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USER GUIDEBOOK FOR MRCC & COAST STATION EMERGENCY TELECOMMUNICATIONS SURVEY

UNDER THE SMART SEAS TOOLKIT
FOR DISASTER RESILIENCE PROJECT

23 FEBRUARY 2022

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ACRONYMS

CTU	Caribbean Telecommunications Union
GT	Gross Tonnage
ITU	International Telecommunication Union
MRCC	Maritime Rescue Coordination Centre
RR	Radio Regulations
RX	Receive
SAR	Search and Rescue
SOLAS	Safety of Life at Sea
TATT	Telecommunications Authority of Trinidad and Tobago
TX	Transmit

INTRODUCTION

Seafarers are exposed to a wide range of risks at sea, from piracy to natural disasters. As a primary means of emergency communications, the International Convention for the Safety of Life at Sea, *SOLAS* (IMO 2004[1]), and the 2012 Cape Town Agreement (IMO 2012[2]), obliges all passenger and cargo ships[3], as well as fishing vessels exceeding 300 gross tonnage (GT) (over 24 metres in length) to be outfitted with two-way VHF radiotelephone apparatus and licensed operators.

Small-scale fishing vessels, which are usually less than 12 metres in length, and which account for roughly 93.1% of the Caribbean commercial capture fisheries fleet (CRFM 2018[4]), are recommended[5] but not obligated to carry radio equipment by international law. Small-scale fishing vessels are subject to particularly high levels of exposure at sea, and all too often face crisis situations with no communications recourse. Investigations of the Caribbean ICT Research Programme have found a variety of shortcomings that perpetuate low levels of radio

Figure 1 Small-scale Fishing Vessels at the Tourist Hotspot of Marigot Bay, St. Lucia

adoption among small-scale fishers. These include but are not limited to low levels of compliance with international obligations[1,2] as well as inadequacies in various operational matters such as radio licensing procedures and application forms; marine working channel information; public awareness on the rationale for radio licensing; and radio training for seafarers.

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[1] International Maritime Organization (IMO). 2004. "*International Convention for the Safety of Life at Sea*". Available at: http://library.arcticportal.org/1696/1/SOLAS_consolidated_edition2004.pdf

[2] International Maritime Organization (IMO). 2012. "2012 *Cape Town Agreement*". Available at: https://wwwcdn.imo.org/localresources/en/About/Conventions/Documents/Consolidated%20text%20of%20the%20Agreement.pdf

[3] At least 3 two-way VHF radiotelephone apparatus shall be provided on every passenger ship and on every cargo ship of 500 gross tonnage and upwards. At least, 2 two-way VHF radiotelephone apparatus shall be provided on every cargo ship of 300 gross tonnage and upwards but less than 500 gross tonnages.

[4] Caribbean Regional Fisheries Mechanism (CRFM). 2018. "*CRFM Statistics and Information Report for 2018*". Available at: https://www.crfm.int/images/CRFM_Statistics_and_Information_Report_2018_Final.pdf

[5] FAO/ILO/IMO. 2012. "*Safety Recommendations for Decked Fishing Vessels of Less than 12 metres in Length and Undecked Fishing Vessels*". edited by FAO. Rome: FAO. Available at: https://www.fao.org/3/i3108e/i3108e.pdf

GENERAL INSTRUCTIONS

SUBMISSION INSTRUCTIONS

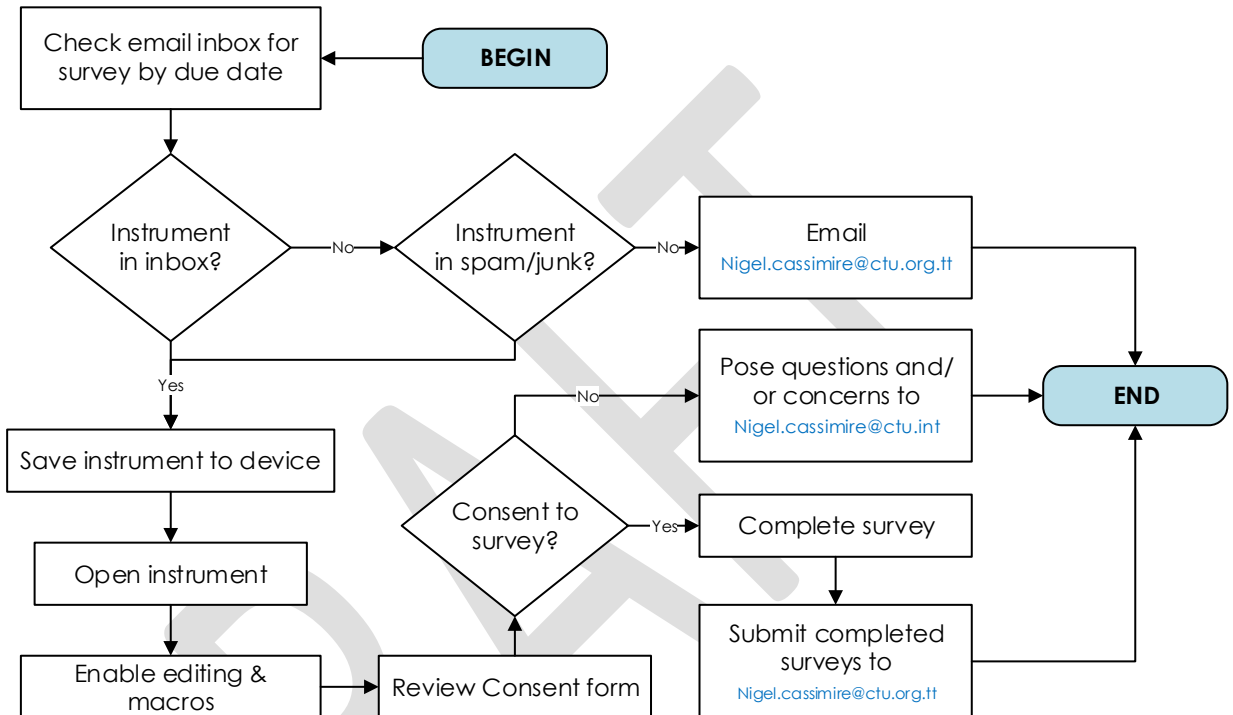Figure 2 shows the process to complete and submit the survey instrument.

