

Ol tabu eria we komiuniti i manejem olsem pat blong manejmen blong fiseris



Oli raetem liflet-ia blong givhan long ol fising komiuniti, mo olgeta we oli wok wetem, blong setemap mo manejem ol no-take eria (ol tabu eria).



1. Ol tabu eria i wanem?

Ol no-take eria i ol eria we i gat wan ban long fising. Maet oli kolem hem wan resev o eria we i klos, o ra'ui, tambu mo tabu o nara lokol nem we ol fising komiuniti long Pasifik oli bin yusum ova long plante handred yia.

Wan permanent no-take area i wan we i klos oltaem long fising, Wan periodically fished no-take area hemi wan we i klos long fising ova long wan taem we maet i fiu manis nomo o maet i sam yia.

Sam nara kaen i inkludim ol periodically closed area we oli banem fising, long sam stret taem we plante taem i smol nomo blong protektem ol fis we oli stap mekem pikinini o ol spawning aggregation blong ol spisis blong solwota.

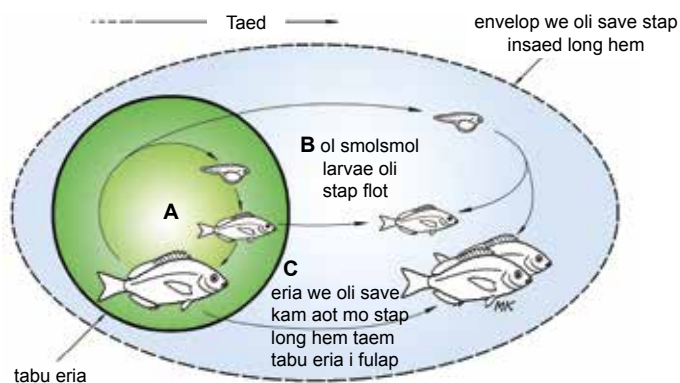
2. Wanem i pepos blong ol tabu eria?

Ol tabu eria we oli klos oltaem oli provaedem sapot oltaem ova wan long taem blong protektem ol ekosistem, ol ples we ol fis i stap long hem mo ol spisis we oli sapotem. Oli hop se ol spisis long ol tabu eria olsem oli save gru, mekem pikinini mo seraot olgeta i go long ol fising eria klosap we ol fisa i save kasem olgeta.

Long ol tabu eria we oli klos ova long wan stret taem mo oli open long fising long wan nara taem, pepos blong olgeta i lelebet sem mak. Taem eria ia i klos, ol fis oli save gru mo mekem pikinini. Taem i open bakegen, yu save kasem plante long ol fis we oli mo big insaed long tabu eria.

3. Long wiswe ol tabu eria oli save inkrisim hamas fis oli save kasem?

Long figa 1, tabu eria hemi stap insaed long blak sekel. Fis long tabu eria oli mekem pikinini mo oli putumaot ol smolmol larvae we maet (A) oli setel mo stap kwaet long tabu eria o (B) flot wetem taed blong go setel mo gru aotsaed long tabu eria. Ol yangfala mo ol fis we oli gru finis, olgeta tu oli muv aot long tabu eria olsem spill-over (C), maet from eria ia i fulap tumas.



Figa 1. Ol smolmol larvae we oli prodius long tabu eria (blak sekel) maet oli (A) setel insaed long tabu eria ia o (B) Flot igo insaed long dispersal envelope we i seraot wetem taed. (C) ol yangfala mo ol fis we oli gru finis oli spill ova long ol eria klosap. (oli tekem tingting ia aot long King, 2007. Fishery biology, assessment and management. Wiley Blackwell, UK)



4. Wea ples, mo long wanem saes, i stret blong wan tabu eria?

Wan tabu eria, we i klos oltaem o we samtaem oli fis insaed long hem, hemi save impruvum namba blong fis we oli kasem, be i no sem mak long evri spisis mo i no kwiktaem evri taem. No mata we ol tabu eria we i mo big maet i save mo gud, be ples we oli stap long hem i mo impoten bitim saes blong hem. Luk long ol tingting daon:

- Putum tabu eria long wan ples we i inkludim sam difren habitat (ples we fis i stap long hem).** Tru long saekol blong laef blong hem, plante spisis oli yusum bitim wan habitat. Sapos i gat plante korel, bed blong si gras mo natongtong long wan tabu eria, tabu eria i save kam wan gud wan (Figa 2). Sam fiu spisis, olsem si-kukamba mo sam natalae, oli nidim eria blong sanbis mo eria we i gat ol korel rabol (pis blong ded korel) long hem, be ol nara spisis i no nidim tufala, sanbis wetem korel rabol, insaed long tabu eria blong olgeta.
- Putum tabu eria klosap long nara impoten habitat.** Tabu eria hemi sud stap klosap long ol nara impoten habitat, no mata we oli no stap insaed long tabu eria. Oli luk se ol tabu eria we oli stap long rif oli gat mo saksas sapos oli putum olgeta klosap long bed blong si gras o klosap long ol natongtong.
- Putum tabu eria long wan ples we i impoten tumas long ol impoten spisis.** Maet eria ia i inkludim eria blong kaka, eria blong mekem pikinini, eria blong spawning aggregation, mo eria blong neseri blong wan spisis.
- Putum tabu eria long wan ples we yu save wajem hem.** Ol memba blong komiuniti oli mas protektem mo gadem tabu eria ia.
- Putum tabu eria long wan ples we taed i ron i go long fising eria.** Ol taed ia maet oli givhan blong karem ol smol-smol larvae igo insaed long fising eria (Figa 2). Ol taed long kos mo insaed long wan lagun long kos plante taem oli go long fored mo bihaen, be oli gat wan taem we i gat wan muvmen long wan daereksen (sapos i no gat ol stret infomesen long saed blong tradisonel save o long saens, yu save faenemaot samting ia sapos yu folem rod blong sam plastik botel we oli gat wet long olgeta ova sam saekol blong taed mo blong mun). Yu mas save se muvmen blong ol larvae oli save kompliketed lelebet mo maet oli rilet long ol taem blong spawning we oli tek ples long wan taed.

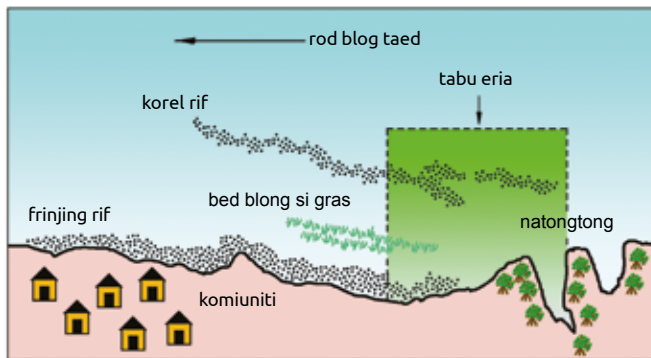


Fig 2. Wan gudfala situesen we wan fising komiuniti i bin putum wan tabu eria blong inkludim pat blong wan ofso rif, wan rif we i klosap long so, ol bed blong si gras mo wan eria blong natongtong. Tabu eria i stap antap long taed we muvmen blong wota i save karem ol larvae igo long fising eria blong komiuniti.

- Sapos i no posibol blong gat wan bigfala tabu eria, plan blong mekem wan we i mo smol.** Ol smol tabu eria i gud blong ol spisis we oli no muv olbaot tumas, olsem nawita, natalae mo sam kaen fis blong rif. Be hemi no save protektem gudwan olgeta spisis we oli muv ova long ol bigfala eria o ples blong kaka. Sam fis, olsem malet, we oli go long wan long distens long kos, wan smol tabu eria i no yusful tumas long olgeta.
- Wok wetem ol komiuniti klosap long yu blong setemap wan netwok blong tabu eria.** Sapos yu save setemap ol tabu eria we oli smol nomo, plan blong setemap plante smol tabu eria olsem olgeta long Samoa o long Coral Coast blong Fiji i bin mekem. Wan netwok blong tabu eria, we wan eria i 10 kilomita aot long ol nekis wan maet i help blong joenem ol ples we ol smolsol larvae oli kamaot long hem mo ol gudfala ples we oli save setel.
- Maet igud blong tinkbaot tu tabu eria, we wanwan i gat difren pepos.** Sapos i gat tu eria we oli klosap be seperet, maet wan hemi save stap olsem wan tabu eria we i stap oltaem mo nara wan we oli save havestem long sam taem long wan fasin we oli save kontrolem.
- No ekspektem blong lukim sam risal naoia nomo.** Plante spisis oli tekem wan long taem blong gru blong kam bigwan mo mekem ol pikinini. Taem ia i no sem mak long evri spisis. (Luk long ol pepa blong toksave.)
- No ekspektem se tabu eria i save wok gud sem mak long evri spisis.** Ol spisis we oli gat ol larvae we oli stap flot long solwota long wan sot taem (olsem troka), maet oli setel klosap long tabu eria. Be olgeta we oli stap olsem larvae blong wan long taem, olsem ol naora, maet oli setel long wan ples we i long wei aot long fising eria blong komiuniti. Luk long figa 3, we i soem ol posibol distens we ol larvae maet oli save muv i go, we i bes long muvmen blong 50 mita long wan dei. Be hemia i wan eksampol nomo we maet i no hapen olsem. Sam long ol larvae oli save luksave mo muv igo long wan rif blong setel, mo ol risej i soem se ol larvae blong plante spisis oli no muv aot long wan long distens olsem yumi i bin ting bifo.

