



Mamautari Newsletter

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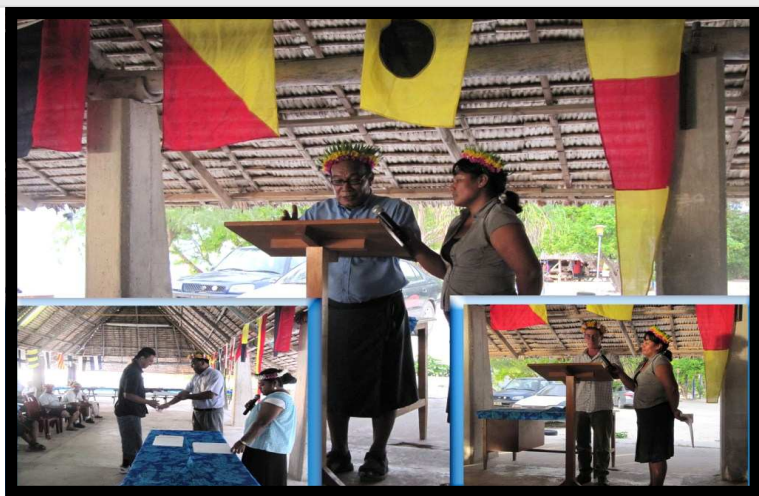
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Uangaun riki ana Observers Te Botaki n Akawa ake a manga tauraoui naba ngkai n tokarii kaibuke.



Aanga beebwa uangaun riki ana observers ke ana bureitiman i taari te Botaki n Akawa n tairikin te Kanimabong 10 n Tuun, 2011, are e a rungaaki n te Lagoon club i Ambo. Man te mwaiti ae uangaun aio ao bon iai teniman aine ao nikiraia bon taian mwane ni kabane. N ana kabwarabwa Tekirua Riinga, are ngaia ae tararuaa te itera aio ao e taekinna ae e aki tau mwaitiia Observers ake a tia n kateirakeaki n te ririki ae nako 2010 ai ngaia are a manga anaaki riki uangaun n te ririki aio. Te koraki aikai ake a bon roko n te bwaati aia bui imwiin te ukeuke are karaoaki ni bon te ririki ae nako naba ma aaki anaaki kiaina ngke e a koro naba te mwaiti irouia naake anaaki ake e mena riki aia mai ieta.

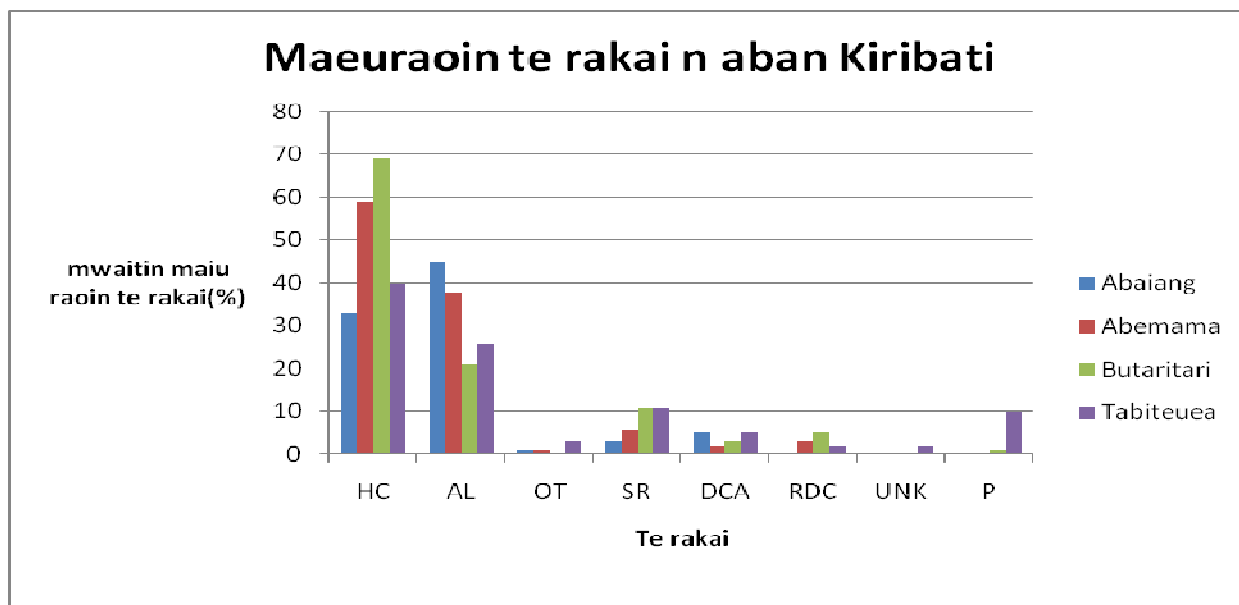
Ibuakon ana maroro te Minita n te Botaki n Akawa ae Hon. Taber-

