



Wok Bilong Daunim Ol Hevi Bilong Disasta

Infomesen bilong ol nambawan samting ol lain i bin painimaut long Pasifik. Dispela infomesen i kam long United Nations **Intergovernmental Panel on Climate Change's** (IPCC) Sixth Assessment Report (AR6) on Impacts, Adaptation and Vulnerability

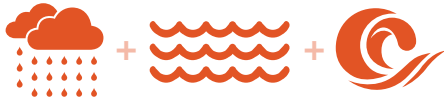


OL SENIS

Taim ol senis i kamap bikos long

OL BIKPELA WEDA NOGUT

i bung wantaim, ol i mekim na ol hevi bilong ol taitwara na klinpela wara i go bikpela moa.



Strong bilong ol tropikel saiklon

i bin go antap moa, na dispela i bin stat long 40-pela yia i go pinis

COMMUNITY-BASED ADAPTATION

em i pasin bilong wokbung wantaim ol lokel manmeri na oganaisesen long wok bilong

disaster planning



Long taim bilong kamap orait gen bihain long disasta, bildim ol samting gen na redi long **ol samting we bai i kamap long bikpela mak moa long bihaintaim**

Taim **strong namba bilong** bilong ol bikpela weda nogut i go antap na i wok long kamapim bikpela senis tru long ol



manmeri



bilding



ekosistem



Pasin bilong putim mani na taim i go long ol **bilding we i ken stap gut taim klaimet senis**

i ken helpim long daunim ol hevi we i ken kamap long bihaintaim.

Ol sistem bilong givim tok lukaut hariap we i bungim

Indigenous Knowledge and Local Knowledge



ol tingting we i kam long sains



OL PASIN BILONG SENIS



OL SOSOL RILESENSIP

i save bungim ol manmeri we disasta i bagarapim wantaim ol sapot na risos, na dispela i save helpim ol liklik-ailan komyuniti long

BILIP LONG OL YET NA KAMAP ORAIT GEN

na kam bek na bildim ol samting gen bihain long ol hevi bilong ol disasta.



Dispela infomesen pepa long Tok Pisin, pastaim tru i bin stap long Tok Inglis, na ol lain long ANU na SPREP i bin tanim I go long Tok Pisin na i raitim. Mipela mekim strongpela wok long traim bihainim gut olgeta toktok na tingting bilong dispela ripot bilong IPCC. Tasol I ken I gat sampela senis I kam insait, long taim bilong tanim tok. Sapos yu no klia gut long ol toktok insait long dispela ol infomesen pepa, plis yu mas raitim pas I go long iceds@anu.edu.au o pccc@sprep.org.

Wok Bilong Daunim Ol Hevi Bilong Disasta

Infomesen bilong ol nambawan samting ol lain i bin painimaut long Pasifik. Dispela infomesen i kam long United Nations **Intergovernmental Panel on Climate Change's** (IPCC) Sixth Assessment Report (AR6) on Impacts, Adaptation and Vulnerability



Namba na bilong bikpela weda nogut i kamap bikos long klaimet senis. Dispela i kamapim ol samting nogut long laip bilong planti manmeri, komyuniti na ol infrastraksa long olgeta hap na tu long ol ekosistem (ecosystem) na ol wok we ol dispela samting i save mekim.^{1}**

WANEM SAMTING I WOK LONG KAMAP

Ol strongpela win na ren weol i kolim saiklon i wok long kamapim ol samting nogut long ol ailan bilong Pasifik.**

Strong bilong ol saiklon i go bikpela moa long olgeta hap bilong graun insait long 40-pela yia i go pinis. Bagarap we i kamap long strongpela saiklon, "Winston" long 2016 i winim 20% bilong GDP long Fiji long tude (em i bin nambawan strongpela saiklon we i winim olgeta arapela saiklon i bin kamap long Southern Hemisphere bipo). Long 2015, strongpela saiklon we ol i kolim Pam i kamapim bagarap long ol sekta bilong agrikalsa na manimak bilong dispela bagarap em i 64.1% bilong GDP bilong Vanuatu na em i kamapim tu taitwara long Kiribati na Tuvalu. Dispela i bin kamapim ol senis we i no gutpela long wok bisnis bilong bringim turis i kam long ol nambis bilong Pasifik.³

