

Norway

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**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 NORWAY

Focal point STEIN GUDBJORGSRUD

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 X NO __

-Last date this law was changed or modified? 1998

-Are any actions planned to change this law? YES X NO __

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

NO SPECIFIC PROBLEMS

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

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

TIME CONSUMING. LIMITED ADMINISTRATIVE RESOURCES

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

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

NO

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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.

STRATEGIES VARIES. USUALLY RE-FARMING OR OUT-PHASING OF EQUIPMENT. ALL LICENSES ARE TIME LIMITED!

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

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

FEES.

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.

COST ORIENTATION MAINLY.

SOME BANDWIDTH CONSIDERATIONS.

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

-What is the approximate size of your database (expressed in number of records)? 25.000

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

-What DBMS system do you use SELF-DEVELOPED

-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?

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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?

LARGE AMMOUNT OF DATA NECESSARY.

VERY TIME CONSUMING.

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?

12. Do you perform radio monitoring? YES NO

-number of fixed monitoring stations 1

-facilities available at fixed monitoring stations

--monitoring up to 30 MHz

--direction finding up to MHz

-number of mobile monitoring stations 15

-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?

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?

INTERFERENCE COMPLAINTS ARE ALWAYS DIFFICULT TO SOLVE.

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

Type of computers PC/SUN

Operating system(s) WINDOWS/ORACLE

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? 40

16. Number of support staff in national spectrum management? 3

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

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

a) National Spectrum Management, version 1995? YES

b) Spectrum Monitoring¹, version 1995?

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 1997²? YES

f) Windows Basic Automated Spectrum Management System (WinBASMS) Software Version 1997, Manual Version 1997

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

SATTELLITE REGULATION

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

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To be returned no later than 31 January 2000 to:

ITU-D Study Groups Secretariat

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THANK YOU FOR YOUR COOPERATION

Norway

National Frequency Plan

NORWAY

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
Below 9 kHz	Not allocated S5.53 S5.54				Not allocated S5.53 S5.54	
9-14 kHz	RADIONAVIGATION				RADIONAVIGATION	
14-19.95 kHz	FIXED MARITIME MOBILE S5.57 S5.55 S5.56				FIXED MARITIME MOBILE S5.57 S5.55 S5.56	
19.95-20.05 kHz	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)				STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	
20.05-70 kHz	FIXED MARITIME MOBILE S5.57 S5.56 S5.58				FIXED MARITIME MOBILE S5.57 S5.56 S5.58	
70-72 kHz	RADIONAVIGATION S5.60				RADIONAVIGATION S5.60	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
72-84 kHz	FIXED MARITIME MOBILE S5.57 RADIONAVIGATION S5.60 S5.56				FIXED MARITIME MOBILE S5.57 RADIONAVIGATION S5.60 S5.56	
84-86 kHz	RADIONAVIGATION S5.60				RADIONAVIGATION S5.60	
86-90 kHz	FIXED MARITIME MOBILE S5.57 S5.56 RADIONAVIGATION				FIXED MARITIME MOBILE S5.57 S5.56 RADIONAVIGATION	
90-110 kHz	RADIONAVIGATION S5.62 Fixed S5.63 S5.64				RADIONAVIGATION S5.62 Fixed S5.64	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
110-112 kHz	FIXED MARITIME MOBILE RADIONAVIGATION S5.64				FIXED MARITIME MOBILE RADIONAVIGATION S5.64	
112-115 kHz	RADIONAVIGATION S5.60				RADIONAVIGATION S5.60	
115-117.6 kHz	RADIONAVIGATION S5.60 Fixed Maritime mobile S5.64 S5.66				RADIONAVIGATION S5.60 Fixed Maritime mobile S5.64 S5.66	
117.6-126 kHz	FIXED MARITIME MOBILE RADIONAVIGATION S5.60 S5.64				FIXED MARITIME MOBILE RADIONAVIGATION S5.60 S5.64	
126-129 kHz	RADIONAVIGATION S5.60				RADIONAVIGATION S5.60	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
129-130 kHz	FIXED MARITIME MOBILE RADIONAVIGATION S5.60 S5.64				FIXED MARITIME MOBILE RADIONAVIGATION S5.60 S5.64	
130-148.5 kHz	FIXED MARITIME MOBILE S5.64 S5.67			ERC REC 62-01	FIXED MARITIME MOBILE Amateur radio S5.64 S5.67	Amateur radio: 135,7-137,8 KHz, secondary service
148.5-255 kHz	BROADCASTING S5.68 S5.69 S5.70				BROADCASTING S5.68 S5.69 S5.70	
255-283.5 kHz	BROADCASTING AERONAUTICAL RADIONAVIGATION S5.70 S5.71				BROADCASTING AERONAUTICAL RADIONAVIGATION	
283.5-315 kHz	AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (RADIOBEACON) S5.73 S5.72 S5.74				AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (RADIOBEACON) S5.73 S5.72 S5.74	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
315-325 kHz	AERONAUTICAL RADIONAVIGATION Maritime Radionavigation (RADIOBEACON) S5.73 S5.72 S5.75				AERONAUTICAL RADIONAVIGATION Maritime Radionavigation (RADIOBEACON) S5.73 S5.72	
325 –405 kHz	AERONAUTICAL RADIONAVIGATION S5.72				AERONAUTICAL RADIONAVIGATION S5.72	
405-415 kHz	RADIONAVIGATION S5.76 S5.72				RADIONAVIGATION S5.76 S5.72	
415-435 kHz	MARITIME MOBILE S5.79 AERONAUTICAL RADIONAVIGATION S5.72				MARITIME MOBILE S5.79 AERONAUTICAL RADIONAVIGATION S5.72	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
435-495 kHz	MARITIME MOBILE S5.79 Aeronautical Radionavigation S5.72 S5.81 S5.82				MARITIME MOBILE S5.79 Aeronautical Radionavigation S5.72 S5.81 S5.82	
495-505 kHz	MOBILE (distress and calling) S5.83				MOBILE (distress and calling) S5.83	
505-526.5 kHz	MARITIME MOBILE S5.79 AERONAUTICAL RADIONAVIGATION S5.72 S5.81 S5.84				MARITIME MOBILE S5.79 AERONAUTICAL RADIONAVIGATION S5.72 S5.81 S5.84	
526.5-1606.5 kHz	BROADCASTING S5.87				BROADCASTING	BROADCASTING
1606.5-1625 kHz	FIXED MARITIME MOBILE S5.90 LAND MOBILE S5.92				FIXED MARITIME MOBILE S5.90 LAND MOBILE S5.92	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1625-1635 kHz	RADIOLOCATION S5.93				RADIOLOCATION S5.93	
1635-1800 kHz	FIXED MARITIME MOBILE S5.90 LAND MOBILE S5.92 S5.96				FIXED MARITIME MOBILE S5.90 LAND MOBILE S5.92 S5.96	
1800-1810 kHz	RADIOLOCATION S5.93				RADIOLOCATION	
1810-1850 kHz	AMATEUR S5.98 S5.99 S5.100 S5.101				AMATEUR S5.100	
1850-2000 kHz	FIXED MOBILE except aeronautical mobile S5.92 S5.96 S5.103				FIXED MOBILE except aeronautical mobile Amateur S5.92 S5.96 S5.103	Amateur: see ITU RR footnote S5.96
2000-2025 kHz	FIXED MOBILE except aeronautical mobile(R) S5.92 S5.103				FIXED MOBILE except aeronautical mobile(R) S5.92 S5.103	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2025-2045 kHz	FIXED MOBILE except aeronautical mobile(R) Meteorological Aids S5.104 S5.92 S5.103				FIXED MOBILE except aeronautical mobile(R) Meteorological Aids S5.104 S5.92 S5.103	
2045-2160 kHz	FIXED MARITIME MOBILE LAND MOBILE S5.92				FIXED MARITIME MOBILE LAND MOBILE S5.92	
2160-2170 kHz	RADIOLOCATION S5.93 S5.107				RADIOLOCATION	
2170-2173.5 kHz	MARITIME MOBILE				MARITIME MOBILE	
2173.5-2190.5 kHz	MOBILE(distress and calling) S5.108 S5.109 S5.110 S5.111				MOBILE(distress and calling) S5.108 S5.109 S5.110 S5.111	
2190.5-2194 kHz	MARITIME MOBILE				MARITIME MOBILE	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2194-2300 kHz	FIXED MOBILE except aeronautical mobile(R) S5.92 S5.103 S5.112				FIXED MOBILE except aeronautical mobile(R) S5.92 S5.103 S5.112	
2300-2498 kHz	FIXED MOBILE except aeronautical mobile(R) BROADCASTING S5.113 S5.103				FIXED MOBILE except aeronautical mobile(R) S5.103	
2498-2501 kHz	STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)				STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	
2501-2502 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research				STANDARD FREQUENCY AND TIME SIGNAL Space Research	
2502-2625 kHz	FIXED MOBILE except aeronautical mobile(R) S5.92 S5.103 S5.114				FIXED MOBILE except aeronautical mobile(R) S5.92 S5.103 S5.114	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2625-2650 kHz	MARITIME MOBILE MARITIME RADIONAVIGATION S5.92				MARITIME MOBILE MARITIME RADIONAVIGATION S5.92	
2650-2850 kHz	FIXED MOBILE except aeronautical mobile(R) S5.92 S5.103				FIXED MOBILE except aeronautical mobile(R) S5.92 S5.103	
2850-3025 kHz	AERONAUTICAL MOBILE(R) S5.111 S5.115				AERONAUTICAL MOBILE(R) S5.111 S5.115	See ITU RR Appendix 27
3025-3155 kHz	AERONAUTICAL MOBILE(OR)				AERONAUTICAL MOBILE(OR)	See ITU RR Appendix 26
3155-3200 kHz	FIXED MOBILE except aeronautical mobile(R) S5.116 S5.117				FIXED MOBILE except aeronautical mobile(R) S5.116 S5.117	
3200-3230 kHz	FIXED MOBILE except aeronautical mobile(R) BROADCASTING S5.113 S5.116				FIXED MOBILE except aeronautical mobile(R) S5.116	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
3230-3400 kHz	FIXED MOBILE except aeronautical mobile BROADCASTING S5.113 S5.116 S5.118				FIXED MOBILE except aeronautical mobile S5.116 S5.118	
3400-3500 kHz	AERONAUTICAL MOBILE(R)				AERONAUTICAL MOBILE(R)	See ITU RR Appendix 27
3500-3800 kHz	AMATEUR S5.120 FIXED MOBILE except aeronautical mobile S5.92				AMATEUR S5.120 FIXED MOBILE except aeronautical mobile	
3800-3900 kHz	FIXED AERONAUTICAL MOBILE(OR) LAND MOBILE				FIXED AERONAUTICAL MOBILE(OR) LAND MOBILE	See ITU RR Appendix 26
3900-3950 kHz	AERONAUTICAL MOBILE(OR) S5.123				AERONAUTICAL MOBILE(OR)	See ITU RR Appendix 26
3950-4000 kHz	FIXED BROADCASTING				FIXED BROADCASTING	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
4000-4063 kHz	FIXED MARITIME MOBILE S5.127 S5.126				FIXED MARITIME MOBILE S5.127	See ITU RR Appendix 25
4063-4438 kHz	MARITIME MOBILES S5.109 S5.110 S5.130 S5.131 S5.132 S5.128 S5.129				MARITIME MOBILES S5.109 S5.110 S5.130 S5.131 S5.132 S5.128 S5.129	See ITU RR Appendix 25
4438-4650 kHz	FIXED MOBILE except aeronautical mobile(R)				FIXED MOBILE except aeronautical mobile(R)	
4650-4700 kHz	AERONAUTICAL MOBILE(R)				AERONAUTICAL MOBILE(R)	See ITU RR Appendix 27
4700-4750 kHz	AERONAUTICAL MOBILE(OR)				AERONAUTICAL MOBILE(OR)	See ITU RR Appendix 26
4750-4850 kHz	FIXED AERONAUTICAL MOBILE(OR) LANDMOBILE BROADCASTING S5.113				FIXED AERONAUTICAL MOBILE(OR) LANDMOBILE	See ITU RR Appendix 26