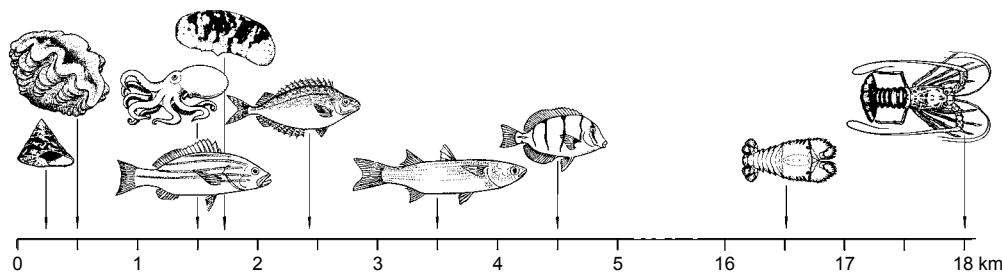


Fig 3. Distens we maet ol larvae i flot bifo oli setel olsem pikinini animol. Hemi bes long muvmen blong 50 mita long wan dei.

5. Hao nao yumi save manejem tabu eria blong yumi?

Wan tabu eria hemi nidim sapot mo manejmen blong komiuniti. Sapos evriwan i agri se oli setemap wan tabu eria mo oli luksave from wanem, maet olgeta oli save rispektem ban long fising ia. Komiuniti i mas makem gud eria blong mekem se evriwan i save ol baondri blong blong tabu eria mo komiuniti i mas panisim eniwan we i brekem ol rul blong no fising.

No mata we komiuniti i save benefit long wan tabu eria we i stap oltaem, plante oli stap open long sam taem blong oli save fising long hem. Sam long olgeta tabu eria ia oli mekem wan disisen blong openem hem long sam taem – maet long ol spesol taem, we i inkludim taem i gat wan mared, taem man i ded mo fanresing. I isi blong ol man i ting se oli mas openem eria o maet wan man i disaed hem wan blong stilim sam fis; problem ia i kam antap taem ol pipol oli luk se namba blong fis long eria i go antap (wanem oli kolem fish jumping long naet oli ripotem plante taem).

Fising we oli no save kontrolem afta we wan tabu eria i open bakegen hemi save kam wan bigfala problem olgeta. Samting ia i save kam antap bigwan sapos eria i open blong longfala taem mo i gat plante tumas man i stap go fising insaed long hem. Maet oli kasem wan namba blong bigfala fis o maet ol bigfala fis i ronwei aot long eria, be ol habitat, speseli ol korel, maet ol pipol oli stap stanap long olgeta mo spoelem olgeta, sapos oli kasem ol animol tru long fasin blong wokbaot long rif. Sapos i gat tumas damej, maet oli no save gohed blong yusum ples ia bakegen olsem tabu eria.

Maet yu tingbaot mekem sam long ol samting ia blong katemdaon ol problem taem tabu eria i open bakegen:

- a) **I gud sapos yu klosem tabu eria oltaem o yu openem wan wan taem nomo be ino evritaem.** I gat mo benefit sapos yu no openem tabu eria nating o sapos taem i klos i gohed long taem lelebet. Taem i open plante taem, i des-tebem laef blong ol spisis we i stap long solwota mo maet hemi damejem ol habitat.
- b) **Openem tabu eria blong wan sot taem nomo.** Limitim taem blong fising i go long haf blong wan dei o anda long haf, mo mekem sua se ol pipol oli save long wanen taem bae i open mo wanem taem bae i klos bakegen.
- c) **Putum wan limit long namba blong ol fisa we oli alao blong go insaed long tabu eria taem i open.** Sapos i gat smol namba blong ol fisa oli no save mekem tumas damej. Ol fisa i mas kam aot long lokol komiuniti nomo.
- d) **Letem ol fisa i tekem ol spisis nomo we yufala i selektem.** Letem olgeta i kasem nomo ol spisis we oli stap gru kwiktaem o wan smol namba blong olgeta we oli gru sloslo.
- e) **No letem ol fisa i kasem sam long ol bigfala fis.** Samtaem taem wan tabu eria i open, ol fisa oli tekem ol bigfala fis we oli save prodiusim mo pikinini. Olgeta bigfala fis oli prodiusim plante plante mo eg; sapos wan woman fis hemi alao blong gru mo dabilem saes blong hem, namba blong eg we hemi putum i save go antap taemes 8 (luk long figa 4).
- f) **Taem yu openem tabu eria, ristriktim kaen fising tul we oli save yusum.** Sam fasin blong fising, olsem wetem net, i mekem mo damej bitim sam nara fasin, olsem fising wetem laen aot long wan bot o kanu.
- g) **Taem yu openem tabu eria, putum wan limit long hamas fis oli save tekem.** Setem wan smol kwota, mo kolektem nomo olgeta fis we yu nidim. Komiuniti i mas agri blong putum bak ban taem oli kasem stret namba ia.
- h) **Tingbaot taem blong openem tabu eria.** I nogud yu openem eria taem wan impoten spisis oli stap brid o oli go tugeta blong spawn.

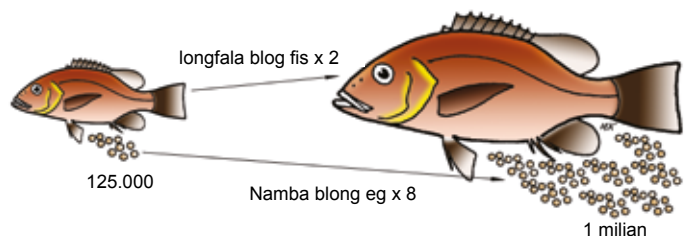
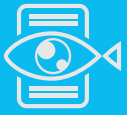


Fig 4. Sapos wan fis i dabolem saes blong hem (x 2) namba blong eg we hemi prodiusim hem i inkris eit taemes (x 8)



6. Hao nao yumi save se tabu eria i benefitim yumi?

Sapos wan manejmen aksen olsem blong mekem wan tabu eria i wokaot gud, yu save harem save taem yu luk long hamas taem o efot i tekem sem namba blong ol fisa blong tekem wan amaon blong kakae, olsem, hamas taem i tekem olgeta blong kasem wan string blong fis, wan basket blong natalae, wan namba blong naora.

Sapos taem ia i go daon, namba blong fis mo ol nara spisis maet i go antap, minim se tabu eria i stap wok gud.

Sapos taem ia blong fising hemi stap go antap, tabu eria i no stap wok gud. Maet i gat nid blong jenisim fasin blong manejmen o tekem sam mo mesa antap long hem. Yu save tokbaot ol kwestin ia long wan komiuniti miting:

- a) **Olgeta pipol blong komiuniti i save gud tabu eria mo ol rul blong hem?** Olgeta oli save gud from wanem i gat wan tabu eria mo oli folem ol rul blong no fising? Sapos no, tokbaot ol wei we oli save folem blong impruvum sitiuesen ia.
- b) **Tabu eria hemi smol tumas o i no stap long wan gud ples?** Luk long Seksen 4.
- c) **Tabu eria i gat tumas polusen we i spoelem hem?** Polusen wetem silt mo sewage hemi wan big problem we i spoelem ol habitat long ol aelan blong Pasifik.
- d) **Ol eria mo habitat aotsaed long tabu eria olgeta oli stap long wan nogud kondisen?** Ol animol we oli produsim long tabu eria oli dipen long ol habitat we i stap klosap, olsem ol bed blong si gras mo natongtong, blong komplitim laef saekol blong olgeta.
- e) **I gat mo pipol we oli go fising?** Sapos i gat mo pipol we oli go kasem mo salem fis, tabu eria we i stap maet hemi no save produsim inaf fis blong tekem ples blong olgeta we oli kasem. Long fiuja, maet i gat wan nid blong ristrik-tim hamas fis oli kasem mo namba blong olgeta fisa.

Ol tabu eria (sapos oli klos oltaem o sapos oli openem olgeta long sam taem blong kasem fis) i wan wei blong manejem wan fiseris. Olgeta i wan impoten tul long tulbokis blong ol manejmen kontrol, we yu save luk sam long olgeta insaed long *Gaed blong ol pepa blong toksave* blong SPC.



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