

# Agenda 20.0 - FINPAC Project

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# Objective

- To provide an overview of the FINPAC Project and inform the council of the achievements made under the project
- Present the end of the FINPAC project



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# FINPAC

Climate and disaster ready communities  
through improved national meteorological services



# The Project

## Objective:

Reduced vulnerability of the Pacific Island Countries' livelihoods to the effects of Climate Change

## Purpose:

Improved capacity of the Pacific Island Countries' National Meteorological Services to deliver weather, climate and early warning services in cooperation with and for the benefit of villagers in Pacific communities

## Duration

2013-2017



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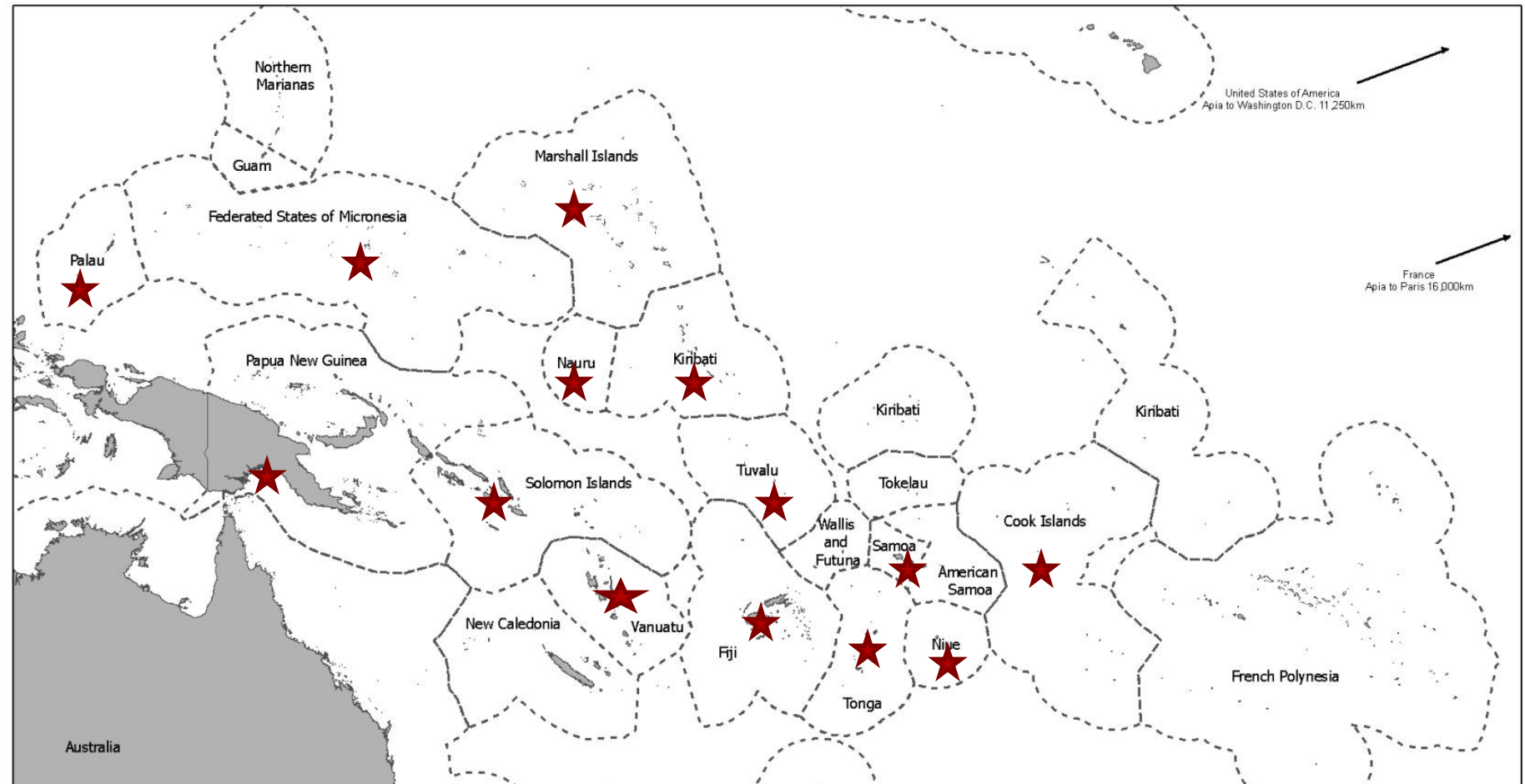


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## Regional Map



**GEOGRAPHICAL COVERAGE OF FINPAC: Cook Islands, Federated States of Micronesia, Fiji, Kiribati, Marshall Islands, Nauru, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu**