Figure 2 Submission procedure

The steps are:
1. Check email for the Maritime Rescue Coordination Centre (MRCC) & Coast Station Survey administered by the CTU
2. If the email was received, take note of due date for submission and save the attached instrument to your device with the naming convention: <Station_name Date>. An example is "North Post Radio Station 18 February 2022"
3. If the email is not present in your inbox check you "Spam" or "Junk" folder and repeat step 2.
4. Open the survey instrument and enable editing and macros
5. Carefully review the consent form on the "Pre-Survey Information" sheet. If you consent to filling the survey, enter your name and the date under the consent form as in Figure 3.

Participant Name:	John Doe
Date:	18/02/2022

Figure 3 Signing consent form

6. If you do not consent to filling the survey, feel free to pose your questions or concerns to Mr. Nigel Cassimire at Nigel.Cassimire@ctu.int.
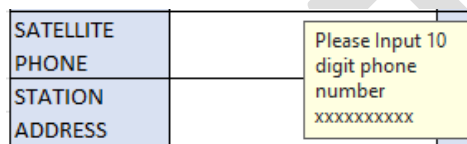
7. On completion of the survey, submit to Nigel.Cassimire@ctu.int. If you encounter any difficulties completing the survey, after consulting this user guide, pose your questions or concerns to Nigel.Cassimire@ctu.int

ERROR MESSAGE HANDLING

When filling the form, error messages may occur. These may occur due to:
- a numerical value exceeding the specified range
- data being in an incorrect format

Throughout the form, there are prompts indicating the format and values within which the data is required. Take note of these. Figure 4 shows an example of this for phone numbers.

Figure 4 Prompts on data value and format

Figure 5 shows an example of an error message. To get rid of the message, click the retry button and re-enter data in the field in the correct format or within the correct value range as specified in the field prompt. If the message occurs again, please check the "Section-Specific Instructions" section in this document.
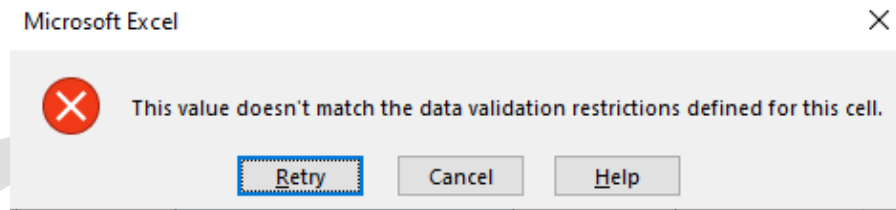
Figure 5 Example of error message

DROPDOWN USAGE

Fields with pre-defined choices are filled using dropdown lists. When clicked these fields appear as in Figure 6.

Figure 6 Dropdown field

The list is revealed when the arrow to the right is clicked. A selection or multiple selections can be made, depending on the nature of the field.
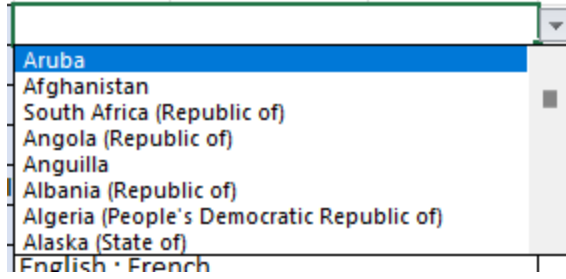
Figure 7 Example of dropdown list

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For dropdowns that allow for multiple selections, each selection is automatically separated by a semicolon. Note that if a mistake is made in filling cells that support multiple selections, the entire cell needs to be cleared to re-enter data.

