

Thailand

**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) If you have 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.
- 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.

In using the attached modified extract of the International Frequency Allocations table presented in the excerpt from the Radio Regulations Article S.5, you, as a respondee from an administration or industry, are invited to enter the following information. In the column designated "National Allocations", respondees from administrations are requested to enter the name of the radiocommunications service (using the ITU terminology given in Article S1 of the Radio Regulations, such as FIXED, MOBILE, space research, radio astronomy...) that is allocated use of a given frequency band. In the column designated "Remarks", 1) respondees from administrations are invited to enter further technical specifications, if any, that have been established nationally for a given band such as channel spacing, limitations on radiated signal power...; and 2) respondees from industry are invited to enter the operating parameters such as channel spacing, radiated signal power capabilities,..., of products available for operation in a given frequency band.

**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).

Thailand

*Part I*

7

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

1. Mr./Ms. \_\_\_\_\_  
Family Name \_\_\_\_\_ First Name \_\_\_\_\_
2. Country \_\_\_\_\_
3. Name of the Administration/Organization \_\_\_\_\_
4. Title \_\_\_\_\_
5. Address \_\_\_\_\_  
\_\_\_\_\_
6. Tel.: \_\_\_\_\_ Fax: \_\_\_\_\_ E-Mail: \_\_\_\_\_

*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*



**(Draft)**

**National Table of Frequency Allocations**

**June 1999**

---

**POST AND TELEGRAPH DEPARTMENT**  
87 Phaholyothin 8 Road, Bangkok 10400, Thailand  
Tel: (662) 2710151-60 Fax: (662) 2713514  
<http://www.ptd.go.th>

---

Table of Frequency Allocations

9-110 kHz

Allocation to services		
Region 1	Region 2	Region 3
Below 9	(Not allocated) S5.53 S5.54	
9-14	RADIONAVIGATION	
14-19.95	FIXED MARITIME MOBILE S5.57 S5.55 S5.56	
19.95-20.05	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	
20.05-70	FIXED MARITIME MOBILE S5.57 S5.56 S5.58	
70-72	RADIONAVIGATION S5.60	<p>70-90 FIXED MARITIME MOBILE S5.57 MARITIME RADIO-NAVIGATION S5.60 Radiolocation</p> <p>70-72 RADIONAVIGATION S5.60 Fixed Maritime mobile S5.57 S5.59</p>
72-84	FIXED MARITIME MOBILE S5.57 RADIONAVIGATION S5.60 S5.56	<p>72-84 FIXED MARITIME MOBILE S5.57 RADIONAVIGATION S5.60</p>
84-86	RADIONAVIGATION S5.60	<p>84-86 RADIONAVIGATION S5.60 Fixed Maritime mobile S5.57 S5.59</p>
86-90	FIXED MARITIME MOBILE S5.57 RADIONAVIGATION S5.56	<p>86-90 FIXED MARITIME MOBILE S5.57 RADIONAVIGATION S5.60</p>
90-110	RADIONAVIGATION S5.62 Fixed S5.64	

Table of Frequency Allocations

9-110 kHz

Allocation to services	
Thailand	Remark
Below 9	(Not allocated) S5.53 S5.54
9-14	RADIONAVIGATION
14 - 19.95	FIXED MARITIME MOBILE S5.57 S5.56
19.95 - 20.05	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)
20.05 - 70	FIXED MARITIME MOBILE S5.57 S5.56 T1
70 - 72	RADIONAVIGATION S5.60 Fixed Maritime mobile S5.57
72 - 84	FIXED MARITIME MOBILE S5.57 RADIONAVIGATION S5.60
84 - 86	RADIONAVIGATION S5.60 Fixed Maritime mobile S5.57
86 - 90	FIXED MARITIME MOBILE S5.57 RADIONAVIGATION S5.60
90 - 110	RADIONAVIGATION S5.62 Fixed S5.64

110-255 kHz			110 – 200 kHz	
Allocation to services			Allocation to services	
Region 1	Region 2	Region 3	Thailand	Remark
110-112 FIXED MARITIME MOBILE RADIONAVIGATION S5.64	110-130 FIXED MARITIME MOBILE MARITIME RADIO- NAVIGATION S5.60 Radiolocation	110-112 FIXED MARITIME MOBILE RADIONAVIGATION S5.60 S5.64	110 – 112 FIXED MARITIME MOBILE RADIONAVIGATION S5.60 S5.64	
112-115 RADIONAVIGATION S5.60		112-117.6 RADIONAVIGATION S5.60 Fixed Maritime mobile S5.64 S5.66	112-117.6 RADIONAVIGATION S5.60 Fixed Maritime mobile S5.64 S5.65	
115-117.6 RADIONAVIGATION S5.60 Fixed Maritime mobile S5.64 S5.66		117.6-126 RADIONAVIGATION S5.60 S5.64	117.6 – 126 RADIONAVIGATION S5.60 S5.64	
117.6-126 RADIONAVIGATION S5.60 S5.64		126-129 RADIONAVIGATION S5.60 Fixed Maritime mobile S5.64 S5.65	126 – 129 RADIONAVIGATION S5.60 Fixed Maritime mobile S5.64	
126-129 RADIONAVIGATION S5.60		129-130 RADIONAVIGATION S5.60 S5.64	129 – 130 RADIONAVIGATION S5.60 S5.64	
129-130 RADIONAVIGATION S5.60 S5.64	S5.61 S5.64	130-160 RADIONAVIGATION S5.60 S5.64	130 – 160 RADIONAVIGATION S5.60 S5.64	
130-148.5 RADIONAVIGATION S5.60 S5.64 S5.67		130-160 RADIONAVIGATION S5.60 S5.64	130 – 160 RADIONAVIGATION S5.60 S5.64	
148.5-255 BROADCASTING		160-190 RADIONAVIGATION S5.60 Aeronautical radionavigation S5.68 S5.69 S5.70	160 – 190 RADIONAVIGATION S5.60 Aeronautical radionavigation S5.68 S5.69 S5.70	
		190-200 AERONAUTICAL RADIONAVIGATION	190 – 200 AERONAUTICAL RADIONAVIGATION	

Allocation to services		
Region 1	Region 2	Region 3
<b>255-283.5</b> BROADCASTING AERONAUTICAL RADIONAVIGATION S5.70 S5.71	<b>200-275</b> AERONAUTICAL RADIONAVIGATION Aeronautical mobile  <b>275-285</b> AERONAUTICAL RADIONAVIGATION Aeronautical mobile	<b>200-285</b> AERONAUTICAL RADIONAVIGATION Aeronautical mobile
<b>283.5-315</b> AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) S5.73 S5.72 S5.74	<b>285-315</b> AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) S5.73	
<b>315-325</b> AERONAUTICAL RADIONAVIGATION Maritime radionavigation (radiobeacons) S5.73 S5.72 S5.75	<b>315-325</b> MARITIME RADIONAVIGATION (radiobeacons) S5.73 Aeronautical radionavigation	<b>315-325</b> AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) S5.73
<b>325-405</b> AERONAUTICAL RADIONAVIGATION S5.72	<b>325-335</b> AERONAUTICAL RADIONAVIGATION Aeronautical mobile Maritime radionavigation (radiobeacons)	<b>325-405</b> AERONAUTICAL RADIONAVIGATION Aeronautical mobile
<b>405-415</b> RADIONAVIGATION S5.76 S5.72	<b>405-415</b> RADIONAVIGATION S5.76 Aeronautical mobile	
<b>415-435</b> MARITIME MOBILE S5.79 AERONAUTICAL RADIONAVIGATION S5.72	<b>415-495</b> MARITIME MOBILE S5.79 S5.79A Aeronautical radionavigation S5.80	
<b>435-495</b> MARITIME MOBILE S5.79 S5.79A Aeronautical radionavigation S5.72 S5.81 S5.82	S5.77 S5.78 S5.81 S5.82	

