

Seychelles

QUESTIONNAIRE - PART II
(To be completed by Administrations only)

General Questions on National Spectrum Management

**Describe succinctly the problems that your administration is currently experiencing
in national spectrum management
(for example subject areas in national spectrum management).**

Country SEYCHELLES

Focal point DR. G. AH-ITHEW

The following general questions on national spectrum management are based in part on the functional requirements of spectrum management described in the handbook on "National Spectrum Management." If you need additional space to answer the questions please continue on a separate sheet of paper.

1. Do you have a national law governing spectrum management? YES NO
- Last date this law was changed or modified? 1998
- Are any actions planned to change this law? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

2. Have you published regulations and procedures for national spectrum management (e.g. radio services, license requirements etc.)? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

3. Do you have a national radio frequency spectrum allocation table? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

4. Do you have technical specifications for national spectrum use? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

5. Do you have a need for any spectrum redeployment* ? YES NO

* The term "redemption" is used here to refer to a process of national scope in which an assessment is conducted 1) to determine if portions of spectrum can be identified that are in limited use; and 2) to determine if such spectrum segments can be reallocated for use in delivering radiocommunication services that have expanding spectrum requirements.

- If so, do you have a strategy for achieving this redeployment in respective frequency bands and for given radiocommunication services? YES NO

- Please define the established strategy and describe the nature of the consultation, if any, with users regarding the potential costs resulting from the planned redeployment.

6. What is the total cost of national spectrum management functions performed by your Government (expressed in Swiss francs)? RS. 20,000 per annum

- What is the source of the funding required to accomplish these spectrum management functions?

GOVERNMENT FUND

7. Do you have a method for establishing spectrum users' fees? YES NO

- If so, please give a brief description of the method used in establishing those fees.

BY SERVICES

8. Do you maintain centralized databases for spectrum management? YES NO

- What is the approximate size of your database (expressed in number of records)?

SLA

- Do you have a computerized data base management system (DBMS)? YES NO

- What DBMS system do you use? FOXPRO

- Are these frequency assignment records available to public? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

- FOR TRANSPARENCY THE FREQUENCY ASSIGNMENT RECORDS SHOULD BE MADE AVAILABLE TO THE PUBLIC MOST PROBABLY VIA INTERNET. - A COPY OF WINBASMS AND POSSIBLY FREQUENCY MANAGEMENT TRAINING.

9. Do you notify frequency assignments to the ITU? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

TARDY RESPONSE WITH REGARDS TO MICRO-WAVE FREQUENCIES.

10. Do you have a policy and planning function for national spectrum management (i.e. a national strategy for future use of the spectrum)? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

WE DO PLAN THE NATIONAL SPECTRUM.

11. Do you perform technical analyses of frequency assignment requests? YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

INADEQUATE ANALYSIS IS PERFORMED ONLY HARMONICS AND SUBHARMONICS ARE PERFORMED. WE NEED

SOFTWARE TO PERFORM PROPER INTERFERENCE ANALYSIS.

12. Do you perform radio monitoring? YES NO

- number of fixed monitoring stations 1

- facilities available at fixed monitoring stations

-- monitoring up to 999.9 MHz

-- direction finding up to MHz NONE.

- number of mobile monitoring stations

NONE

- facilities available at mobile monitoring stations

-- monitoring up to ___ MHz

-- direction finding up to ___ MHz

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

REQUIRE DIRECTION FINDING EQUIPMENT AND CAPABILITY TO MONITOR ABOVE 1 GHz.

13. Do you perform technical analyses of radio frequency interference complaints?

YES NO

- Do you have an established consultation process, involving Government and non-government organization, for resolving these complaints?

YES NO

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

OUR CAPABILITIES ARE LIMITED TO EQUIPMENT WHICH ARE BASICALLY MF, HF, VHF RECEIVERS OF A SPECTRUM ANALYSER.