SECTION-SPECIFIC INSTRUCTIONS

This survey gathers the most important data under the SMTF's initiative to "*conduct a survey of marine communications to include infrastructure and national Maritime Rescue Coordination Centre (MRCC) arrangements, as well as relevant national policy and regulatory provisions, channel use, operations and associated capacity[6]*". It comprises 5 sections:
1. General Station Information (sheet name: Station Information)
2. Station Personnel (sheet name: Personnel)
3. Radio Equipment (sheet name: Radio Equipment)
4. Channel Operations (sheet name Ops)
5. Policy and Regulatory Provisions (sheet name: Policy & Reg)
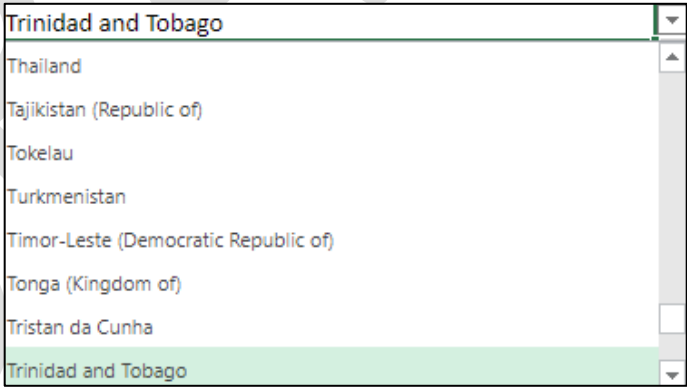
This section presents detailed instructions to fill specific fields in the survey, with examples of how data should look when entered.

SECTION 1: GENERAL STATION INFORMATION

This section of the survey captures the names, positions and contact details for the MRCC or coast station. Table 1 gives detailed instructions to fill the fields in this sheet.

Table 1 Instructions to fields in General Station Information section

Field	Instructions
ADMINISTRATION	1. Click on the drop-down list captured in Figure 8 *Figure 8 Administration dropdown list* 2. Select the country in which the MRCC/coast station operates
ADMIN SYMBOL	1. No action is needed. The field is automatically filled when Administration is selected as in Figure 9.

Field	Instructions
	Figure 9 Admin Symbol
STATION NAME	1. Enter the name of station in space provided. Figure 10 gives an example. *Figure 10 Station name*
STATION TYPE	1. Click on the drop-down list as captured in Figure 11 *Figure 11 Station type* 2. Select whether the the station is an MRCC or coast station (CS)
COUNTRIES OF RESPOSIBILITY	1. Click on the drop-down list as captured in Figure 12 *Figure 12 Countries of responsibility dropdown list* 2. Select the countries for which the MRCC/ coast station is responsible. This option allows multiple selections which will result in the field appearing as in Figure 13 *Figure 13 Countries of responsibility selection* 3. If errors are made during selection, press the "DELETE" button on keyboard to clear the cell, and repeat steps 1-2

Field	Instructions
AGENCY RESPONSIBLE	1. Enter the name of the agency or organization responsible for the operation of the station in this field.
LANGUAGE(s)	1. Click on the drop-down list as captured in Figure 14 *Figure 14 Language dropdown list* 2. Select the language(s) used in the station's day-to-day operations. This option allows multiple selections which will result in the field appearing as in Figure 15 *Figure 15 Language selection* 3. If errors are made during selection, press the "DELETE" button on keyboard to clear the cell, and repeat steps 1-2
SERVICES	1. See Appendix I for full list and description of services 2. Click on the drop-down list captured in Figure 16 *Figure 16 Services drop-down list* 3. Select services provided by station. This option allows multiple selections which will result in the field appearing as in the example in Figure 17 *Figure 17 Addition of more Services*

Field	Instructions
	4. If errors are made during selection, press the "DELETE" button on keyboard to clear the cell, and repeat steps 2-3
CALLSIGN	1. Enter the station's callsign in this field. Figure 18 gives an example. CALLSIGN 9YM *Figure 18 Callsign example*
MMSI	1. Enter the MMSI used by the station in the provided field. Figure 19 shows an example. MMSI 987654321 *Figure 19 MMSI example*
TELEPHONE	1. Enter the telephone contact number (10 digits) for the station without spaces as in Figure 20. TELEPHONE 8686754321 *Figure 20 Telephone number example*
MOBILE	1. Enter the mobile phone contact number (10 digits) for the station without spaces as in Figure 21. MOBILE 8687654321 *Figure 21 Mobile number example*
FAX	1. Enter the fax number (10 digits) for the station without spaces as in Figure 22. FAX 8686543210 *Figure 22 Fax example*
SATELLITE PHONE	1. Enter the satellite phone number (10 digits) for the station without any spaces as in Figure 23 SATELLITE PHONE 8685432109 *Figure 23 Satellite phone number example*
STATION ADDRESS	1. Enter the station's address in the provided field. Figure 24 shows an example.

