Japan

Attachment 1

QUESTIONNAIRE - PART I

(To be completed by both Administrations and Sector members, if relevant)

Specific Questions on National Radio Frequency Spectrum Management

1. Information on national radio frequency spectrum allocations: 29.7 - 960 MHz

a) .1 e published a National Table of Radio Frequency Spectrum Allocations, please submit a copy (either in electronic, or printed form, or both) of that table along with your responses to the attached questionnaire.

We enclose the frequency allocation table in Japan. The title is "*Principles of Frequency Allocation.*" Please note that this is a tentative translation into English. The electric file of this table is also available through the following website.

http://www.mpt.go.jp/policyreports/english/misc/table-e.html

b) If you do not have a national frequency allocations table available, the attached modified extract from Article S.5 of the Radio Regulations may be used to indicate general information on how this range of frequencies is used by your administration within your national borders.

See the following sheets.

2 Identification of a focal point regarding correspondence on this questionnaire (Parts I and II)

Please identify a focal point in your administration/organization who could provide a response to further correspondence regarding this questionnaire (see hereafter).

FOCAL POINT REGARDING CORRESPONDENCE ON THIS QUESTIONNAIRE (PARTS I AND II)

1. Mr./Ms _____ _____
   Family Name First Name

2. Country **JAPAN**

3. Name of the Administration/Organization **Ministry of Posts and Telecommunications**.

4. Title **International Frequency Policy Office, Telecommunications Bureau**

5. Address **1-3-2 Kasumigaseki, Chiyoda-Ku, Tokyo 100-8798, JAPAN**

6. Tel.: **+81 3 3504 4884** Fax: **+81 3 5251 7650** E-Mail: **sat-fpd@mpt.go.jp**

*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: devsg2@itu.int

Section IV – Table of Frequency Allocations (extract from the RR, 1998)

See "Footnotes to Japan's Domestic Frequency Allocation" about footnotes from J17 to J121 in the field of "National Allocation".

27.5-47 MHz

Read only			**To be completed**	
Allocation to services			**Japanese Allocation to services**	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
27.5-28	METEOROLOGICAL AIDS FIXED MOBILE		**27.5-28** MOBILE J17 J53	1W-DSB Fishery Radio
28-29.7	AMATEUR AMATEUR-SATELLITE		**28-29.7** AMATEUR AMATEUR-SATELLITE	Amateur Radio (Designated Frequency: 28850kHz)
29.7-30.005	FIXED MOBILE		**29.7-37.5** MOBILE	5W-DSB Fishery Radio
30.005-30.01	SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH			
30.01-37.5	FIXED MOBILE			
37.5-38.25	FIXED MOBILE Radio astronomy S5.149		**37.5-38.25** MOBILE Radio Astronomy J47	
38.25-39.986	FIXED MOBILE		**38.25-41** MOBILE	Radio Microphone Radio Control Transmitter 5W-DSB Fishery Radio
39.986-40.02	FIXED MOBILE Space research		J48	

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	Region 2	Region 3	National Allocation	Remarks
40.02-40.98	FIXED MOBILE S5.150			
40.98-41.015	FIXED MOBILE Space research S5.160 S5.161		**41-44** MOBILE Radiolocation	Radio Buoy
41.015-44	FIXED MOBILE S5.160 S5.161			
44-47	FIXED MOBILE S5.162 S5.162A		**44-50** MOBILE	

47-75.2 MHz

47-68 BROADCASTING	**47-50** FIXED MOBILE	**47-50** FIXED MOBILE BROADCASTING		
	50-54 AMATEUR S5.166 S5.167 S5.168 S5.170		**50-54** AMATEUR	Amateur Radio (Designated Frequency: 52MHz)

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
S5.162A S5.163 S5.164 S5.165 S5.169 S5.171	**54-68** BROADCASTING Fixed Mobile S5.172	**54-68** FIXED MOBILE BROADCASTING	**54-73** FIXED MOBILE	Radio Control Transmitter
68-74.8 FIXED MOBILE except aeronautical mobile	**68-72** BROADCASTING Fixed Mobile S5.173	**68-74.8** FIXED MOBILE		
	72-73 FIXED MOBILE			
	73-74.6 RADIO ASTRONOMY S5.178		**73-74.6** FIXED LAND MOBILE MARITIME MOBILE J47	Radio Control Transmitter
	74.6-74.8 FIXED MOBILE		**74.6-74.8** FIXED MOBILE	Specified Low-Power Radio (Radio Microphone)
S5.149 S5.174 S5.175 S5.177 S5.179		S5.149 S5.176 S5.179		
74.8-75.2	AERONAUTICAL RADIONAVIGATION S5.180 S5.181		**74.8-75.2** AERONAUTICAL RADIONAVIGATION J54	ILS (Instrument Landing System) (Marker Beacon) (75MHz)

