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CLIMATE

USER MANUAL Fisheries Early Warning and Emergency Response (FEWER)



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USER MANUAL: FISHERIES EARLY WARNING AND EMERGENCY RESPONSE (FEWER)

Prepared by: ICT4Fisheries Consortium

under contract through the Marine sub-component of the Investment Plan for the Caribbean Regional Track of the Pilot Program for Climate Resilience, co-implemented by the Caribbean Regional Fisheries Mechanism (CRFM).

CRFM Secretariat Belize, 2018

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Foreword

This document was produced under the Marine sub-component of Component 4, Applied Adaptation Initiatives, of the Caribbean Regional Track of the Pilot Programme for Climate Resilience (PPCR).

As a programme of the Climate Investment Funds (CIF), PPCR helps developing countries integrate climate resilience into development planning and investment. The PPCR comprises 28 national programmes and two regional tracks (the Caribbean and the Pacific) across the developing world. The CIF, through the Inter-American Development Bank (IDB), has provided grant funding to implement the Caribbean Regional Track of the PPCR. The University of the West Indies, Mona, through its Mona Office for Research and Innovation (MORI) is executing the PPCR regional programme. The Caribbean Regional Fisheries Mechanism (CRFM) is co-implementing the Marine sub-component of PPCR Component 4 to reduce the impact of climate change related risks on the fisheries industry in the Caribbean.

The Marine sub-component of Component 4 seeks to reduce the risks to fishers associated with climate change and variability. To this end, a consultant was contracted to develop an early warning and emergency response system (EWERS) for fishers in Grenada, Dominica, Saint Lucia and St. Vincent and the Grenadines; and to provide associated training. The specific deliverables of the consultancy are:

- 1. Inception Report
- 2. Reports of stakeholder consultations with proposals for each country
- 3. Memoranda of Understanding among stakeholder groups for each country
- 4. Prototype EWERS for testing
- 5. Draft user and administrator manuals for EWERS
- 6. Report of training workshops and associated materials including impact assessment tool
- 7. Final EWERS, including e-services, installed and tested
- 8. Final user and administrator manuals for EWERS.

The EWERS has come to be referred to as Fisheries Early Warning and Emergency Response (FEWER). In its capacity as co-implementing agency for the Marine sub-component of PPCR Component 4, the CRFM is directly responsible for technical oversight of FEWER development and reporting.

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1. What is FEWER?

Fisheries Early Warning and **Emergency Response**, FEWER, is one of several tools designed to reduce the risks faced by small-scale fishers. No single tool can meet all fishers' needs nor work under all conditions and in all circumstances. Nevertheless, FEWER can play an important part by helping fishers to better prepare, respond and recover when dealing with emergency situations or natural disasters.

FEWER is a component of the mFisheries mobile application ("app") suite. It contains eight modules: Local Ecological Knowledge (LEK), Messaging, Weather, Alerts, Emergency Contacts, Emergency Procedures, Damage Reporting and Missing Persons. Let's look at how these can help in different stages of an emergency situation.

What can I do?	Whi	ch Module?	How?			
Reduce risks		LEK	• Record anything in the marine environment that should be noted to reduce fishers' risks			
EVERY DAY		Messaging	• Keep in touch with other fishers to be aware if, where and when anyone goes missing			
Prepare BEFORE	Č	Weather	 Receive and share information from local and international sources with indicators when things look risky 			
an emergency	!	Alerts	 Receive from and send alerts to Fisheries, Met and Disaster Offices, and other fishers 			
Respond DURING		Emergency Contacts	 Access up to date Emergency Contacts directly Beceive trusted guidance on procedures to 			
an emergency	⋛	Emergency Procedures	follow in emergency situations			
Recover AFTER an		Damage Reporting	 Share reports based on property damage with the Authorities 			
emergency	2	Missing Persons	 Broadcast information to help in the recovery of missing fishers. 			