  

Allocation to services	
Thailand	Remark
<b>200 – 285</b> AERONAUTICAL RADIONAVIGATION Aeronautical mobile	
<b>285 – 315</b> AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) S5.73	
<b>315 – 325</b> AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) S5.73	
<b>325 – 405</b> AERONAUTICAL RADIONAVIGATION Aeronautical mobile	
<b>405 – 415</b> RADIONAVIGATION S5.76 Aeronautical mobile	
<b>415 – 495</b> MARITIME MOBILE S5.79 S5.79A Aeronautical radionavigation S5.81 S5.82	

Allocation to services		
Region 1	Region 2	Region 3
495-505	MOBILE (distress and calling) S5.83	
505-526.5 MARITIME MOBILE S5.79 S5.79A S5.84 AERONAUTICAL RADIONAVIGATION	505-510 MARITIME MOBILE S5.79 S5.79A S5.84 AERONAUTICAL RADIONAVIGATION S5.81	505-526.5 MARITIME MOBILE S5.79 S5.79A S5.84 AERONAUTICAL RADIONAVIGATION Aeronautical mobile Land mobile
S5.72 S5.81	510-525 MOBILE S5.79A S5.84 AERONAUTICAL RADIONAVIGATION	S5.81
526.5-1 606.5 BROADCASTING	525-535 BROADCASTING S5.86 AERONAUTICAL RADIONAVIGATION	526.5-535 BROADCASTING Mobile S5.88
S5.87 S5.87A	535-1 605 BROADCASTING	535-1 606.5 BROADCASTING
1 606.5-1 625 FIXED MARITIME MOBILE S5.90 LAND MOBILE S5.92	1 605-1 625 BROADCASTING S5.89 S5.90	1 606.5-1 800 FIXED MOBILE RADIOLOCATION RADIONAVIGATION
1 625-1 635 RADIOLOCATION S5.93	1 625-1 705 FIXED MOBILE BROADCASTING S5.89 Radiolocation S5.90	
1 635-1 800 FIXED MARITIME MOBILE S5.90 LAND MOBILE S5.92 S5.96	1 705-1 800 FIXED MOBILE RADIOLOCATION AERONAUTICAL RADIONAVIGATION	S5.91

  

Allocation to services		
Thailand	Remark	
495 – 505 MOBILE (distress and calling) S5.83		
505 – 526.5 MARITIME MOBILE S5.79 S5.79A S5.84 AERONAUTICAL RADIONAVIGATION Aeronautical mobile Land mobile		
S5.81		
526.5 – 1 606.5 BROADCASTING	Sound Broadcasting	
T2		
1 606.5 – 1 800 FIXED MOBILE RADIOLOCATION RADIONAVIGATION		

1 800-2 194 kHz			1 800 – 2 194 kHz		
Allocation to services			Allocation to services		Remark
Region 1	Region 2	Region 3	Thailand		
<b>1 800-1 810</b> RADIOLOCATION S5.93	<b>1 800-1 850</b> AMATEUR	<b>1 800-2 000</b> AMATEUR FIXED MOBILE except aeronautical mobile RADIONAVIGATION Radiolocation	<b>1 800 – 1 825</b> AMATEUR		
<b>1 810-1 850</b> AMATEUR S5.98 S5.99 S5.100 S5.101			<b>1 825 – 2 000</b> FIXED MOBILE except aeronautical mobile RADIONAVIGATION Radiolocation		
<b>1 850-2 000</b> FIXED MOBILE except aeronautical mobile	<b>1 850-2 000</b> AMATEUR FIXED MOBILE except aeronautical mobile RADIOLOCATION RADIONAVIGATION S5.102	S5.97	<b>2 000-2 065</b> FIXED MOBILE		
<b>2 000-2 025</b> FIXED MOBILE except aeronautical mobile (R) S5.92 S5.103	<b>2 000-2 065</b> FIXED MOBILE		<b>2 065-2 107</b> MARITIME MOBILE S5.106		
<b>2 025-2 045</b> FIXED MOBILE except aeronautical mobile (R) Meteorological aids S5.104 S5.92 S5.103			<b>2 107-2 170</b> FIXED MOBILE		
<b>2 045-2 160</b> FIXED MARITIME MOBILE LAND MOBILE S5.92	<b>2 065-2 107</b> MARITIME MOBILE S5.105 S5.106		<b>2 170 – 2 173.5</b> MARITIME MOBILE		
<b>2 160-2 170</b> RADIOLOCATION S5.93 S5.107	<b>2 107-2 170</b> FIXED MOBILE		<b>2 173.5 – 2 190.5</b> MOBILE (distress and calling) S5.108 S5.109 S5.110 S5.111		
<b>2 170-2 173.5</b>	MARITIME MOBILE		<b>2 190.5 – 2 194</b> MARITIME MOBILE		
<b>2 173.5-2 190.5</b>	MOBILE (distress and calling)				
<b>2 190.5-2 194</b>	MARITIME MOBILE				

Allocation to services		
Region 1	Region 2	Region 3
<b>2 194-2 300</b> FIXED MOBILE except aeronautical mobile (R) S5.92 S5.103 S5.112	<b>2 194-2 300</b> FIXED MOBILE S5.112	
<b>2 300-2 498</b> FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113 S5.103	<b>2 300-2 495</b> FIXED MOBILE BROADCASTING S5.113	<b>2 495-2 501</b> STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)
<b>2 498-2 501</b> STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)		
<b>2 501-2 502</b>	STANDARD FREQUENCY AND TIME SIGNAL Space Research	
<b>2 502-2 625</b> FIXED MOBILE except aeronautical mobile (R) S5.92 S5.103 S5.114	<b>2 502-2 505</b> STANDARD FREQUENCY AND TIME SIGNAL	<b>2 505-2 850</b> FIXED MOBILE
<b>2 625-2 650</b> MARITIME MOBILE MARITIME RADIONAVIGATION S5.92		
<b>2 650-2 850</b> FIXED MOBILE except aeronautical mobile (R) S5.92 S5.103		
<b>2 850-3 025</b>	AERONAUTICAL MOBILE (R) S5.111 S5.115	<b>2 850-3 025</b> AERONAUTICAL MOBILE (R) S5.111 S5.115
<b>3 025-3 155</b>	AERONAUTICAL MOBILE (OR)	<b>3 025-3 155</b> AERONAUTICAL MOBILE (OR)
<b>3 155-3 200</b>	FIXED MOBILE except aeronautical mobile (R) S5.116 S5.117	<b>3 155-3 200</b> FIXED MOBILE except aeronautical mobile (R) S5.116
<b>3 200-3 230</b>	FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113 S5.116	<b>3 200-3 230</b> FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113 S5.116