75.2-137.175 MHz

<table>
<tr><th colspan="3">Read only</th><th colspan="2">To be completed</th></tr>
<tr><th colspan="3">Allocation to services</th><th colspan="2">Japanese Allocation to services</th></tr>
<tr><th>Region 1</th><th>Region 2</th><th>Region 3</th><th>National Allocation</th><th>Remarks</th></tr>
<tr><td rowspan="4">75.2-87.5
FIXED
MOBILE except aeronautical mobile

S5.175 S5.179 S5.184 S5.187</td><td colspan="2">75.2-75.4
FIXED
MOBILE
S5.179</td><td rowspan="3">75.2-76
FIXED
MOBILE</td><td rowspan="3">Specified Low-Power Radio
(Radio Microphone as Hearing Aid)</td></tr>
<tr><td>75.4-76
FIXED
MOBILE</td><td rowspan="3">75.4-87
FIXED
MOBILE

S5.149 S5.182 S5.183 S5.188</td></tr>
<tr><td rowspan="2">76-88
BROADCASTING
Fixed
Mobile

S5.185</td><td rowspan="3">76-90
BROADCASTING
Mobile J55</td><td rowspan="3">VHF Broadcasting,
Multipelx Broadcasting</td></tr>
<tr><td rowspan="2">87.5-100
BROADCASTING

S5.190</td><td rowspan="2">87-100
FIXED
MOBILE
BROADCASTING</td></tr>
<tr><td>88-100
BROADCASTING</td><td>90-108
BROADCASTING</td><td>TV Broadcasting,
Multiplex Broadcasting</td></tr>
<tr><td>100-108</td><td colspan="2">BROADCASTING
S5.192 S5.194</td><td rowspan="2"></td><td rowspan="2"></td></tr>
<tr><td>108-117.975</td><td colspan="2">AERONAUTICAL RADIONAVIGATION
S5.197</td></tr>
<tr><td colspan="3"></td><td>108-117.975
AERONAUTICAL RADIONAVIGATION</td><td>ILS
(Instrument Landing System)
(Localizer)
VOR
(VHF Omnidirectional Radio Range)</td></tr>
</table>

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
117.975-137	AERONAUTICAL MOBILE (R) S5.111 S5.198 S5.199 S5.200 S5.201 S5.202 S5.203 S5.203A S5.203B		**117.975-136** AERONAUTICAL MOBILE (R) J30 J56 J57 J58 J59 J60	Aeronautical Radiotelephony Satellite Emergency Position Indicating Radio Beacon (121.5MHz) Ship-to-Aircraft Radiotelephone for Search and Rescue Operations (121.5 and 123.1MHz) Emergency Locator Transmitter (121.5MHz)
			136-137 AERONAUTICAL MOBILE (R)	Aeronautical Radiotelephony
137-137.025	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.208A S5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208		**137-137.025** SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) J61 J62 SPACE RESEARCH (space-to-Earth) J63	

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
137.025-137.175	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-satellite (space-to-Earth) S5.208A S5.209 Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208		**137.025-137.175** SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Mobile-Satellite (space-to-Earth) J61 J62 J63	

137.175-148 MHz

137.175-137.825	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.208A S5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208		**137.175-137.825** SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) J61 J62 SPACE RESEARCH (space-to-Earth) J63	

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
137.825-138 SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-satellite (space-to-Earth) S5.208A S5.209 Mobile except aeronautical mobile (R) S5.204 S5.205 S5.206 S5.207 S5.208			**137.825-138** SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Mobile-Satellite (space-to-Earth) J61 J62 J63	
138-143.6 AERONAUTICAL MOBILE (OR) S5.210 S5.211 S5.212 S5.214	**138-143.6** FIXED MOBILE RADIOLOCATION Space research (space-to-Earth)	**138-143.6** FIXED MOBILE Space research (space-to-Earth) S5.207 S5.213	**138-142** AERONAUTICAL MOBILE (OR)	Aeronautical Radiotelephony
143.6-143.65 AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to-Earth) S5.211 S5.212 S5.214	**143.6-143.65** FIXED MOBILE RADIOLOCATION SPACE RESEARCH (space-to-Earth)	**143.6-143.65** FIXED MOBILE SPACE RESEARCH (space-to-Earth) S5.207 S5.213	**142-144** LAND MOBILE	
143.65-144 AERONAUTICAL MOBILE (OR) S5.210 S5.211 S5.212 S5.214	**143.65-144** FIXED MOBILE RADIOLOCATION Space research (space-to-Earth)	**143.65-144** FIXED MOBILE Space research (space-to-Earth) S5.207 S5.213	J64	