# Two Components



## Result 1

- Improved and new weather and climate forecasts and warnings by NMSs

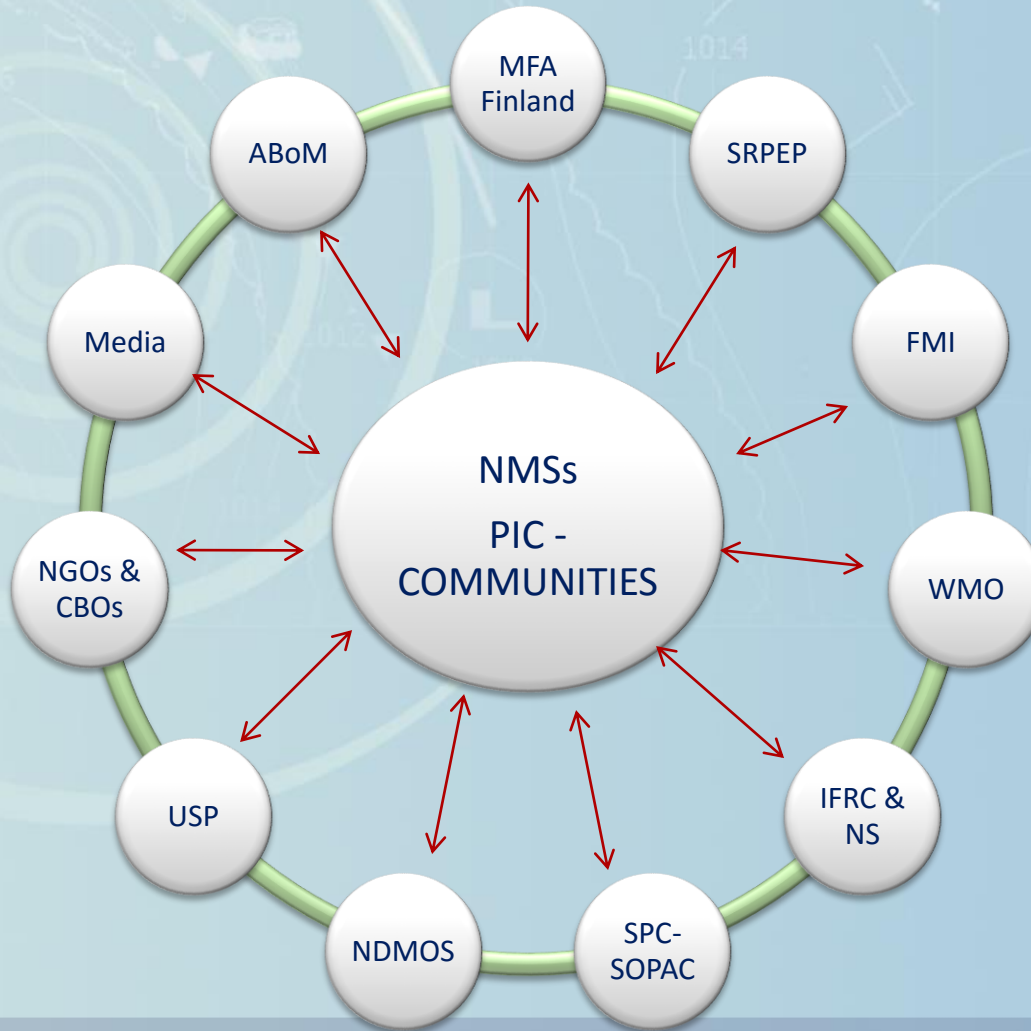


## Result 2

- Improved ability of the NMSs to respond the needs of villages with regard to hazardous weather and climate change



# Support in Partnership



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# RED CROSS PACIFIC NETWORK



# RED CROSS PACIFIC EXPERTISE



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3,500 Volunteers



---

100 local branches  
on 50 islands



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Community disaster  
Preparedness and  
First Aid



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climate change  
adaptation



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Community Vulnerability  
Capacity Assessments



# SUMMARY



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# Capacity building in QMS for aviation weather services

- Three QMS workshops were held to built the capacity in QMS:
  - Apia 2013
  - Nadi 2014
  - Alofi 2014
- Roving Pacific Aviation team established to support NMHSs. Deployed Fiji expert to assist Niue, Solomon to assist Samoa



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# Support by FINPAC to strengthen the observations systems

- Assessments of NMSs in Cook Islands, Fiji, FSM, Marshall Islands, Niue, Palau, PNG, Samoa, Solomon Islands, Tonga and Vanuatu.
- The Niue automatic weather station was installed and launched.
- NIWA is installing these observations stations in the region
- FINPAC supporting Nauru and Tokelau with basic weather instrumentations



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# Building the capacity of NMHSs to provide weather services

- During 2016 training missions of FMI-built SmartMet system in:
  - Fiji
  - PNG
  - Samoa
  - Solomon Islands
  - Tonga
  - Vanuatu (also installation)



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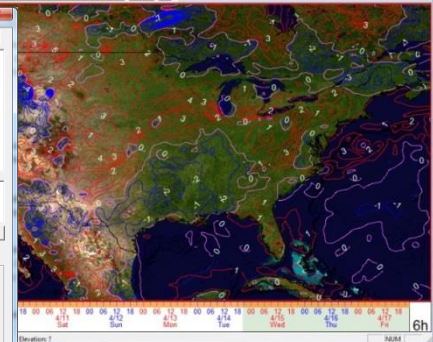
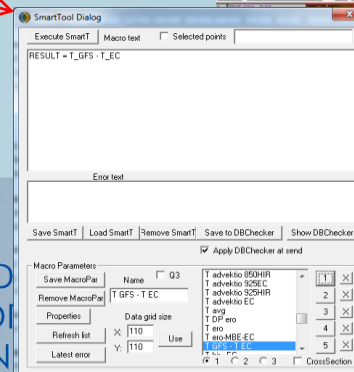
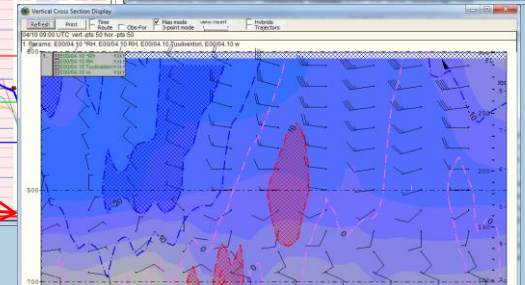
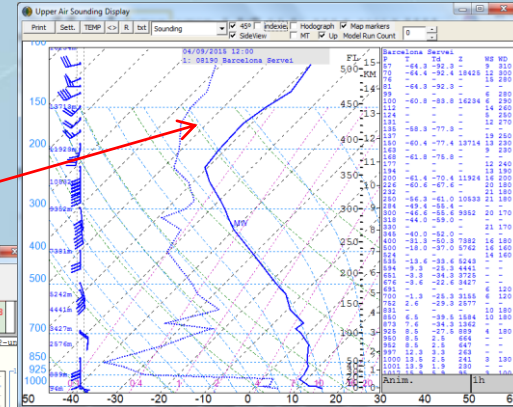
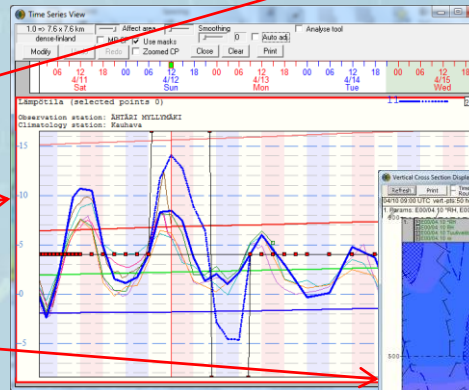
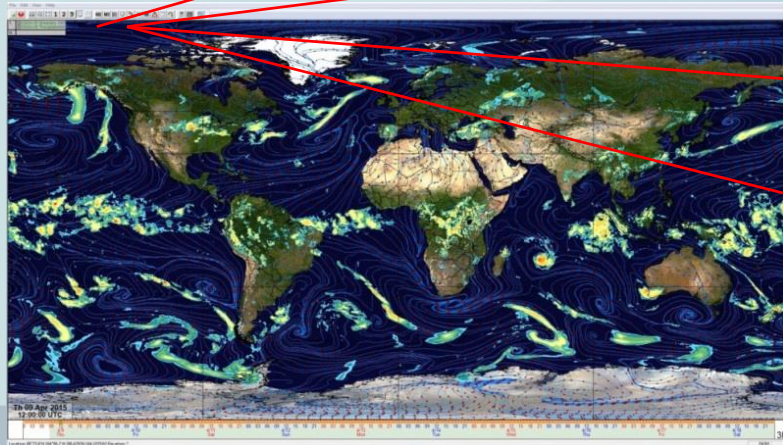
# Building the capacity of NMHSs to provide weather services

