E katautauaki bwa e na manga mwananga MV Te TiaAkawa inanon namwakaina aika a roko nakon abamwakoro aika Tabiteuea Meang ao Maiaki, Nonouti ao ai Kuria ao Aranuka n kati ai waaki ake a tuai n tia n te mwananga aio iaan karairakin te Tia Akawa iaan kanganga nakon te kaibuke.

## E teimatoa ni kaboaki ika aika kakaokoro ma aron ....

ingmea ao baiura aika bubura ake a tau ibukin te kaboaki nakon KFL. N noran te kanganga aio iroun KFL ao e waki ngkai ma te tia kaba ae Mike Savings ni kaba te-waana te waa uowa ae raka abwakina nakon 11 te miita. Aio bon te waaki ni kakatai are ana rangi ni irekereke iai taan akawa ibukin kawaakana.

Te kantaninga nte waaki aio bwa ana kona n roko riki n taabo n akawa aika a raroa ao man kona ni karekei konaia riki aika mwaiti ao

man roko buburaia n are kantaninga te kambwana aio. Ngkana e nakoraoi ao ana manga kabaaki riki aika a mwaiti n te aro bwa ana kona ni wakinii taan akawa aika mwaiti.

Bon iai naba ana waaki KFL ni karoko iaon aba ao ni waakina naba kaboan konaia taan akawa. Aio are ena karauaki raoi ni baireaki imwain ae ena wakinaki. E kukurei ni taekinna KFL bwa ea tia ni karaoa

...reitana i/b 6...



Te anga reirei iaon karaoan te intin ae uruaki bon kanoan naba te anga reirei nakoia kain te itera maiaki.



Te bono raran nakon booti aramanim ena rangi ni ibuobuoki ibukin manga karekean mauia kain buuki.



Karaoan ao katean te antenna ibukin karekean te reitaki mai ibuki nako Tarawa ibukin ribotinakin kanganga aika karina.

## Student Corner

**Did you know that the beach naturally protects islands from rising sea levels?**

The beach is usually attacked by waves from the sea before the land. This natural activity may lead to the erosion of the beaches and can be exacerbated by human induced activities on the coastal areas.

BUT did you know that human activities have other negative impacts on beaches and near shore marine ecosystems. With anticipated, sea-level rise, these activities both natural and human induced may increase the vulnerability of the coastal areas, thereby altering the shape and composition of our beaches.

Listed below are some of the activities on South Tarawa beaches that contribute to coastal erosion and marine pollution:

- Mining of sand and gravels from beaches
- Construction of coastal structure (causeway, seawall, groynes and many others)
- Pollution of marine environment and habitat

Do you want your beaches and land to erode and your marine ecosystem to be polluted????

SO before you mine, build a structure or throw away any rubbish on your beautiful beach, **JUST STOP and THINK A MINUTE before you ACT!!!**

## Ana karaobwai te I- Arorae iaon te ika n aekaia nako a roko i Tarawa

**A roko nte Kaabong 13 n June 2013 tabeua ana katoto te Abamwakoro ae Arorae iaon ana ika ake a umwunaki ao n tariaki man n tia n bakinaki nakon te Botaki n Akawa.**

Taian katoto aikai (tamnei) ake a uotaki ibukin te nokangkang ma te kantaninga ae abwabwaki bwa tera riki itera n katamaroa ibukin kaungakin ana waaki te Abamwakoro aio iaon ana iokinibwai nako Tarawa.



Aio te karikirake are ea wakinaki man te Boboti n Akawa ni boutokaki man te Kauntira iaon Arorae ibukin kaungakin te itera n iokinibwai iaon kaubwaira ae te ika ibukin karakan aron maieua taan akawa. Te waaki aio are e a tibwa wawakinaki arona iaan ana kakamwakuri ae korakora te Boboti n Akawa ikekei n reitaki ma ana boutoka te Tia Akawa ae

Max Peter ibukin kakaeen itera n kareke tianti iaon te ika. Ana karikirake Arorae ae e wakinna n te tai aio e a kaota kamanenan te rabakau are a tia n reiakinna tabemantan akawa ake a ira te reirei inanon te namwakaina ae Eberi man te Boboti n Akawa iaon karaoan te ika are kamwauaki man bubun te ai (te smoke fish) ke taari aika uarereke (tuna jerky). Ni katoamauan te waaki aio ao ea tia n reke te ai n umum (smoker) ao bwaai ni kamwau are e maiu man taai (solar drier) te bwai n tatari ake a tia n reke inanon bain te Boboti n Akawa ikekei ao a mwane-naki iaan ana ibuobuoki te kambwana mai Tiaban ae te OFCF ao n nikiraki bwaai n mwakuri aikai n mwanangan ana tiim te Botaki n Akawa inanon moan te ririki aio.

E ribotiinna te Tia Akawa ikekei bwa iai ana kantaninga ae abwabwaki Arorae bwa e na wakina ana iokinibwai iaon ana tuna jerky ao smokefish ngkana a taubobonga itera n waaki aika a kakawaki ibukin te waaki n karikirake aio nako Tarawa.

## E teimatoa ni kabooi iika aika kakaokoro ma aron ...

ana tutuo te rabwata teuana nte aon-naba are tabe ma tuaokin taabo ni karao ika. Ao e kukurei ni taekinna bwa KFL ea tia ni bwaati ao n anganaki ana certificate. Te certificate aio are ena rangi ni ibuobuoki ni kauki mataroan makete i tinaniku ao ni

kaota Kiribati bwa teuana te aba ae e kona ni iokinibwaia iika aika a rangi n tamaroa irikoia ao man karekea te boo ae tamaroa ibukin Kiribati.