  

Allocation to services		
Thailand	Remark	
<b>2 194-2 300</b> FIXED MOBILE		
<b>2 300-2 495</b> FIXED MOBILE BROADCASTING S5.113		
<b>2 495-2 501</b> STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)		
<b>2 501-2 502</b> STANDARD FREQUENCY AND TIME SIGNAL Space Research		
<b>2 502-2 505</b> STANDARD FREQUENCY AND TIME SIGNAL		
<b>2 505-2 850</b> FIXED MOBILE		
<b>2 850-3 025</b> AERONAUTICAL MOBILE (R) S5.111 S5.115		
<b>3 025-3 155</b> AERONAUTICAL MOBILE (OR)		
<b>3 155-3 200</b> FIXED MOBILE except aeronautical mobile (R) S5.116		
<b>3 200-3 230</b> FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113 S5.116		

Allocation to services			Allocation to services	Allocation to services
Region 1	Region 2	Region 3	Thailand	Remark
3 230-3 400	FIXED MOBILE except aeronautical mobile BROADCASTING S5.113 S5.116 S5.118		3 230 – 3 400	FIXED MOBILE except aeronautical mobile BROADCASTING S5.113 S5.116
3 400-3 500	AERONAUTICAL MOBILE (R)		3 400 – 3 500	AERONAUTICAL MOBILE (R)
3 500-3 800	AMATEUR S5.120 FIXED MOBILE except aeronautical mobile S5.92	3 500-3 750 AMATEUR S5.120 S5.119	3 500 – 3 540	AMATEUR S5.120
3 800-3 900	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	3 750-4 000 AMATEUR S5.120 MOBILE except aeronautical mobile (R)	3 540 – 3 900	FIXED MOBILE
3 900-3 950	AERONAUTICAL MOBILE (OR) S5.123		3 900 – 3 950	AERONAUTICAL MOBILE BROADCASTING
3 950-4 000	FIXED BROADCASTING	S5.122 S5.124 S5.125	3 950-4 000	FIXED BROADCASTING
4 000-4 063	FIXED MARITIME MOBILE S5.127 S5.126		4 000 – 4 063	FIXED MARITIME MOBILE S5.127 S5.126
4 063-4 438	MARITIME MOBILE S5.79A S5.109 S5.110 S5.130 S5.131 S5.132 S5.128 S5.129		4 063 – 4 438	MARITIME MOBILE S5.79A S5.109 S5.110 S5.130 S5.131 S5.132 S5.129
4 438-4 650	FIXED MOBILE except aeronautical mobile (R)	4 438-4 650 FIXED MOBILE except aeronautical mobile	4 438 – 4 650	FIXED MOBILE except aeronautical mobile
4 650-4 700	AERONAUTICAL MOBILE (R)		4 650 – 4 700	AERONAUTICAL MOBILE (R)
4 700-4 750	AERONAUTICAL MOBILE (OR)		4 700 – 4 750	AERONAUTICAL MOBILE (OR)
4 750-4 850	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE BROADCASTING S5.113	4 750-4 850 FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113	4 750 – 4 850	FIXED BROADCASTING S5.113 Land mobile
4 850-4 995	FIXED LAND MOBILE BROADCASTING S5.113		4 850 – 4 995	FIXED LAND MOBILE BROADCASTING S5.113
4 995-5 003	STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz)		4 995 – 5 003	STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz)

## 5 003-7 350 kHz

Allocation to services		
Region 1	Region 2	Region 3
5 003-5 005	STANDARD FREQUENCY AND TIME SIGNAL Space research	
5 005-5 060	FIXED BROADCASTING S5.113	
5 060-5 250	FIXED Mobile except aeronautical mobile S5.133	
5 250-5 450	FIXED MOBILE except aeronautical mobile	
5 450-5 480	5 450-5 480 AERONAUTICAL MOBILE (OR) LAND MOBILE	5 450-5 480 AERONAUTICAL MOBILE (R) FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE
5 480-5 680	AERONAUTICAL MOBILE (R) S5.111 S5.115	
5 680-5 730	AERONAUTICAL MOBILE (OR) S5.111 S5.115	
5 730-5 900	5 730-5 900 FIXED LAND MOBILE	5 730-5 900 FIXED Mobile except aeronautical mobile (R)
5 900-5 950	BROADCASTING S5.134 S5.136	
5 950-6 200	BROADCASTING	
6 200-6 525	MARITIME MOBILE S5.109 S5.110 S5.130 S5.132 S5.137	
6 525-6 685	AERONAUTICAL MOBILE (R)	
6 685-6 765	AERONAUTICAL MOBILE (OR)	
6 765-7 000	FIXED Land mobile S5.139 S5.138	
7 000-7 100	AMATEUR S5.120 AMATEUR-SATELLITE S5.140 S5.141	
7 100-7 300	7 100-7 300 BROADCASTING AMATEUR S5.120 S5.142	7 100-7 300 BROADCASTING
7 300-7 350	BROADCASTING S5.134 S5.143	

## 5 003 – 7 350 kHz

Allocation to services	
Thailand	Remark
5 003 – 5 005	STANDARD FREQUENCY AND TIME SIGNAL Space research
5 005 – 5 060	FIXED BROADCASTING S5.113
5 060 – 5 250	FIXED Mobile except aeronautical mobile
5 250 – 5 450	FIXED MOBILE except aeronautical mobile
5 450 – 5 480	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE
5 480 – 5 680	AERONAUTICAL MOBILE (R) S5.111 S5.115
5 680 – 5 730	AERONAUTICAL MOBILE (OR) S5.111 S5.115
5 730 – 5 900	FIXED Mobile except aeronautical mobile (R)
5 900 – 5 950	BROADCASTING S5.134
5 950 – 6 200	BROADCASTING
6 200 – 6 525	MARITIME MOBILE S5.109 S5.110 S5.130 S5.132 S5.137
6 525 – 6 685	AERONAUTICAL MOBILE (R)
6 685 – 6 765	AERONAUTICAL MOBILE (OR)
6 765 – 7 000	FIXED Land mobile S5.138
7 000 – 7 100	AMATEUR S5.120 AMATEUR-SATELLITE
7 100 – 7 300	BROADCASTING
7 300 – 7 350	BROADCASTING S5.134