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
4850-4995 kHz	FIXED LAND MOBILE BROADCASTING S5.113				FIXED LAND MOBILE	
4995-5003 kHz	STANDARD FREQUENCY AND TIME (5000 kHz)				STANDARD FREQUENCY AND TIME (5000 kHz)	
5003-5005 kHz	STANDARD FREQUENCY AND TIME Space Research				STANDARD FREQUENCY AND TIME Space Research	
5005-5060 kHz	FIXED BROADCASTING S5.113				FIXED	
5060-5250 kHz	FIXED Mobile except aeronautical mobile S5.133				FIXED Mobile except aeronautical mobile S5.133	
5250-5450 kHz	FIXED Mobile except aeronautical mobile				FIXED Mobile except aeronautical mobile	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
5450-5480 kHz	FIXED AERONAUTICAL MOBILE(OR) LAND MOBILE				FIXED AERONAUTICAL MOBILE(OR) LAND MOBILE	See ITU RR Appendix 26
5480-5680 kHz	AERONAUTICAL MOBILE(R) S5.111 S5.115				AERONAUTICAL MOBILE(R) S5.111 S5.115	See ITU RR Appendix 27
5680-5730 kHz	AERONAUTICAL MOBILE(OR) S5.111 S5.115				AERONAUTICAL MOBILE(OR) S5.111 S5.115	See ITU RR Appendix 26
5730-5900 kHz	FIXED LAND MOBILE				FIXED LAND MOBILE	
5900-5950 kHz	BROADCASTING S5.134 S5.135 S5.136				BROADCASTING S5.134 S5.135 S5.136	
5950-6200 kHz	BROADCASTING				BROADCASTING	
6200-6525 kHz	MARITIME MOBILE S5.109 S5.110 S5.130 S5.132 S5.137				MARITIME MOBILE S5.109 S5.110 S5.130 S5.132 S5.137	See ITU RR Appendix 25
6525-6685 kHz	AERONAUTICAL MOBILE(R)				AERONAUTICAL MOBILE(R)	See ITU RR Appendix 27

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
6685-6765 kHz	AERONAUTICAL MOBILE(OR)				AERONAUTICAL MOBILE(OR)	See ITU RR Appendix 26
6765-7000 kHz	FIXED Land Mobile S5.139 S5.138				FIXED Land Mobile S5.138	ISM band, secondary, 6765-6795 kHz, center frequency 6780 kHz
7000-7100 kHz	AMATEUR S5.120 AMATEUR-SATELLITE S5140 S5.141				AMATEUR S5.120 AMATEUR-SATELLITE	Exclusive Amateur band
7100-7300 kHz	BROADCASTING				BROADCASTING	
7300-7350 kHz	BROADCASTING S5.134 S5.135 S5.143				BROADCASTING S5.134 S5.135 S5.143	
7350-8100 kHz	FIXED Land Mobile S5.144				FIXED Land Mobile	
8100-8195 kHz	FIXED MARITIME MOBILE				FIXED MARITIME MOBILE	See ITU RR Appendix 16 and 25

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
8195-8815 kHz	MARITIME MOBILE S5.109 S5.110 S5.132 S5.145 S5.111				MARITIME MOBILE S5.109 S5.110 S5.132 S5.145 S5.111	See ITU RR Appendix 16 and 25
8815-8965 kHz	AERONAUTICAL MOBILE(R)				AERONAUTICAL MOBILE(R)	See ITU RR Appendix 27
8965-9040 kHz	AERONAUTICAL MOBILE(OR)				AERONAUTICAL MOBILE(OR)	See ITU RR Appendix 26
9040-9400 kHz	FIXED				FIXED	
9400-9500 kHz	BROADCASTING S5.134 S5.135 S5.146				BROADCASTING S5.134 S5.135 S5.146	
9500-9900 kHz	BROADCASTING S5.147 S5.148				BROADCASTING S5.147 S5.148	
9900-9995 kHz	FIXED				FIXED	
9995-10 003 kHz	STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) SS5.111				STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) SS5.111	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
10 003-10 005 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111				STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111	
10 005-10 100 kHz	AERONAUTICAL MOBILE(R) S5.111				AERONAUTICAL MOBILE(R) S5.111	See ITU RR Appendix 27
10 100-10 150 kHz	FIXED Amateur S5.120				FIXED AMATEUR S5.120	
10 150-11 175 kHz	FIXED Mobile except aeronautical mobile(R)				FIXED Mobile except aeronautical mobile(R)	
11 175-11 275 kHz	AERONAUTICAL MOBILE(OR)				AERONAUTICAL MOBILE(OR)	See ITU RR Appendix 26
11 275-11 400 kHz	AERONAUTICAL MOBILE(R)				AERONAUTICAL MOBILE(R)	See ITU RR Appendix 27
11 400-11 600 kHz	FIXED				FIXED	
11 600-11 650 kHz	BROADCASTING S5.134 S5.135 S5.146				BROADCASTING S5.134 S5.135 S5.146	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
11 650-12 050 kHz	BROADCASTING S5.147 S5.148				BROADCASTING S5.147 S5.148	
12 050-12 100 kHz	BROADCASTING S5.134 S5.135 S5.146				BROADCASTING S5.134 S5.135 S5.146	
12 100-12 230 kHz	FIXED				FIXED	
12 230-13 200 kHz	MARITIME MOBILE S5.109 S5.110 S5.132 S5.145				MARITIME MOBILE S5.109 S5.110 S5.132 S5.145	See ITU RR Appendix 16 and 25
13 200-13 260 kHz	AERONAUTICAL MOBILE(OR)				AERONAUTICAL MOBILE(OR)	See ITU RR Appendix 26
13 260-13 360 kHz	AERONAUTICAL MOBILE(R)				AERONAUTICAL MOBILE(R)	See ITU RR Appendix 27
13 360-13 410 kHz	FIXED RADIO ASTRONOMY S5.149				FIXED RADIO ASTRONOMY S5.149	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
13 410-13 570 kHz	FIXED Mobile except aeronautical mobile(R) S5.150				FIXED Mobile except aeronautical mobile(R) S5.150	
13 570-13 600 kHz	BROADCASTING S5.134 S5.135 S5.151				BROADCASTING S5.134 S5.135 S5.151	
13 600-13 800 kHz	BROADCASTING S5.148				BROADCASTING S5.148	
13 800-13 870 kHz	BROADCASTING S5.134 S5.135 S5.151				BROADCASTING S5.134 S5.135 S5.151	
13 870-14 000 kHz	FIXED Mobile except aeronautical mobile(R)				FIXED Mobile except aeronautical mobile(R)	
14 000-14 250 kHz	AMATEUR S5.120 AMATEUR- SATELLITE				AMATEUR S5.120 AMATEUR- SATELLITE	Exclusive Amateur/Amateur satellite band
14 250-14 350 kHz	AMATEUR S5.120 S5.152				AMATEUR S5.120	Exclusive Amateur band

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
14 350-14 990 kHz	FIXED Mobile except aeronautical mobile(R)				FIXED Mobile except aeronautical mobile(R)	
14 990-15 005 kHz	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) S5.111				STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) S5.111	
15 005-15 100 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research				STANDARD FREQUENCY AND TIME SIGNAL Space Research	
15 010-15 100 kHz	AERONAUTICAL MOBILE(R)				AERONAUTICAL MOBILE(R)	See ITU RR Appendix 27
15 100-15 600 kHz	BROADCASTING S5.148				BROADCASTING S5.148	
15 600-15 800 kHz	BROADCASTING S5.134 S5.135 S5.146				BROADCASTING S5.134 S5.135 S5.146	
15 800-16 360 kHz	FIXED S5.153				FIXED S5.153	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
16 360-17 410 kHz	MARITIME MOBILE S5.109 S5.110 S5.132 S5.145				MARITIME MOBILE S5.109 S5.110 S5.132 S5.145	See ITU RR Appendix 16 and 25
17 410-17 480 kHz	FIXED				FIXED	
17 480-17 550 kHz	BROADCASTING S5.134 S5.135 S5.146				BROADCASTING S5.134 S5.135 S5.146	
17 550-17 900 kHz	BROADCASTING S5.148				BROADCASTING S5.148	
17 900-17 970 kHz	AERONAUTICAL MOBILE(R)				AERONAUTICAL MOBILE(R)	See ITU RR Appendix 27
17 970-18 030 kHz	AERONAUTICAL MOBILE(OR)				AERONAUTICAL MOBILE(OR)	See ITU RR Appendix 26
18 030-18 052 kHz	FIXED				FIXED	
18 952-18 068 kHz	FIXED Space Research				FIXED Space Research	
18 068-18 168 kHz	AMATEUR S5.120 AMATEUR- SATELLITE				AMATEUR S5.120 AMATEUR- SATELLITE	Exclusive Amateur/ Amateur Satellite band

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
	S5.154					

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
18 168-18 780 kHz	FIXED Mobile except aeronautical mobile				FIXED Mobile except aeronautical mobile	
18 780-18 900 kHz	MARITIME MOBILE				MARITIME MOBILE	See ITU RR Appendix 16 and 25
18 900-19 020 kHz	BROADCASTING S5.134 S5.135 S5.146				BROADCASTING S5.134 S5.135 S5.146	
19 020-19 680 kHz	FIXED				FIXED	
19 680-19 800 kHz	MARITIME MOBILE S5.132				MARITIME MOBILE S5.132	See ITU RR Appendix 16 and 25
19 800-19 990 kHz	FIXED				FIXED	
19 990-19 995 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111				STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111	
19 995-20 010 kHz	STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) S5.111				STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) S5.111	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
20 010-21 000 kHz	FIXED Mobile				FIXED Mobile	
21 000-21 450 kHz	AMATEUR S5.120 AMATEUR- SATELLITE				AMATEUR S5.120 AMATEUR- SATELLITE	Exclusive Amateur/ Amateur Satellite band
21 450-21 850 kHz	BROADCASTING S5.148				BROADCASTING S5.148	
21 850-21 870 kHz	FIXED S5.155A S5.155				FIXED S5.155A S5.155	
21 870-21 924 kHz	FIXED S5.155B				FIXED S5.155B	
21 924-22 000 kHz	AERONAUTICAL MOBILE(R)				AERONAUTICAL MOBILE(R)	See ITU RR Appendix 27
22 000-22 855 kHz	MARITIME MOBILE S5.132 S5.156				MARITIME MOBILE S5.132	
22 855-23 000 kHz	FIXED S5.156				FIXED	
23 000-23 200 kHz	FIXED Mobile except aeronautical mobile(R) S5.156				FIXED Mobile except aeronautical mobile(R)	
23 200-23 350 kHz	FIXED S5.156A AERONAUTICAL MOBILE(OR)				FIXED AERONAUTICAL MOBILE(OR)	See ITU RR Appendix 26