Field	Instructions
	Figure 24 Station address example
EMAIL	1. Enter the station's email address in the provided field as in Figure 25. *Figure 25 Email address example*
WEBSITE	1. Enter station's website URL in the provided field as in the example in Figure 26. *Figure 26 Website URL example*
NUM. NOTES	1. See Appendix II for num. note specifications 2. Enter additional information, if any, which should be noted about the services. Separate each note with a semicolon as in the example in Figure 27 *Figure 27 Num. notes example*
SEA AREAS	1. Click on the drop-down list captured in Figure 28 *Figure 28 Sea Areas drop-down list* 2. Select the sea areas for which the station is responsible for. This option allows multiple selections which will result in the field appearing similar to the example in captured in Figure 29

Field	Instructions
	 Figure 29 Sea areas example 3. If errors are made during selection, press the "DELETE" button on keyboard to clear the cell, and repeat steps 1-2
REMARKS	1. Enter any additional information or comments, separated by semicolons as in Figure 30 *Figure 30 Remarks example*

SECTION 2: STATION PERSONNEL

This section captures the technical station personnel required for the operations of the MRCC/ coast stations, as well as the responsibilities and workloads. This sheet in the survey has multiple identical tables to fill for different roles. Only fill tables for the number of technical roles the station has and add any additional tables, if necessary, by copying and pasting them into the sheet. Table 2 gives detailed instructions to fill the fields in this sheet.

Table 2 Instructions to fill fields in Personnel section

Field	Instructions
JOB TITLE	1. State job title in the field provided (specifically technical jobs) *Figure 31 Job Title example*
HOW MANY OF THIS ROLE PER SHIFT	1. List number of persons conducting this role per shift (limited to less than ten) *Figure 32 Roles per Shift example*
PREREQUISITE KNOWLEDGE, SKILLS, EXPERIENCE & CERTIFICATONS	1. List prerequisite knowledge, skills, experience & certifications. Figure 33 shows an example

Field	Instructions
	PREREQUISITE KNOWLEDGE, SKILLS, EXPERIENCE & CERTIFICATONS — A full GCE/CXC O' Level Certificate; Certified in Maritime Coastal Station Operations; GMDSS Operations Certificate (GOC); Three (3) years' experience as a Coastal Maritime Radio Operator *Figure 33 Qualifications and experience* 2. Separate using semicolon
WEEKLY WORKING HOURS	1. Enter the number of hours worked per week by employee with the role as in Figure 34 WEEKLY WORKING HOURS — 40 *Figure 34 Weekly working hours example*
SHIFT DURATION	1. Enter length of employee shift in hours, similar to Figure 35 SHIFT DURATION — 5 *Figure 35 Shift duration example*
RESPONSIBILITIES (LIST AS NECESSARY)	1. List the responsibilities required of this role, separated by semicolons as in Figure 36 RESPONSIBILITIES (LIST AS NECESSARY) — Maintain controls watch (listening) on the distress marine frequencies keeping a detailed log. ;Make broadcasts relating to safety of life at sea and/or shipping on designated frequencies in conformity with international regulations.;Announce and broadcast traffic lists at scheduled times on designated frequencies. *Figure 36 Responsibilities example*

SECTION 3: RADIO SPECIFICATIONS

This section captures the technical specifications of the coast station/MRCC radio transceiver system, and their connected antennas. This sheet in the survey has multiple identical tables to fill for different transceiver equipment. Only fill tables for the number of transceivers the station has

and add any additional tables, if necessary, by copying and pasting them into. Table 3 gives detailed instructions to fill the fields in this sheet.

Table 3 Instructions to fill fields in Radio Specifications section

Field	Instructions
TRANSCEIVER POSITION:	1. Enter the latitude coordinates of the transceiver's geographical position in Decimal, Minutes, Seconds (DMS) notation. Select North(N) or South (S) from the dropdown as shown in Figure 37 *Figure 37 Fields to input Coordinates* 2. Enter the longitude coordinates of the transceiver's geographical position in DMS notation. Select West(W) or East(E) from the dropdown as shown in Figure 38 *Figure 38 Fields to input Coordinates*
SITE ELEVATION ABOVE SEA LEVEL	1. State the transceiver site's elevation height above sea level in meters as in Figure 39 *Figure 39 Site elevation example*
MANUFACTURER	1. Enter the name of the company that manufactured the transceiver equipment in the field provided as in Figure 40 *Figure 40 Transceiver manufacturer example*
MODEL NUMBER	1. State transceiver's model number in the field provided as in Figure 41 *Figure 41 Model number example*