Ol samting kain olsem mak bilong solwara i go antap, El Niño-Southern Oscillation i mekim na ol haiwara, ol saiklon na ol senis we ol manmeri i kamapim, i bung wantaim na mekim hevi bilong taitwara i go bikpela, na dispela i mekim na ol man i hatwok moa long kisim ol freswara.** Olsem: long ol ailan bilong Tuamotu,

long French Polynesia, ol taitwara bilong 1996 na 2011 i bin kamap bikos mak bilong solwara i go antap i bung wantaim ol sibruk na dispela i mekim lagun i pulap na i bung gen wantaim ol samting we ol manmeri i bin bildim we i pasim rot bilong ol wara long ron i go i kam namel long

* = i no gat strongpela tingting tumas

** = strongpela tingting

*** = bikpela bilip tru

Ol bikpela weda nogut i save kamap planti taim moa moa yet, winim bipo, na dispela nau i wok long daunim tru strong bilong ol sistem bilong envoirnmen na bilong ol manmeri long stap wantaim, na ol dispela sistem i bagarap na i no inap kamap orait gen olsem ol i bin i stap long en bipo.^{2}**

ol liklik ailan. Long 2011, taitwara we i bin kamap long lagun we i lukluk i go long nambis bilong Majuro Atoll, long Marshall Islands, i bin kamap, long wanem, bikpela mak long solwara we i kamap long taim bilong La Niña i bung wantaim ol nomol haiwara we i save kamap.⁴

Bikpela senis i bin kamap long ol sistem bilong givim tok lukaut hariap, bikpela moa em long wok bilong ol dispela sistem long painim, skelim, lukluk na putim was na toksave long bikpela weda nogut. I gat nid yet long kamap gut moa long mekim ol dispela wok na bai i gat nid tu long helpim lokel gavman long kirap na mekim ol dispela wok na skelim gut ol samting long sait bilong pasin na tingting, ol kalsa, na mani we i pasim dispela wok long kamap gut.⁵

Sapos pasin bilong wok gut namel long ol sekta na namel long ol ejensi i kamap gut moa, dispela bai helpim ol long redi gut bipo long disasta na painim ol gutpela rot bilong stretim ol hevi insait long Pasifik. Moa wok i mas kamap namel long wok menejimen bilong daunim hevi bilong disasta na wok bilong skelim na makim wanem developmen i mas kamap pastaim na wanem developmen i mas kamap bihain. Dispela i mas kamap insait long wok bilong basetim ol mani na bilong kamapim ol developmen long kantri, na long wankain taim ol i mas putim mani i go insait long ol rot bilong mekim ol dispela wok i kamap.⁶

WANEM NARAPELA SAMTING I KEN KAMAP

Hevi bilong solwara i go antap long ol ailan bilong Pasifik i bung wantaim ol bikpela taitwara we i kamap, i ken bagarapim gutpela sindaun bilong ol manmeri we i stap arere long nambis.^{7}** Sapos mak bilong solwara i go antap inap 5 i go long 10 cm (we ol i tok olsem em bai kamap long ~2030–2050), namba na taim, bilong ol taitwara we isave kamap bai kamap dabol (o kamap planti taim moa) long planti hap bilong Tropical Pasifik.⁸ Ol liklik rip ailan na ol liklik ples long solwara we ol manmeri i save yusim na putim ol hevi long ol i ken lus olgeta, bikos mak bilong solwara i go antap na graun i raus hariap bikos long ol bikpela weda nogut na/o ol wok ol manmeri i save mekim. ** Dispela em ol i bin mekim ripot long en long Takuu, Papua New Guinea.⁹ Mak bilong solwara i go antap em i bai mekim ol samting nogut long ol liklik ailan.