annang Timeon n tain te anga beebwa aio ao e a manga katurua naba are naakai ngkai a nang manga tauraoui naba n riki bwa matan ao taningan te botaki n akawa iaoni kaibuke ake ana tauraoui n tokarii ai ngaia are a bon riai n karaoui raoui aia mwakuri ngkana arona bwa a kato-kaaki iaon nako kaibuke ake ana mwakuri iai.

E reitia n taku temanna te tia kaira te workshop nakoia Observers aeare bon roko mai Nutiran ibukin kairan te reirei aei bwa aio tiaki tokin te mwakuri ma ai tibwa moan te mwakuri. Ngkana a toka riki iaoni kaibuke ao anne are e a bon moanaki raoui iai te mwakuri. Ai ngaia are e a reita ana taeka ni maroro ni kakatekeraoia inanon aia tai ni karaoui aia beku.

....reitana n itera ni baa 3...

Man te Fisheries Division



HC: e tei ibukin te rakai

AL: e tei ibukin uteuten taari

OT: e tei ibukin aekakin nako te ane

SR: te tabo ao atibu

DCA: rakai ake a tibwa mate

RDC: rakai ake a kaman mate

UNK: rakai ake aki rangi ni kinaki

P: te Bwa

Bibitakin te kabuebue I taari bon ngaia teuana te kawai are e rangi ni kai karika te bitaki nakon maeun te ane (coral) n te aro are e a kona n kabonganaaki bwa kaotan mwiin ana mwakuri bibitakin kanoan te bong nakon maeun te ane I taari. Aanne ngkai te anga ae kabonganaa te Fisheries Division bwa ana kawai are e na`ataia bwa ngkana e rangin n korakora bitakin te ane ao e kaotia ikanne bwa iai bitakin te kabuebue n te tabo ane. Aio te kawai are e kateia temanna te Tia Rabakau are e roko n mwakuri ma te KAP inanon te ririki 2010 ae Simon Donner ao are e katerea nakoia kain te Fisheries Division bwa teuana aia anga n noora ao n ataa rikiraken kabuebuen taari man ana mwakuri bibitakin kanoan te bong.

E ngaie n ane ao n te taibora ane e oti ieta ao e kaota ana riiboti te Fisheries Division ae bwanin are e a tia n karaoia iaon abamwakoro akana aua (4) akanne iaon tuoan maeuraoi te ane te bwa ao ai tabeua riki. Ma, ngkana ko karaua n kamatebwaia te tamnei ane ao n taraa moa maeun te ane ke te Hard Coral (HC) ao e kaotia bwa iai rakan te aba ae Butaritari nakon aaba akana nikirana. Butaritari e roko n te mwaiti ae 69% ni kabotauaki ma Abemama ae 59%, Abaiang 32% ao ai Tabiteuea Meang ae 40%. E oti ikanne bwa e rangi n maeuraoi te ane I Butaritari. Tiaki tii ngaia ma n taarakin riki te taibora ao Butaritari e bon katenai naba