- Workshop on localization and utilization of SmartAlert software (Nadi, 9/2016)
- Followed by SmartAlert in-country Installation and training missions in:
  - Fiji, PNG, Samoa, Solomon Islands, Tonga and Vanuatu



# SmartMet is

- Forecaster workstation that collects all available data into a single platform
- Possibility to modify model data and create automatized forecast products



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# SmartAlert is

- Forecaster tool to issue warnings in digital, e.g. CAP (Common Alerting Protocol) format.

## CAP Message

```
<?xml version="1.0" encoding="UTF-8"?>
<alert xmlns="urn:oasis:names:tc:emergency:cap:1.2">
  <identifier>2.49.0.0.882.0.WS.17022193256.3jdGF43RcoK1QVtXZil</identifier>
  <sender>forecast@mnr.gov.ws</sender>
  <sent>2017-02-22T08:32:56-11:00</sent>
  <status>Actual</status>
  <msgType>Alert</msgType>
  <scope>Public</scope>
  <info>
    <language>en-WS</language>
    <category>Met</category>
    <event>Wind Advisory</event>
    <urgency>Future</urgency>
    <severity>Moderate</severity>
    <certainty>Possible</certainty>
    <effective>2017-02-22T08:32:56-11:00</effective>
    <onset>2017-02-22T13:00:00-11:00</onset>
    <expires>2017-02-23T01:00:00-11:00</expires>
    <description>Marine wind Advisory (is now/remains) In Effect
  </description>
  <parameter>
    <valueName>WindDirection</valueName>
    <value>0.0</value>
  </parameter>
  <parameter>
    <valueName>WindSpeed</valueName>
    <value>20</value>
  </parameter>
  <areaDesc>Southern Coastal Waters</areaDesc>
  <polygons>-13.409145,-172.073255,-13.466694,-172.9325
-13.465739,-172.932178,-13.465594,-172.932121,-13
-13.518608,-172.800874,-13.518735,-172.800795,-13
-13.519788,-172.800341,-13.519925,-172.800339,-13
-13.520198,-172.80032,-13.520206,-172.800273,-13.4
-13.520613,-172.799963,-13.520763,-172.799903,-13
```

SmartAlert

Papua New Guinea

Undo Redo Save Area select Free area selection Latest publication time: XX.XX.XXXX XX:XX PUBLISH Editable warnin

6 h

WARNINGS

- Heavy rain warning
- Flood flood/severe warning
- Land slide warning
- Hall warning
- Wind warning strong/gale/storm
- Drought/severe drought warning
- Frost warning
- Tsunami warning
- Tropical cyclone warning
- Marine tsunami warning
- Marine wind warning strong/gale/storm
- Marine tropical cyclone warning

Background color Aug 15, 2017

Forecaster view

PAPUA NEW GUINEA GOVERNMENT  
National Weather Service

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Strong Wind Warning for Waters of Finschaff thru to Vitiaz Strait to Northern PNG/Indonesia Border

Valid from 8/13/2017, 8:44:17 AM to 8/14/2017, 6:00:00 AM  
Active for next 4 hours 13 minutes

A Strong Wind Warning is now in force for Waters of Finschaff thru to Vitiaz Strait to Northern PNG/Indonesia Border. Southeast winds, 33 knots.

Issued by Papua New Guinea National Weather Service at 8/13/2017, 8:44:22 AM (17 hours 1 minute ago)

Warnings in text format for Mon Aug 14 2017

End product (google map etc...