FEWER aims are to assist with:

- Fewer delays and confusion as a result of clear trusted communication
- Fewer losses and anguish because you receive and heed early warnings
- **Fewer** post-disaster issues as a result of increased emergency response
- Fewer uninformed fisherfolk because you share knowledge with friends and communities

2. Why would I use FEWER?



Fishing is the second most dangerous job in the world! Going to sea is risky business. You may use FEWER every day to reduce risks as well as prepare for, respond to and recover from many hazards. Together with your VHF radio and mirror, FEWER is a fishers' tool: Use the FEWER **Local Ecological Knowledge** (LEK) module to record anything at sea or on shore that fishers should note to reduce their risk. This can include unusual though not threatening weather systems, unfamiliar land formations and even sargassum.



Use the FEWER **Messaging** module or other familiar messaging apps to keep in touch with other fishers so you can all know if any go missing and have some idea of where they may be



Use the FEWER Weather Module to check the **Weather** forecast each day and to plan your next trip before heading out to sea. You will be able to compare what the local Met Office says against what international sources say. The app will automatically indicate when conditions are risky.

Use the FEWER **Alerts** Module to check if you received any notifications from the Fisheries Department, Met office, Disaster Office or other fishers about potentially unsafe conditions at sea or on shore. When *you* send a FEWER **Alert** your recipients immediately know something important requires their attention.

Use the FEWER **Emergency Contacts** Module to become familiar with the agents you need to contact in case of emergency and reach them easily



Use the FEWER **Emergency Procedures** Module to become familiar with the necessary actions or steps you need to take in various emergency situations



Use the FEWER **Damage Reporting** Module to record when your property is damaged from a natural disaster and can gather and send this information to relevant Authorities



Use the FEWER **Missing Person** Module to quickly and easily broadcast information about a fisher who goes missing and increase the chances of finding and helping him.

3. What do I need to use FEWER?

To use all the features of FEWER, you need to have an Android phone and mobile data service. Though you won't be able to send or receive information outside of this mobile data service, both the phone and the app can do other things that can reduce your risks as well as help to prepare for, respond to and recover from emergencies. If you have an iPhone you can access many, but not all, of FEWER's features on your phone through the browser. Smart phone users can save on mobile data charges by using WiFi when it is available. Users of regular phones and certain vhf radios can **receive** FEWER alerts if the country has the necessary relay facilities.

3.1 Are there recommended phones for using FEWER at sea?

The ocean is a harsh environment, so proper phone choice and care are essential. With the proper choice and care, a smart phone is a versatile and powerful tool of a fisher's trade alongside other essential tools. A rugged phone case and waterproof bag are also essentials. Here are some of the features to look for in any smart phone that you wish to take to sea:

Feature Category	Feature	Feature Target			
Ruggedness	Environmental test limits	MIL STD 810G			
	Ingrass Dratastian (ID)	IP Dustproof level ≥ 6			
	ingress Protection (IP)	IP Waterproof level \geq 7			
Casing	Fitness for outdoor use	Non-slip / non-smooth casing			
Network	2G Network	GPRS/EDGE ^{*1}			
[*1 Dependent on	3G/ 4G Network	HSDPA, HSDPA+ (1900MHz) ^{*1}			
territory's mobile	Band/s	GSM Quad Band: 850, 900, 1800 $\&$ 1900 MHz *1			
networks]	WLAN	WiFi			
Display	Screen size	\geq 3.5 inches			
	Resolution	≥ VGA (640x480)			
	Pixel Density	≥ 200 PPI			
	Touch Screen	Touch Screen			
Sensors	GPS	True GPS			
	Orientation and Movement	Compass (Orientation sensor/ Magnetometer/ Accelerometer)			
	Image size	Rear Cam Image Size ≥ 5 MP			
Operating Platform	Android OS 4.2 or later	Android OS 4.2 or later			
	Storage	\geq 16GB			
Data Storage	SD Card	≥ 2GB			
	RAM	≥ 1GB			
Processor	Speed and class	\geq 1GHz Single Core			
Battery	Capacity	≥ 4000 mAh			

3.2 Can I use my current phone to access FEWER?

Yes. However, the phones must have similar set of features as described above. Phones should the Network, Display, Sensors, Operating platform, Data Storage, Processor and Battery features specified. If the phone does not have these features, then you will be unable to find FEWER in the play store for installation.