aaba akanne iaon aekakin taian ane ake tabeua. Te bwai ae rangi n kakawaki are a mwaneweia kain te tiim aio n aia riiboti aio bwa te tabo are e rangi n maeuraoi iai te ane ao e na bon rangi n rawata naba iai te ika kiaina ngke e bon rawata kanaia ae reke mai iai, e reke mwengaia iai ao nneia n kataniia mai irouia iika ake a bubura ma ngkana e aki maeuraoi te ane ao e na bon rangi n karako naba te ika ni maeu n taabo akanne.

Kawakinan mwiin te kakae aio e bon rangi n bongana ibukin ibukin te kabotau n aron maeun te ane ao tabeua riki nakon taai aika ana roko ai ngaia are a katurua n kabanean aia riiboti tabeua iango n aron aikai.

- E na kateimatoaaki te kakae (Survey) aio ao ni karoko nako aban Kiribati ni kabane.
- Te Botaki n Akawa e riai n reitaanako ana waaki ake a irekereke ma tararuaan te rakai ma te ane iaon aban nako Kiribati
- Katanakin taabo tabeua I taari n aban nako Kiribati bwa e naakea moa te akawa iai

Wareka reitana n itera n baa 3

FISHERIES DIVISION

Student Page - Marine Turtles

Maeun te Ane n aban Kiribati tabeua

- Karaoakin angaa aika raoroi ibukiiia kaibuke ma booti.
- Reiakinaia te bota n aomata te anga ae ana kona n ibuobuoki iai ni kawakini ao n tararuai rakai ma taian ane.
- Te kakaongora nakon te bota n aomata aron kaka-wakin te ane.
- Ao ai rikoan nako te rongorongo ake ana kawakinaki ibukin manga kabotauakiia ibukin norakin te bitaki n te tai teuana ma teuana.

Kabane mwane ni kabane ibukin karaoan te kakae iaon abamwakoro aikai a bon bane n mwanenaki iroun te KAP 2 are bon te botaki n mwa-kuri are e mena iaan ana tararua Ana Aobiti te Beretitenti.

Tera te ane?

- manin taari aika a uarereke (polyps)
- e kakatinakoa te limestone (calcium carbonate) bwa kamatoan rabwatana
- e kona n bwenaua rabwatana nakon ae maiti ao man Karika te aba mai iai

Tera bongan te ane?

- E totokoa abara man nao aika bubura
- E totokoa kanakinakoan matani-wiin ara bike ao mwengara
- E karika te aba (akea te ane, akea te aba)
- Nneia ika ao manin taari ni mae-ka
- Nneia ika aika a uarereke ni kataniia mai irouia ika aika bubura
- E reke mai iai kanara



The Pacific area supports the world's largest remaining populations of green, hawksbill and loggerhead turtles. There are six marine turtle species that feed and migrate through the Pacific waters. These are the green turtle, the hawksbill turtle, the leatherback turtle, the loggerhead turtle, the Pacific Ridley turtle and the flatback. There is also one record of the subspecies *Chelonia mydas agassi* from PNG.

The Pacific island region is a globally significant area for marine turtle breeding and migration. The coastal populations of the Pacific islands have exploited marine turtles for their meat, eggs, shell and oil for centuries. Cultures and traditions, which historically managed sustainable use and promoted ecological balance, are degrading. The loss of traditional values combined with the negative effects of unregulated adult and egg harvest, habitat degradation, commercial trade and mortalities through incidental capture in fishing gear have accelerated the decline of the marine turtle population. The latter half of the 20th century had been marked by catastrophic declines of sea turtle populations

throughout the Pacific region. Having existed for thousands of years, most marine turtles are now categorized as "Critically Endangered," "Endangered," "Threatened" or "Vulnerable" on the Red List of the World Conservation Union.