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
23 350-24 000 kHz	FIXED Mobile except aeronautical mobile S5.157				FIXED Mobile except aeronautical mobile S5.157	
24 000-24 890 kHz	FIXED LAND MOBILE				FIXED LAND MOBILE	
24 890-24 990 kHz	AMATEUR S5.120 AMATEUR- SATELLITE				AMATEUR S5.120 AMATEUR- SATELLITE	Exclusive Amateur/ Amateur Satellite band
24 990-25 005 kHz	STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)				STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)	
25 005-25 010 kHz	STANDARD FREQUENCY AND TIME SIGNAL Space Research				STANDARD FREQUENCY AND TIME SIGNAL Space Research	
25 010-25 070 kHz	FIXED Mobile except aeronautical mobile				FIXED Mobile except aeronautical mobile	See ITU RR Appendix 16
25 070-25 210 kHz	MARITIME MOBILE				MARITIME MOBILE	See ITU RR Appendix 16 and 25

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
25 210 –25 550 kHz	FIXED Mobile except aeronautical mobile				FIXED Mobile except aeronautical mobile	See ITU RR Appendix 16 and 25
25 550-25 670 kHz	RADIO ASTRONOMY S5.149				RADIO ASTRONOMY S5.149	
25 670-26 100 kHz	BROADCASTING				BROADCASTING	
26 100-26 175 kHz	MARITIME MOBILE S5.132				MARITIME MOBILE S5.132	See ITU RR Appendix 16 and 25
26 175-27 500 kHz	FIXED Mobile except aeronautical mobile S5.150			ERC REC T/R20-09	FIXED Mobile except aeronautical mobile S5.150	PR-27 CB band 26 965-27 405 KHz See ERC REC T/R20-09
27.500-28.000 MHz	METEOROLOGICAL AIDS FIXED MOBILE				METEOROLOGICAL AIDS FIXED MOBILE	Paging systems
28.000-29.700 MHz	AMATEUR AMATEUR SATELLITE				AMATEUR AMATEUR SATELLITE	Exclusive Amateur/ Amateur Satellite band

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
29.700-30.005 MHz	FIXED MOBILE	MOBILE	Defence systems Radio microphones, under study	EU1 EU2	MOBILE	No assignments until further notice.
30.005-30.010 MHz	SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH	MOBILE	Defence systems Radio microphones, under study	EU1 EU2	MOBILE	
30.01-37.50 MHz	FIXED MOBILE	MOBILE	PMR Defence systems Radio microphones 30.01-34.90 MHz Model control 34.995-35.225 MHz (exclusive allocation)	EU1 EU2 EU27 ERC Recommendation CEPT/ERC/REC 70-03. The bands 30.3-30.5 MHz and 32.15-32.45 MHz are harmonised military bands.	MOBILE	Radio controll, model cars 34,8-34,9 MHz Radio controll, model planes 35.0-35.2 MHz Radio control, model boats 35.3-35.4 MHz Governmental users.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
37.50-38.25 MHz	FIXED MOBILE Radio Astronomy S5.149	MOBILE except Aeronautical Mobile Radio Astronomy S5.149	PMR Defence systems	EU1 EU2 RA continuum measurements	MOBILE except Aeronautical Mobile Radio Astronomy S5.149	
38.250-39.986 MHz	FIXED MOBILE	MOBILE	PMR Defence systems	EU1 EU2 39.0-39.2 MHz is under study as a harmonised band for meteor-scatter applications	MOBILE	
39.986-40.020 MHz	FIXED MOBILE Space Research	MOBILE Space Research	PMR Defence systems	EU1 EU2	MOBILE Space Research	
40.02-40.66 MHz	FIXED MOBILE S5.150	MOBILE	PMR Defence systems	EU1 EU2	MOBILE	Wireless mike for hearing aids 40,050-40,550 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
40.660-40.700 MHz	FIXED MOBILE S5.150	MOBILE S5.150	Defence systems ISM General SRD	EU1 EU2 ERC Recommendation CEPT/ERC/REC 70-03.	MOBILE S5.150	Radio control 40.665-40.695 MHz Radio control, model cars and boats 40.705-40.795 MHz
40.70-40.98 MHz		MOBILE	PMR Defence systems	EU1 EU2	MOBILE	
40.980-41.015 MHz	FIXED MOBILE Space Research S5.160 S5.161	MOBILE Space Research	PMR Defence systems	EU1 EU2	MOBILE Space Research	
41.015-44.000 MHz	FIXED MOBILE S5.160 S5.161	MOBILE	PMR Defence systems	EU1 EU27 This is a harmonised military band	MOBILE	Governmental users

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
44.0-46.4 MHz	FIXED MOBILE S5.162 S5.162A	MOBILE S5.162A	PMR Defence systems	EU1 EU27 This is a harmonised military band. Geographical sharing with wind profiler radars in the range 46-68 MHz.	MOBILE S5.162A	Governmental users
46.4-47.0 MHz		MOBILE except Aeronautical Mobile S5.162A	PMR Defence systems	EU1 EU27 This is a harmonised military band. Geographical sharing with wind profiler radars in the range 46-68 MHz.	MOBILE except Aeronautical Mobile S5.162A	Governmental users
47-48 MHz	BROADCASTING S5.162A S5.163 <u>S5.164</u> S5.165 S5.169 S5.171	LAND MOBILE S5.162A S5.164	PMR On-site paging in the band 47.00-47.25 MHz Defence systems	EU1 EU2 EU3 Geographical sharing with wind profiler radars in the range 46-68 MHz.	LAND MOBILE S5.162A S5.164	TV ch2, 47-54 MHz ,expected termination when DVB-T becomes operational or when equipment is to be changed at TV TX stations

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
48.0-48.5 MHz	BROADCASTING S5.162A S5.163 <u>S5.164</u> S5.165 S5.169 S5.171	LAND MOBILE S5.162A S5.164	PMR SAB Defence systems	EU1 EU2 EU3 Geographical sharing with wind profiler radars in the range 46-68 MHz.	LAND MOBILE S5.162A S5.164	TV ch2, 47-54 MHz ,expected termination when DVB-T becomes operational or when equipment is to be changed at TV TX stations.
48.5-50.0 MHz	BROADCASTING S5.162A S5.163 <u>S5.164</u> S5.165 S5.169 S5.171	LAND MOBILE S5.162A S5.164	PMR General SRD 49.50-50.00 MHz Defence systems	EU1 EU2 EU3 Geographical sharing with wind profiler radars in the range 46-68 MHz –	LAND MOBILE S5.162A S5.164	TV ch2, 47-54 MHz ,expected termination when DVB-T becomes operational or when equipment is to be changed at TV TX stations.
50-51 MHz	BROADCASTING S5.162A S5.163 <u>S5.164</u> S5.165 S5.169 S5.171	LAND MOBILE Amateur S5.162A S5.164	PMR Defence systems	EU1 EU2 EU3 Geographical sharing with wind profiler radars in the range 46.0-68.0 MHz.	LAND MOBILE AMATEUR S5.162A S5.164	TV ch2, 47-54 MHz ,expected termination when DVB-T becomes operational or when equipment is to be changed at TV TX stations. Protect Broadcasting services.
51-52 MHz	BROADCASTING S5.162A S5.163 <u>S5.164</u> S5.165 S5.169 S5.171	LAND MOBILE Amateur S5.162A S5.164	PMR Defence systems	EU1 EU2 EU3 Geographical sharing with wind profiler	LAND MOBILE AMATEUR S5.162A S5.164	TV ch2, 47-54 MHz ,expected termination when DVB-T becomes operational or when equipment is to be changed at TV TX stations. Protect Broadcasting services

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
				radars in the range 46-68 MHz.		
52-54 MHz	BROADCASTING S5.162A S5.163 <u>S5.164</u> S5.165 S5.169 S5.171	LAND MOBILE S5.162A S5.164	PMR SAB Defence systems	EU1 EU2 EU3 Geographical sharing with wind profiler radars in the range 46-68 MHz.	LAND MOBILE Amateur S5.162A S5.164	TV ch2, 47-54 MHz ,expected termination when DVB-T becomes operational or when equipment is to be changed at TV TX stations Protect Broadcasting services
54-61 MHz	BROADCASTING S5.162A S5.163 <u>S5.164</u> S5.165 S5.169 S5.171	LAND MOBILE S5.162A S5.164	PMR SAB Defence systems	EU1 EU2 EU3 ERC Recommendation T/R 25-08, Annex 2b, ML paired with 61-68 MHz. Geographical sharing with wind profiler radars in the range 46-68 MHz.	LAND MOBILE Amateur S5.162A S5.164	TV ch3, 54-61 MHz ,expected termination when DVB-T becomes operational or when equipment is to be changed at TV TX stations. Protect Broadcasting services

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
61-68 MHz	BROADCASTING S5.163 S5.162 <u>S5.164</u> S5.165 S5.169 S5.171	LAND MOBILE S5.162A S5.164	PMR Defence systems	EU1 EU2 EU3 ERC Recommendation T/R 25-08, Annex 2b, FB paired with 54-61 MHz. Geographical sharing with wind profiler radars in the range 45- 68 MHz	LAND MOBILE S5.162A S5.164	TV ch3, 61-68 MHz ,expected termination when DVB-T becomes operational or when equipment is to be changed at TV TX stations.
68.00-70.45 MHz	FIXED MOBILE except Aeronautical Mobile S5.149 S5.174 S5.175 S5.177 S5.179	MOBILE	PMR Defence systems	EU1 EU2 EU4 ERC Recommendation T/R 25-08, Annex 2b, ML paired with 77.80- 80.25 MHz.	MOBILE	PMR, Norwegian channel plan applied.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
70.45-74.80 MHz		MOBILE except Aeronautical Mobile Radio Astronomy S5.149	PMR Defence systems	EU1 EU2 EU4 EU27 ERC Recommendation T/R 25-08, Annex 2b, ML paired with 80.25- 84.60 MHz. 73.3-74.1 MHz is a harmonised military band. RA continuum measurements. RA: 73.0-74.6 MHz for solar wind monitoring.	MOBILE except Aeronautical Mobile Radio Astronomy S5.149	PMR, Norwegian channel plan applied.
74.8-75.2 MHz	AERONAUTICAL RADIONAVIGATION S5.180 <u>S5.181</u>	AERONAUTICAL RADIONAVIGATION S5.181	Marker beacons	EU1	AERONAUTICAL RADIONAVIGATION S5.181	Maker beacon (75.000MHz +/-200 kHz)
75.2-77.7 MHz	FIXED MOBILE except aeronautical mobile S5.175 S5.179 S5.184 S5.187	MOBILE	PMR Defence systems	EU1 EU2 ERC Recommendation T/R 25-08, Annex 2b, ML paired with 85.00- 87.50 MHz.	MOBILE	PMR, Norwegian channel plan applied.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
77.7-77.8 MHz		MOBILE	PMR Defence systems	EU1 EU2 ERC Recommendation T/R 25-08, Annex 2b, Single frequency.	MOBILE	PMR, Norwegian channel plan applied.
77.8-84.6 MHz		MOBILE	PMR Defence systems	EU1 EU2 EU27 ERC Recommendation T/R 25-08, Annex 2b, FB paired with 68.00- 74.80 MHz. Harmonised military band 79.0-79.7 MHz.	MOBILE	PMR, Norwegian channel plan applied. Governmental users
84.6-85.0 MHz		MOBILE	PMR Defence systems	EU1 EU2 ERC Recommendation T/R 25-08, Annex 2b, Single frequency.	MOBILE	PMR
85.0-87.5 MHz		MOBILE	PMR Defence systems	EU1 EU2 ERC Recommendation T/R 25-08, Annex 2b, FB paired with 75.20- 77.70 MHz	MOBILE	PMR