4. How do I get FEWER?

4.1 Do I have to pay to get or to use FEWER?

No. FEWER is free to download and to use. As some features require data service, you must either have a data plan from your mobile service provider at a cost or use FEWER with a WiFi connection. If you do not have a plan, you cannot use any of communications services once you leave the free WiFi area.

4.2 Do I need to put FEWER on my phone?

To get all FEWER features, yes. If you have an Android phone, you must first install FEWER on your phone. You may also access the limited features available through the FEWER web app from your phone's browser, although this is less recommended. If you have a regular (not smart) phone, you will only be able to receive FEWER Alerts.

4.3 How do I install FEWER on my Android phone?

To get the FEWER application onto your Android phone, you must get it from Google Play Store:

- 1. Tap on Play Store icon >on 2. Type "FEWER" in the the Home screen or App Drawer
- Search window
- 3. Tap "Install" on the FEWER listing screen







4. When the installation is done, FEWER is on your Android phone and ready to set up.

5. How do I set up FEWER after installation?

To set up FEWER after installation, you must confirm the Google account to use and select your home country. Here's what you need to do:

1) Tap "Open" button on FEWER listing screen



2) Confirm sign in request



3) Select your home country



 Confirm the Google account to use for registration.



5) A page will display until complete



6) You are now on the FEWER Home Screen



6. Why do I need to sign in?

This makes sure that everything you do in FEWER is kept for your reference later and FEWER doesn't have to ask you for the same information on different occasions. You only sign in the first time you use the app.

7. Why do I need to give FEWER permissions?

FEWER uses many channels like phone, email and WhatsApp to communicate. Permission to access your contacts is necessary so messages are sent to and from you. You will be asked to give FEWER permission to access different features of your phone when you start the app and some modules for the first time.

Look out for permission requests to:

- 1. **access your device's location**: The first time you access a module that requires locationbased services such as Weather and Damage Reporting. This, for example, allows the app to automatically fill in your location in damage reports that you prepare
- 2. make and manage phone calls: The first time you start the Emergency Contacts module
- 3. **send and view SMS messages**: This is required if you wish to receive alerts by SMS and if your country supports this
- 4. **access photos, media and files on your device**: This is requested the first time you access the Emergency Procedures module or create a damage report or missing persons report. This access allows you to use your camera to take pictures and videos or select from your existing photos of damage for you to include directly in your damage reports.

Once you allow permission to use any of the above one time, FEWER will not ask you again.

8. How do I set up FEWER some time after installation?

If you are **setting up** FEWER later, having previously installed it:

- 1. Tap the **FEWER** icon on your Home screen
- Perform steps 2, 3, 4, 5 and 6 in Section 6: How do I set up FEWER after installation?



9. How can I access FEWER if I don't have an Android phone?

If you have a smart phone that is not Android, you can still access some of FEWER's features. This is how:

- Tap the icon for your browser on the phone's Home screen
- Click on the address bar in the browser.
- 3. Type <u>http://ewer.fish</u>
- 4. Press the enter/go button



- 5. Register or enter your login info on FEWER Home screen
- 6. Tap the menu button

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https://www.google.tt/?gfe_rd=cr

Google

Google offered in:

ALL IMAGES

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7. Select Modules

Trinidad & Tobago

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8. You are now at the FEWER Home screen







10. How do I use FEWER?

10.1 How do I access the FEWER modules?

- 1. To access the FEWER modules, you must 2. Then the FEWER home screen appears open the FEWER app by tapping on its icon in your phone's Home Screen or in the App Drawer:
 - and you tap on the module of your choice. Here we have selected Weather





10.2 What are the names of the FEWER modules?

Weather	<u> </u>	Alerts
Emergency Contacts	⋛	Emergency Procedures
Damage Reporting		Missing Persons
LEK		Messaging

10.3 FEWER Weather

10.3.1 What does the FEWER Weather module do?

The FEWER Weather module lets you:

- 1. view summary or details of current and forecast weather from local and international sources at home and abroad
- 2. share weather details with others
- 3. check high and low tides
- 4. browse other mobile apps that may be of interest to fishers.