Key issues for turtle survival are unsustainable harvesting and habitat degradation. Both of these factors are mainly due to human activities. In the last 10 years concern for turtle conservation and wise use has grown in the region with an increasing number of initiatives being undertaken at local, national and regional levels. This has resulted in the establishment of the Regional Marine Turtle Conservation Programme (RMTCP) and associated active network of government and ngo agencies working together to effect turtle conservation and sustainable use.

Source: SPREP, Marine Species in the Pacific. 2011. (<http://www.sprep.org/topic/marine.htm>)

E katauraoaki iroun Riakaina Teiwaki

Uangaun riki ana Observers Te Botaki n Akawa ake a manga tauraoui naba ngkai n tokarii kaibuke.

Man te mwaiti ane uangaun anne ao iai ngkai uoman ake a tia n toka iaon aia kaibuke ao iaoni kawaina ngkai

ni manga toka naba ake nikirana.

PLANNING UNIT

Iaoni kawaia ngkai n tia auti ni kamwaitoro ake iaon Tabuaeran ma Teraina.



A karaoa mwanangaia ni moan wiikin te namwakaina ae Tuun kain te planning Unit man te Botaki n Akawa nakon te aono n raina ike ana tuoi auti ni kamwaitoro ake iaon Tabuaeran ma Teraina bwa e a bwaka iaa ngkai te kateitei iaioia. N rokoia n aaba akaane ao a kakoouaa ae ngaia iaoni kawaina ngkai n tia auti akanne.

N reitaki ma anne ao n rokoia kain te tiim aio iaon aaba akanne ao a kareketai naba n karaoa aia kakae (survey) iaon kainanoia taan akawa. Oin te kantaninga ni karaoan te kakae aio bwa Keizo Takahashi are bon te tia mwakuri iaan te karikirake aei bwa e tangiria ni kan ataia bwa iai aia kanganga taan akawa n aaba aikai ke tao tera kainnanaoia taan akawa.

Te kakae aio are e na rangi n ibuobuoki ibukin ataakin kainnanaoia bwaai n akawa.

A kabanea teniua tabun te wiki ni mwanangaia aio ike a katairaki inanon banen wiikin Tuun



Mwangan ana tiim te Beretitenti n kaongora iaon Onotoa.



Baika a koreaki inano bon titiraki ake a mwemwe ibukin te botaki n mwakuri ae Te Botaki n Akawa mai imwin kawatan te abamwakoro ae Onotoa iroun ana tiim te Beretitenti are a tibwa karairaki naba n te kauabong ae nako aei. Titiraki aikai ake a irekereke ma te Botaki n akawa n aron teuana te Fisheries Assistant (FA), e kainanoa ana FA ngkai te abamwakoro aio ao ana kaeka iai te botaki n akawa, ae bon iaoni kawaina ngkai n kamwananga-aki ana FA Onotoa.

Te kauoua ngkanne bon Fishing Aggregate Device (FAD) ke te Booera ni kaui ika, a taekinna naba kain te abamwakoro bwa a kainanoia ngkai e nooraki bwa iai ae e a tia ni karaoaki mai imwaina ma te kanganga bwa e aki koro bukin te kantaninga iai. N ana kaeka te Botaki n Akawa are e kawenea nakoia kain te abamwakoro aei bwa e na waekoa n mwananga riki nakon te abamwakoro aio ao ni kabwaka te FAD n te aro bwa e na koro bukin are e a tia ni iangoaki man te moantai..

Te katenua ngkanne bon ibukin te Tiwiita. E nooraki ngkai te kanganga

iaon te abamwakoro aei bwa ti teuana ni kawa ae e maiu iai te Tiwiita bwa te kawa ae Aiaki. A bubuti ngkanne kain kawa ake tabeua bwa terana ngke e kona naba ni kamaiuaki te Tiwiita ni kaawa ake tabeua. Ana kaeka te Botaki n akawa iaon anne e kangai, ana manga karo-koaki riki aia Tiwita ma bwaina nako akea a kainanoaki n karaoan te Tiiwiita.