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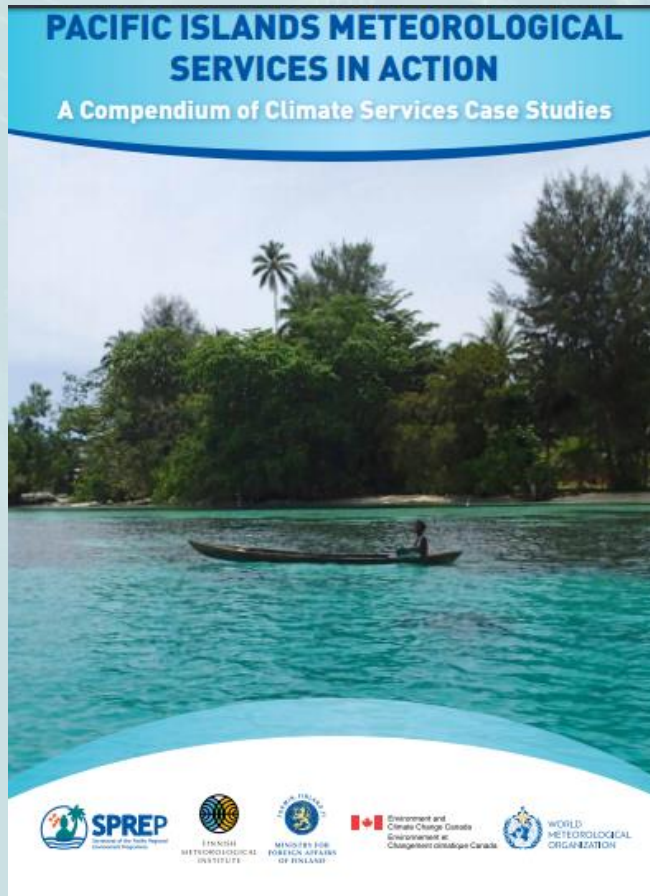


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# Support to Climate Services



- Convened the first PICS Panel meeting
- Write-shop – Compendium
  - 19 articles from 12 countries telling your stories on the application of climate services to the different sectors



# Communications and the Media

- Media Trainings bringing the national media and the NMHSs to discuss opportunities and challenges to weather information and provide simplified language to terms or translate it to the different languages



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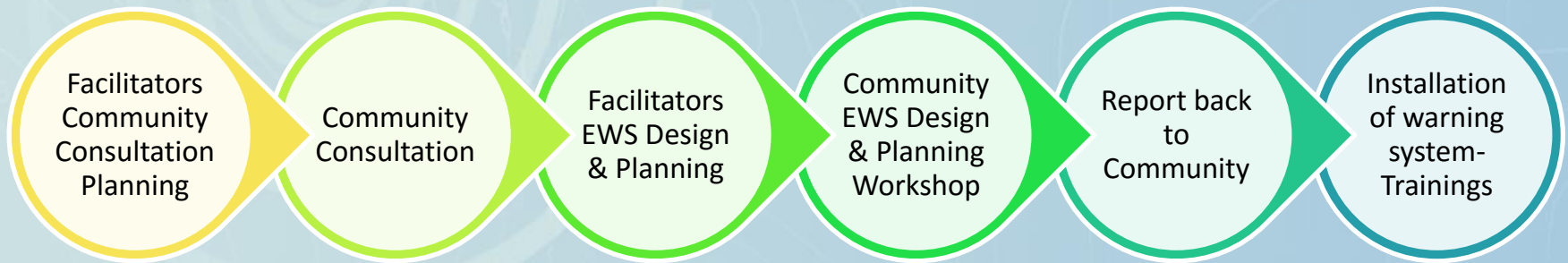


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# Engaging Communities - Process



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# Engaging Communities

- Going down to the community level to find out to their needs





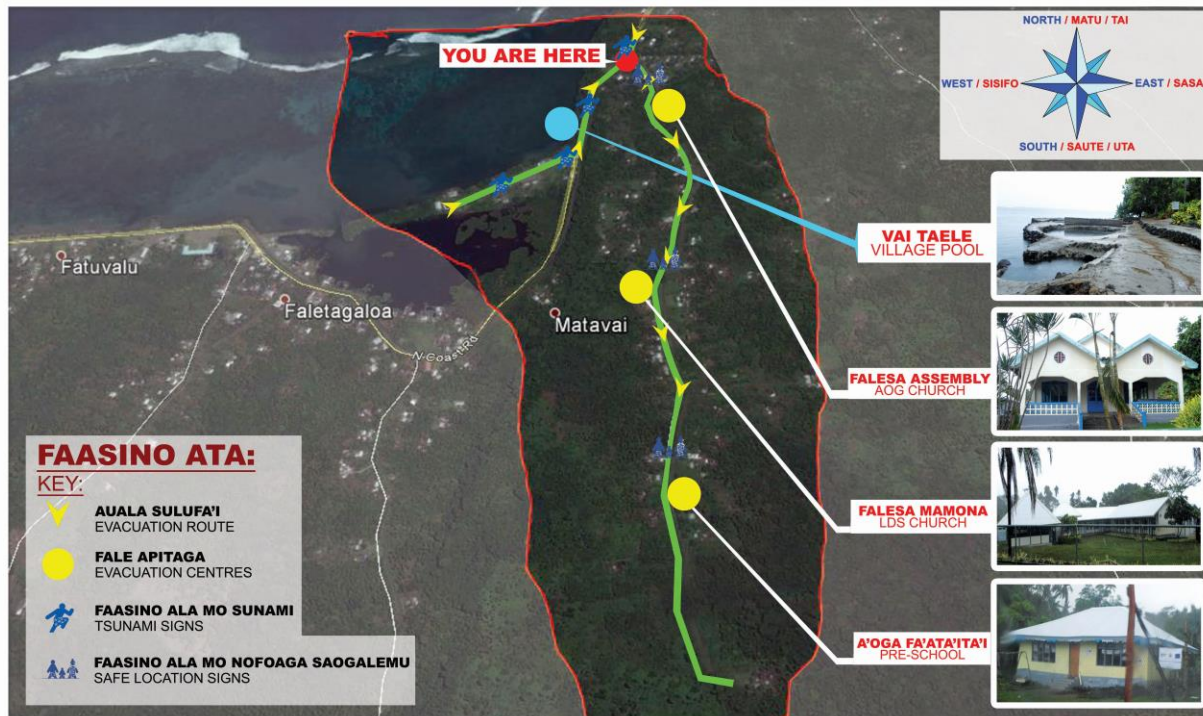
# Training and Planning



# Samoa-Lefagaoli'i

## LEFAGAOALI'I

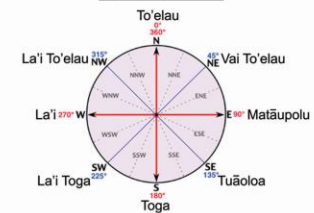
- GALULUE MO SE AFIO'AGA UA LAVA TAPENA MO FESUIA'IGA O LE TAU MA FA'ALAVELAVE MATUIA
- WORKING TOWARDS A CLIMATE & DISASTER READY COMMUNITY