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
144-146 AMATEUR S5.120 AMATEUR-SATELLITE S5.216			**144-146** AMATEUR AMATEUR-SATELLITE	Amateur Radio (Designated Frequency: 145MHz)
146-148 FIXED MOBILE except aeronautical mobile (R)	**146-148** AMATEUR S5.217	**146-148** AMATEUR FIXED MOBILE S5.217	**146-148** LAND MOBILE J64	
148-149.9 FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) S5.209 S5.218 S5.219 S5.221	**148-149.9** FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.209 S5.218 S5.219 S5.221		**148-149.9** LAND MOBILE MOBILE-SATELLITE (Earth-to-space) J62 J64 J65 J66 J67	Portable Mobile Satellite Data Communication (Non-Geostationary Satellite Relay)
149.9-150.05 MOBILE-SATELLITE (Earth-to-space) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.224B S5.220 S5.222 S5.223			**149.9-150.05** MOBILE-SATELLITE (Earth-to-space) J62 J95 RADIONAVIGATION SATELLITE J95A J68 J69	Portable Mobile Satellite Data Communication (Non-Geostationary Satellite Relay)
150.05-153 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149	**150.05-156.7625** FIXED MOBILE		**150.05-154.7** LAND MOBILE **J64**	Simplified Radiocommunication

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
153-154 FIXED MOBILE except aeronautical mobile (R) Meteorological Aids				
154-156.7625 FIXED MOBILE except aeronautical mobile (R) S5.226 S5.227	S5.225 S5.226 S5.227		**154.7-156** LAND MOBILE J64	
			156-157.45 MARITIME MOBILE J30 J70 J71	Maritime Mobile Radiocommunication (VHF) Two-Way Radiotelephone On-Board Communication Equipment (Intraship Communication) Marine VHF Radio
156.7625-156.8375	MARITIME MOBILE (distress and calling) S5.111 S5.226			

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
156.8375-174 FIXED MOBILE except aeronautical mobile	**156.8375-174** FIXED MOBILE			
			157.45-159.3 LAND MOBILE MARITIME MOBILE J64 J72	
			159.3-160.6 LAND MOBILE J64	
			160.6-160.975 MARITIME MOBILE	Maritime Mobile Radiocommunication (VHF) Marine VHF Radio
			160.975-161.475 LAND MOBILE MARITIME MOBILE J64 J72	
			161.475-162.05 MARITIME MOBILE	Maritime Mobile Radiocommunication (VHF)
			162.05-169 FIXED LAND MOBILE J73	
			169-170 MOBILE J74	
S5.226 S5.229	S5.226 S5.230 S5.231 S5.232		**170-222** BROADCASTING	TV Broadcasting, Multipelx Broadcasting

Read only			**To be completed**	
Allocation to services			**Japanese Allocation to services**	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
174-223 BROADCASTING S5.235 S5.237 S5.243	**174-216** BROADCASTING Fixed Mobile S5.234 **216-220** FIXED MARITIME MOBILE Radiolocation S5.241 S5.242	**174-223** FIXED MOBILE BROADCASTING S5.233 S5.238 S5.240 S5.245		

220-335.4 MHz

	220-225			
			222-223 MOBILE	
223-230 BROADCASTING Fixed Mobile S5.243 S5.246 S5.247	AMATEUR FIXED MOBILE Radiolocation S5.241 **225-235** FIXED MOBILE	**223-230** FIXED MOBILE BROADCASTING AERONAUTICAL RADIONAVIGATION Radiolocation S5.250	**223-226** MOBILE RADIOLOCATION **226-251** MOBILE J30 J57 J75 J76	 Emergency Locator Transmitter (243MHz) Differential GPS (Global Positioning System)

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	Region 2	Region 3	National Allocation	Remarks
230-235 FIXED MOBILE S5.247 S5.251 S5.252		**230-235** FIXED MOBILE AERONAUTICAL RADIONAVIGATION S5.250		
235-267	FIXED MOBILE S5.111 S5.199 S5.252 S5.254 S5.256		**251-255** MOBILE J74	Cordless Telephone
267-272	FIXED MOBILE Space operation (space-to-Earth) S5.254 S5.257		**255-275** MOBILE	
272-273	SPACE OPERATION (space-to-Earth) FIXED MOBILE S5.254		J74	