14. What computers and operating systems are in use for national spectrum management?

Type of computers

PENTIUM

Operating system(s)

WINDOWS 98

Have any problems been identified? and if so, do you need any assistance from the ITU in solving them?

15. Number of technical/professional staff in national spectrum management? 3

16. Number of support staff in national spectrum management? 2

17. Describe your country's spectrum management structure (Please enclose a copy of organization chart).

18. Do you use the ITU-R Handbooks and Reports on:

- a) National Spectrum Management, version 1995 ? YES
- b) Spectrum Monitoring¹, version 1995? YES
- c) Computer-aided Techniques for Spectrum Management, version 1999? 1983
- d) HF Broadcasting System Design, version 1999? NO
- e) Report SM.2012, Economic Aspects of Spectrum Management, version 1997²? NO
- f) Windows Basic Automated Spectrum Management System (WinBASMS) Software
Version 1997, Manual Version 1997 NO

What additional information/handbooks do you need from the ITU?

WINBASMS

*To be returned no later than 31 January 2000 to:
ITU-D Study Groups Secretariat
Telecommunication Development Bureau
Fax: +41 22 730 54 84
E-Mail: devsg1@itu.int*

THANK YOU FOR YOUR COOPERATION

¹ The Spectrum Monitoring Handbook is currently being updated, therefore, you are urged to contact Mr Jan Verduijn (NL), the designated Rapporteur from ITU-R Study Group 1, Working Party 1C if you have any comments that you wish included in a future version of this Handbook.

² This Report SM.2012 was updated during the ITU-R Study Group 1 meeting in August 1999. This new version is expected to be available in the three working languages by January 2000.

Frequency Band (MHz)		Allocation	Frequency Band (MHz)		Sub-allocation	Comments
From	To	UPPER CASE: PRIMARY	From	To		
		Lower Case: Secondary				
25.210	25.550	FIXED Mobile except aeronautical mobile				
25.550	25.670	RADIO ASTRONOMY	25.550	25.600	FIXED /MOBILE	On a primary basis and except aeronautical mobile
			25.600	25.670	BROADCASTING	On a primary basis
25.670	26.100	BROADCASTING				
26.100	26.175	MARITIME MOBILE	26.1005		MARITIME	International for maritime safety information
26.175	27.500	FIXED Mobile except aeronautical mobile	26.957	27.283	FIXED MOBILE	Industrial, scientific and medical (ISM)
27.500	28.000	FIXED MOBILE METEOROLOGICAL AIDS				
28.000	29.700	AMATEUR AMATEUR-SATELLITE				
29.700	30.005	FIXED MOBILE				
30.005	30.010	FIXED MOBILE SPACE OPERATION (satellite identification) SPACE RESEARCH				
30.010	47.000	FIXED MOBILE	30.010	35.000	FIXED MOBILE	
			35.000	45.000	Reserved	
			45.000	46.000	Not Allocated	
			46.000	47.000	CORDLESS TELEPHONE	Supraphone 25 kHz BW, BTx Space Commander II, 60 kHz BW, BTx
47.000	68.000	BROADCASTING (TV)	47.000	50.000	Not Allocated	