Ma, imwain waaki akanne ao te moan bwai e na karokoaki moa bon korokoan ana Fisheries Assistant te abamwakoro ae iaan te kantaninga are ngaia raoi te tia bairei aron akanne ma te kauntira ao n tararuai waaki ni kabane.

Te katautau bwa bon Tuurai ao ana bane ni koro bukin iango akanne.

Kanoa man Aquaculture

K-1 Organic Liquid Fertilizer- ana kukune Ambo Aquaculture



K-1 Organic Liquid Fertilizer bon ana kukune ma ana kakaraoi Taiwan Aquaculture are i Ambo are bon bwain teboka te aroka ae rangi n oomwaka ao ni kakai nakon kabirimwaakaan arokam are ko iangoa waekoan maeuna riki aroka ake a kuri rangi n kanganga maeuia iaon Kiribati. N ana kabwarabwara Robert Ren-Mou Chang are ngaia te tia rabakau iaon te kukune aio ao e taekinna bwa e a tia n karaoa te kakae ma te kaakatai iaona ao e kaokoua bwa e bon mwakuri teboka te aroka aio imwiin kabonganaakina nakon arokaia ake a unikii n aia tabo are i Ambo.

Iririkin anne ao bon iai naba aia kukune are a bon tia naba n karaoia iaon kanan te beeki, te moa ao ai te baneawa. Aio are e kabwarabwara naba n taekinna Robert bwa a bon tia naba n kamwarakeia iai aia man ao e bon aki tai birimwaakan iai te beeki ma te baneawa ma tii tiaki tii ngaia bwa e bon rangi n korakora iai kaabungin te moa. Aekakin kanaia maan ae karaoia aio e bon rangin beebete bwa a bon kabonganai bwaai ake a bon reke mai Kiribati n aron irikon te ika ma te buraawa . Irikon te ika ae kanaanana Robert ikai bon

irikon iika ake aikoa bati n raoiraoi.

Ma, e kukurei n taekinna Robert bwa ane iai nanona n kan reireinna aron karaoan kanaia maan aio ao a kona n roko n te Aquaculture i Ambo ao ni kabwanina rongorongona ikekei.

Tiaki naba tii ngaia ma a kona naba ngkai aomata n kabooi aia K-1 Organic Liquid Fertilizer man te Aquaculture naba are i Ambo. E kamataata naba Robert bwa aia kareke mwane ake a reke man kaboan aia bwaai aikai ao ana bon kabonganai ibukin karaon riki aia kakaea iaon bwaai riki ake ana kainnanoi n aia Aquaculture aio.

Kanan te beeki, te moa ao te baneawa.



Rongorongon riki te Aquaculture



E ngae n anne ao Taiwan e a bon tia naba ngkai ni waakina kamaeuan te were are ibukin te kaneweaba nakoia aomata. Te waaki ae a karaoia aio bon ibukin karawataan ao iangoan kakamatakun riki aia aquaculture are i Ambo.

Ma e reitia ao n taekinna riki Robert bwa ngkana e roko n te bubura are e kona n manga kabwaaki i taari ao ana bon kona n karaoa anne n te aro e na buoka naba aron kaokan mwaitin are e tabe naba ngkai n uarereke mwaitina.

N reitaki riki ma anne ao te Aquaculture bon te mwakuri ibukin kamaeuaikin ao kabwebwerakean taian iika inanon te mam ke te ran. Te katoto are ti kona n nooria iaon Kiribati ikai bon kamaeuaikin te baneawa inanon te nei. Tera kaka-wakina ma bonganana?

- E karawataa riki te tanna are e kona n reke bon mai Kiribati.
- E ibuobuoki ni karekea kaubwain te aba
- E uarereke te tibeiti (Space) ae kabonganaaki ma e kaotinakoa kanoana ae mwaiti ni kabotauaki ma aekakin riki maan tabeua.