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
273-312	FIXED MOBILE S5.254			
312-315	FIXED MOBILE Mobile-satellite (Earth-to-space) S5.254 S5.255		**275-322** MOBILE J77	Radio Paging (Pager)
315-322	FIXED MOBILE S5.254			
322-328.6	FIXED MOBILE RADIO ASTRONOMY S5.149		**322-328.6** MOBILE RADIO ASTRONOMY J47	Specified Low-Power Radio (Radio Microphone)
328.6-335.4	AERONAUTICAL RADIONAVIGATION S5.258 S5.259		**328.6-335.4** AERONAUTICAL RADIONAVIGATION J78	ILS (Instrument Landing System) (Glide Path)

335.4-410 MHz

Read only			**To be completed**	
Allocation to services			**Japanese Allocation to services**	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
335.4-387	FIXED MOBILE S5.254		**335.4-347.7** LAND MOBILE MARITIME MOBILE FIXED J73 J79 J80	
			347.7-351.9 MOBILE FIXED	Simplified Radio
			351.9-364.2 LAND MOBILE MARITIME MOBILE FIXED J73 J79 J80	
			364.2-365.9 MOBILE FIXED	
			365.9-368.2 LAND MOBILE FIXED J73	
			368.2-370.6 FIXED	
			370.6-383.9 MOBILE FIXED	Cordless Telephone
			383.9-386.2 LAND MOBILE FIXED J73	

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
			386.2-388.6 FIXED	
387-390	FIXED MOBILE Mobile-satellite (space-to-Earth) S5.208A S5.254 S5.255		**388.6-399.9** MOBILE FIXED	
390-399.9	FIXED MOBILE S5.254			
399.9-400.05	MOBILE-SATELLITE (Earth-to-space) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.222 S5.224B S5.260 S5.220		**399.9-400.05** MOBILE-SATELLITE (Earth-to-space) J62 J95 RADIONAVIGATION-SATELLITE J89 J95A J68	
400.05-400.15	STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) S5.261 S5.262		**400.05-400.15** STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE J81	

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
400.15-401	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) S5.208A S5.209 SPACE RESEARCH (space-to-Earth) S5.263 Space operation (space-to-Earth) S5.262 S5.264		**400.15-401** METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) J61 J62 SPACE RESEARCH (space-to-Earth) J82 Space Operation (space-to-Earth) J83	
401-402	METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile		**401-402** SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space)	
402-403	METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile		**402-403** METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile	Meteorological Radio Robot

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
403-406	METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile		**403-406** METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile	Radiosonde Meteorological Radio Robot
406-406.1	MOBILE-SATELLITE (Earth-to-space) S5.266 S5.267		**406-406.1** MOBILE-SATELLITE (Earth-to-space) J85 J86	Satellite Emergency Position Indicating Radio Beacon (406.025MHz) Emergency Locator Transmitter (406.025MHz)
406.1-410	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149		**406.1-410** FIXED LAND MOBILE RADIO ASTRONOMY J47	

410-470 MHz

410-420	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) S5.268	**410-420** LAND MOBILE FIXED SPACE RESEARCH (space-to-space) J87	

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
420-430 FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271			**420-430** RADIOLOCATION Land Mobile J88	Specified Low-Power Radio Premises Radio Low-Power Security System
430-440 AMATEUR RADIOLOCATION S5.138 S5.271 S5.272 S5.273 S5.274 S5.275 S5.276 S5.277 S5.280 S5.281 S5.282 S5.283	**430-440** RADIOLOCATION Amateur S5.271 S5.276 S5.277 S5.278 S5.279 S5.281 S5.282		**430-440** AMATEUR Radiolocation J89	Amateur Radio (Designated Frequency: 435MHz)
440-450 FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271 S5.284 S5.285 S5.286			**440-450** RADIOLOCATION Land Mobile J88 J90	Specified Low-Power Radio Premises Radio
450-455 FIXED MOBILE S5.209 S5.271 S5.286 S5.286A S5.286B S5.286C S5.286D S5.286E			**450-460** FIXED MOBILE	On-Board Communication Equipment (Intraship Communication)
455-456 FIXED MOBILE S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E	**455-456** FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.286A S5.286B S5.286C S5.209 S5.271	**455-456** FIXED MOBILE S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E		
456-459 FIXED MOBILE S5.271 S5.287 S5.288			J90 J92	

Read only			To be completed	
Allocation to services			**Japanese Allocation to services**	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
459-460 FIXED MOBILE S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E	**459-460** FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.286A S5.286B S5.286C S5.209 S5.271	**459-460** FIXED MOBILE S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E		
460-470 FIXED MOBILE Meteorological-Satellite (space-to-Earth) S5.287 S5.288 S5.289 S5.290			**460-470** METEOROLOGICAL-SATELLITE (space-to-Earth) J91 MOBILE FIXED J92 J93 J94	On-Board Communication Equipment (Intraship Communication) Simplified Radio Specified Low-Power Radio (Telemeter, Telecontrol)