INSTALLATION DATE	1. Enter the date the transceiver was installed on site in the field provided, using the format: dd/mm/yyyy. An example is given in Figure 42 *Figure 42 Installation date example*
LAST INSPECTION	1. Enter the date the transceiver was installed on site in the field provided, using the format: dd/mm/yyyy. An example is given in Figure 43 *Figure 43 Last inspection date example*
FREQUENCY BAND/S:	1. Select drop-down list captured in Figure 44 *Figure 44 Frequency band drop-down list* 2. This option allows multiple selections which will result in the field appearing as in the example in Figure 45 *Figure 45 Multiple selection for frequency bands* 3. If errors are made during selection, press the "DELETE" button on keyboard to clear the cell, and repeat steps 1-2
OTHER BAND?	1. If a frequency band on which radio equipment operations is not represented in the dropdown list for "FREQUENCY BAND/S" enter the frequency band in the field provided *Figure 46 Field to include other bands*
GENERATOR AVAILABLE	1. Select the drop-down list captured in Figure 47

	Figure 47 Generator Availability Option
	2. Select whether a backup power generator is available for the radio equipment by choosing Yes/No
GENERATOR DISCHARGE TIME	1. If a generator is available, enter the generator discharge time in hours in the provided field shown in Figure 48
	GENERATOR DISCHARGE TIME
	Figure 48 Generator discharge time field
MANIFACTURER	1. Enter the name of the Antenna Manufacturer in the field shown in Figure 49
	MANUFACTURER Huawei
	Figure 49 Antenna manufacturer example
MODEL NUMBER	1. Enter the antenna model number in the field provided
	MODEL NUMBER 124de4
	Figure 50 Antenna model number example
ANTENNA AZIMUTH	1. Enter the antenna's azimuth (between 0- 360 degrees) in field shown in Figure 51
	ANTENNA AZIMUTH 266
	Figure 51 Antenna Azimuth example

SECTION 4: STATION OPERATIONS

This section of the survey captures the channel usage, schedules and information transmitted by MRCC/ coast station.

Before filling the "Channel Operations" table:

1) Fill the service column captured in Figure 52 by selecting the services provided by the station. Use the instructions for the "SERVICE" field in **Error! Reference source not found.**.

Figure 52 Service Entry

2) Click the "Autofill" button captured in Figure 53
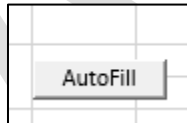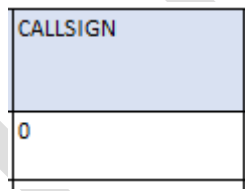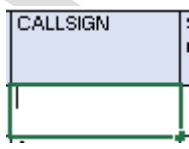
Figure 53 Autofill button

3) Fill all empty cells (auto-filled fields not marked NA) using **Error! Reference source not f ound.**.
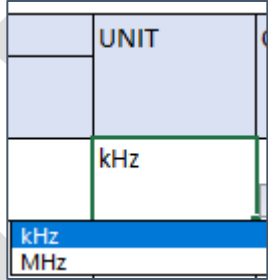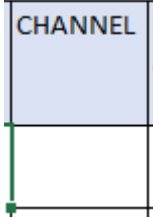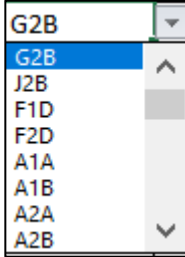
Table 4 gives detailed instructions to fill the fields in this section.
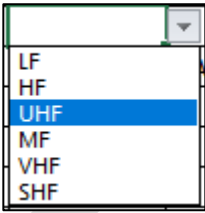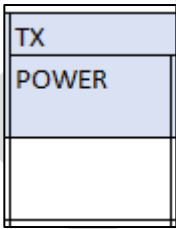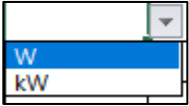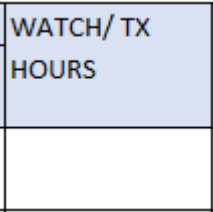
Table 4 Instructions to fill fields in Station Operations section