### NUMERA MO FA'ALAVELAVE FA'AFUASE'I: EMERGENCY NUMBERS:

- TINEI MŪ / FIRE: 994**
- LEOLEO / POLICE: 995**
- TA'AVALE FALEMA'I / AMBULANCE: 996**
- FA'ALAVELAVE MATUIA / DISASTER: 997**
- KOLUSE MŪMŪ / RED CROSS: 23686**
- OFISA VA'AITAU / MET OFFICE: 20855**

### IGOA O SAVILI



**Fa'atupeina: SPREP ma le Malo Finland**  
Funded by SPREP through the Finland - Pacific ( FINPAC ) Project



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# Vanuatu Community Preparedness



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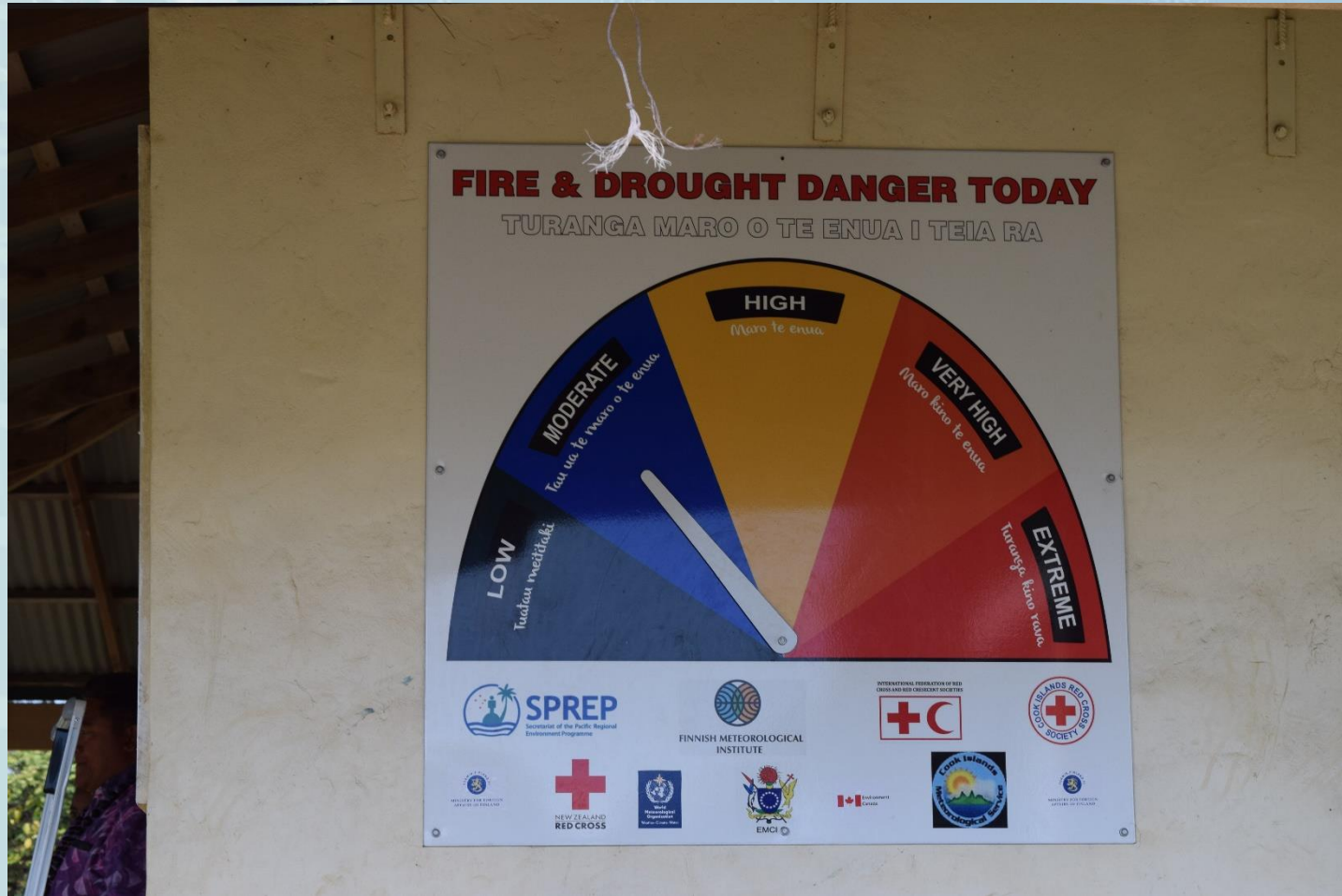


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# Cook Islands Community Response to drought



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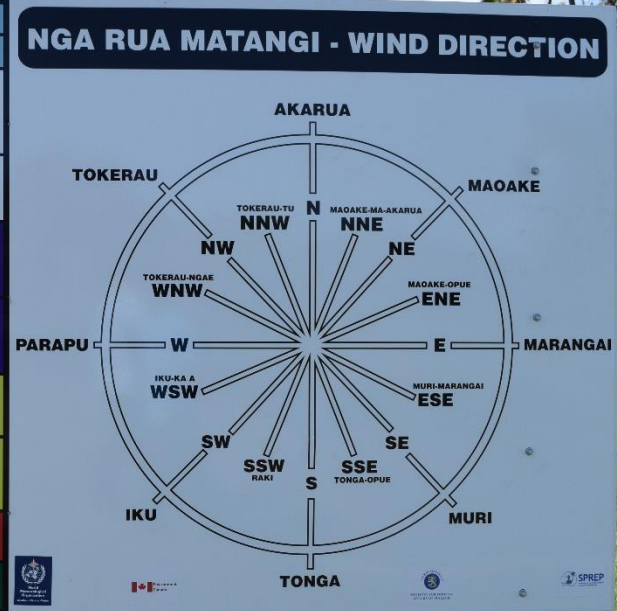