470-890 MHz

Read only			**To be completed**	
Allocation to services			**Japanese Allocation to services**	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
470-790 BROADCASTING S5.149 S5.291A S5.294 S5.296 S5.300 S5.302 S5.304 S5.306 S5.311 S5.312	**470-512** BROADCASTING Fixed Mobile S5.292 S5.293	**470-585** FIXED MOBILE BROADCASTING S5.291 S5.298	**470-585** BROADCASTING LAND MOBILE J64	TV Broadcasting, Multiplex Broadcasting
790-862 FIXED BROADCASTING S5.312 S5.314 S5.315 S5.316 S5.319 S5.321	**512-608** BROADCASTING S5.297	**585-610** FIXED MOBILE BROADCASTING RADIONAVIGATION S5.149 S5.305 S5.306 S5.307	**585-770** BROADCASTING LAND MOBILE J47 J96	TV Broadcasting, Multiplex Broadcasting
	608-614 RADIO ASTRONOMY Mobile-satellite except aeronautical mobile-satellite (Earth-to-space)	**610-890** FIXED MOBILE BROADCASTING	**770-806** FIXED MOBILE	Specified Radio Microphone
	614-806 BROADCASTING Fixed Mobile S5.293 S5.309 S5.311		**806-810** MOBILE	Specified Low-Power Radio (Radio Microphone)
	806-890 FIXED MOBILE BROADCASTING			

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	Region 2	Region 3	National Allocation	Remarks
			810-828 MOBILE J74	Cellular Telephone (TDMA System) (Base Station) Convenience Radio Phone (CRP) (Base Station)
			828-830 MOBILE J74	
			830-832 MOBILE J74	Aircraft Radiotelephone (Portable Base Station) Airport Radiotelephone (Land Mobile Station)
			832-834 MOBILE J74	Cellular Telephone (TDMA System) (Base Station) Cellular Telephone (CDMA System) (Base Station)
			834-838 MOBILE J74	
			838-840 MOBILE J74	Cellular Telephone (TDMA System) (Base Station) Cellular Telephone (CDMA System) (Base Station)
			840-843 MOBILE **J74**	Land Mobile Radio Data Communication (Teleterminal System) (Base Station)

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	Region 2	Region 3	National Allocation	Remarks
			843-846 MOBILE J74	Cellular Telephone (FDMA System) (Base Station) Cellular Telephone (TDMA System) (Base Station) Cellular Telephone (CDMA System) (Base Station)
			846-850 MOBILE	Local Area Disaster-Prevention Radio
			850-860 MOBILE J74	MCA (Multi-Channel Access) Land Mobile Communication (Control Station) Digital MCA (Multi-Channel Access) Land Mobile Communication (Control Station)
862-890 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322			**860-885** MOBILE J74	Cellular Telephone (FDMA System) (Base Station) Cellular Telephone (TDMA System) (Base Station) Cellular Telephone (CDMA System) (Base Station)
			885-887 MOBILE J74	Aircraft Radiotelephone (Portable Station) Airport Radiotelephone (Base Station)

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
			887-889 MOBILE J74	Harbor Radiotelephone (Portable Station) Cellular Telephone (TDMA System) (Land Mobile Station) Cellular Telephone (CDMA System) (Land Mobile Station)
S5.319 S5.323	S5.317 S5.318	S5.149 S5.305 S5.306 S5.307 S5.311 S5.320	**889-893** MOBILE J74	

890-1 350 MHz

890-942 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 Radiolocation	**890-902** FIXED MOBILE except aeronautical mobile Radiolocation S5.318 S5.325	**890-942** FIXED MOBILE BROADCASTING Radiolocation		
			893-895 MOBILE J74	Cellular Telephone (TDMA System) (Base Station) Cellular Telephone (CDMA System) (Base Station)
			895-898 MOBILE J74	Land Mobile Radio Data Communication (Teleterminal System) (Land Mobile Station)

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
			898-901 MOBILE	Cellular Telephone (FDMA System) (Land Mobile Station) Cellular Telephone (TDMA System) (Land Mobile Station) Cellular Telephone (CDMA System) (Land Mobile Station)
	902-928 FIXED Amateur Mobile except aeronautical mobile Radiolocation S5.150 S5.325 S5.326		**901-903** MOBILE	Local Area Disaster-Prevention Radio
			903-905 MOBILE	Personal Radio
			905-915 MOBILE J74	MCA (Multi-Channel Access) Land Mobile Communication (Land Mobile Station, Directive Station) Digital MCA (Multi-Channel Access) Land Mobile Communication (Land Mobile Station, Directive Station)
			915-940 MOBILE J74	Cellular Telephone (FDMA System) (Land Mobile Station) Cellular Telephone (TDMA System) (Land Mobile Station) Cellular Telephone (CDMA System) (Land Mobile Station)