1 SPM.B.1

4 15.3.1.1

7 8.4.5.4

2 SPM.B.1

5 15.5.7

8 Sapta 15, Executive Summary

3 Sapta 15, Executive Summary

6 15.7

9 15.3.3.1.2

Ol liklik ailan kantri bai pilim yet ol senis long sait bilong tempritsa, ol tropikel saiklon, solwara solap, taim nogut bilong bikpela san, na taim bilong ren.***Bikpela weda nogut na ol samting i kamap long klaimet bai wok yet long kamapim senis long ol ples we ol manmeri i stap long en, ol infrastraksa, helt na gutpela sindaun, wara na kaikai na ol rot bilong mekim mani na kalsa.**Dispela kain hevi bai narakain long wan wan ples. Olsem: wanwan ailan em i wanem kain o em long taun o longwe long taun.¹⁰

Dispela hevi bilong tropikel saiklon i go bikpela moa long bihaintaim em i ken kamapim bikpela bagarap long ol ples we ol manmeri i stap long en na long ol infrastraksa, na tu em bai salensim wok bilong daunim hevi bilong disasta.¹¹ Ol setelmen we i kamap nating na i no bihainim plen na lo bilong gavman, em ol i ken kisim bagarap long ol bikpela weda nogut bikos ol i no yusim gut graun, na tu, ol i ken kisim bagarap bikos gavman i save painim hat long mekim ol i bihainim ol lo bilong yusim graun na bihainim ol lo bilong wokim ol biling.

OL SAMTING YUMI KEN MEKIM

Community-based adaptation, em i wanpela rot we komyuniti yet i mas go pas long wok na ol lokel manmeri na oganaisesen i tingting long wanem samting bilong mekim long daunim ol hevi bilong disasta we i ken kamap. Insait long Pasifik, ol wok bilong community-based adaptation i mekim ol dispela wok. Olsem: helpim planti manmeri moa long save long ol samting i kamap long klaimet na givim save long ol manmeri na bai ol i ken klia gut long senis i wok long kamap long envaironmen na wanem ol wok ol i ken mekim long ol dispela senis i wok long kamap. Wanpela stadi insait long Fiji i painimaut olsem laik bilong ol manmeri long lainim samting na mekim senis, em i go antap taim ol i kisim infomesen bilong klaimet.¹²

Pasin bilong putim mani, tingting na taim long wokim ol infrastraksa i gutpela moa long daunim ol hevi bilong klaimet senis i ken daunim sampela hevi we i ken kamap long bihaintaim. Olsem: ol sola sistem (solar system) we i stap long graun i ken helpim ol manmeri long kisim yet pawa long taim bilong ol bikpela weda nogut. Long Tonga, i gat ol gutpela sola sistem we i stap long graun na ol i bin stap gut long taim bilong saiklon Gita, na dispela i helpim ol long kisim yet pawa saplai taim ol i wok long wokim gen ol samting we saiklon i bin bagarapim.¹³

Plantu taim, ol memba bilong komyuniti i save bungim na yusim Indigenous Knowledge and Local Knowledge (IKLK) wantaim ol save bilong tude long saiens na ol infomesen bilong weda long redi gut long ol bikpela weda nogut. Insait long Samoa, ol manmeri i save larim sampela ples i stap bilong yusim long taim bilong saiklon, na long Vanuatu IKLK i save helpim ol manmeri long luksave olsem tropikel saiklon i wok long kam taim mango i putim flawa hariap bipo long taim bilong en na ol trausel i lusim bambis na i go insait moa long bus long putim ol kiau bilong ol. I gat evidens i soim olsem ol lain long Niue, Tonga, Vanuatu na Solomon Islands i wok long bungim na yusim ol lokel save na tingting wantaim ol save na tingting bilong saiens.¹⁴

Long taim bilong disasta, ol manmeri we yumi save stap wantaim i save mekim bikpela wok long konektim ol lain i stap insait long hevi wantaim ol lain we i stap autsait, bai ol i ken givim ol sapot na ol risos.** Long ol liklik ailan, ol sosol netwok i ken helpim ol lain long lainim long stap long nupela ples taim ol i givim save long ol samting bilong dispela nupela ples na mekim ol samting long hlepim ol lain i pilim olsem ol i kamap pat bilong nupela hap ol i stap long en. Dispela i save helpim ol komyuniti long bilip olsem ol i ken helpim ol yet na strongim tingting na save bilong ol long kamap orait gen maski i no gat helpim i kam long autsait.¹⁵

Pasin bilong putim mani, tingting na taim i go long wok daunim ol hevi bilong disasta em inap long daunim ol hevi we i kamap long dispela klaimet senis na helpim tu long kamapim developmen we i stap longpela taim.¹⁶ Ol eksampel bilong dispela em pasin bilong strongim ol wok bilong National Meteorological and Hydrological Services na pasin bilong kamapim ol gutpela sistem bilong givim tok lukaut hariap long stat i go long pinis. Taim ol i disainim ol sistem bilong givim tok lukaut hariap, ol i mas tingim ol manmeri husat i ken kisim bagarap long ol bikpela weda nogut, na ol dispela sistem i mas gat gutpela plen long wanem samting bilong mekim.