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
87.5-100.0 MHz	BROADCASTING S5.190	BROADCASTING	FM sound broadcasting Geneva Agreement 1984		BROADCASTING	Geneva 84 Plan.
100-108 MHz	BROADCASTING S5.192 S5.194	BROADCASTING	FM sound broadcasting Geneva Agreement 1984		BROADCASTING	Geneva 84 Plan.
108.000-117.975 MHz	AERONAUTICAL RADIONAVIGATION <u>S5.197</u>	AERONAUTICAL RADIONAVIGATION S5.197	ILS/Localiser 108-112 MHz VOR 108.000-117.975 MHz		AERONAUTICAL RADIONAVIGATION S5.197	AERONAUTICAL RADIONAVIGATION
117.975-121.450 MHz	AERONAUTICAL MOBILE (R) S5.111 S5.198 S5.199 S5.200 S5.201	AERONAUTICAL MOBILE (R) S5.200	Aeronautical mobile communications for safety and regularity of flight	EU5	AERONAUTICAL MOBILE (R) S5.200	AERONAUTICAL MOBILE (R)
121.45-121.55 MHz	AERONAUTICAL MOBILE (R) S5.111 S5.198 S5.199 S5.200 S5.201	MOBILE-SATELLITE (Earth-space) AERONAUTICAL MOBILE S5.199, S5.200	EPIRB	Band only available for distress and safety purposes	MOBILE-SATELLITE (Earth-space) AERONAUTICAL MOBILE S5.199, S5.200	AERONAUTICAL MOBILE

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
121.55-136.00 MHz	AERONAUTICAL MOBILE (R) S5.111 S5.198 S5.199 S5.200 S5.201	AERONAUTICAL MOBILE (R) S5.200, S5.201, S5.202	Aeronautical mobile communications for safety, regularity of flight, airline business and airport mobile communications	EU5	AERONAUTICAL MOBILE (R) S5.200	AERONAUTICAL MOBILE (R)
136-137 MHz	AERONAUTICAL MOBILE (R) S5.202 S5.203 S5.203A S5.203B	AERONAUTICAL MOBILE (R) S5.200, S5.201, S5.202			AERONAUTICAL MOBILE (R) S5.200	AERONAUTICAL MOBILE (R)
137.000-137.025 MHz	SPACE OPERATION (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) MOBILE-SATELLITE (space-Earth) S5.208A S5.209 Fixed Mobile except Aeronautical mobile ® S5.204 S5.205 S5.206 S5.207 S5.208	METEOROLOGICAL-SAT (SPACE-Earth) MOBILE MOBILE-SATELLITE (space-Earth) S5.208A S5.209 Space Operation (space-Earth) Space Research (space-Earth) S5.206 S5.208	Meteorological Satellite Low earth orbiting satellites	EU6 Mobile restricted to Aeronautical Mobile (OR), including air sport	METEOROLOGICAL-SAT (SPACE-Earth) MOBILE MOBILE-SATELLITE (space-Earth) S5.208A S5.209 Space Operation (space-Earth) Space Research (space-Earth) S5.208	METEOSAT MOBILE-SATELLITE

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
137.025-137.175 MHz	SPACE OPERATION (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) Mobile-Satellite (space-Earth) S5.208A S5.209 Fixed Mobile except aeronautical mobile (R) S5.204 S5.205 <u>S5.206</u> S5.207 S5.208	METEOROLOGICAL SATELLITE (space-Earth) MOBILE Mobile-Satellite (space-Earth) S5.208A S5.209 Space Operation (space-Earth) Space Research (space-Earth) S5.206 S5.208	Meteorological Satellite Low earth orbiting satellites	EU6 Mobile restricted to Aeronautical Mobile (OR), including air sport	METEOROLOGICAL SATELLITE (space-Earth) MOBILE Mobile-Satellite (space-Earth) S5.208A S5.209 Space Operation (space-Earth) Space Research (space-Earth) S5.208	METEOSAT MOBILE-SATELLITE
137.175-137.825 MHz	SPACE OPERATION (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) MOBILE-SATELLITE (space-Earth) S5.208A S5.209 Fixed Mobile except aeronautical mobile (R) S5.204 S5.205 <u>S5.206</u> S5.207 S5.208	METEOROLOGICAL-SAT (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth) S5.208A S5.209 Space Operation (space-Earth) Space Research (space-Earth) S5.206 S5.208	Meteorological Satellite Low earth orbiting satellites	EU6 Mobile restricted to Aeronautical Mobile (OR), including air sport	METEOROLOGICAL-SAT (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth) S5.208A S5.209 Space Operation (space-Earth) Space Research (space-Earth) S5.208	METEOROLOGICAL SATELLITE MOBILE-SATELLITE

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
137.825-138.000 MHz	SPACE OPERATION (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) Mobile-Satellite (space-Earth) S5.208A S5.209 Fixed Mobile except aeronautical mobile (R) S5.204 S5.205 <u>S5.206</u> S5.207 S5.208	METEOROLOGICAL-SAT (space-Earth) MOBILE Mobile-Satellite (space-Earth) S5.208A S5.209 Space Operation (space-Earth) Space Research (space-Earth) S5.206 S5.208	Meteorological Satellite Low earth orbiting satellites	EU6 Mobile restricted to Aeronautical Mobile (OR), including air sport	METEOROLOGICAL-SAT (space-Earth) MOBILE Mobile-Satellite (space-Earth) S5.208A S5.209 Space Operation (space-Earth) Space Research (space-Earth) S5.208	METEOROLOGICAL SATELLITE MOBILE-SATELLITE
138.0-143.6 MHz	AERONAUTICAL MOBILE (OR) <u>S5.210</u> <u>S5.211</u> S5.212 S5.214	AERONAUTICAL MOBILE (OR) LAND MOBILE Space Research (space-Earth) S5.210 S5.211	Air operation control Various mobile applications SRD	EU2 EU5 EU27 This is a harmonised military band. SRDs in the band 138.20-138.45 MHz. ERC Recommendation CEPT/ERC/REC 70-03	AERONAUTICAL MOBILE (OR) LAND MOBILE Space Research (space-Earth) S5.210 S5.211	SRD 135,2-138,45 MHz and 142-142,5 MHz PMR, Norwegian channel plan applied.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
143.60-143.65 MHz	AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-Earth) <u>S5.211</u> S5.212 S5.214	AERONAUTICAL MOBILE (OR) LAND MOBILE SPACE RESEARCH (space-Earth) S5.211	Air operation control Various mobile applications	EU2 EU5 EU27 This is a harmonised military band.	AERONAUTICAL MOBILE (OR) LAND MOBILE SPACE RESEARCH (space-Earth) S5.211	PMR, Norwegian channel plan applied.
143.65-144.00 MHz	AERONAUTICAL MOBILE (OR) <u>S5.210</u> <u>S5.211</u> S5.212 S5.214	AERONAUTICAL MOBILE (OR) LAND MOBILE S5.210 S5.211	Air operation control Various mobile applications	EU2 EU5 EU27 This is a harmonised military band.	AERONAUTICAL MOBILE (OR) LAND MOBILE S5.210 S5.211	PMR, Norwegian channel plan applied.
144-146 MHz	AMATEUR S5.120 AMATEUR-SATELLITE S5.216	AMATEUR S5.120 AMATEUR-SATELLITE			AMATEUR S5.120 AMATEUR-SATELLITE	Exclusive Amateur / Amateur satellite band
146.0-146.8 MHz	FIXED MOBILE except aeronautical mobile (R)	MOBILE	PMR	EU7 ERC Recommendation T/R 25-08, Annex 2b, Single frequency.	MOBILE	Radio Link, to be terminated. PMR, Norwegian channel plan applied.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
146.8-148.0 MHz		MOBILE	PMR	EU7 ERC Recommendation T/R 25-08, Annex 2b, ML paired with 151.4-152.6 MHz.	MOBILE	Radio Link, to be terminated. PMR, Norwegian channel plan applied. Governmental users
148.0-148.4 MHz	FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-space) S5.209	MOBILE-SATELLITE (Earth-space) S5.209 MOBILE S5.221	Low earth orbiting satellites PMR	EU6 EU7 ERC Recommendation T/R 25-08, Annex 2b, ML paired with 152.6-153.0 MHz.	MOBILE-SATELLITE (Earth-space) S5.209 MOBILE S5.221	Pager systems, 148.050, 148.100 MHz Governmental users. Mobile-Satellite tests in progress.
148.4-149.9 MHz	S5.218 S5.219 <u>S5.221</u>	MOBILE-SATELLITE (Earth-space) S5.209 MOBILE S5.221	Low earth orbiting satellites PMR	EU6 EU7 ERC Recommendation T/R 25-08, Annex 2b, ML paired with 153.0-154.5 MHz.	MOBILE-SATELLITE (Earth-space) S5.209 MOBILE S5.221	Governmental users. Mobile-Satellite tests in progress.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
149.90-150.05 MHz	RADIONAVIGATION-SATELLITE S5.224B MOBILE-SATELLITE (Earth-space) S5.209 S5.224A S5.220 S5.222 S5.223	RADIONAVIGATION-SATELLITE S5.224B MOBILE-SATELLITE (Earth-space) S5.209 S5.224A MOBILE S5.220 S5.222 S5.223	Low earth orbiting satellites PMR	EU6 ERC Recommendation T/R 25-08, Annex 2b, Single frequency.	RADIONAVIGATION-SATELLITE S5.224B MOBILE-SATELLITE (Earth-space) S5.209 S5.224A MOBILE S5.220 S5.222 S5.223	PMR, see Annex I for channeling arrangements
150.05-151.40 MHz	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149	MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	PMR Radio astronomy applications	EU7 ERC Recommendation T/R 25-08, Annex 2b, ML paired with 154.65-156.00 MHz. RA continuum measurement and pulsar/solar observation.	MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	Radio Link, to be terminated. PMR, see Annex I for channeling arrangements

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
151.4-153.0 MHz		MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	PMR Radio astronomy applications	EU7 ERC Recommendation T/R 25-08, Annex 2b, FB paired with 146.8-148.4 MHz. RA continuum measurement and pulsar/solar observation.	MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	Radio Link, to be terminated. Governmental users
153-154 MHz	FIXED MOBILE except aeronautical mobile (R) Meteorological Aids	MOBILE except Aeronautical Mobile	PMR	EU7 ERC Recommendation T/R 25-08, Annex 2b, FB paired with 148.4-149.9 MHz.	MOBILE except Aeronautical Mobile	PMR, Norwegian channel plan applied. See Annex I. Governmental users
154.0-154.5 MHz	FIXED MOBILE except aeronautical mobile (R) S5.226 S5.227					PMR, Norwegian channel plan applied. See Annex I.
154.50-154.65 MHz		MOBILE except Aeronautical Mobile	PMR	EU7 ERC Recommendation T/R 25-08, Annex 2b,	MOBILE except Aeronautical Mobile	PMR, Norwegian channel plan applied. See Annex I.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
				Single frequency.		