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# Response to cyclone

| WIND OBSERVATION CHART   |                  |                    |  |  |                   |
|--|------------------|--------------------|--|--|-------------------|
| WIND SPEED PER KM  | WIND SPEED KNOTS | WAVE HEIGHT METERS | DESCRIPTION  | ACTION TO TAKE   |                   |
| 39 - 49  | 22 - 27          | 3 - 4              | Strong Breeze: Large branches in motion, whistling heard in overhead power or phone lines, umbrellas used with difficulty.<br>Ka oriori te au atava rakau mamaata, ka maniania katoa te matangi. |  |                   |
| 50 - 61  | 28 - 33          | 4 - 5.5            | Near Gale: Whole trees in motion, difficulty walking against wind.<br>Ka oriori te tumu rakau katoa, ka ngata' te aere i roto i te matangi.  | Keep listening to the weather report. Roof securely tied down.<br>E taimea akateatea mamo teia no te matangi rinui.  |                   |
| <125   | 34 - 47          | 5.5 - 7.5          | Gale: Breaks small branches off trees; progressive to the next stage.<br>Ka atiahi te au atava rikiriki o te au tumarakau, e ka rinui atu te matangi.  | Be on alert. Stay indoors. Set up window shutters.<br>Kia vai teatea mameo. Tamomou atu i te paruru maramarama.  | <b>CATEGORY 1</b> |
| 125 - 163  | 48 - 63          | 7 - 10             | Strong Gale: slight structural damage.<br>Matangi rinui, manga kino te ka tapu kite au aro.  | Listen to the weather report. Follow cyclone track with your map. Stay inside.<br>Akarongorongo atu i te akakitekite anga rova i runga i te ratou.                               | <b>CATEGORY 2</b> |
| 165 - 224  | 64 - 85          | 9 - 12.5           | Storm: trees uprooted, considerable structural damage.<br>Urila e ka inga te au tumu rakau e ka takino katoa atu i te au aro.  | Stay inside.<br>Auraka e aere ki vao.  | <b>CATEGORY 3</b> |
| 225 - 278  | 86 - 107         | 11.5 - 16          | Violent Storm: wide spread damage.<br>Matangi urila rinui e te atea tana ngai te takino.   | Move to evacuation centre if house is unsafe. Stay indoors and lie low.<br>Aore atu kite au punanga me kare tou ngutuare e makutu ana. Auraka aore atu ki vao mei toau ngutuare. | <b>CATEGORY 4</b> |
| 279 above  | 107 above        | >14                | Total Destruction<br>Ka kino te au mea katoa.  |  | <b>CATEGORY 5</b> |
| <b>STAND DOWN AND DAMAGE ASSESSMENT IF REQUIRED.</b><br>Kua maru te au me ravarai. Kua atea ke atu te matangi rinui. |                  |                    |  |  |                   |