Field	Instructions
CHANNEL OPERATIONS	
SERVICE	1. See Appendix I for full list and description of services 2. Click on the drop-down list captured in Figure 54
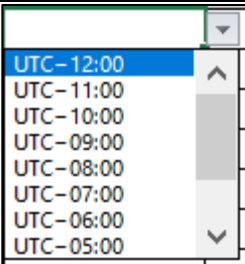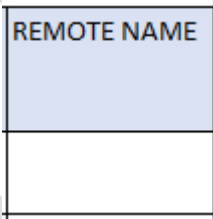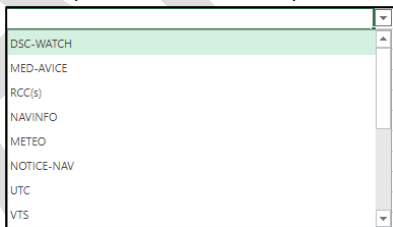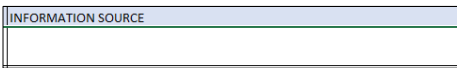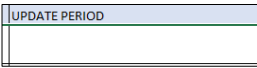
Field	Instructions
	 Figure 54 Services drop-down list 3. Select service provided by station
CALLSIGN	If the callsign for a particular service is different from that listed in the "STATION INFORMATION" sheet: 1. Select cell with incorrect callsign as in Figure 55 *Figure 55 Incorrect callsign example* 2. Press backspace on keyboard to delete contents of the cell as in Figure 56 *Figure 56 Blank callsign field example* 3. Enter the correct callsign
SEL CALL	1. Enter the station's selective call number for the service in the field provided
MMSI	If MMSI for a particular service is different from that listed in the STATION INFORMATION: 1. Select cell with incorrect MMSI as in Figure 57
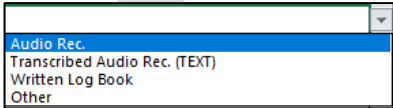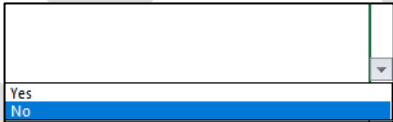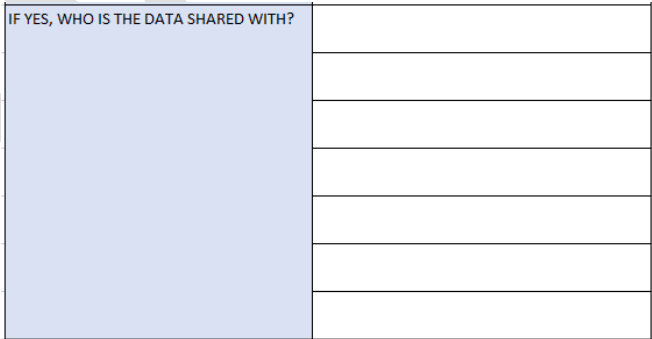
Field	Instructions
	Figure 57 Incorrect MMSI field 2. Press backspace to delete contents of the cell *Figure 58 Blank MMSI field example* 3. Enter correct MMSI
LATITUDE	1. Enter the latitude coordinates of the transceiver's geographical position in DMS notation. Select N or S from the dropdown as shown in Figure 59 *Figure 59 Latitude coordinate field*
LONGITUDE	1. Enter the longitude coordinates of the transceiver's geographical position DMS notation. Select W or E from the dropdown as shown in Figure 60Figure 38 *Figure 60 Longitude coordinate field*
FREQUENCY	1. Enter the transmit (TX) frequency used in the field provided as in Figure 61 (frequencies up to and including 28 000 kHz should be expressed in kilohertz (kHz) and frequencies above that value should be expressed in megahertz (MHz)), 2. Enter the receive (RX) frequency in the space provided, shown in Figure 61

Field	Instructions
	Figure 61 Example of TX and RX frequencies
UNIT	1. Select drop-down list shown in Figure 62 to choose the units for the frequencies in the "FREQUENCY" field *Figure 62 Unit drop-down list* 2. Select the appropriate units for the TX and RX frequencies
CHANNEL	1. Enter the channel used for transmitting and receiving for the service in the space provided (Figure 63) *Figure 63 Channel Field*
EMISSION CLASS	1. Select the drop-down list captured in Figure 64 *Figure 64 Emission class drop-down list*
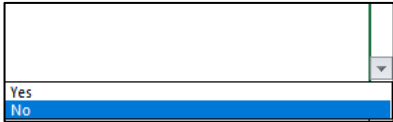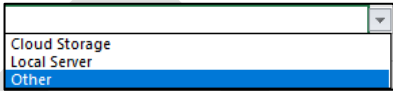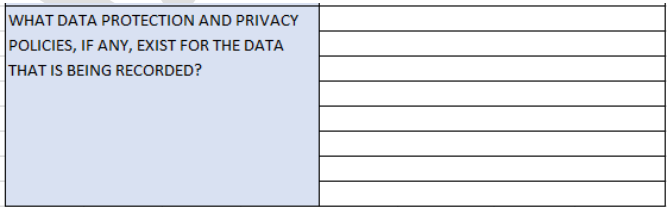
Field	Instructions
	2. Select the emission class[7] used for the service
FREQ BAND	1. Select drop-down list captured in Figure 65 LF HF UHF MF VHF SHF *Figure 65 Frequency band Selection* 2. Select the frequency band used for the service
TX POWER	1. Enter the transmit power used for the service in watts kilowatts in the field provided. Figure 66 shows an example TX POWER *Figure 66 TX power field*
UNIT	1. Click on the drop-down list as captured in Figure 67 W kW *Figure 67 Frequency unit selection* 2. Select the appropriate unit for the transmit power
WATCH/TX HOURS	1. Enter the hours of service and watch-keeping periods, as applicable in the field provided (Figure 68) WATCH/ TX HOURS *Figure 68 Watch/TX hours field*
TIMEZONE	1. Click on the drop-down list as captured in Figure 69

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[7] Please see https://www.itu.int/en/ITU-R/terrestrial/workshops/wrs12/Miscellaneous/Appendix1.pdf for emission classification breakdown.