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
154.65-156.00 MHz		MOBILE except Aeronautical Mobile	PMR	EU7 ERC Recommendation T/R 25-08, Annex 2b, FB paired with 150.05-151.40 MHz	MOBILE except Aeronautical Mobile	PMR up to 155 MHz , Norwegian channel plan applied. See Annex I.
156.0000-156.5125 MHz	FIXED MOBILE except aeronautical mobile (R) S5.226 S5.227	MOBILE except Aeronautical Mobile S5.226	RR Appendix 18	EU7 EU8 Ship station, paired with 160.600- 160.950 MHz / single frequency 156.375-156.5125 MHz.	MOBILE except Aeronautical Mobile S5.226	Maritime mobile channels. See ITU RR Appendix 18.
156.5125-156.5375 MHz	FIXED MOBILE except aeronautical mobile (R) S5.226 S5.227	MARITIME MOBILE S5.227	156.525 MHz digital selective call for distress, safety and calling		MARITIME MOBILE S5.227	Maritime mobile channels. See ITU RR Appendix 18.
156.5375-156.7625 MHz		MOBILE except Aeronautical Mobile S5.226	RR Appendix 18	EU7 EU8 Single frequency	MOBILE except Aeronautical Mobile S5.226	Maritime mobile channels. See ITU RR Appendix 18.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
156.7625-156.8375 MHz	MARITIME MOBILE (distress and calling) S5.211 S5.226	MARITIME MOBILE	International distress, safety and call frequency + guard bands		MARITIME MOBILE	Maritime mobile channels. See ITU RR Appendix 18.
156.8375-157.4500 MHz	FIXED MOBILE except Aeronautical mobile S5.226 S5.229	MOBILE except Aeronautical Mobile S5.226	RR Appendix 18 156.8375-156.8750 MHz single frequency maritime	EU7 EU8 Ship station, paired with 161.500-162.050 MHz / single frequency 156.850 MHz	MOBILE except Aeronautical Mobile S5.226	Maritime mobile channels. See ITU RR Appendix 18.
157.45-160.60 MHz		MOBILE except Aeronautical Mobile	PMR	EU7 ERC Recommendation T/R 25-08, Annex 2b, ML paired with 162.050-165.200 MHz.	MOBILE except Aeronautical Mobile	Maritime mobile channels. See ITU RR Appendix 18.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
160.600-160.975 MHz		MOBILE except Aeronautical Mobile S5.226	RR Appendix 18	EU7 EU8 Coast station, paired with 156.000-156.375 MHz.	MOBILE except Aeronautical Mobile S5.226	Maritime mobile channels. See ITU RR Appendix 18.
160.975-161.475 MHz		MOBILE except Aeronautical Mobile	PMR	EU7 ERC Recommendation T/R 25-08, Annex 2b, Single frequency.	MOBILE except Aeronautical Mobile	Maritime mobile channels. See ITU RR Appendix 18.
161.475-162.050 MHz		MOBILE except Aeronautical Mobile S5.226	RR Appendix 18	EU7 EU8 Coast station, paired with 156.875-157.450 MHz.	MOBILE except Aeronautical Mobile S5.226	Maritime mobile channels. See ITU RR Appendix 18.
162.05-165.20 MHz	FIXED MOBILE except Aeronautical mobile S5.226 S5.229	MOBILE except Aeronautical Mobile	PMR	EU7 ERC Recommendation T/R 25-08, Annex 2b, FB paired with 157.450-160.600 MHz.	MOBILE except Aeronautical Mobile	PMR, Norwegian channel arrangements. See Annex I.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
165.200-165.225 MHz		MOBILE except Aeronautical Mobile	PMR		MOBILE except Aeronautical Mobile	PMR, Norwegian channel arrangements. See Annex I.
165.225-169.400 MHz		MOBILE except Aeronautical Mobile	PMR	EU7 ERC Recommendation T/R 25-08, Annex 2b, ML paired with 169.825-174.000 MHz.	MOBILE except Aeronautical Mobile	PMR, Norwegian channel arrangements. See Annex I.
169.400-169.825 MHz	FIXED MOBILE except Aeronautical mobile S5.226 S5.229	MOBILE except Aeronautical Mobile	169.4125-169.8125 MHz ERMES PMR	EU7 ERC Decision CEPT/ERC/DEC/(94)0 2 ERMES in the band 169.4125-169.8125 MHz. ERC Recommendation T/R 25-08, Annex 2b, Single frequency.	MOBILE except Aeronautical Mobile	PMR, Norwegian channel arrangements. See Annex I. Paging system

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
169.825-174.000 MHz		MOBILE except Aeronautical Mobile	PMR	EU7 ERC Recommendation T/R 25-08, Annex 2b, FB paired with 165.225-169.400 MHz.	MOBILE except Aeronautical Mobile	PMR, Norwegian channel arrangements. See Annex I.
174-216 MHz	BROADCASTING <u>S5.235</u> S5.237 S5.243 S5.244	BROADCASTING LAND MOBILE S5.235	TV Stockholm Agreement 1961 T-DAB Wiesbaden Special Arrangement 1995. Radio microphones on a tuning range basis, under study.	EU9 ERC Recommendation T/R 25-05. ERC Recommendation T/R 52-02.	BROADCASTING LAND MOBILE S5.235	TV ch5-ch10, 7 MHz PAL PMR, Norwegian channel arrangements. See Annex I.
216-223 MHz	BROADCASTING <u>S5.235</u> S5.237 S5.243 S5.244	BROADCASTING S5.235	T-DAB Wiesbaden Special Arrangement 1995	ERC Recommendation T/R 52-02. Existing TV transmitters according to Stockholm Agreement 1961.	BROADCASTING S5.235	TV ch11, 7 MHz PAL T-DAB

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
223-225 MHz	BROADCASTING FIXED MOBILE S5.236 S5.243 S5.244 S5.247 S5.248	BROADCASTING	T-DAB Wiesbaden Special Arrangement 1995	ERC Recommendation T/R 52-02.	BROADCASTING	TV ch12, 7 MHz PAL T-DAB Bloch 12B, Vest-Norge 224.880 –226.416 MHz EISCAT Radar, Tromsø 224 MHz, 2 x 1.5 MW
225-230 MHz		BROADCASTING Land Mobile	T-DAB Wiesbaden Special Arrangement 1995	EU10 ERC Recommendation T/R 52-02. T-DAB sharing with defence on national basis. This band is within the military tuning range 225-400 MHz.	BROADCASTING Land Mobile	TV ch12, 7 MHz PAL T-DAB Bloch 12C, Midt- Norge 226.592-228.128 MHz T-DAB Bloch 12D, landsdekning 228.304-229.840 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
230-235 MHz	FIXED MOBILE S5.247 S5.248 S5.251	MOBILE	T-DAB Defence systems	EU10 EU27 ERC Recommendation T/R 52-02. This is a harmonised military band. T-DAB allotments in this band according to Wiesbaden Special Arrangement 1995. T-DAB sharing with defence on a national basis.	MOBILE	Governmental users. T-DAB
235-240 MHz	FIXED MOBILE S5.111 S5.199 S5.248 S5.254 S5.256	MOBILE S5.254	T-DAB Defence systems	EU10 EU27 ERC Recommendation T/R 52-02. This is a harmonised military band. T-DAB allotments in this band according to Wiesbaden Special Arrangement 1995. T-DAB sharing with defence on a national basis.	MOBILE S5.254 BROADCASTING	T-DAB Bloch 13E, Northern Norway and south-east Norway 236.720-238.256 MHz T-DAB Bloch 13F, southern Norway. 238.432-239.968 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
240.00-242.95 MHz		MOBILE S5.254	Defence systems	EU10 EU27 Air Traffic Control. This is a harmonised military band.	MOBILE S5.254	Governmental users
242.95-243.05 MHz		MOBILE SATELLITE (Earth-space) AERONAUTICAL MOBILE S5.254	EPIRB	Band only available for distress and safety purposes.	MOBILE SATELLITE (Earth-space) AERONAUTICAL MOBILE S5.254	Governmental users
243.05-267.00 MHz		MOBILE S5.254	Defence systems	EU10 EU27 Air Traffic Control. This is a harmonised military band.	MOBILE S5.254	Governmental users
267-272 MHz	FIXED MOBILE Space Operation (space-Earth) S5.254 S5.257	MOBILE S5.254	Defence systems	EU10 EU27 Air Traffic Control. This is a harmonised military band.	MOBILE S5.254	Governmental users

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
272-273 MHz	SPACE OPERATION (space-Earth) FIXED MOBILE S5.254	MOBILE S5.254	Defence systems	EU10 EU27 Air Traffic Control (ATC) This is a harmonised military band,	MOBILE S5.254	Governmental users
273-312 MHz	FIXED MOBILE S5.254	MOBILE S5.254	Defence systems	EU10 EU27 Air Traffic Control. This is a harmonised military band.	MOBILE S5.254	Governmental users
312-315 MHz	FIXED MOBILE Mobile-Satellite (Earth-space) S5.254 S5.255	MOBILE S5.254	Defence systems	EU10 EU27 Air Traffic Control. This is a harmonised military band.	MOBILE S5.254	Governmental users

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
315-322 MHz	FIXED MOBILE S5.254	MOBILE S5.254	Defence systems	EU10 EU27 Air Traffic Control. This is a harmonised military band.	MOBILE S5.254	Governmental users
322.0-328.6 MHz	FIXED MOBILE RADIO ASTRONOMY S5.149	MOBILE RADIO ASTRONOMY S5.149	Defence systems Radio astronomy applications	EU10 EU27 This is a harmonised military band. RA continuum measurements, also VLBI.	MOBILE RADIO ASTRONOMY S5.149	Governmental users
328.6-335.4 MHz	AERONAUTICAL RADIONAVIGATION S5.258 <u>S5.259</u>	AERONAUTICAL RADIONAVIGATION S5.259	ILS/Glide path	EU2	AERONAUTICAL RADIONAVIGATION S5.259	
335.4-380.0 MHz	FIXED MOBILE S5.254	MOBILE S5.254	Defence systems	EU7 EU10 EU27 Air Traffic Control. This is a harmonised military band.	MOBILE S5.254	Governmental users

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
380-385 MHz	FIXED MOBILE S5.254	MOBILE S5.254	Emergency services Defence systems	EU2 EU10 EU27 ERC Decision ERC/DEC/(96)01 ERC Recommendation T/R 02-02 ERC Recommendation T/R 22-05, ML paired with 390.00-395.00 MHz. This is a harmonised military band. Emergency services sharing with defence applications.	MOBILE S5.254	TETRA, emergency services planned.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
385-387 MHz		MOBILE S5.254	Digital land mobile-TETRA Defence systems	EU2 EU10 EU27 ERC Decision ERC/DEC(96)04. ERC Recommendation T/R 22-05, ML paired with 395.00-399.90 MHz. This is a harmonised military band.	MOBILE S5.254	TETRA, emergency services planned.
387-390 MHz	FIXED MOBILE Mobile-Satellite (space-Earth) S5.208A S5.254 S5.255					TETRA, emergency services planned.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
390-395 MHz	FIXED MOBILE S5.254	MOBILE S5.254	Emergency services Defence systems	EU2 EU10 EU27 ERC Decision ERC/DEC/(96)01. ERC Recommendation T/R 02-02. ERC Recommendation T/R 22-05, FB paired with 380-385 MHz. This is a harmonised military band. Emergency services sharing with defence applications.	MOBILE S5.254	TETRA, emergency services planned.
395.0-399.9 MHz		MOBILE S5.254	Digital land mobile-TETRA Defence systems	EU2 EU10 EU27 ERC Decision ERC/DEC(96)04. ERC Recommendation T/R 22-05 FB paired with 385-389.9 MHz. This is a harmonised military band.	MOBILE S5.254	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
399.90-400.05 MHz	RADIONAVIGATION -SATELLITE S5.222 S5.224B MOBILE-SATELLITE (Earth-space) S5.209 S5.224A S5.220 S5.260	RADIONAVIGATION -SATELLITE S5.222 S5.224B MOBILE SATELLITE (Earth-space) S5.209 S5.224A S5.220 S5.260			RADIONAVIGATION -SATELLITE S5.222 S5.224B MOBILE SATELLITE (Earth-space) S5.209 S5.224A S5.220 S5.260	
400.0500-400.150 MHz	STANDARD FREQUENCY AND TIME SIGNAL SATELLITE (400.1 MHz) S5.261 S5.262	MOBILE			MOBILE S5.261	
400.15-401.00 MHz	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) S5.263 MOBILE-SATELLITE (space-Earth) S5.208A S5.209 Space Operation (space-Earth) S5.262 S5.264	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) S5.263 MOBILE-SATELLITE (space-Earth) S5.208A S5.209 S5.264	Low earth orbiting satellites Meteorological radio sondes		METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) S5.263 MOBILE-SATELLITE (space-Earth) S5.208A S5.209 S5.264	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-Earth) Governmental users