Read only			To be completed	
Allocation to services			Japanese Allocation to services	
Region 1	**Region 2**	**Region 3**	**National Allocation**	**Remarks**
	928-942 FIXED MOBILE except aeronautical mobile Radiolocation			
S5.323	S5.325	S5.327		
942-960 FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 S5.323	**942-960** FIXED MOBILE	**942-960** FIXED MOBILE BROADCASTING S5.320	**940-958** MOBILE J74 J97	Cellular Telephone (TDMA System) (Land Mobile Station) Cellular Telephone (CDMA System) (Land Mobile Station)
			958-960 FIXED MOBILE J121	

Footnotes to Japan's Domestic Frequency Allocation

J17 Stations of the radiolocation service that are currently operating in this frequency band shall move to another frequency band as soon as possible.

J30 The carrier frequencies 2 182 kHz, 3 023 kHz, 5 680 kHz, 8 364 kHz as well as the frequencies 121.5 MHz, 156.8 MHz, 243 MHz, 10003kHz, 1499kHz, and 19993kHz may also be used, in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles. The bandwidth of any individual transmission shall not exceed ± 3 kHz.

J47 In assigning frequencies to stations of other services to which the bands:

13 360-13 410 kHz,	4 990-5 000 MHz,	93.07-93.27 GHz*,
25 550-25 670 kHz,	10.6-10.68 GHz,	97.88-98.08 GHz*,
37.5-38.25 MHz,	14.47-14.5 GHz*,	140.69-140.98 GHz*,
73-74.6 MHz	22.01-22.21 GHz*,	144.68-144.98 GHz*,
322-328.6 MHz*,	22.21-22.5 GHz,	145.45-145.75 GHz*,
406.1-410 MHz,	22.81-22.86 GHz*,	146.82-147.12 GHz*,
608-614 MHz	23.07-23.12 GHz*,	150-151 GHz*,
1 330-1 400 MHz*	31.2-31.3 GHz,	174.42-175.02 GHz*,
1 610.6-1 613.8 MHz*,	31.5-31.8 GHz	177-177.4 GHz*,
1 660-1 670 MHz,	36.43-36.5 GHz*,	178.2-178.6 GHz*,
1 718.8-1 722.2 MHz*,	42.5-43.5 GHz,	181-181.46 GHz*,
2 655-2 690 MHz,	42.77-42.87 GHz*,	186.2-186.6 GHz*,
3 260-3 267 MHz*,	43.07-43.17 GHz*,	250-251 GHz*,
3 332-3 339 MHz*,	43.37-43.47 GHz*,	257.5-258 GHz*,
3 345.8-3 352.5 MHz*,	48.94-49.04 GHz*,	261-265 GHz,and
4 825-4 835 MHz*,	72.77-72.91 GHz*,	265-275 GHz

are allocated (* indicates radio astronomy use for spectral line observations), all practicable steps shall be taken to protect the radio astronomy service from harmful interference. Emissions from spaceborne or airborne stations can be particularly serious sources of interference to the radio astronomy service (see Nos. **S4.5** and **S4.6** and Article **S29** of the RR).

J48 The following bands:

13 553 - 13 567 kHz (center frequency 13 560 kHz),

26 957 - 27 283 kHz (center frequency 27 120 kHz),

40.66 - 40.70 MHz (center frequency 40.68 MHz),

2 400 - 2 500 MHz (center frequency 2 450 MHz),

5 725 - 5 875 MHz (center frequency 5 800 MHz), and

24 - 24.25 GHz (center frequency 24.125 GHz)

are designated for industrial, scientific and medical (ISM) applications. Radiocommunication services operating within these bands must accept harmful interference which may be caused by these applications.

J53 The frequency 27524 kHz is the distress, calling and response frequency of the maritime mobile service within Japan.

J54 The frequency 75 MHz is assigned to marker beacons. Frequencies close to the limits of the guard band 74.8-75.2MHz shall not be assigned to stations of other services which, because of their power or geographical position, might cause harmful interference or otherwise place a constraint on marker beacons.

J55 The use of this band by mobile service is limited to FM multiplex broadcasting stations operating the radio paging service.

J56 In this band, the frequency 121.5 MHz is the aeronautical emergency frequency and, where required, the frequency 123.1 MHz is the aeronautical frequency auxiliary to 121.5 MHz. Mobile stations of the maritime mobile service may communicate on these frequencies for distress and safety purposes with stations of the aeronautical mobile service.