1. For summary weather info, tap of the Weather icon.



- 2. To get more, tap det
- 3. To change to the other weather source, the local Met office, tap the **overflow menu** icon
- 4. Tap change source

5. Select the different source. For e.g. the Grenada MET Office shown



Summary weather info GND



Detailed weather info GND

♦ CONNECTIONS CONNECTIONS

Image: Connection of the connection of

Country Source to MET

6. This displays the weather 7. You can also check the 8. e.g., Dominica weather is details provided by the local MET Office

weather in a different country by tapping change country

displayed as shown:



FEWER Weather shows whatever information is available from the international source (Open Weather) and from the local one (the Meteorological Office). Open Weather shows wind speed and direction, cloudiness, pressure, humidity, sunrise, sunset. The local information provided by the Met Office depends on the country.

10.3.3 What do the different Weather symbols mean?





Pressure







Sunset



Humidity

Visibility

Sunrise

Temperature

Wind

10.3.4 How do fishers know if there is cause for concern?

FEWER automatically indicates if the weather should be of concern to fishers in 3 ways:



10.3.5 How does the Weather module show if there is a warning or emergency?

In FEWER, the following notification icons are used to indicate a warning and an emergency. They mean:



10.3.6 How can I share FEWER Weather information?

- 1. Tap on Share icon
- Select the application you want to use to share Weather info, for example email by tapping on its icon (e.g. Gmail)

0 IL 13 - 1 A.27

- For example, using email, In the "To:" textbox, type the recipient's email address.
- 4. Tap the send icon





		• 1)	
Share Via			
WhatsApp	Copy to clipboard	Save to Drive	Messages
\sim	M	f	
Messenger		Facebook	Discord
		D	<
ES Note Editor	ES Save to	ES Sender	Send by LAN

10.3.7 How can I see tide information and other apps?

1. On the FEWER Weather Home screen (summary info), tap the **Tides** tab 2. On the FEWER WeatherHome screen, tap theSuggested Apps tab

3. You can **view** any of the suggested weather-related apps directly from here

	\$ 0	💎 🎽 77% 📋 8:39			* 🛈 💎	🎽 76% 📄 8:46			>
Weather		÷	~	Weather		:	←	Weather	
WEATHER	TIDES	SUGGESTED APPS	w	EATHER	TIDES	SUGGESTED APPS	w	EATHER	TIDES
Source	e: Op	er	1	High Tide	Fri 10:18 am	2m		Dhagag	of Moon
		°C		Low Tide	Fri 1:57 pm	Ľ	1000	Pliases	
	R	ain w 75%	1	High Tide	Fri 7:56 pm	0.5ft		My Moo	n Phase - l
	Cloud	y: / 5%		Low Tide	Sat 3:50 am	-0.7ft		Calenda	r
	Ν	lore Details ⊙	1	High Tide	Sat 11:31 am	0.3ft		Tide For	ecast
'ed Thu	Fri	Sat		Low Tide	Sat 3:42 pm	0.1ft			
			1	High Tide	Sat 9:01 pm	0.5ft		Global T	ïde
		- mi		Low Tide	Sun 4:47 am	-0.8ft			
- 25 °C 26 - 27	°C 26 - 27 °	26 - 27 °C :					C	Tides Cl Free	narts Near
Rain Clear	Rain	Rain							
								WindGu	ru
blaying Weather nada	for:	CHANGE COUNTRY	Disp Gren	laying Weather ada	for: CH	ANGE COUNTRY	Disp Gren	laying Weather ada	for:
	0				0				0

10.4 FEWER Alerts

10.4.1 What does the FEWER Alerts module do?

The FEWER Alerts module allows you to:

- 1. Capture, send, share and receive useful and timely information about a potential hazard
- 2. Receive information about a potential danger to the fisher community from authorities and other fishers

10.4.2 How do I see FEWER Alerts that are relevant to me?

FEWER Alerts may be sent to all FEWER users in a country or to community-based groups. To view or send to a Group, you must join. Here's how:

1. Tap on the **Alerts** icon on the FEWER Home screen.

2. You will see the Alerts Home screen with a list of all FEWER Groups. Tap the blue Join button next to the one you wish to join 3. You will see all the current Alerts in this Group. Here for example you see two: Bad Weather and Rough Seas Alert.