Frequency Band (MHz)		Allocation	Frequency Band (MHz)		Sub-allocation	Comments
From	To		From	To		
		UPPER CASE: PRIMARY				
		Lower Case: Secondary				
			50.000	54.000	AMATEUR	
			54.000	61.000	TV CHANNEL 2	PAL Standard
			61.000	68.000	TV CHANNEL 3	PAL Standard
68.000	74.800	FIXED MOBILE except aeronautical mobile	68.000	70.000	Reserved	
			70.000	72.000	Not Allocated	
			72.000	72.275	CORDLESS TELEPHONE	Superphone, Mobile MTx
			72.275	72.980	Not Allocated	
			72.980	73.705	CORDLESS TELEPHONE	Space Commander II, Mobile MTx
			73.705	74.800	Not Allocated	
74.800	75.200	AERONAUTICAL RADIONAVIGATION	75.000		AERONAUTICAL RADIONAVIGATION	Assigned to Instrument Landing System Marker beacons
75.200	87.500	FIXED MOBILE except aeronautical mobile	75.200	79.000	Not Allocated	
			79.000	79.500	LAND MOBILE	
			79.500	80.000	Not Allocated	
			80.000	87.500	FIXED MOBILE except aeronautical mobile	
87.500	108.000	BROADCASTING (FM SOUND)				100 kHz BW FM channels
108.000	117.975	AERONAUTICAL RADIONAVIGATION				
117.975	136.000	AERONAUTICAL MOBILE	121.450	121.550	AERONAUTICAL MOBILE	Aeronautical emergency frequency (EPIRB) 121.5 MHz
			123.100		AERONAUTICAL MOBILE	Aeronautical emergency frequency auxiliary to 121.5 MHz.

Frequency Band (MHz)		Allocation	Frequency Band (MHz)		Sub-allocation	Comments
From	To	UPPER CASE: PRIMARY	From	To		
		Lower Case: Secondary				
136.000	137.000	AERONAUTICAL MOBILE FIXED				
137.000	138.000	METEOROLOGICAL-SATELLITE MOBILE-SATELLITE SPACE OPERATION SPACE RESEARCH				
138.000	144.000	AERONAUTICAL MOBILE				
144.000	146.000	AMATEUR AMATEUR-SATELLITE	144.000		AMATEUR	Event of natural disasters
146.000	146.500	LAND MOBILE	146.100	146.500	PAGING	
146.500	147.000	FIXED				
147.000	148.000	LAND MOBILE				
148.000	149.000	FIXED				
149.000	149.900	LAND MOBILE-SATELLITE				
149.900	150.050	LAND MOBILE RADIONAVIGATION-SATELLITE				
150.050	151.000	LAND MOBILE				
151.000	151.500	FIXED				
151.500	152.000	LAND MOBILE				
152.000	153.000	FIXED				
153.000	154.000	MISCELLANEOUS: FIXED & LAND MOBILE				
154.000	156.000	LAND MOBILE				

Frequency Band (MHz)		Allocation	Frequency Band (MHz)		Sub-allocation	Comments
From	To		From	To		
		UPPER CASE: PRIMARY				
		Lower Case: Secondary				
156.000	162.025	MARITIME MOBILE	156.000	156.7625	MARITIME MOBILE	Frequencies assigned to stations which have priority
			156.525		MARITIME MOBILE (Distress and Calling)	Digital selective calling for distress, safety and calling
			156.7625	156.8375	MARITIME MOBILE	Frequencies assigned to stations which have priority
			156.8		MARITIME MOBILE (Distress and Calling)	International maritime distress, safety and calling
			156.8375	157.450	MARITIME MOBILE	Frequencies assigned to stations which have priority
			160.600	160.975	MARITIME MOBILE	Frequencies assigned to stations which have priority
			161.475	162.050	MARITIME MOBILE	Frequencies assigned to stations which have priority
162.025	174.000	FIXED MOBILE	162.025	163.920	FIXED MOBILE	POLICE
			163.920	164.975	FIXED MOBILE	Reserved
			164.975	165.500	LAND MOBILE	
			165.500	167.000	FIXED MOBILE	Reserved
			167.000	168.495	FIXED MOBILE	POLICE
			168.495	169.775	FIXED MOBILE	Reserved
			169.775	170.825	LAND MOBILE	
			170.825	172.000	FIXED	
			172.000	174.000	LAND MOBILE	