Field	Instructions
	Figure 69 Time zone selection 2. Select the current time zone from list
REMOTE NAME	1. Enter the remote name in the field provided (Figure 70) *Figure 70 Remote name field*
SERVICE	1. Click on the drop-down list as captured in Figure 71 *Figure 71 Services selection* 2. Select the applicable service
INFORMATION SOURCES	
INFORMATION SOURCE	1. Enter the information source in field provided Figure 72 Information source field
UPDATE PERIOD	1. Enter the period where information is updated in field provided Figure 73 Update Period Field
DATA CAPTURE & RECORD KEEPING	

Field	Instructions
DOES YOUR STATION RECORD ALL INCOMING RADIO TRAFFIC?	1. Click on drop-down list as captured in Figure 74 *Figure 74 Station Recording Selection* 2. Select either Yes/No
WHAT FORMAT IS THE RECORDED DATA STORED AS?	1. Click on drop-down list as captured in Figure 75 *Figure 75 Data format Selection* 2. Select relevant data format
IS THE RECORDED DATA SHARED WITH OTHER MARITIME SAFETY AGENCIES?	1. Click on drop-down list captured in Figure 76 *Figure 76 Data Sharing Selection* 2. Select either yes/no
IF YES, WHO IS THE DATA SHARED WITH?	1. Enter the agencies with whom the data is shared, as shown in Figure 77 *Figure 77 Recipients of shared data field*
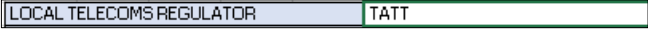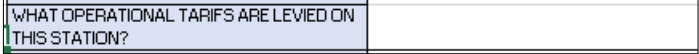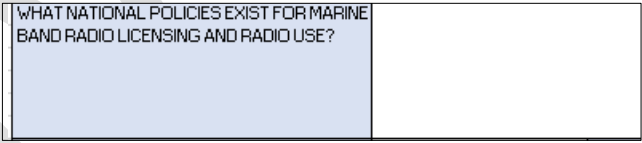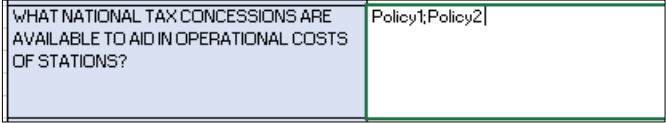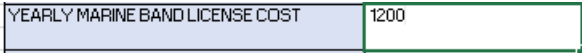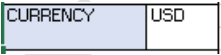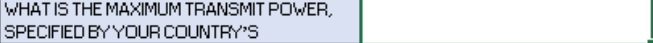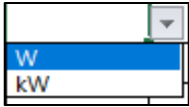
Field	Instructions
ARE BACKUPS MADE TO THE DATA RECORDED?	1. Click on drop down as captured in Figure 78 *Figure 78 Data Backup Selection* 2. Select either yes/no
IF YES, WHAT BACKUP METHOD IS USED?	1. Click on drop-down list captured in **Error! Reference source not found.** *Figure 79 Backup Method Selection* 2. Select backup method
IF NO, ARE THERE ANY FUTURE PLANS FOR BACKING UP THE DATA?	1. Click on drop-down list captured in Figure 80 *Figure 80 Future Data Storage Selection* 2. Select either yes/no
WHAT DATA PROTECTION AND PRIVACY POLICIES, IF ANY, EXIST FOR THE DATA THAT IS BEING RECORDED?	1. Enter the data protection and privacy policies, separating with semicolon where necessary *Figure 81 Data Protection and Privacy Field*

SECTION 5: POLICY AND REGULATORY PROVISIONS

This section identifies the policy and regulatory provisions which facilitate coast station/ MRCC operation. Table 5 gives instructions to fill the fields in this section.

Table 5 Instructions to fill Policy & Regulatory Provisions section

Field	Instructions
LOCAL TELECOMS REGULATOR	1. Enter name of the local telecommunications regulator in the field provided as in Figure 82 *Figure 82 Telecoms Regulator example*
WHAT OPERATIONAL TARIFFS ARE LEVIED ON THIS STATION?	1. Enter tariffs levied on the station, using a semicolon to separate where necessary, in the field shown in Figure 83 *Figure 83 Tariffs on station field*
WHICH MARINE BAND PLAN DOES YOUR COUNTRY USE?	1. Select dropdown shown in Figure 84 *Figure 84 Marine Band Plan drop-down* 2. Select the marine band plan used by your country
WHAT NATIONAL POLICIES EXIST FOR MARINE BAND RADIO LICENSING AND RADIO USE?	1. Enter national policies for marine band radio licensing and radio use in the field provided (Figure 85) *Figure 85 Marine Band Radio Licensing and Radio Use Policy field*
WHAT NATIONAL POLICIES EXIST FOR MARINE BAND RADIO LICENSING AND RADIO USE?	1. Enter the National Policies, separating using semicolons as in Figure 86 *Figure 86 National tax concessions field*