Allocation to services		
Region 1	Region 2	Region 3
<b>7 350-13 360 kHz</b>		
<b>7 350-8 100</b>	FIXED Land mobile S5.144	
<b>8 100-8 195</b>	FIXED MARITIME MOBILE	
<b>8 195-8 815</b>	MARITIME MOBILE S5.109 S5.110 S5.132 S5.145 S5.111	
<b>8 815-8 965</b>	AERONAUTICAL MOBILE (R)	
<b>8 965-9 040</b>	AERONAUTICAL MOBILE (OR)	
<b>9 040-9 400</b>	FIXED	
<b>9 400-9 500</b>	BROADCASTING S5.134 S5.146	
<b>9 500-9 900</b>	BROADCASTING S5.147	
<b>9 900-9 995</b>	FIXED	
<b>9 995-10 003</b>	STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) S5.111	
<b>10 003-10 005</b>	STANDARD FREQUENCY AND TIME SIGNAL Space research S5.111	
<b>10 005-10 100</b>	AERONAUTICAL MOBILE (R) S5.111	
<b>10 100-10 150</b>	FIXED Amateur S5.120	
<b>10 150-11 175</b>	FIXED Mobile except aeronautical mobile (R)	
<b>11 175-11 275</b>	AERONAUTICAL MOBILE (OR)	
<b>11 275-11 400</b>	AERONAUTICAL MOBILE (R)	
<b>11 400-11 600</b>	FIXED	
<b>11 600-11 650</b>	BROADCASTING S5.134 S5.146	
<b>11 650-12 050</b>	BROADCASTING S5.147	
<b>12 050-12 100</b>	BROADCASTING S5.134 S5.146	
<b>12 100-12 230</b>	FIXED	
<b>12 230-13 200</b>	MARITIME MOBILE S5.109 S5.110 S5.132 S5.145	
<b>13 200-13 260</b>	AERONAUTICAL MOBILE (OR)	
<b>13 260-13 360</b>	AERONAUTICAL MOBILE (R)	
<b>7 350 – 13 360 kHz</b>		
Allocation to services		
Thailand		Remark
<b>7 350 – 8 100</b>	FIXED Land mobile S5.144	
<b>8 100 – 8 195</b>	FIXED MARITIME MOBILE	
<b>8 195 – 8 815</b>	MARITIME MOBILE S5.109 S5.110 S5.132 S5.145 S5.111	
<b>8 815 – 8 965</b>	AERONAUTICAL MOBILE (R)	
<b>8 965 – 9 040</b>	AERONAUTICAL MOBILE (OR)	
<b>9 040 – 9 400</b>	FIXED	
<b>9 400 – 9 500</b>	BROADCASTING S5.134	
<b>9 500 – 9 900</b>	BROADCASTING S5.147	
<b>9 900 – 9 995</b>	FIXED	
<b>9 995 – 10 003</b>	STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) S5.111	
<b>10 003 – 10 005</b>	STANDARD FREQUENCY AND TIME SIGNAL Space research S5.111	
<b>10 005 – 10 100</b>	AERONAUTICAL MOBILE (R) S5.111	
<b>10 100 – 10 150</b>	FIXED Amateur S5.120	
<b>10 150 – 11 175</b>	FIXED Mobile except aeronautical mobile (R)	
<b>11 175 – 11 275</b>	AERONAUTICAL MOBILE (OR)	
<b>11 275 – 11 400</b>	AERONAUTICAL MOBILE (R)	
<b>11 400 – 11 600</b>	FIXED	
<b>11 600 – 11 650</b>	BROADCASTING S5.134	
<b>11 650 – 12 050</b>	BROADCASTING S5.147	
<b>12 050 – 12 100</b>	BROADCASTING S5.134	
<b>12 100 – 12 230</b>	FIXED	
<b>12 230 – 13 200</b>	MARITIME MOBILE S5.109 S5.110 S5.132 S5.145	
<b>13 200 – 13 260</b>	AERONAUTICAL MOBILE (OR)	
<b>13 260 – 13 360</b>	AERONAUTICAL MOBILE (R)	

## 13 360-18 030 kHz

Allocation to services		
Region 1	Region 2	Region 3
13 360-13 410	FIXED RADIO ASTRONOMY S5.149	
13 410-13 570	FIXED Mobile except aeronautical mobile (R) S5.150	
13 570-13 600	BROADCASTING S5.134 S5.151	
13 600-13 800	BROADCASTING	
13 800-13 870	BROADCASTING S5.134 S5.151	
13 870-14 000	FIXED Mobile except aeronautical mobile (R)	
14 000-14 250	AMATEUR S5.120 AMATEUR-SATELLITE	
14 250-14 350	AMATEUR S5.120 S5.152	
14 350-14 990	FIXED Mobile except aeronautical mobile (R)	
14 990-15 005	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) S5.111	
15 005-15 010	STANDARD FREQUENCY AND TIME SIGNAL Space research	
15 010-15 100	AERONAUTICAL MOBILE (OR)	
15 100-15 600	BROADCASTING	
15 600-15 800	BROADCASTING S5.134 S5.146	
15 800-16 360	FIXED S5.153	
16 360-17 410	MARITIME MOBILE S5.109 S5.110 S5.132 S5.145	
17 410-17 480	FIXED	
17 480-17 550	BROADCASTING S5.134 S5.146	
17 550-17 900	BROADCASTING	
17 900-17 970	AERONAUTICAL MOBILE (R)	
17 970-18 030	AERONAUTICAL MOBILE (OR)	

## 13 360 – 18 030 kHz

Allocation to services		Remark
Thailand		
13 360 – 13 410	FIXED RADIO ASTRONOMY S5.149	
13 410 – 13 570	FIXED Mobile except aeronautical mobile (R) S5.150	
13 570 – 13 600	BROADCASTING S5.134	
13 600 – 13 800	BROADCASTING	
13 800 – 13 870	BROADCASTING S5.134	
13 870 – 14 000	FIXED Mobile except aeronautical mobile (R)	
14 000 – 14 250	AMATEUR S5.120 AMATEUR-SATELLITE	
14 250 – 14 350	AMATEUR S5.120	
14 350 – 14 990	FIXED Mobile except aeronautical mobile (R)	
14 990 – 15 005	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) S5.111	
15 005 – 15 010	STANDARD FREQUENCY AND TIME SIGNAL Space research	
15 010 – 15 100	AERONAUTICAL MOBILE (OR)	
15 100 – 15 600	BROADCASTING	
15 600 – 15 800	BROADCASTING S5.134	
15 800 – 16 360	FIXED S5.153	
16 360 – 17 410	MARITIME MOBILE S5.109 S5.110 S5.132 S5.145	
17 410 – 17 480	FIXED	
17 480 – 17 550	BROADCASTING S5.134	
17 550 – 17 900	BROADCASTING	
17 900 – 17 970	AERONAUTICAL MOBILE (R)	
17 970 – 18 030	AERONAUTICAL MOBILE (OR)	

18 030-23 350 kHz		
Allocation to services		
Region 1	Region 2	Region 3
18 030-18 052	FIXED	
18 052-18 068	FIXED Space research	
18 068-18 168	AMATEUR S5.120 AMATEUR-SATELLITE S5.154	
18 168-18 780	FIXED Mobile except aeronautical mobile	
18 780-18 900	MARITIME MOBILE	
18 900-19 020	BROADCASTING S5.134 S5.146	
19 020-19 680	FIXED	
19 680-19 800	MARITIME MOBILE S5.132	
19 800-19 990	FIXED	
19 990-19 995	STANDARD FREQUENCY AND TIME SIGNAL Space research S5.111	
19 995-20 010	STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) S5.111	
20 010-21 000	FIXED Mobile	
21 000-21 450	AMATEUR S5.120 AMATEUR-SATELLITE	
21 450-21 850	BROADCASTING	
21 850-21 870	FIXED S5.155A S5.155	
21 870-21 924	FIXED S5.155B	
21 924-22 000	AERONAUTICAL MOBILE (R)	
22 000-22 855	MARITIME MOBILE S5.132 S5.156	
22 855-23 000	FIXED S5.156	
23 000-23 200	FIXED Mobile except aeronautical mobile (R) S5.156	
23 200-23 350	FIXED S5.156A AERONAUTICAL MOBILE (OR)	