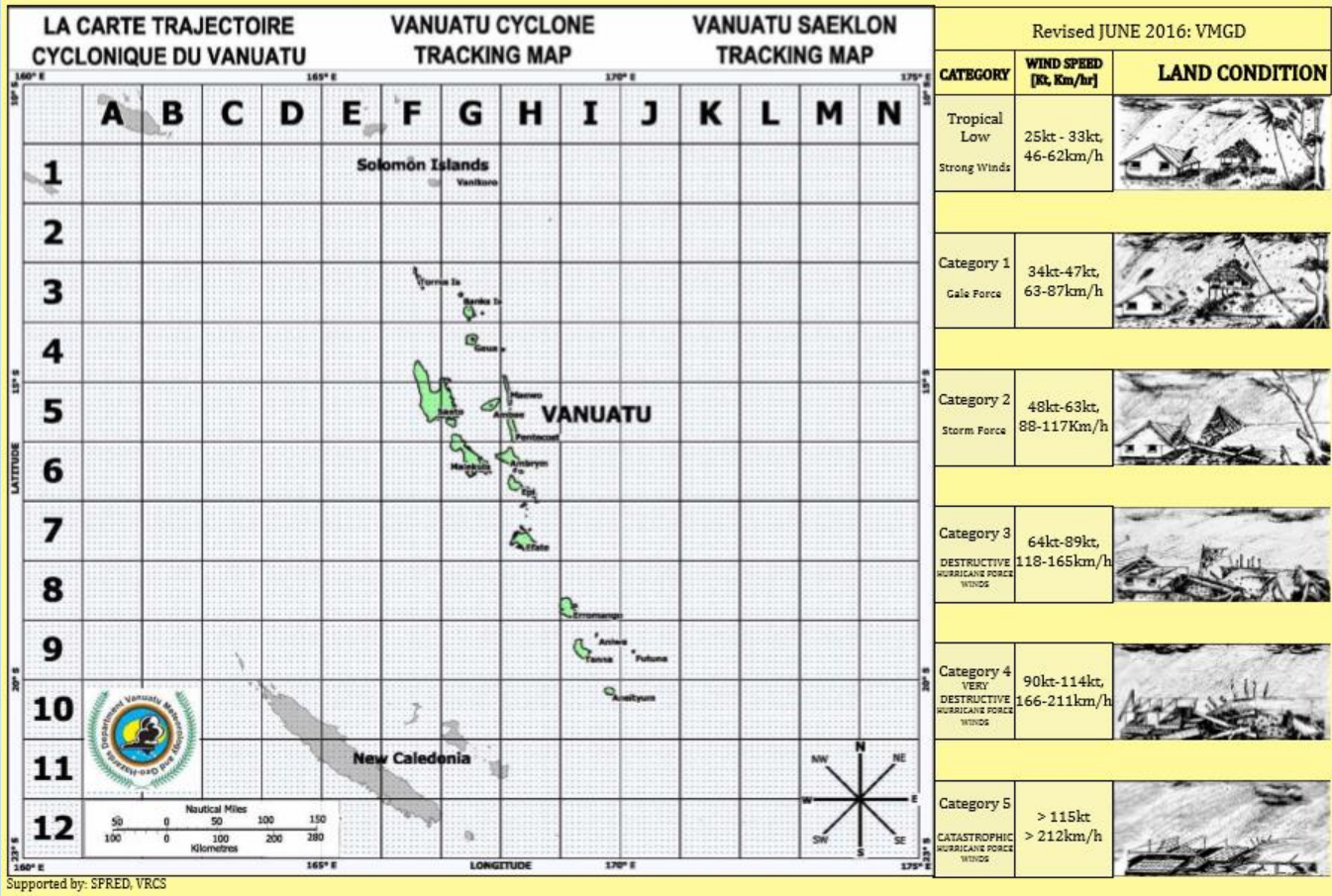
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| Revised JUNE 2016: VMGD                              |   |   |  |
|--|---|---|--|
| CATEGORY   | LAND IMPACT DESCRIPTION   | SEA STATE CONDITION   | SEA STATE DESCRIPTION  |
| Tropical Low<br>Strong Winds                         | [Tropical Low]<br>Negligible house damage to old thatch houses and some garden crops like banana trees. Whistling heard in power and telephone wires, whole trees in motion. Strong winds over open flat land of 46 - 62km/h.   |  | Large waves begin to form, white foams create sea more extensive from breaking waves. White foams blown in streaks along wind direction.         |
| Category 1<br>Gale Force                             | [Tropical Cyclone]<br>Twigs break off trees. Slight structural damage occurs - roofing dislodged, larger branches break off. Garden crop damage. A Category 1 TC = strongest winds are GALE with typical gusts over open flat land of 65 - 87 km/h.   |  | Moderately high to high waves of greater length, dense streaks of foam   |
| Category 2<br>Storm Force                            | [Tropical Cyclone]<br>Considerable structural damage. Trees uprooted, heavy damage to some crops. Risk of power failure. A Category 2 TC's winds are STORM force with typical gusts over open flat land of 103 - 169 km/h.  |  | Very high waves with over hanging crests, dense white streaks, tumbling of sea becomes heavy with visibility affected                            |
| Category 3<br>DESTRUCTIVE HURRICANE FORCE WINDS      | [Severe Tropical Cyclone]<br>Some roof and structural damage. Some local thatch houses destroyed. Power failures likely. A Category 3 cyclone's strongest winds are DESTRUCTIVE winds with typical gusts over open flat land of 170 - 224 km/h.   |  |  |
| Category 4<br>VERY DESTRUCTIVE HURRICANE FORCE WINDS | [Severe Tropical Cyclone]<br>Significant roofing loss and structural damage. Many thatch houses destroyed and blown away. Dangerous airborne debris. Widespread power failures. A Category 4 cyclone's strongest winds are VERY DESTRUCTIVE winds with typical gusts over open flat land of 203 - 279 km/h. |  | Phenomenal high waves, sea is covered with long white patches of foam, the air is filled with foam and spray, visibility very seriously affected |
| Category 5<br>CATASTROPHIC HURRICANE FORCE WINDS     | [Severe Tropical Cyclone]<br>Extremely dangerous with widespread destruction. A Category 5 cyclone's strongest winds are CATASTROPHIC winds with typical gusts over open flat land of more than 219 km/h.   |  |  |
| <b>CONTACTS INFORMATION/EMERGENCY NUMBERS</b>        |   | <b>NUMBERS</b>  | <b>ACCESS</b>  |
| VMGD ADMINISTRATION                                  |   | <b>[678] 24686</b>  | OFFICIAL HOURS   |
| VMGD WEATHER FORECAST DIVISION                       |   | <b>[678] 22932</b>  | 24/7   |
| NDMO   |   | <b>[678] 22699</b>  | OFFICIAL HOURS   |
| POLICE   |   | <b>[678] 22222</b>  | 24/7   |