J57 The bands 121.45 - 121.55 MHz and 242.95 - 243.05 MHz are also allocated to the mobile-satellite service for the reception on board satellites of emissions from emergency position-indicating radiobeacons transmitting at 121.5 MHz and 243 MHz.

J58 The frequency band 121.6-121.975 MHz may also be used by stations in the land mobile service that engage in ground control operations within airports.

J59 This frequency band may also be allocated to the aeronautical mobile-satellite (R) service, subject to agreement obtained from other administrations under No. **S9.21** of the RR.

J60 The band 132-136 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, account shall be taken of the frequencies assigned to stations in the aeronautical mobile (R) service.

J61 In making assignments to space stations in the mobile-satellite service in this band, all practicable steps shall be taken to protect the radio astronomy service in the bands 150.05-153 MHz, 322-328.6 MHz, 406.1-410 MHz and 608-614 MHz from harmful interference by unwanted emissions.

J62 The use of this band by the mobile-satellite service is limited to non-geostationary-satellite systems.

J63 The use of the band 137-138 MHz by the mobile-satellite service is subject to coordination under No. **S9.11A** of the RR.

J64 This frequency band may also be used in the portable mobile service and fixed service that is closely related to the land mobile service.

J65 Frequencies in this band may also be allocated for the space operation service (Earth-to-space) on a primary basis, on condition that the Japanese administration obtain agreements of other administrations in accordance with No. **S9.21** of the RR. The bandwidth of any individual transmission shall not exceed ± 25 kHz.

J66 The use of this band by the mobile-satellite service is subject to coordination under No. **S9.11A** of the RR. The mobile-satellite service shall not constrain the development and use of the fixed, mobile and space operation services in the band 148 - 149.9 MHz.

J67 Stations of the mobile-satellite service in this band shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency Allocations in the RR.

J68 The use of the this band by the mobile-satellite service is subject to coordination under No. **S9.11A** of the RR. The mobile-satellite service shall not constrain the development and use of the radionavigation-satellite service in the bands 149.9-150.05 MHz and 399.9-400.05 MHz.

J69 Emissions of frequencies in this band for the radionavigation-satellite service may also be used by receiving earth stations in the space research service.

J70 The frequency 156.8 MHz is the international distress and calling frequency for radiotelephony.

J71 The frequency 156.525 MHz is to be used exclusively for digital selective calling for distress, safety and calling.

J72 This frequency band may also be used in portable mobile or fixed service that is closely related to the maritime mobile service.

J73 This frequency band may also be used in portable mobile service that is closely related to the land mobile service.

J74 This frequency band may also be used in fixed service that is closely related to the mobile service.

J75 The frequency band 247.9-250.2 MHz may also be used by stations of the fixed service for multiple address on a primary basis.

J76 The frequency 243 MHz is the frequency for use by survival craft stations and equipment used for survival purposes.

J77 The use of this frequency band by stations of the radio paging service is limited to the telecommunication service.

J78 The use of this band by the aeronautical radionavigation service is limited to Instrument Landing Systems (glide path).

J79 Stations in the aeronautical mobile service which currently operate in this frequency band may continue their operations for the time being.

J80 This frequency band may also be used in portable mobile service that is closely related to the maritime mobile service.

J81 Emissions of the standard frequency 400.1 MHz shall be confined in a band of ± 25 kHz.

J82 This band is also allocated to the space research service in the space-to-space direction for communications with manned space vehicles. In this application, the space research service will not be regarded as a safety service.

J83 The use of the band 400.15 - 401 MHz by the mobile-satellite service is subject to coordination under No. **S9.11A** of the RR.

J85 The use of this band by the mobile-satellite service is limited to low power satellite emergency position-indicating radiobeacons.

J86 Any emission capable of causing harmful interference to low power satellite emergency position-indicating radiobeacons that use this band is prohibited.

J87 Use of this band by the space research service is limited to communications within 5 km of an orbiting, manned space vehicle. In this frequency band the space research (space-to-space) service shall not claim protection from, nor constrain the use and development of, stations of the fixed and mobile services.

J88 This frequency band may also be used on a secondary basis by stations of the fixed service which is closely related to the land mobile service.

J89 In the bands 435 - 438 MHz, 1 260 - 1 270 MHz, 2 400 - 2 450 MHz, and 5 650 - 5 670 MHz, the amateur-satellite service may operate on condition that it does not cause harmful interference to other services operating in accordance with the Table of Frequency Allocations in the RR. The use of the bands 1 260 - 1 270 MHz and 5 650 - 5 670 MHz by the amateur-satellite service is limited to the Earth-to-space direction.