To select a group that you have already joined, instead tap "View" by the appropriate group in the list. Each Alert shows the sender as well as the date and time the alert was sent and the location of the place where it was sent. You have the option to share. FEWER provides several standard alerts for you to select and send quickly. You can also compose and send your own custom alert.

10.4.3 How do I send an Alert to a group or to all FEWER users?

To send a FEWER Alert to a group, you select the group then compose and send the Alert. FEWER Alert provides a preconfigured set of alerts which includes; Bad Weather, Rough Seas, Engine Troubles, Man Overboard, Boat on Fire, Injured Person onboard, Boat Damaged/sinking, Pirates, Need Fuel and Need Ice. To alert, just the National Fishers' Group or all FEWER users in your country, that the seas are rough, there are high swells at shore and it is a severe situation:

- 1. In the Group, tap + icon to create Alert
- 2. Select Alert type: Rough Seas in this example
- 3. Select Rough Sea type: High Swells at Shore



Ire

Group alerts are received immediately. Alerts that are selected to be sent to all are moderated by a FEWER administrator before broadcasting.

10.4.4 What are the other standard alerts I can send with FEWER?

FEWER provides standard alerts for bad weather, rough seas, need fuel, engine troubles, need ice and pirates. For bad weather, you can specify the type of bad weather, for example low visibility, heavy rain or high winds. For rough seas you can also specify the type: coastal tidal surges, high swells at the shore, high swells in open water, high waves at the shore, high waves in open water and wind against the tide. In each case, you can further indicate if the condition is fair, bad or severe.

2. Select Alert type: Other

10.4.5 How can I compose my Alert in FEWER?

1. In the Group, tap + icon to create Alert



■ 🛛 🛛 🗣 🕻 🗢 🖄 🗣 🎽 92%	11:22
Sending To: FEWER Fishers' Training Group-St Vin and the Grenadines	cent
Audience: Send To All Man Overboard	
Boat on Fire	*
Injured Person onboard	Ŧ
Boat damaged / sinking	
Pirates	*
Need Fuel	
Need Ice	
Other	
2	

10.4.6 What else can I do with FEWER Alerts?

A couple other things you can do with Alerts are:

- 1. You can share alerts as you do for FEWER Weather details using the standard **share** icon
- 2. You can also rate alerts to indicate if you think they are accurate. To rate an alert positively, you tap on the up arrow and to rate it negatively you tap on the down arrow. The rating count will change for all to see. Over time, this is a useful gauge of the reliability of information and senders.

10.5 Emergency Contacts

10.5.1 What does the FEWER Emergency Contacts module do?

The FEWER Emergency Contacts module allows you to:

1. communicate with first responder agencies

Type any Other message
 Tap Send to dispatch





- 2. get up-to-date contact information for these agencies in an emergency situation
- 3. reach any personal contacts otherwise stored in your phone

10.5.2 How can I call a first responder from FEWER Emergency Contacts?

FEWER maintains a current list of emergency contact information for the following countries: Grenada, Dominica, Saint Lucia and St. Vincent and the Grenadines. The contact information is stored by country and you can select between them. Here's how:

1. From FEWER Home, Tap the **Emergency Contacts** icon.

- 2. Call local agents or
- 4. Select country
- 5. Tap desired contact to

make call

3. Tap "Change Country"







10.5.3 Can I get any other information from FEWER Emergency Contacts?

FEWER provides details other than phone numbers for agents in the Emergency Contacts. This is included for email and radio channels. This is how you access the additional information:

1. From FEWER Home, Tap Emergency Contacts **2.** Tap the contact to show additional details

3. Details like VHF marine radio channels are shown



10.6 FEWER Emergency Procedures

The FEWER Emergency Procedures module provides steps to take in case of different types of emergencies. There are short videos to that are easy to follow.

1. On FEWER Home, Tap Emergency Procedures



2. Select emergency type



3. Control the media player



10.7 FEWER Damage Reporting

10.7.1 What can I do with Damage Reporting Module?

FEWER Damage Reporting allows you to record, view and share damage from hazards.

10.7.2 How do I create a damage report?

1. To open **Damage Reporting**, tap on its icon





3. Tap "Attach Media" to select your choice of image or video to include in your report





4. Select if you want to "Attach Media" as an existing or new image or video. You will get the camera or file picker to select.