18 030 – 23 350 kHz		
Allocation to services		
Thailand	Remark	
18 030 – 18 052	FIXED	
18 052 – 18 068	FIXED Space research	
18 068 – 18 168	AMATEUR S5.120 AMATEUR-SATELLITE	
18 168 – 18 780	FIXED Mobile except aeronautical mobile	
18 780 – 18 900	MARITIME MOBILE	
18 900 – 19 020	BROADCASTING S5.134	
19 020 – 19 680	FIXED	
19 680 – 19 800	MARITIME MOBILE S5.132	
19 800 – 19 990	FIXED	
19 990 – 19 995	STANDARD FREQUENCY AND TIME SIGNAL Space research S5.111	
19 995 – 20 010	STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) S5.111	
20 010 – 21 000	FIXED Mobile	
21 000 – 21 450	AMATEUR S5.120 AMATEUR-SATELLITE	
21 450 – 21 850	BROADCASTING	
21 850 – 21 870	FIXED	
21 870 – 21 924	FIXED S5.155B	
21 924 – 22 000	AERONAUTICAL MOBILE (R)	
22 000 – 22 855	MARITIME MOBILE S5.132	
22 855 – 23 000	FIXED	
23 000 – 23 200	FIXED Mobile except aeronautical mobile (R)	
23 200 – 23 350	FIXED S5.156A AERONAUTICAL MOBILE (OR)	

Allocation to services			Allocation to services	
Region 1	Region 2	Region 3	Thailand	Remark
23 350-24 000	FIXED MOBILE except aeronautical mobile S5.157		23 350 – 24 000	FIXED MOBILE except aeronautical mobile S5.157
24 000-24 890	FIXED LAND MOBILE		24 000 – 24 890	FIXED LAND MOBILE
24 890-24 990	AMATEUR S5.120 AMATEUR-SATELLITE		24 890 – 24 990	AMATEUR S5.120 AMATEUR-SATELLITE
24 990-25 005	STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)		24 990 – 25 005	STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)
25 005-25 010	STANDARD FREQUENCY AND TIME SIGNAL Space research		25 005 – 25 010	STANDARD FREQUENCY AND TIME SIGNAL Space research
25 010-25 070	FIXED MOBILE except aeronautical mobile		25 010 – 25 070	FIXED MOBILE except aeronautical mobile
25 070-25 210	MARITIME MOBILE		25 070 – 25 210	MARITIME MOBILE
25 210-25 550	FIXED MOBILE except aeronautical mobile		25 210 – 25 550	FIXED MOBILE except aeronautical mobile
25 550-25 670	RADIO ASTRONOMY S5.149		25 550 – 25 670	RADIO ASTRONOMY S5.149
25 670-26 100	BROADCASTING		25 670 – 26 100	BROADCASTING
26 100-26 175	MARITIME MOBILE S5.132		26 100 – 26 175	MARITIME MOBILE S5.132
26 175-27 500	FIXED MOBILE except aeronautical mobile S5.150		26 175 – 27 500	FIXED MOBILE except aeronautical mobile S5.150 T4

27.5-47 MHz			27.5 - 47 MHz	
Allocation to services			Allocation to services	
Region 1	Region 2	Region 3	Thailand	Remark
27.5-28	METEOROLOGICAL AIDS FIXED MOBILE		27.5 - 28 METEOROLOGICAL AIDS FIXED MOBILE	
28-29.7	AMATEUR AMATEUR-SATELLITE		28 - 29.7 AMATEUR AMATEUR-SATELLITE	
29.7-30.005	FIXED MOBILE		29.7 - 30.005 FIXED MOBILE	
30.005-30.01	SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH		30.005 - 30.01 SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH	
30.01-37.5	FIXED MOBILE		30.01 - 37.5 FIXED MOBILE	
37.5-38.25	FIXED MOBILE Radio astronomy S5.149		37.5 - 38.25 FIXED MOBILE Radio astronomy S5.149	
38.25-39.986	FIXED MOBILE		38.25 - 39.986 FIXED MOBILE	
39.986-40.02	FIXED MOBILE Space research		39.986 - 40.02 FIXED MOBILE Space research	
40.02-40.98	FIXED MOBILE S5.150		40.02 - 40.98 FIXED MOBILE S5.150	
40.98-41.015	FIXED MOBILE Space research S5.160 S5.161		40.98 - 41.015 FIXED MOBILE Space research	
41.015-44	FIXED MOBILE S5.160 S5.161		41.015 - 47 FIXED MOBILE	
44-47	FIXED MOBILE S5.162 S5.162A			

47-75.2 MHz			47 - 75.2 MHz		
Allocation to services			Allocation to services		Remark
Region 1	Region 2	Region 3	Thailand		
47-68 BROADCASTING	47-50 FIXED MOBILE	47-50 FIXED MOBILE BROADCASTING	47 - 68	FIXED MOBILE BROADCASTING	Television Broadcasting
	50-54 AMATEUR S5.166 S5.167 S5.168 S5.170				
	54-68 BROADCASTING Fixed Mobile S5.172	54-68 FIXED MOBILE BROADCASTING			
68-74.8 FIXED MOBILE except aeronautical mobile	68-72 BROADCASTING Fixed Mobile S5.173	68-74.8 FIXED MOBILE	68-74.8		
	72-73 FIXED MOBILE				
	73-74.6 RADIO ASTRONOMY S5.178				
	74.6-74.8 FIXED MOBILE	S5.149 S5.176 S5.179			
74.8-75.2	AERONAUTICAL RADIONAVIGATION S5.180 S5.181		S5.149		
			74.8 - 75.2	AERONAUTICAL RADIONAVIGATION S5.180	75 MHz (ILS marker beacons)

Allocation to services			75.2 - 137.175 MHz	75.2 - 137.175 MHz
Region 1	Region 2	Region 3	Thailand	Remark
75.2-87.5 FIXED MOBILE except aeronautical mobile S5.175 S5.179 S5.184 S5.187	75.2-75.4 FIXED MOBILE S5.179	75.4-76 FIXED MOBILE	75.2 - 75.4 FIXED MOBILE	
		76-88 BROADCASTING Fixed Mobile	75.4 - 87 FIXED MOBILE	
		S5.149 S5.182 S5.183 S5.188	S5.149 T4	
87.5-100 BROADCASTING S5.190	S5.185	87-100 FIXED MOBILE BROADCASTING	87 - 108 BROADCASTING Fixed Mobile	Sound Broadcasting
		88-100 BROADCASTING		
100-108 BROADCASTING S5.192 S5.194			108 - 117.975 AERONAUTICAL RADIONAVIGATION	
108-117.975 AERONAUTICAL RADIONAVIGATION S5.197			117.975 - 137 AERONAUTICAL MOBILE (R) S5.111 S5.198 S5.199 S5.200 S5.201 S5.202 S5.203 S5.203A S5.203B	
117.975-137 AERONAUTICAL MOBILE (R) S5.111 S5.198 S5.199 S5.200 S5.201 S5.202 S5.203 S5.203A S5.203B			137 - 137.025 SPACE OPERATION (space-to-Earth) FIXED 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) 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) FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile (R) SPACE RESEARCH (space-to-Earth) Mobile-satellite (space-to-Earth) S5.208A S5.209 S5.204 S5.208	