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
401-402 MHz	EARTH EXPLORATION-SAT (Earth-space) METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (Earth-space) SPACE OPERATION (space-Earth) Fixed Mobile except aeronautical mobile	EARTH EXPLORATION-SAT (Earth-space) METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (Earth-space)	Meteorological radio sondes Meteorological satellites, data collection platform	EU2 EU11 ERC Recommendation CEPT/ERC/REC 70-03, ultra low power medical implants (3MHz within the band 401-406 MHz under study)	EARTH EXPLORATION-SAT (Earth-space) METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (Earth-space)	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (Earth-space)
402-403 MHz	EARTH EXPLORATION-SAT (Earth-space) METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (Earth-space) Fixed Mobile except aeronautical mobile	METEOROLOGICAL AIDS EARTH EXPLORATION-SAT (Earth-space) METEOROLOGICAL SATELLITE (Earth-space)	Meteorological radio sondes Meteorological satellites, data collection platform	EU2 EU11 ERC Recommendation CEPT/ERC/REC 70-03, ultra low power medical implants (3MHz within the band 401-406 MHz under study).	METEOROLOGICAL AIDS EARTH EXPLORATION-SAT (Earth-space) METEOROLOGICAL SATELLITE (Earth-space)	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (Earth-space)

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
403-406 MHz	METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile	METEOROLOGICAL AIDS	Meteorological radio sondes	EU2 EU11 ERC Recommendation CEPT/ERC/REC 70-03, ultra low power medical implants (3MHz within the band 401-406 MHz under study).	METEOROLOGICAL AIDS	
406.0-406.1 MHz	MOBILE-SATELLITE (Earth-space) S5.266 S5.267	MOBILE-SATELLITE (Earth-space) S5.266 S5.267	EPIRB	Band only available for distress and safety purposes.	MOBILE-SATELLITE (Earth-space) S5.266 S5.267	COSPAS-SARSAT
406.1-410.0 MHz	FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY S5.149	LAND MOBILE RADIO ASTRONOMY S5.149	Analogue and digital land mobile Radio astronomy applications	Single frequency operation. RA continuum measurement and pulsar observation.	LAND MOBILE RADIO ASTRONOMY S5.149	Radio Link, to be terminated.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
410-420 MHz	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-space) S5.268	MOBILE except Aeronautical Mobile	Analogue and digital PMR TETRA	EU7 ERC Decision ERC/DEC/(96)04. ERC Recommendation T/R 22-05. ERC Recommendation T/R 25-08, Annex 2b, ML paired with 420-430 MHz.	MOBILE except Aeronautical Mobile	Radio Link, to be terminated. SYLEDIS(North Sea) Mobitex, PAMR
420-430 MHz	FIXED MOBILE except aeronautical mobile Radiolocation S5.270 S5.271	MOBILE except Aeronautical Mobile Radiolocation	Analogue and digital PMR TETRA	EU7 ERC Decision ERC/DEC/(96)04. ERC Recommendation T/R 22-05. ERC Recommendation T/R 25-08, Annex 2b, FB paired with 410 – 420MHz.	MOBILE except Aeronautical Mobile	Radio Link, to be terminated. Broadcasting auxilliary, Norwegian channel arrangements. See Annex I. Mobitex, PAMR

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
430.00-433.05 MHz	AMATEUR RADIOLOCATION S5.138 S5.271 S5.272	AMATEUR RADIOLOCATION		EU2 EU12	AMATEUR Radiolocation	Radio Link, to be terminated. 430-432 MHz. AMATEUR, 432-438 MHz. Broadcasting Auxilliary, 430-432 MHz
433.05-434.79 MHz	S5.273 S5.274 S5.275 S5.276 S5.277 <u>S5.280</u> S5.281 S5.282 <u>S5.283</u>	AMATEUR RADIOLOCATION Land Mobile S5.138 S5.280	ISM General SRD	EU2 EU12 ERC Recommendation CEPT/ERC/REC 70-03	AMATEUR Radiolocation Land Mobile S5.138 S5.280	AMATEUR 432-438 MHz. ISM 433.05-434.79 MHz, secondary, no protection given.
434.79-438.00 MHz		AMATEUR AMATEUR-SATELLITE RADIOLOCATION		EU2 EU12 Amateur Satellite Service restricted to 435-438 MHz.	AMATEUR AMATEUR-SATELLITE RADIOLOCATION	Exclusive Amateur /Amateur satellite band
438-440 MHz		AMATEUR RADIOLOCATION S5.283		EU2 EU12	FIXED S5.283	Radio Link. PMR, Norwegian channel arrangements. See Annex I.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
440-450 MHz	FIXED MOBILE except aeronautical mobile Radiolocation S5.270 S5.271 S5.284 S5.285 S5.286	MOBILE except aeronautical mobile Radiolocation	Analogue and digital PMR Short Range Business Radio in the band 446.0-446.1 MHz	EU7 On-site paging (call-out & answer-back) SRBR	MOBILE except aeronautical mobile	SRD, 440-442 MHz PMR, Norwegian channel arrangements. See Annex I. SRBR, Norwegian channel arrangements. See Annex I. Radio Link, 445-445.8 MHz, Norwegian channel arrangements. See Annex I.
450-455 MHz	FIXED MOBILE S5.286A S5.286B S5.286C S5.286D S5.286E S5.271 S5.286	MOBILE	Analogue and digital PMR TETRA Existing public cellular networks	EU7 ERC Decision ERC/DEC/(96)04. ERC Recommendation T/R 22-05. ERC Recommendation T/R 25-08, Annex 2b, ML paired with 460-465 MHz. On-site paging (call-out & answer-back).	MOBILE	PMR, 450-453 MHz, Norwegian channel arrangements. See Annex I. NMT 450 453 –457.5 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
455-456 MHz	FIXED MOBILE S5.286A S5.271 S5.286B S5.286C S5.286E	MOBILE	Analogue and digital PMR TETRA Existing public cellular networks	EU7 ERC Decision ERC/DEC/(96)04 . ERC Recommendations T/R 22-01 and T/R 22-05. ERC Recommendation T/R 25-08, Annex 2b, ML paired with 465-466 MHz. On-site paging (call-out & answer-back).	MOBILE	NMT 450 453 –457.5 MHz
456-459 MHz	FIXED MOBILE S5.271 S5.287 S5.288	MOBILE S5.287	Analogue and digital PMR On board communications 457.525-457.575 MHz (maritime) TETRA	EU7 ERC Decision ERC/DEC/(96)04. ERC Recommendations	MOBILE S5.287	NMT 450 453 –457.5 MHz PMR, 457.5-463 MHz, Norwegian channel arrangements. See Annex I.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
			Existing public cellular networks	T/R 22-05 and T/R 32-02. ERC Recommendation T/R 25-08, Annex 2b, ML, paired with 466-469 MHz. On-site paging (call-out & answer-back).		UIC
459-460 MHz	FIXED MOBILE S5.268A S5.271 S5.286B	MOBILE	Analogue and digital PMR TETRA Existing public cellular networks	EU7 ERC Decision ERC/DEC/(96)04. ERC Recommendation T/R 22-05. ERC Recommendation T/R 25-08, Annex 2b, ML paired with 469-470 MHz. On-site paging (call-out & answer-back).	MOBILE	PMR, 457.5-463 MHz, Norwegian channel arrangements. See Annex I.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
460-470 MHz	FIXED MOBILE Meteorological-Satellite (space-Earth) S5.287 S5.288 S5.289 S5.290	MOBILE S5.287 S5.289	Analogue and digital PMR TETRA On board communications 467.525-467.575 MHz (maritime) Existing public cellular networks	EU7 ERC Decision ERC/DEC/(96)04. ERC Recommendations T/R 22-01, T/R 22-05 and T/R 32-02. ERC Recommendation T/R 25-08, Annex 2b, FB paired with 450-460 MHz. On-site paging (call-out & answer-back).	MOBILE S5.287 S5.289	NMT 450 463 –467.5 MHz PMR 457.5-463 MHz 467.5-470 MHz Norwegian channel arrangements. See Annex I.
470-608 MHz	BROADCASTING S5.149 <u>S5.291A S5.294 S5.296</u> S5.300 S5.302 S5.304	BROADCASTING Mobile S5.291A S5.296	Stockholm Agreement 1961 complemented by the Chester 1997 Agreement SAB Radio microphones on a tuning range basis, under study.	Mobile restricted to SAB Band 470-862 MHz; to be reviewed for possible future applications after the introduction of DVB-T.	BROADCASTING Mobile Radiolocation S5.291A S5.296	TV Ch21 –39, 8 MHz PAL, not used. Wind profiler(WRC97) planned, 470-495 MHz. ENG/OB 470-478 MHz EISCAT radar, Svalbard 500MHz, 1 MW