Frequency Band (MHz)		Allocation	Frequency Band (MHz)		Sub-allocation	Comments
From	To	UPPER CASE: PRIMARY	From	To		
		Lower Case: Secondary				
174.000	230.000	BROADCASTING (TV)	174.000	181.000	TV CHANNEL 5	PAL Standard
			181.000	188.000	TV CHANNEL 6	PAL Standard
			188.000	195.000	TV CHANNEL 7	PAL Standard
			195.000	202.000	TV CHANNEL 8	PAL Standard
			202.000	209.000	TV CHANNEL 9	PAL Standard
			209.000	216.000	TV CHANNEL 10	PAL Standard
			216.000	223.000	TV CHANNEL 11	PAL Standard
			223.000	230.000	TV CHANNEL 12	PAL Standard
230.000	328.600	FIXED MOBILE	230.000	328.600	Reserved	
			235.000	322.000	MOBILE-SATELLITE	
			242.950	243.050	MOBILE-SATELLITE	Aeronautical emergency frequency (EPIRB) 243MHz
			312.000	315.000	MOBILE-SATELLITE	Earth-to-space
328.600	335.4	AERONAUTICAL RADIONAVIGATION				Limited to Instrument Landing System
335.4	399.900	FIXED MOBILE	335.4	399.900	Reserved	Mobile-Satellite on a secondary basis
			387.000	390.000	MOBILE-SATELLITE	Space-to-earth
399.90	400.050	RADIONAVIGATION-SATELLITE				
400.050	400.150	STANDARD FREQUENCY AND TIME SIGNAL (400.1 MHz)				

Frequency Band (MHz)		Allocation	Frequency Band (MHz)		Sub-allocation	Comments
From	To	UPPER CASE: PRIMARY	From	To		
		Lower Case: Secondary				
400.150	401.000	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE MOBILE-SATELLITE SPACE RESEARCH				
401.000	406.000	METEOROLOGICAL AIDS				
406.000	406.100	MOBILE-SATELLITE (EPIRB)				Aeronautical emergency frequency (EPIRB) 406.025 MHz
406.100	430.000	FIXED MOBILE except aeronautical mobile				
430.000	440.000	AMATEUR RADIOLOCATION	433.050	434.790	FIXED MOBILE	Industrial, scientific and medical (ISM)
440.000	450.000	FIXED MOBILE except aeronautical mobile	449.750	450.250	SPACE OPERATION	Earth-to-space
450.000	470.000	FIXED MOBILE	450.000	450.500	LAND MOBILE	
			450.500	450.750	MARITIME MOBILE	
			450.750	454.750	FIXED	
			454.750	455.250	LAND MOBILE	
			455.250	455.500	MARITIME MOBILE	
			455.500	456.250	Not Allocated	
			456.250	456.500	LAND MOBILE	
			456.500	457.000	Not Allocated	
			457.000	457.500	LAND MOBILE	
			457.500	459.000	Not Allocated	

Frequency Band (MHz)		Allocation	Frequency Band (MHz)		Sub-allocation	Comments
From	To	UPPER CASE: PRIMARY	From	To		
		Lower Case: Secondary				
			457.525		MARITIME MOBILE	
			457.550		MARITIME MOBILE	
			457.575		MARITIME MOBILE	
			459.000	460.000	PAGING	
			460.000	461.500	LAND MOBILE	
			461.500	461.750	MARITIME MOBILE	
			461.750	462.000	LAND MOBILE	
			462.000	463.750	Not Allocated	
			463.750	467.800	FIXED	Includes wireless microphones
			467.525		MARITIME MOBILE	
			467.550		MARITIME MOBILE	
			467.575		MARITIME MOBILE	
			467.800	468.050	MARITIME MOBILE	
			468.050	470.00	Not Allocated	
470.000	790.000	BROADCASTING (TV)				
790.000	862.000	BROADCASTING FIXED				
862.000	960.000	BROADCASTING FIXED MOBILE except aeronautical mobile	890.000	915.000	FIXED MOBILE except aeronautical mobile	GSM Mobile Cellular MTx
			915.000	960.000	FIXED MOBILE except aeronautical mobile	GSM Mobile Cellular BTx