137.175-148 MHz			137.175 – 148 MHz		
Allocation to services			Allocation to services		Remark
Region 1	Region 2	Region 3	Thailand		
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) FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (space-to-Earth) S5.208A S5.209 SPACE RESEARCH (space-to-Earth) S5.204 S5.208	
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) FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile (R) SPACE RESEARCH (space-to-Earth) Mobile-satellite (space-to-Earth) S5.208A S5.209 S5.204 S5.208	
138-143.6	138-143.6	138-143.6	138-143.6		
AERONAUTICAL MOBILE (OR) S5.210 S5.211 S5.212 S5.214	FIXED MOBILE RADIOLOCATION Space research (space-to-Earth)	FIXED MOBILE Space research (space-to-Earth) S5.207 S5.213	FIXED MOBILE Space research (space-to-Earth)		
143.6-143.65	143.6-143.65	143.6-143.65	143.6-143.65		
AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to-Earth) S5.211 S5.212 S5.214	FIXED MOBILE RADIOLOCATION SPACE RESEARCH (space-to-Earth)	FIXED MOBILE SPACE RESEARCH (space-to-Earth) S5.207 S5.213	FIXED MOBILE SPACE RESEARCH (space-to-Earth)		
143.65-144	143.65-144	143.65-144	143.65-144		
AERONAUTICAL MOBILE (OR) S5.210 S5.211 S5.212 S5.214	FIXED MOBILE RADIOLOCATION Space research (space-to-Earth)	FIXED MOBILE Space research (space-to-Earth) S5.207 S5.213	FIXED MOBILE Space research (space-to-Earth)		
144-146	AMATEUR S5.120 AMATEUR-SATELLITE S5.216		144 – 146	AMATEUR S5.120 AMATEUR-SATELLITE T6	
146-148	146-148	146-148	146 – 148	FIXED MOBILE	
FIXED MOBILE except aeronautical mobile (R)	AMATEUR	AMATEUR FIXED MOBILE S5.217			

148-223 MHz			148 - 230 MHz		
Allocation to services			Allocation to services		Remark
Region 1	Region 2	Region 3	Thailand		
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 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.209 S5.218 S5.219 S5.221		
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) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.224B S5.220 S5.222 S5.223		
150.05-153 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149	150.05-156.7625 FIXED MOBILE		150.05- 156.7625 FIXED MOBILE		
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			
156.7625-156.8375 MARITIME MOBILE (distress and calling) S5.111 S5.226			156.7625-156.8375 MARITIME MOBILE (distress and calling) S5.111 S5.226		
156.8375-174 FIXED MOBILE except aeronautical mobile S5.226 S5.229	156.8375-174 FIXED MOBILE	S5.226 S5.230 S5.231 S5.232	156.8375 - 174 FIXED MOBILE		
174-223 BROADCASTING	174-216 BROADCASTING Fixed Mobile S5.234	174-223 FIXED MOBILE BROADCASTING	174 - 230 BROADCASTING Fixed Mobile	Television Broadcasting	
	216-220 FIXED MARITIME MOBILE Radiolocation S5.241 S5.242	S5.233 S5.238 S5.240 S5.245			
	S5.235 S5.237 S5.243				

## 220-335.4 MHz

Allocation to services		
Region 1	Region 2	Region 3
<b>223-230</b> BROADCASTING Fixed Mobile S5.243 S5.246 S5.247	<b>220-225</b> AMATEUR FIXED MOBILE Radiolocation S5.241	<b>223-230</b> FIXED MOBILE BROADCASTING AERONAUTICAL RADIONAVIGATION Radiolocation S5.250
<b>230-235</b> FIXED MOBILE S5.247 S5.251 S5.252	<b>225-235</b> FIXED MOBILE	<b>230-235</b> FIXED MOBILE AERONAUTICAL RADIONAVIGATION S5.250
<b>235-267</b>	FIXED MOBILE S5.111 S5.199 S5.252 S5.254 S5.256	
<b>267-272</b>	FIXED MOBILE Space operation (space-to-Earth) S5.254 S5.257	
<b>272-273</b>	SPACE OPERATION (space-to-Earth) FIXED MOBILE S5.254	
<b>273-312</b>	FIXED MOBILE S5.254	
<b>312-315</b>	FIXED MOBILE Mobile-satellite (Earth-to-space) S5.254 S5.255	
<b>315-322</b>	FIXED MOBILE S5.254	
<b>322-328.6</b>	FIXED MOBILE RADIO ASTRONOMY S5.149	
<b>328.6-335.4</b>	AERONAUTICAL RADIONAVIGATION S5.258 S5.259	

## 230 – 335.4 MHz

Allocation to services	
Thailand	Remark
<b>230- 235</b> FIXED MOBILE AERONAUTICAL RADIONAVIGATION	
<b>235 – 267</b> FIXED MOBILE S5.111 S5.199 S5.254 S5.256 T4	
<b>267- 272</b> FIXED MOBILE Space operation (space-to-Earth) S5.254 S5.257	
<b>272- 273</b> SPACE OPERATION (space-to-Earth) FIXED MOBILE S5.254	
<b>273 - 312</b> FIXED T7 MOBILE T8 S5.254	
<b>312 – 315</b> FIXED T7 MOBILE Mobile-satellite (Earth-to-space) S5.254 S5.255	
<b>315 – 322</b> FIXED T7 MOBILE S5.254	
<b>322- 328.6</b> FIXED MOBILE RADIO ASTRONOMY S5.149	
<b>328.6 – 335.4</b> AERONAUTICAL RADIONAVIGATION S5.258	

335.4-410 MHz			335.4 - 406 MHz		
Allocation to services			Allocation to services		Remark
Region 1	Region 2	Region 3	Thailand		
335.4-387	FIXED MOBILE S5.254		335.4 - 387	FIXED MOBILE S5.254 T9	
387-390	FIXED MOBILE Mobile-satellite (space-to-Earth) S5.208A S5.254 S5.255		387- 390	FIXED MOBILE Mobile-satellite (space-to-Earth) S5.208A S5.254 S5.255 T9	
390-399.9	FIXED MOBILE S5.254		390 - 399.9	FIXED MOBILE S5.254 T9	
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) S5.209 S5.224A RADIONAVIGATION-SATELLITE S5.222 S5.224B S5.260 S5.220	
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 (400.1 MHz) S5.261	
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 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) S5.264	
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	METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) 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		402 - 403	METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile	
403-406	METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile		403 - 406	METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile	
406-406.1	MOBILE-SATELLITE (Earth-to-space) S5.266 S5.267				
406.1-410	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149				

## 410-470 MHz

Allocation to services		
Region 1	Region 2	Region 3
410-420	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) S5.268	
420-430	FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271	
430-440	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	RADIOLOCATION Amateur S5.271 S5.276 S5.277 S5.278 S5.279 S5.281 S5.282
440-450	FIXED MOBILE except aeronautical mobile Radiolocation S5.269 S5.270 S5.271 S5.284 S5.285 S5.286	
450-455	FIXED MOBILE S5.209 S5.271 S5.286 S5.286A S5.286B S5.286C S5.286D S5.286E	
455-456	455-456 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.286A S5.286B S5.286C S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E	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	
459-460	459-460 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) S5.286A S5.286B S5.286C S5.209 S5.271 S5.286A S5.286B S5.286C S5.286E	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	