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
608-614 MHz	S5.306 S5.311 <u>S5.312</u>	BROADCASTING Radio Astronomy Mobile S5.149 S5.296	Stockholm Agreement 1961 complemented by the Chester 1997 Agreement SAB Radio microphones on a tuning range basis, under study.	Mobile restricted to SAB Band 470-862 MHz; to be reviewed for possible future applications after the introduction of DVB-T. RA continuum measurements and VLBI.	BROADCASTING Radio Astronomy Mobile S5.149 S5.296	TV ch39, 8 MHz PAL.
614-790 MHz		BROADCASTING Mobile S5.296 S5.312	Stockholm Agreement 1961 complemented by the Chester 1997 Agreement SAB Radio microphones on a tuning range basis, under study.	EU13 Mobile restricted to SAB Band 470-862 MHz to be reviewed for possible future applications after the introduction of DVB-T	BROADCASTING Mobile S5.296	TV ch40-60, 8 MHz PAL
790 –838 MHz	FIXED BROADCASTING <u>S5.312</u> S5.313 <u>S5.314</u> S5.315 S5.316 S5.319 S5.321	BROADCASTING Mobile S5.312 S5.314	Stockholm Agreement 1961 complemented by the Chester Agreement 1997 SAB Radio microphones on a tuning range basis, under study. Defence systems	EU2 EU13 Mobile restricted to SAB and tactical radio relay. Band 470-862 MHz to be reviewed for possible future applications after the introduction of DVB-T.	BROADCASTING Mobile	TV ch61-66, 8 MHz PAL, not used in Norway DVB-T planned. Radio Link, 790-862 MHz, Norwegian channel plan applied. See Annex I. Wireless microphones, 800-820 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
838-862 MHz		BROADCASTING MOBILE S5.312 S5.314	Stockholm Agreement 1961 complemented by the Chester 1997 Agreement SAB Radio microphones on a tuning range basis, under study. Defence systems	EU2 EU13 MOBILE primary restricted to tactical radio relay. SAB, mobile on a secondary basis. Band 470-862 MHz to be reviewed for possible future applications after the introduction of DVB-T.	BROADCASTING MOBILE Fixed	TV ch67-69, 8 MHz PAL, not used in Norway DVB-T planned. Road traffic systems, (Køfri) 852-860 MHz Radio Link, 790-862 MHz, Norwegian channel plan applied. See Annex I.
862-870 MHz	FIXED MOBILE except Aeronautical Mobile BROADCASTING S5.322 S5.319 <u>S5.323</u>	MOBILE S5.323	Single frequency applications Cordless Telephones Defence systems SRD in 868-870 MHz Social alarms in 869.2-869.25 MHz Wireless audio in 863-865 MHz.	EU2 EU13 ERC Decision ERC/DEC/(97)06. ERC Recommendation CEPT/ERC/REC 70-03.	MOBILE	PMR, 862-868 MHz, Norwegian channel plan applied. See Annex I. SRD 868-870 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
870-876 MHz		MOBILE S5.323	Digital land mobile TETRA Defence systems	EU2 EU13 ERC Decision ERC/DEC/(96)04. ERC Recommendation T/R 22-05, ML paired with 915-921 MHz.	MOBILE	PMR, Norwegian channel plan applied. See Annex I.
876-880 MHz		MOBILE S5.323	Digital land mobile UIC railway systems Defence systems	EU2 EU13 ERC Recommendation T/R 25-09, ML paired with 921-925 MHz.	MOBILE	UIC
880-890 MHz		MOBILE S5.323	EGSM Defence systems	EU2 EU13 ERC Decision ERC/DEC/(97)02, ML paired with 925-935 MHz	MOBILE	E-GSM

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
890-915 MHz	FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 Radiolocation <u>S5.323</u>	MOBILE Radiolocation S5.323	GSM Existing cellular networks	EU13 EU14 ERC Decision ERC/DEC/(94)01, ML paired with 935-960 MHz.	MOBILE	NMT, (from Oct. 1998) 900, 890-894.5 MHz GSM, (from Oct. 1998) 894.5-914 MHz CT1, cordless telephone 914-915 MHz
915-921 MHz		MOBILE Radiolocation S5.323	Digital land mobile TETRA Defence systems	EU2 EU13 EU14 ERC Decision ERC/DEC/(96)04. ERC Recommendation T/R 22-05, FB paired with 870-876 MHz.	MOBILE Radiolocation	PMR, Norwegian channel plan applied. See Annex I.
921-925 MHz	FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 Radiolocation <u>S5.323</u>	MOBILE Radiolocation S5.323	Digital land mobile UIC railway systems Defence systems	EU2 EU13 EU14 ERC Recommendation T/R 25-09, FB paired with 876-880 MHz.	MOBILE Radiolocation	UIC

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
925-935 MHz		MOBILE Radiolocation S5.323	EGSM Defence systems	EU2 EU13 EU14 ERC Decision ERC/DEC/(97)02, FB paired with 880-890 MHz.	MOBILE Radiolocation	E-GSM EISCAT Radar, Ramfjorden on 930.5 MHz BW=8MHz. Pulse peak power= 1.7 MW
935-942 MHz		MOBILE Radiolocation S5.323	GSM Existing cellular networks	EU13 EU14 ERC Decision ERC/DEC/(97)02, FB paired with 890-897 MHz.	MOBILE Radiolocation	NMT 900 (from Oct. 1998) 935-939,5 MHz GSM, (from Oct. 1998) 939,5-959,0 MHz
942-960 MHz	FIXED MOBILE except aeronautical mobile BROADCASTING S5.322 <u>S5.323</u>	MOBILE S5.323	GSM Existing cellular networks	EU13 ERC Decision ERC/DEC/(94)01, FB paired with 897-915 MHz.	MOBILE	GSM, (from Sep. 1998) 939,5-959,0 MHz CT1, cordless telephone 959 –960 MHz

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
960-1215 MHz	AERONAUTICAL RADIONAVIGATION S5.328	AERONAUTICAL RADIONAVIGATION S5.328	Flight, Safety, Navigation and Information Distribution Systems (for example, DME, TACAN, SSR, MIDS)		AERONAUTICAL RADIONAVIGATION S5.328	Distance Measuring Equipment(DME).
1215-1240 MHz	RADIOLOCATION RADIONAVIGATION -SATELLITE (space-Earth) S5.329 EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) S5.330 <u>S5.331</u> S5.332	RADIOLOCATION RADIONAVIGATION -SATELLITE (space-Earth) S5.329 EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION S5.331 S5.332	Radar and Navigation Systems and Active Sensors; GNSS		RADIOLOCATION RADIONAVIGATION -SATELLITE (space-Earth) S5.329 EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION S5.331 S5.332	GPS, 1227,6 MHz +/-14 MHz
1240-1260 MHz	RADIOLOCATION RADIONAVIGATION -SATELLITE(space-Earth) S5.329 EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) Amateur <u>S5.331</u> S5.332	RADIOLOCATION RADIONAVIGATION SATELLITE(space-Earth) S5.329 EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur S5.331 S5.332	Radar and Navigation Systems and Active Sensors; GNSS		RADIOLOCATION RADIONAVIGATION SATELLITE(space-Earth) S5.329 EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur S5.331 S5.332	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1260-1270 MHz	RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) Amateur S5.282 <u>S5.331</u> S5.332	RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur Amateur-Satellite S5.282 S5.331 S5.332	Radar and Navigation Systems and Active Sensors		RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur Amateur-Satellite S5.282 S5.331 S5.332	
1270-1300 MHz	RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) Amateur <u>S5.331</u> S5.332	RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur S5.331 S5.332	Radar and Navigation Systems and Active Sensors	Wind profiler radars between 1270 MHz and 1295 MHz	RADIOLOCATION EARTH EXPLORATION SATELLITE (active) SPACE RESEARCH (active) RADIONAVIGATION Amateur S5.331 S5.332	
1300-1350 MHz	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.149	AERONAUTICAL RADIONAVIGATION S5.337 RADIOLOCATION S5.149	Radar and Navigation Systems	RA spectral line observations 1330- 1400 MHz.	AERONAUTICAL RADIONAVIGATION S5.337 RADIOLOCATION S5.149	Radar,

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1350-1400 MHz	FIXED MOBILE RADIOLOCATION S5.149 S5.338 S5.339	FIXED RADIOLOCATION MOBILE S5.149 S5.339	Defence systems. Low capacity fixed links	EU2 EU15A EU15 Channel plan for the fixed service in ERC Recommendation T/R 13-01, Annex A. RA spectral line observations 1330-1400 MHz.	FIXED S5.149 S5.339	Radio Link, T/R13-01, Annex A 1350-1375/1492-1517 MHz T/R13-01, Annex B 1375-1400/1427-1452 MHz not opened yet.
1400-1427 MHz	EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.341	EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.341	Passive applications		EARTH EXPLORATION SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.341	Silent band
1427-1429 MHz	SPACE OPERATION (Earth-space) FIXED MOBILE except aeronautical mobile S5.341	SPACE OPERATION (Earth-space) FIXED MOBILE except aeronautical mobile S5.341	Defence systems Low capacity fixed links	EU2 EU15A EU15 Channel plan for the fixed service in ERC Recommendation T/R 13-01, Annex B.	SPACE OPERATION (Earth-space) FIXED MOBILE except aeronautical mobile S5.341	Radio Link, 1427-1472/1517-1525 MHz. Channel plan to be changed to: 1350-1375/1492-1517 MHz 1375-1400/1427-1452 MHz

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1429-1452 MHz	FIXED MOBILE except aeronautical mobile S5.341 S5.342	FIXED MOBILE except aeronautical mobile S5.341			FIXED MOBILE except aeronautical mobile S5.341	Radio Link, 1427-1472/1517-1525 MHz. Channel plan to be changed to: 1350-1375/1492-1517 MHz 1375-1400/1427-1452 MHz
1452-1492 MHz	FIXED MOBILE except aeronautical mobile BROADCASTING S5.345 S5.347 BROADCASTING-SATELLITE S5.345 S5.347 Fixed BROADCASTING-SATELLITE S5.345 S5.347 S5.341 <u>S5.342</u>	BROADCASTING S5.345 S5.347 BROADCASTING-SATELLITE S5.345 S5.347 Fixed Mobile except Aeronautical Mobile S5.341 S5.342	Digital Broadcasting Audio T-DAB Wiesbaden Special Arrangement 1995	EU15 ERC Recommendation T/R 52-02.	BROADCASTING S5.345 BROADCASTING-SATELLITE S5.345 Fixed Mobile except Aeronautical Mobile S5.341	T-DAB channels Radio Link, 1427-1472/1517-1525 MHz. Channel plan to be changed to: 1350-1375/1492-1517 MHz 1375-1400/1427-1452 MHz
1492-1517 MHz	FIXED MOBILE except aeronautical mobile S5.341 <u>S5.342</u>	FIXED MOBILE except aeronautical mobile S5.341 S5.342	Defence systems Low capacity fixed links	EU2 EU X EU15 Channel plan for the fixed service in ERC Recommendation T/R 13-01, Annex A.	FIXED MOBILE except aeronautical mobile S5.341 S5.342	Radio Link, transfer from 800 MHz band. T/R13-01 Annex A 1492-1517/1350-1375 MHz
1517-1525 MHz		FIXED MOBILE except aeronautical mobile S5.341 S5.342	Unidirectional fixed links Defence systems	EU2 EU X EU15	FIXED MOBILE except aeronautical mobile S5.341 S5.342	Radio Link, to be terminated.