YEARLY MARINE BAND LICENSE COST	1. Enter the annual cost of a marine band license in the field provided (Figure 87) YEARLY MARINE BAND LICENSE COST 1200 *Figure 87 Yearly marine band license cost field*
CURRENCY	1. Enter the currency the marine band licensing fee is charged. Figure 88 shows an example. CURRENCY USD *Figure 88 Marine band license cost currency*
OVER WHAT PERIOD DO NATIONAL REGULATORS SPECIFY TRANSCEIVERS SHOULD BE INSPECTED?	1. State the required inspection period for transceivers in years in the field shown in Figure 89 OVER WHAT PERIOD DO NATIONAL REGULATORS SPECIFY TRANSCEIVERS YEARS *Figure 89 National regulatory transceiver inspection period field*
WHAT IS THE MAXIMUM TRANSMIT POWER, SPECIFIED BY YOUR COUNTRY'S REGULATOR?	1. State the maximum transmit power allowed by your country's regulator in the field shown in Figure 90 WHAT IS THE MAXIMUM TRANSMIT POWER, SPECIFIED BY YOUR COUNTRY'S *Figure 90 Maximum allowed transmit power field*
UNIT	1. Click on the drop-down list captured in Figure 91Figure 91 W kW *Figure 91 Frequency unit Selection* 2. Select the appropriate unit for the allowed transmit power
WHAT NATIONAL POLICIES AND PROVISIONS ARE IN PLACE TO FACILITATE JOINT OPERATIONS BETWEEN NEIGHBOURING COUNTRIES DURING MARITIME EMERGENCIES?	1. State national policies and provisions to facilitate maritime emergency response coordination between neighbouring countries, separate by semicolons where necessary as in Figure 92

WHAT NATIONAL POLICIES AND PROVISIONS ARE IN PLACE TO FACILITATE JOINT OPERATIONS BETWEEN NEIGHBOURING COUNTRIES DURING MARITIME EMERGENCIES?   Policy1;Policy2

Figure 92 National Policies for joint operations field

APPENDIX I: STATION SERVICES

The service fields are described in Table 6 using definitions from the ITU's - List of Coast Stations and Special Service Stations (2019) [8]

Table 6 Service Description
(Source: ITU)

Service	Description
AIS	Automatic Identification System services
CES	Coast Earth Stations
CES-CP	Systems in the maritime mobile-satellite service that provide a public correspondence service
CP	Coast stations providing a public correspondence service
DSC-WATCH	Coast stations participating in MF, HF and VHF watch-keeping using digital selective calling techniques
MED-ADVICE	Stations transmitting medical advice
METEO	Stations transmitting regular meteorological bulletins
NAVAREA	Navarea coordinators
NAVINFO	Coast stations transmitting to ships navigational and meteorological warnings and urgent information (MSI) by means of narrow-band direct-printing techniques
NOTICE-NAV	Stations transmitting notices to navigators
PILOT	Pilot Stations
PORTINFO	Port Stations
RCC(s)	Rescue coordination centres (MRCC, RCC, MRSC, JRCC)
SAR Agency	Search and rescue (SAR) Agency addresses and contact information
UTC	Stations transmitting radio time signals
VTS	Vessel traffic services

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[8] ITU. 2019. List IV - List of Coast Stations and Special Service Stations.

APPENDIX II: NUM. NOTE SPECIFICATION

The num. note format for each service is described in Table 7, guided by the ITU's - List of Coast Stations and Special Service Stations (2019)[8]

Table 7 Num. Note Specification
(Source: ITU)

Service	Code Prefix for Num. Note	Num. Note Format
AIS	AI	AI1 <note>, AI2 <note>, etc..
CES	CS	CS1 <note>, CS2 <note>, etc..
CES-CP	CE	CE1 <note>, CE2 <note>, etc..
CP	CP	CP1 <note>, CP2 <note>, etc..
DSC-WATCH	DC	DC1 <note> DC2 <note>, etc..
MED-ADVICE	MD	MD1 <note>, MD2 <note>, etc..
METEO	BM	BM1 <note>, BM2 <note>, etc..
NAVAREA	NV	NV1 <note>, NV2 <note>, etc..
NAVINFO	IF	IF1 <note>, IF2 <note>, etc..
NOTICE-NAV	NA	NA1 <note>, NA2 <note>, etc..
PILOT	FT	FT1 <note>, FT2 <note>, etc..
PORTINFO	FP	FP1 <note>, FP2 <note>, etc..
RCC(s)	RC	RC1 <note>, RC2 <note>, etc..
SAR Agency	SR	SR1 <note>, SR2 <note>, etc..
UTC	HR	HR1 <note>, HR2 <note>, etc..
VTS	VS	VS1 <note>, VS2 <note>, etc..