## 406 - 470 MHz

Allocation to services		Remark
Thailand		
406 - 406.1	MOBILE-SATELLITE (Earth-to-space) S5.266 S5.267	Emergency position-indicating radio Beacons (EPIRB)
406.1 - 410	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149	
410 - 420	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) S5.268	
420 - 430	FIXED MOBILE except aeronautical mobile T10 Radiolocation	
430- 435	FIXED MOBILE except aeronautical mobile T10 RADIOLOCATION S5.276	
435- 438	FIXED RADIOLOCATION Amateur S5.276 S5.282 T11	
438- 440	FIXED MOBILE except aeronautical mobile RADIOLOCATION S5.276	
440 - 450	FIXED MOBILE except aeronautical mobile Radiolocation S5.286	
450 - 455	FIXED MOBILE S5.209 S5.286 S5.286A	
455- 456	FIXED MOBILE S5.209 S5.286A	
456 - 459	FIXED MOBILE S5.287	
459- 460	FIXED MOBILE S5.209 S5.286A	
460 - 470	FIXED T12 MOBILE Meteorological-satellite (space-to-Earth) S5.287 S5.289	

470-890 MHz			470 - 890 MHz		
Allocation to services			Allocation to services		Remark
Region 1	Region 2	Region 3	Thailand		
<b>470-790</b> BROADCASTING	<b>470-512</b> BROADCASTING Fixed Mobile S5.292 S5.293	<b>470-585</b> FIXED MOBILE BROADCASTING S5.291 S5.298	<b>470 - 510</b> FIXED MOBILE T10 T13		
	<b>512-608</b> BROADCASTING S5.297	<b>585-610</b> FIXED MOBILE BROADCASTING RADIONAVIGATION S5.149 S5.305 S5.306 S5.307	<b>510 - 790</b> BROADCASTING Fixed Mobile S5.149 S5.306 S5.311	Television Broadcasting	
	<b>608-614</b> RADIO ASTRONOMY Mobile-satellite except aeronautical mobile-satellite (Earth-to-space)	<b>610-890</b> FIXED MOBILE BROADCASTING S5.293 S5.309 S5.311	<b>790- 890</b> FIXED MOBILE BROADCASTING S5.320		
	<b>790-862</b> FIXED BROADCASTING S5.312 S5.314 S5.315 S5.316 S5.319 S5.321	<b>806-890</b> FIXED MOBILE BROADCASTING S5.317 S5.318			
	<b>862-890</b> FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 S5.319 S5.323	<b>S5.149 S5.305 S5.306 S5.307</b> S5.311 S5.320			

Allocation to services			Allocation to services	Remark
Region 1	Region 2	Region 3	Thailand	
<b>890-942</b> FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 Radiolocation	<b>890-902</b> FIXED MOBILE except aeronautical mobile Radiolocation S5.318 S5.325	<b>890-942</b> FIXED MOBILE BROADCASTING Radiolocation		
	<b>902-928</b> FIXED Amateur Mobile except aeronautical mobile Radiolocation S5.150 S5.325 S5.326			
	<b>928-942</b> FIXED MOBILE except aeronautical mobile Radiolocation S5.325	<b>S5.327</b>		
<b>S5.323</b>				
<b>942-960</b> FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 S5.323	<b>942-960</b> FIXED MOBILE	<b>942-960</b> FIXED MOBILE BROADCASTING S5.320		
			<b>S5.320</b>	
<b>960-1 215</b>	AERONAUTICAL RADIONAVIGATION S5.328			
<b>1 215-1 240</b>	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) S5.329 SPACE RESEARCH (active) S5.330 S5.331 S5.332			GPS (L2-1227.6 MHz)
<b>1 240-1 260</b>	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) S5.329 SPACE RESEARCH (active) Amateur S5.330 S5.331 S5.332 S5.334 S5.335			
<b>1 260-1 300</b>	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Amateur S5.282 S5.330 S5.331 S5.332 S5.334 S5.335			
<b>1 300-1 350</b>	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.149			
			<b>1 260 – 1 300</b>	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Amateur S5.282 S5.332
			<b>1 300 – 1 350</b>	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.149

### National Footnotes

**T1** The band 59.5 - 60.5 kHz is designated for the standard frequency and time signal service.

**T2** The band 526.5 - 1606.5 kHz is allocated to the broadcasting (sound) service, in accordance with the Plan for MF broadcasting in Regions 1 and 3 and LF broadcasting in Region 1, Geneva, 1975 (GE75).

**T3** In the band 3500 - 3540 kHz, existing stations in the fixed and mobile services may continue to operate until 31 December 2001.

**T4** The bands 26.960 - 27.410 MHz, 77.9875 - 79 MHz and 244.9875 - 246 MHz are designated as Citizens Band (CB). The bands 79 - 79.9875 MHz and 246 - 247 MHz are reserved for similar purposes.

**T5** In the band 47 - 68 MHz, stations in the fixed and mobile services shall not cause harmful interference to, or claim protection from, stations in the broadcasting service.

**T6** Transmissions from stations in the amateur-satellite service are limited to the band 145.8 - 146 MHz.

**T7** The band 300 - 320.1 MHz in the fixed service is designated for studio-transmitter link of sound broadcasting programmes.

**T8** The band 279 - 283 MHz in the mobile service is designated for base-to-subscriber transmissions of radio-paging systems.

**T9** The band 380 - 399.9 MHz in the mobile service is designated for trunked mobile radio systems. Existing stations in the fixed and mobile services (other than trunked mobile radio systems) may continue to operate until 31 December 2001.

**T10** The bands 421.8 - 422.95 MHz and 433.8 - 434.95 MHz, 484 - 489 MHz and 494 - 499 MHz, 806 - 824 MHz and 851 - 869 MHz in the mobile service are designated for trunked mobile radio systems.

**T11** In the band 435 - 438 MHz, the amateur-satellite service (space-to-Earth) is allowed to operate subject to not causing harmful interference to other services operating in accordance with the Table of Frequency Allocations.

**T12** The frequencies 461.25 MHz and 463 MHz are designated for use by reference stations of the Differential Global Positioning System (DGPS).

**T13** The bands 479 - 483.5 MHz and 489 - 493.5 MHz, 824 - 849 MHz and 869 - 894 MHz, 897.5 - 915 MHz and 942.5 - 960 MHz, 1445 - 1453 MHz and 1493 - 1501 MHz, 1710 - 1785 MHz and 1805 - 1880 MHz, 1880 - 1900 MHz and 1960 - 1980 MHz in the mobile service are designated for cellular systems.

**T14** The band 917 - 923 MHz in the mobile service is designated for subscriber-to-base transmissions of radio-paging systems .

## 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 \_\_\_\_\_

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? \_\_\_\_\_  
1992
- 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 "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.

Normally, the new users have to pay the existing users for the cost resulting from the planned redeployment.

6. What is the total cost of national spectrum management functions performed by your Government (expressed in Swiss francs)? SF 400,000

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

Government 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.