J90 The band 449.75 - 450.25 MHz may be used for the space operation service (Earth-to-space) and the space research service (Earth-to-space) on condition that the Japanese administration obtain agreements of other administrations in accordance with No. **S9.21** of the RR.

J91 The allocation of this band to the meteorological-satellite service (space-to-Earth) is on a primary basis, on condition that the Japanese administration obtain agreements of other administrations in accordance with No. **S9.21** of the RR.

J92 In the maritime mobile service, the frequencies 457.525 MHz, 457.550 MHz, 457.575 MHz, 467.525 MHz, 467.550 MHz and 467.575 MHz may be used by on-board communication stations.

J93 Frequencies in this band for space-to-Earth transmissions may be allocated to the earth exploration-satellite service other than the meteorological-satellite service, on condition that the allocation does not cause harmful interference to stations operating in accordance with the Table of Frequency Allocations in the RR.

J94 The use of the frequencies 462.25 MHz, 462.275 MHz and 462.30 MHz by stations of the radio paging service is limited to the telecommunications service.

J95 The use of the bands 149.9-150.05 MHz and 399.9-400.05 MHz by the mobile-satellite service (Earth-to-space) is limited to the land mobile-satellite service (Earth-to-space) until 1 January 2015.

J95A The allocation of the bands 149.9-150.05 MHz and 399.9-400.05 MHz to the radionavigation-satellite service shall be effective until 1 January 2015.

J96 The band 608 - 614 MHz is also allocated to the radio astronomy service on a secondary basis.

J97 Fixed service stations currently operating in this frequency band shall move to another frequency band as soon as possible.

J121 Stations in the fixed service which currently operate in this frequency band may continue their operations for the time being.

Attachment 2

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 **JAPAN**

Focal point _____

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? **21 May, 1999**

   - 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?

   No.

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?

   No.

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?

   No.

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?

No.

5. Do you have a need for any spectrum redeployment* ? YES_√_ NO__

* The term "redeployment" 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.

When determining necessary for the purpose of regulating radio waves or securing public welfare, the Radio Law allows the Minister of Posts and Telecommunications to order to change frequency, etc. of a radio station only within the scope of disturbing the fulfillment of the purposes of the radio station. In this case, the Government shall compensate the licensee for the loss resulting from ordering change. In most cases, however, relocation is implemented on a voluntary basis.

6. What is the total cost of national spectrum management functions performed by your Government (expressed in Swiss francs)

The budget is approximately 1.6 billion Swiss francs (including all the budget of the other telecommunications and broadcasting related sectors of MPT.)

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

From national budget.

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.

Licensees shall pay those fees corresponding to the categories of radio stations to the Government in order to fund the expense of administrative works of monitoring radio waves, management of Integrated Radio Stations Database, examination for establishing the technical regulations of radio equipment, etc.

8. Do you maintain centralized databases for spectrum management? YES_√_ NO__

- What is the approximate size of your database (expressed in number of records)? **Approximately 2,200 GB (capacity)**

- Do you have a computerized data base management system (DBMS)? YES_√_ NO__

- What DBMS system do you use? **Original system**

- 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?

No.

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?

No.

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?

No.

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?

No.

12. Do you perform radio monitoring? YES_√_ NO__

- number of fixed monitoring stations **11**

- facilities available at fixed monitoring stations
  - -- monitoring up to **3000** MHz
  - -- direction finding up to **3000** MHz

- number of mobile monitoring stations **11**

- facilities available at mobile monitoring stations
  -- monitoring up to **2000** MHz
  -- direction finding up to **2000** MHz

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

Yes. As technology for usage of radio wave advances, we recognize that it is getting more and more necessary to study how to monitor frequencies with digital modulation or spread spectrum modulation, etc. We would appreciate it if ITU could include some examples in *Spectrum Monitor Handbook* for our making use of them.

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?

No.

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

Type of computers **Mainframe computer, Server, Workstation**

Operating system(s) **General-purpose operating system, Windows NT, UNIX, OS2, Windows 95 (ACOS 4 XVP PX)**

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

No.

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

Approximately 2,500 (including all the staff of the other telecommunications related sectors of MPT)

16. Number of support staff in national spectrum management?

(See above)

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

We enclose the "*Annual Report 1999.*" See also the following website: http://www.mpt.go.jp/outline/outline-home-e.html)

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

a) National Spectrum Management, version 1995 ?

b) Spectrum Monitoring[1], version 1995?

c) Computer-aided Techniques for Spectrum Management, version 1999?

d) HF Broadcasting System Design, version 1999?

e) Report SM.2012, Economic Aspects of Spectrum Management, version 1997[2]?

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?

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_____

*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.