### NDMO COLOUR ALERTS FOR PREPAREDNESS MEASURES

| BLUE ALERT  | YELLOW ALERT   | RED ALERT   |
|---|--|---|
| <p>VMGD is forecasting a Cyclone within 24 hours - <b>BE PREPARED</b></p> <p>When a BLUE ALERT is issued, you need to prepare as Gale Force winds will start within 24 hours</p> <ul style="list-style-type: none"> <li>Stay turned and informed through Radio, TV, SMS, or Internet</li> <li>Secure and stow away loose material and rubbish, tie down roof, prepare and erect cyclone shutters</li> <li>Secure valuable items and important documents in waterproof containers or plastic bags</li> <li>Cut down dangerous trees and branches, trim bananas and cassava crops</li> <li>Prepare a plan to keep your animals safe</li> <li>Prepare water, food, lamps, torches, candles, matches</li> <li>Make sure phone is charged and has credit</li> <li>Make sure radio is on and has spare batteries</li> <li>Identify the strongest area in the house</li> <li>Determine the nearest evacuation centre or safe place and the distance and time involved to get there</li> <li>Pack an evacuation kits with cloths, essentials medications, etc</li> <li>Support your family and neighbours especially the most vulnerable in your community</li> </ul> | <p>VMGD is forecasting a Cyclone within 12 hours - <b>GET READY, ACT NOW</b></p> <p>When a YELLOW ALERT is issued, you need to take action as Gale Force winds will start within 12 hours</p> <ul style="list-style-type: none"> <li>Stay turned and informed through Radio, TV, SMS, or Internet</li> <li>Bring together people you are responsible for, including bringing children back from school</li> <li>Put adequate fuel into vehicles and park safely</li> <li>Secure and store boats in safe areas</li> <li>Install cyclone shutters and tape windows and louvers</li> <li>Finalise all BLUE ALERT activities urgently</li> <li>Put and keep animals in safe areas</li> <li>Consider distance and time required to the evacuation centre or safe place and move early if you live in an unsafe house or area</li> <li>Recheck all water, food, phone, radio and other emergency supplies</li> <li>Dismantle HF radio system and store in a safe area or water proof container</li> <li>Support your family and neighbours especially the most vulnerable in your community</li> </ul> | <p>VMGD is forecasting that a Cyclone is imminent - <b>STAY IN SHELTER OR SAFE PLACE</b></p> <p>When a RED ALERT is issued, you need to stay in a safe shelter</p> <ul style="list-style-type: none"> <li>Stay turned and informed through Radio, TV, SMS, or Internet</li> <li>Turn off all gas and electricity and unplug all electrical items from the sockets</li> <li>Stay in the strongest and safest part of your house or the evacuation centre and do not go outside</li> <li>Stay away from doors and windows and keep them closed and locked</li> <li>Remain indoors or in safe place and continue to listen to the radio and do not go outside until NDMO issues the ALL CLEAR after the VMGD cancels the cyclone warning for your area</li> <li>Take care to avoid dangers caused by fallen powerlines, trees, damaged building and other debris</li> <li>Support your family and neighbours especially the most vulnerable in your community</li> </ul> |

Listen to the radio and check SMS for Tropical Cyclone location coordinates to track Tropical Cyclone location on Tracking Map.

| RADIO BROADCAST FREQUENCIES |             |  |                                 |
|-----------------------------|-------------|--|---------------------------------|
| STATION                     | FREQUENCY   | TIMES                                  | COVERAGE AREA                   |
| RADIO VANUATU               | MW 1125 KHZ | 24 Hrs                                 | SHEFA & TAPEA                   |
|                             | SW 7260 KHZ | 08:00 - 17:30 Hrs                      |                                 |
|                             | SW 3945 KHZ | 05:00 - 09:30 Hrs<br>16:30 - 23:30 Hrs |                                 |
| CAPITAL FM107               | FM 100      | 24 Hrs                                 | VANUATU                         |
|                             | FM 107 KHZ  | 24 Hrs                                 |                                 |
| BUZZ FM                     | FM 96 KHZ   | 24 Hrs                                 | PORT VILA                       |
| PARADISE FM [RADIO VANUATU] | FM 98 KHZ   | 24 Hrs                                 | PORT VILA                       |
| HALO FM                     | FM 98.1     | 06:00 - 18:00 Hrs                      | TORBA, SANMA, FEINAMA & NALAMPA |
| RADIO LIFE FM               | FM 90       | 24 Hrs                                 | PORT VILA                       |



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# Evacuation



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## Roof Tight Down



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# Legacy of FINPAC and Many First's

- Convening the first meeting of the PMC Panel (PICS Panel)
- Tools introduced are now used operationally in NMHSs
- Contributing to bridge the divide between the media and the NMHSs
- Bringing the Media for the first time to cover the PMC meeting



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# Legacy – Profiled the PMDP

- SPREP – first technical project to be managed under the PacMetDesk when it was established
- It has strengthened the role of the PMDP in providing the services and support to the SPREP member countries and provided a lot of lessons learned for future projects



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# Legacy – NMHSs Engagement in Communities

- In some countries, it has engaged weather forecasters for the first time with communities to discuss how their products are used for decision making. Other NGO's and partners are now also actively engaging the NMHSs to assist with community based activities



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# MOU between NMHSs and National Societies

- The experience of NMHS, NDMO and national red cross societies working together has strengthened this partnership and led to interest in ongoing collaboration. Solomon Islands Met Service and Solomon Islands Red Cross signed an MoU as a result of the FINPAC project to continue collaboration.



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# Legacy – The FINPAC Way in Communities

- The FINPAC approach developed by IFRC, SPREP and national partners in engaging communities on early warning system and developing activities is now adopted by the IFRC in their subsequent community projects in the region with National Red Cross Societies.



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# Establishing the Ministerial Meeting on Meteorology

- The Ministerial Meeting was a delivery of the project and is now owned by the PMC



# Looking Ahead

- New MoU between SPREP and IFRC to continue working together signed
- MoU soon to be signed between SPREP and FMI for technical support for the SmartMet and SmartAlert
- Community engagement for community based early warning system and the Early Warning Platform were submitted to CREWS for funding and were discussed by the task team of the project



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# Recommendations

- The Meeting is invited to:
- **Acknowledge** the kind contribution of the Government of Finland in supporting the NMHSs since 2006 and supporting the FINPAC project from 2013 to 2017
- **Acknowledge** the technical support from the Finish Meteorological Institute
- **Acknowledge** the successful activities carried out under the project in the various NMHSs and communities in the region
- **Recommend** NMHSs to support the national red cross societies and other community mobilizers to ensure strong collaboration developed under FINPAC can continue.
- **Recognise** that the MoU signed between Solomon Island Red Cross and the Solomon Island Meteorological Service is a great example of sustainability and collaboration to get information to the last mile



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# Recommendations

- **Recommend** NMHSs and their regional partners engaging national red cross societies or other NGO's early in program design processes to ensure public weather information can be easily understood and used to inform early actions at the community level
- **Recognise** existing tools and processes developed under the FINPAC
- **Encourage** the NMHSs to work closely and build relationships with the National Media (print and broadcasters) as a medium to have wider access to public weather information
- **Recommend that Donors and Partners** continue support to NMHS and their partners to replicate the community early warning system activities piloted under the FINPAC to other communities



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