Please see attach document (MOTC Announcement on Frequency Fee Imposed upon the User of Radio Frequency)

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

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

≈ 100,000

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

- What DBMS system do you use? \_\_\_\_\_

- 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?  
\_\_\_\_\_  
\_\_\_\_\_

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?  
\_\_\_\_\_  
\_\_\_\_\_

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?  
\_\_\_\_\_  
\_\_\_\_\_

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?  
\_\_\_\_\_  
\_\_\_\_\_

12. Do you perform radio monitoring? YES  NO

- number of fixed monitoring stations 14

- facilities available at fixed monitoring stations

-- monitoring up to 1000 MHz

-- direction finding up to 1000 MHz

- number of mobile monitoring stations \_\_\_\_\_ 14
- facilities available at mobile monitoring stations
  - monitoring up to 1000 MHz
  - direction finding up to 1000 MHz

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

---

---

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

Type of computers Minicom (Host) / pc / VT100 Terminals

Operating system(s) UNIX / DOS

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? 190

16. Number of support staff in national spectrum management? 170

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

*Please see attached documents.*

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

- a)  National Spectrum Management, version 1995 ?
- b)  Spectrum Monitoring<sup>1</sup>, 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<sup>2</sup>?
- f) Windows Basic Automated Spectrum Management System (WinBASMS) Software Version 1997, Manual Version 1997

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

---

---

*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](mailto:devsg1@itu.int)*

**THANK YOU FOR YOUR COOPERATION**

---

<sup>1</sup> 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.

<sup>2</sup> 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.



**Ministry of Transport and Communications  
Announcement  
on  
Frequency Fee Imposed upon the User of Radio Frequency**

---

**POST AND TELEGRAPH DEPARTMENT**  
87 Phaholyothin 8 Road, Bangkok 10400, Thailand  
Tel: (662) 2710151-60 Fax: (662) 2713514  
<http://www.ptd.go.th>

---

(Translation)

**Ministry of Transport and Communications Announcement  
on  
Frequency Fee Imposed upon the User of Radio Frequency**

---

By virtue of the authority conferred in Section **11bis.** of the Radio-communications Act B.E. 2498, as amended by the Radiocommunications Act (No.3) B.E.2535, the Minister of Transport and Communications hereby sets up the frequency fee imposed upon the user of radio frequency as follows:

**1. In this announcement:**

“Fixed Service” means a radiocommunication service between terrestrial fixed radiocommunication stations;

“Broadcasting Service” means a radiocommunication service intended to transmit sound or television signals for direct reception by the general public;

“Subscription Television Service” means a radiocommunication service intended to transmit television signals for members at cost;

“Land Mobile Service” means a radiocommunication service between base station and land mobile radiocommunication stations or between land mobile radiocommunication stations;

“Mobile-Satellite Service” means a radiocommunication service intended to communicate between fixed earth station and mobile earth stations or between mobile earth stations, via one or more satellites;

“Fixed-Satellite Service” means a radiocommunication service between earth stations at given positions, via one or more satellites;

“Public Radiocommunication Network” means a radiocommunication network using radio frequency for providing services to the general public;

“Specific Radiocommunication Network” means a radiocommunication network using radio frequency for its own communication purposes.

**2. Those who have been assigned radio frequency for providing radiocommunication services by using public or specific radiocommunication network, or for using in its own specific radiocommunication network, in the following categories of radiocommunication service shall annually pay, as the case may be, frequency fee at the rates and procedures specified in 3. :**

- 2.1 Fixed Service,**
- 2.2 Broadcasting Service,**
- 2.3 Subscription Television Service,**

- 2.4** Land Mobile Service,
- 2.5** Mobile-Satellite Service,
- 2.6** Fixed-Satellite Service.

**3.** The following formula shall be used for calculating rates of frequency fee for the utilization of radio frequency :

$$\text{FF} = (\text{BW} \times \text{FC} \times \text{AC}) + \text{MC}$$

- FF** : Frequency Fee at the unit of baht per year,
- BW** : Bandwidth at the unit of kilohertz,
- FC** : Frequency Constant, details as shown in Table 1 annexed to this announcement,
- AC** : Application Constant, details as shown in Table 2 annexed to this announcement,
- MC** : Minimum Charge at the unit of baht as details shown in Table 3 annexed to this announcement.

**4.** In case where it is considered inappropriate to apply the above-mentioned formula for calculating the rates of frequency fee for the utilization of radio frequency in any particular bands or services, the Post and Telegraph Department may set up other methods to determine the frequency fee. In such case, the Post and Telegraph Department shall specify terms and conditions of such method and submit to the Ministry of Transport and Communications for approval prior to implementation.

**5.** The due date of annual payment of frequency fee shall be a date of complete one-year cycle counted from the date of frequency assignment or, in case where the radio frequency has already been assigned to the users prior to the effective date of this announcement, counted from the effective date.

**6.** Any user of radio frequency subject to payment of frequency fee as indicated in this announcement shall submit the form of frequency fee payment as specified by the Post and Telegraph Department, and pay the frequency fee as prescribed in the following payment procedures:

- 6.1** On the first payment of frequency fee, the user shall submit the form and pay the frequency fee within 60 days as from the date of receiving the letter of notice from the Post and Telegraph Department informing the user to submit the form and made appropriate payment;

**6.2** On the next annual payments of frequency fee, the user shall submit the form and pay the frequency fee before the due date.

**6.3** In case the fee is not paid, or the payment has been made after the due date prescribed in **6.1** and **6.2**, the user shall pay additional frequency fee at the rate of one per cent of the fee to be paid per day, counted from the day following the due date, up to the day the payment is being made. If the payment has not been completely made within one year, the Post and Telegraph Department shall cancel such frequency assignment.

**7.** If the Post and Telegraph Department has found that the amount of frequency fee paid by the user is not correct; in case of overpayment, the user can apply in writing to the Post and Telegraph Department for refund; or in case of incomplete payment, the Post and Telegraph Department shall notify in writing to the user to pay the remaining amount within 15 days from the date of receiving the letter of notice. In case the latter fails to pay the remaining amount within the due date, the user shall be additionally charged at the rate of one per cent per day, counted from the due date up to the date for which the above-mentioned remaining payment is being made.

**8.** This announcement shall be effective after ninety (90) days of its publication in the Government Gazette.

Announced on the 29<sup>th</sup> Day of January B.E.2539.\*

Mr. Sombut Uthaisang  
Deputy Minister  
for Minister of Transport and Communications

---

\* Published in the Government Gazette, Volume 113, Part 14(d), dated 15 February B.E. 2539. Effective as from the 16<sup>th</sup> Day of May B.E.2539.

**Tables annexed to the Ministry of Transport and Communications Announcement  
on  
Frequency Fee Imposed upon the User of Radio Frequency**

**Table 1 Frequency Constant**

Radio Frequency (MHz)	Constant
0.01 up to less than 1,000	10
1,000 up to less than 3,000	5
3,000 up to less than 10,000	0.5
10,000 up to less than 20,000	0.05
20,000 and above	0.001

**Table 2 Application Constant**

Application	Constant
Public Radiocommunication Network	5
Specific Radiocommunication Network	10

**Table 3 Minimum Charge**

Public Radiocommunication Network	Charge (baht/frequency/year)
Paging	50,000
Sound Broadcasting	50,000
Television Broadcasting	100,000
Subscription Television	100,000

## PTD ORGANIZATION CHART