After you attach your image or video, 5. Fill out the details

6. Select Public so all **FEWER users** see report or Private so only you see. Send



10.7.3 What else can I do with Damage Reporting?

You can see all public reports and post your own reports. This is how:



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10.8 FEWER Missing Persons

10.8.1 What can I do with the Missing Persons module?

In FEWER, the Missing Persons module is used to publish reports of missing persons in an effort to find them swiftly once they go missing. These reports contain minimal details, but sufficient for identifying the person and a contact number for communicating information when available. This is important to spread awareness of missing persons and a means to quickly get information to the correct channel.

10.8.2 How do I use Missing Persons?

Using Missing Persons is quite similar to using Damage Reports. Here's how:

 On FEWER Home, Tap the Missing persons icon



The app will display a listing of all the missing persons reports made

2. Tap the plus (+) icon to create a new report

3. Fill in the details

4. Tap the CREATE REPORT button to make your report.



10.9 Local Ecological Knowledge

10.9.1 What can I do with the Local Ecological Knowledge Module?

In FEWER, the Local Ecological Knowledge (LEK) module is used to provide a record of how the environment and aspect of the community changes over time. LEK provides the opportunity to record interesting events that occur and the ability to be able to view that activity within the scope of the wider country and over time. LEK groups these records into categories selected by the fisher. These categories include; Beach, Coastline, Environmental, Open seas and Unspecified.

10.9.2 How do I record an event that I have observed?

Use the LEK to record interesting observances which conducting the business of finishing. Here's how:

- From FEWER Home, Tap LEK
- The app will display a map of **3.** Fill in the details all the LEK records made.

2. Tap the plus (+) icon to create a new LEK record1

4. Tap the POST button to

make your report









10.9.3 How do I view the recordings that I made?

The LEK displays all information upon opening the module. You can use the filter to find specific types of information. Here's how you can use the filter to find posts that are created by you:

- From FEWER Home, Tap LEK
- **2.** Tap the filter option.

3. Fill Tap the Owners option and

4. Tap marker on map to view more details on record.







10.10 Messaging

10.10.1 When should I use messaging?

In FEWER, the Messaging module provides direct chat communication between fishers. Most fishers already use WhatsApp. Messaging is not a replacement to WhatsApp but provides the ability to communicate without having to share personal contact information beforehand.

10.10.2 How do I chat with another FEWER user?

 From FEWER Home, Tap Messaging 2. Create a new chat by taping the plus (+) icon



4. Enter the text you will like to send as a message to the user selected





5. Tap the send button to send message to selected contact



3. Tap the contact you will like to chat with to begin conversation.



10.10.3 How do I create a messaging group?

 From FEWER Home, Tap Messaging



- 4. Tap FEWER users to be part of the group
- **5.** Tap the arrow to proceed



2. Create a group by tapping on the overflow



6. Enter the name of the group7. Tap tick button to save



3. Select Create Groups



8. Tap on the group to start chatting with members



11. Are there Any Additional Operations?

Yes, FEWER has additional operations that may not fit exactly into the modules described before. The list of the operations includes: Settings, Register for SMS Alerts, About FEWER and Support.

11.1.1 How do I access these additional operations?

1. From FEWER Home, the overflow icon.

 Tap any of the menu options within the list



11.2 Settings

11.2.1 What is the purpose of Settings?

The settings provide you with the ability to:

- 1. Enter a contact number of a loved one to be notified in the event of an emergency
- 2. Change the registered country. For example, if you move to live in another FEWER supported country, you should update your registered country using the settings.

11.2.2 How do I access the Settings?

- **1.** From FEWER Home, the overflow icon.
 - available in Settings

3. View the operations

2. Tap Settings menu item



11.3 Register for SMS Alerts

11.3.1 What is the purpose of Register for SMS Alerts?

The "Register for SMS Alerts" option gives you the option to add fellow fishers to receive alerts. This is useful for fishers who do not have Android phones and still wish to receive alerts using SMS.

11.3.2 How Do I access Register for SMS Alerts?

1. From FEWER Home, the overflow icon.

3. View the operations available in Register for SMS Alert option

2. Tap Register for SMS Alert menu item

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11.4 About FEWER

11.4.1 What is the purpose of About FEWER?

About FEWER provides a summary about the FEWER project.