Ol insurens plen em ol gutpela rot bilong ol manmeri we i ken kisim bagarap long bikpela weda nogut long karamapim ol samting nogut we i ken kamap. Olsem: long Vanuatu, ol i wok long toktok i stap long apim mak bilong insurens we ol man i ken kisim long karamapim ol hevi i kamap long ol saiklon na ol taim nogut bilong bikpela san. Tasol, pasin bilong mekim ol haus i inapim wanpela stendet disain long kisim insurens i ken stopim ol manmeri long kisim dispela insurens helpim. Na tu, pasin bilong no gat trast long ol insurens kampani em i wanpela narapela samting we i ken stopim ol manmeri long kisim dispela insurens helpim. Pasin bilong i no gat trast, em ol i ken stretim dispela taim ol i go lukim lokel bank o ol kredit union we i wok long mekim dispela wok, na long wankain taim tu, ol i ken yusim ol kempen long sosol media long mekim ol manmeri long kisim save long ol insurens we i save karamapim ol bagarap i kamap long bikpela weda nogut.¹⁷

Ol eksampel bilong ol hevi we i ken kamap na ol wok bilong stretim dispela na daunim ol nambawan samting nogut we i ken kamap. Wanwan sistem bilong givim tok lukaut hariap i mas konek wantaim wanpela klia plen bilong wanem samting long mekim.

Ol hevi we i ken kamap long ol sosio-ekolojikal sistem i stap long ol nambis



Ol rot bilong tok lukaut hariap long solwara i kirap bikos long win na ren na ol eksen plen



Ol rot bilong tok lukaut hariap long ol sik we i ken kam long doti wara

Ol hevi we i ken kamap long ol ekosistem long graun na long solwara



Ol rot bilong tok lukaut hariap long fiseris (fishery) long solwara i hot na ol samting bilong hukim pis



Ol toksave i toktok long ol senis insait long ol ekosistem na rot bilong putim dispela save i go insait long ol plen

Ol hevi we i ken kamap long ol infrastraksa, ol netwok na sevis



Tingting gut long ol klaimet senis long bihaintaim na wokim ol samting

Ol hevi we i ken kamap long stendet bilong laip na pasin bilong stap wankain olsem ol narapela manmeri



Ol sistem bilong protektim ol manmeri long taim bilong bikpela weda nogut

Ol hevi we i ken kamap long helt bilong ol manmeri



Ol sistem bilong tok lukaut hariap long bikpela tempritsa inap long bagarapim helt bilong ol manmeri na ol eksen plen



Wok bilong was long helt bilong ol manmeri na ol sik na wok bilong tokaut pastaim long ol sik we i ken spred i hariap

Ol hevi we i ken kamap long rot bilong kisim kaikai



Wok bilong toksave pastaim long ren na taim nogut bilong bikpela san long helpim manmeri long makim ol sit na wokim ol eksen plen



Wok bilong tok lukaut hariap long prais bilong kaikai na ol eksen plen

Ol hevi we i ken kamap wara



Ol rot bilong tok lukaut hariap long taitwara na taim nogut bilong bikpela san na i konek i go long ol eksen plen

Ol hevi we i ken kamap long gutpela sindaun insait long kantri bilong pasin bilong muv i go long narapela kantri



Givim save long ol manmeri long painim wok na ol narapela rot bilong helpim ol manmeri bai ol i ken sindaun gut long nupela ples

* = i no gat strongpela tingting tumas

** = strongpela tingting *** = bikpela bilip tru

10	Sapta 15, Executive Summary	12	15.6.4	15	8.5.2.4.1
		13	Sapta 18, Boks 18.3	16	15.5.7
11	15.3.4.1; 15.3.3.3	14	15.6.5	17	15.6.3