11.4.2 How Do I access About FEWER?

1. From FEWER Home, the overflow icon.

3. View the description of FEWER

2. Tap on the About FEWER option



11.5 Support

11.5.1 What is the purpose of Support?

Support provides a description of how you can access help for using FEWER.

11.5.2 How Do I access Support?

1. From FEWER Home, the overflow icon.

3. View the description and link for accessing support

2. Tap on the About FEWER option



12. Can I use FEWER if I am not in a FEWER country?

Yes, to a limited extent. If you are not in Grenada, Dominica, Saint Lucia or St Vincent and the Grenadines please note that:

- 1. The weather module will identify your country as "Unknown".
- 2. The tides page in the weather module will not display any information as this has only been configured for FEWER countries.
- 3. If the user's location is not enabled on the phone, some services like Damage Reporting will ask you to manually select location.
- 4. The application will always display "Tracking enabled". You can select the "Disable GPS Polling" to turn off tracking.
- 5. Some non-FEWER countries may have no or little information when selected. This information will be sourced and populated over the coming months.

13. So that's FEWER!



14. Anything else I need to know about the FEWER?

At the end of May 2018, FEWER will be complete and deployed. Any feedback you would like to give on the prototype and the final product can be directed towards the FEWER Fishers' whatsapp group which can be joined by following this link: <u>https://tinyurl.com/fewerfishers</u>. Thank you for trying FEWER and giving your feedback.

15. Anything else I should know about Android apps?

15.1 What is the Android app drawer?

This is where you find your application icons in an Android device. Also called the "app tray," it is a series of screens with the icons arranged alphabetically. The apps can be launched by tapping the icons, and the icons can be copied to the home screens by dragging and dropping them to the desired location.

15.2 What is an Android launcher?

The Android Launcher is the feature that lets users customize the home screen, launch mobile apps, make phone calls and perform other tasks on Android devices.

15.3 What is Google Play Store?

This the official app store for the Android operating system. This is where you browse and download Android applications published through Google. Google Play is also a digital media store through which you can buy music, magazines, books, movies and television programs. Applications are available through Google Play either free of charge or at a cost. They can be downloaded directly onto an Android device through the Play Store mobile app or by deploying the application to a device from the Google Play website.

15.4 What are some other Android apps that could help me?

There are lots of useful apps for fishers who have Android phones or iPhones. Have a browse of the respective app stores. Here's one you'd love: Useful Fishing Knots. You can download it at https://play.google.com/store/apps/details?id=com.neptuns.usefulfishingknots.

15.5 Why do I need to use passwords?

Your passwords are used to prove your identity to apps and websites that transact business or that retain some personal information for your convenience the next time you use it. They are necessary to reduce the likelihood of others impersonating you and accessing information that you provide when you use apps and websites. Strong passwords contain a mix of lower and upper-case letters as well as numbers.

15.6 Are Passwords used in FEWER?

FEWER uses the Google account of the phone to prevent the user from requiring creating a new set of passwords to remember. Once the user logs in, then the application will remember the user and will not be required to log-in again. The system will remember your identity and use it to communicate with FEWER services. If you do not have a Google account on your phone, then you will be required to create one. FEWER cannot be used without an account.

15.7 How can I remember my password?

An easy way to remember a password is to use the first letter of each word in a short saying that you will remember. Here's an example: There are better fish in the Caribbean Sea. From this your password would be Tabfitcs, with a capital letter to start. Now replace the "i" with a 1 for a strong password: Tabf1tcs. That's a strong password and easy to remember!

The CRFM is an inter-governmental organization whose mission is to "Promote and facilitate the responsible utilization of the region's fisheries and other aquatic resources for the economic and social benefits of the current and future population of the region". The CRFM consists of three bodies – the Ministerial Council, the Caribbean Fisheries Forum and the CRFM Secretariat. CRFM members are Anguilla, Antigua and Barbuda, The Bahamas, Barbados, Belize, Dominica, Grenada, Guyana, Haiti, Jamaica, Montserrat, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago and the Turks and Caicos Islands.

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