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1525-1530 MHz	SPACE OPERATION (space-Earth) FIXED MOBILE SATELLITE (space-Earth) Earth Exploration Satellite Mobile except aeronautical mobile S5.341 <u>S5.342</u> S5.349 S5.351 S5.352A S5.353A S5.354 S5.350	SPACE OPERATION (space-Earth) FIXED MOBILE-SATELLITE (space-Earth) S5.341 S5.342 S5.351 S5.353A S5.354	Unidirectional fixed links Mobile satellite systems	EU15	SPACE OPERATION (space-Earth) FIXED MOBILE-SATELLITE (space-Earth) S5.341 S5.342 S5.351 S5.353A S5.354	MOBILE-SATELLITE (space-Earth), 1525-1545 MHz Radio Link, to be terminated.
1530-1533 MHz	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) S5.353A Earth exploration-satellite Fixed Mobile except aeronautical mobile S5.341 <u>S5.342</u> S5.351 S5.353A S5.354	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) Earth exploration-satellite Fixed Mobile except aeronautical mobile S5.341 S5.342S5.351 S5.353A S5.354	Mobile satellite systems	EU15	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) Earth exploration-satellite Fixed Mobile except aeronautical mobile S5.341 S5.342S5.351 S5.353A S5.354	MOBILE-SATELLITE (space-Earth), 1525-1545 MHz

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1533-1535 MHz	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) S5.353A Earth exploration satellite Fixed Mobile except aeronautical mobile S5.341 <u>S5.342</u> S5.351 S5.353A S5.354	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) Earth exploration satellite Mobile except aeronautical mobile S5.341 S5.342 S5.351 S5.353A S5.354	Mobile systems satellite	EU15	SPACE OPERATION (space-Earth) MOBILE SATELLITE (space-Earth) Earth exploration satellite Mobile except aeronautical mobile S5.341 S5.342 S5.351 S5.353A S5.354	MOBILE-SATELLITE (space-Earth), 1525-1545 MHz Radio Link, to be terminated.
1535-1544 MHz	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.353A S5.354 S5.355	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.353A S5.354	Mobile systems satellite	EU15	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.353A S5.354	MOBILE-SATELLITE (space-Earth), 1525-1545 MHz
1544-1545 MHz	MOBILE SATELLITE (space-Earth) S5.341 S5.354 S5.355 S5.356	MOBILE SATELLITE (space-Earth) S5.354 S5.356	Search and rescue satellite systems including GMDSS Mobile systems satellite	EU15	MOBILE SATELLITE (space-Earth) S5.354 S5.356	MOBILE-SATELLITE (space-Earth), 1525-1545 MHz
1545-1555 MHz	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354 S5.357 <u>S5.359</u> <u>S5.362A</u>	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354 S5.357 S5.359 S5.362A	Mobile systems satellite	EU15 + EU15A	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354 S5.357 S5.362A	MOBILE SATELLITE (space-Earth)

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1555-1559 MHz	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354 <u>S5.359</u> S5.362B	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354 S5.359	Mobile satellite systems	EU15	MOBILE SATELLITE (space-Earth) S5.341 S5.351 S5.354	MOBILE SATELLITE (space-Earth)
1559-1610 MHz	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION SATELLITE (space-Earth) S5.341 <u>S5.359</u> S5.363	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION SATELLITE (space-Earth) S5.341 S5.359	GNSS	EU15	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION SATELLITE (space-Earth) S5.341	GPS 1575,42 MHz +/-14 MHz
1610-1610.6 MHz	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) S5.341 <u>S5.355</u> <u>S5.359</u> S5.363 S5.364 S5.366 S5.367_ S5.368 S5.369 S5.372	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) S5.341 S5.355 S5.359 S5.364 S5.367 S5.368 S5.372	Satellite personal communications systems	EU15 ERC Decision ERC/DEC/(97)03	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) S5.341 S5.364 S5.367 S5.368 S5.372	
1610.6-1613.8 MHz	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.355 <u>S5.359</u> S5.363 S5.364 S5.366 S5.367 S5.368 S5.369 S5.371 S5.372	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.359 S5.364 S5.366 S5.367 S5.368 S5.372	Satellite personal communications systems Radio astronomy applications	EU15 ERC Decision ERC/DEC/(97)03 Important band for radio astronomy spectral line observations.	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.364 S5.366 S5.367 S5.368 S5.372	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1613.8-1626.5 MHz	MOBILE-SATELLITE (Earth-space) AERONAUTICAL RADIONAVIGATION Mobile-Satellite (space-Earth) S5.341 S5.355 <u>S5.359</u> S5.363 S5.364 S5.365 S5.366 S5.367 S5.368 S5.369 S5.371 S5.372	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) Mobile satellite (space-Earth) S5.341 S5.359 S5.364 S5.365 S5.367 S5.368 S5.372 S5.373	Satellite personal communications systems	EU15 ERC Decision ERC/DEC/(97)03	AERONAUTICAL RADIONAVIGATION MOBILE SATELLITE (Earth-space) Mobile satellite (space-Earth) S5.341 S5.364 S5.365 S5.367 S5.368 S5.372	Big LEO mobile satellite systems: 1621.35-1626.5 MHz
1626.5-1631.5 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.355 <u>S5.359</u> S5.353A	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359	Mobile satellite systems		MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359	MOBILE-SATELLITE (Earth-space)1626.5 –1646.5 MHz
1631.5-1636.5 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.355 <u>S5.359</u> S5.374 S5.353A	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359 S5.374	Mobile satellite systems	EU15	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359 S5.374	MOBILE-SATELLITE (Earth-space)1626.5 –1646.5 MHz

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1636.5-1645.5 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.355 <u>S5.359</u>	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359	Mobile satellite systems	EU15	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.353A S5.354 S5.359	MOBILE-SATELLITE (Earth-space)1626.5 –1646.5 MHz
1645.5-1646.5 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.354 S5.375	MOBILE-SATELLITE (Earth-space) S5.341 S5.354 S5.375	Search and rescue satellite system including GMDSS	EU15	MOBILE-SATELLITE (Earth-space) S5.341 S5.354 S5.375	MOBILE-SATELLITE (Earth-space)1626.5 –1646.5 MHz
1646.5-1656.5 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.355 <u>S5.359</u> S5.376 S5.362B	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.359 S5.362B S5.376	Mobile satellite systems	EU15	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.376	
1656.5-1660 MHz	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.355 <u>S5.359</u> S5.374 S5.362B	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.359 S5.360 S5.362B S5.374	Mobile satellite systems	EU15	MOBILE-SATELLITE (Earth-space) S5.341 S5.351 S5.354 S5.360 S5.374	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1660-1660.5 MHz	MOBILE-SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.351 S5.354 S5.376A S5.362B	MOBILE-SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.351 S5.354 S5.376A S5.362B	In accordance with ECARadio astronomy applications Mobile satellite systems	EU15 Important band for radio astronomy. VLBI	MOBILE-SATELLITE (Earth-space) RADIO ASTRONOMY S5.149 S5.341 S5.351 S5.354 S5.376A S5.362B	
1660.5-1668.4 MHz	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except Aeronautical Mobile S5.149 S5.341 S5.379 S5.379A	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile S5.149 S5.341 S5.379A	Radioastronomy applications Mobile systems	EU2 EU15A EU15 Important band for radio astronomy: Continuum line and VLBI measurements.	RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile S5.149 S5.341 S5.379A	
1668.4-1670 MHz	METEOROLOGICAL AIDS FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149 S5.341	METEOROLOGICAL AIDS FIXED RADIO ASTRONOMY Mobile except aeronautical mobile S5.149	Radio astronomy applications Mobile systems Meteorological applications	EU2 EU15A EU15 Important band for radio astronomy.	METEOROLOGICAL AIDS RADIO ASTRONOMY Mobile except aeronautical mobile S5.149 S5.341	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
		S5.341				

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1670-1675 MHz	METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-Earth) MOBILE S5.380 S5.341	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (space-Earth) MOBILE S5.380 Fixed S5.341	TFTS (ground to air) Meteorological applications	ERC Decision ERC/DEC/(92) 01. ERC Recommendation T/R 42-01.	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (space-Earth) MOBILE S5.380 S5.341	TFTS 1670-1675/1800-1805 MHz
1675-1690 MHz	METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.341	METEOROLOGICAL AIDS FIXED METEOROLOGICAL SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.341	Mobile systems Meteorological applications	EU2 EU15A EU15	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.341	Governmental users
1690-1700 MHz	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-Earth) Fixed Mobile except Aeronautical Mobile S5.289 S5.341 <u>S5.382</u>	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (space-Earth) Fixed Mobile except Aeronautical Mobile S5.341 S5.382	Meteorological applications	EU2 EU15A EU15	METEOROLOGICAL AIDS METEOROLOGICAL SATELLITE (space-Earth) Mobile except Aeronautical Mobile S5.341	

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1700-1710 MHz	FIXED METEOROLOGICAL-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.289 S5.341	FIXED METEOROLOGICAL-SATELLITE (space-Earth) [Mobile except Aeronautical Mobile] S5.341	Meteorological applications	EU2 EU15A EU15	METEOROLOGICAL SATELLITE (space-Earth) [Mobile except Aeronautical Mobile] S5.341	
1710-1785 MHz	FIXED MOBILE S5.380 S5.149 S5.341 S5.385 S5.386 S5.387 S5.388	FIXED MOBILE S5.149 S5.341 S5.385	DCS 1800	EU15 ERC Decision ERC/DEC/(95)03 ERC Recommendation T/R 22-07	MOBILE S5.149 S5.341 S5.385	DCS1800 1710-1785/1805-1880 MHz
1785-1800 MHz		FIXED MOBILE	Mobile systems	EU2 EU15 Radio microphones (under study)	MOBILE	Governmental users Civil wireless microphones
1800-1805 MHz		MOBILE S5.380 Fixed	TFTS (air to ground)	EU15 ERC Decision ERC/DEC/(92) 01 ERC Recommendation T/R 42-01	MOBILE S5.380	TFTS 1800-1805/1670-1675 MHz

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1805-1880 MHz		FIXED MOBILE	DCS 1800	EU15 ERC Decision ERC/DEC/(95)03 ERC Recommendation T/R 22-07	MOBILE	DSC1800 1805-1880/1710-1785 MHz
1880-1885 MHz		MOBILE Fixed	DECT	EU15 ERC Decision ERC/DEC/(94) 03	MOBILE	DECT
1885-1900 MHz		MOBILE Fixed S5.388	DECT	EU15 ERC Decision ERC/DEC/(94) 03	MOBILE S5.388	DECT
1900-1930 MHz		FIXED MOBILE S5.388	IMT-2000	EU16 EU15 ERC Decision ERC/DEC/(97)07	MOBILE S5.388	UMTS planned 1900-1980 MHz

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
1930-1970 MHz	FIXED MOBILE S5.388	FIXED MOBILE S5.388	IMT-2000	EU16 EU15 ERC Decision ERC/DEC/(97)07	MOBILE S5.388	UMTS planned 1900-1980 MHz
1970-1980 MHz	FIXED MOBILE S5.388					UMTS planned 1900-1980 MHz
1980-2010 MHz	FIXED MOBILE MOBILE-SATELLITE (Earth-space) S5.388 S5.389A S5.389B S5.389F	FIXED MOBILE MOBILE-SATELLITE (Earth-space) S5.388 S5.389	IMT-2000 Satellite personal communications systems	EU16 EU15 ERC Decisions ERC/DEC/(97)03, ERC/DEC/(97)04 and ERC/DEC/(97)07	MOBILE MOBILE-SATELLITE (Earth-space) S5.388 S5.389	UMTS satellite component planned 1980-2010 MHz
2010-2025 MHz	FIXED MOBILE S5.388	FIXED MOBILE S5.388	IMT-2000	EU16 EU15 ERC Decision ERC/DEC/(97)07	MOBILE S5.388	UMTS planned 2010-2025 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2025-2110 MHz	SPACE OPERATION (Earth-space) (space-Earth) EARTH EXPLORATION-SATELLITE (Earth-space) (space-space) FIXED MOBILE S5.391 SPACE RESEARCH (Earth-space) (space-space) S5.392	FIXED MOBILE S5.391 SPACE RESEARCH (Earth-space) (Space-Space) SPACE OPERATION (Earth-space) (Space-Space) EARTH EXPLORATION SATELLITE (Earth-space) (Space-Space) S5.392	Fixed links Space science services Mobile systems	EU2 EU16A EU15 Channel plan for the fixed service in ERC Recommendation T/R 13-01, Annex C.	FIXED MOBILE S5.391 SPACE RESEARCH (Earth-space) (Space-Space) SPACE OPERATION (Earth-space) (Space-Space) EARTH EXPLORATION SATELLITE (Earth-space) (Space-Space) S5.392	Radio Link, P-MP planned T/R13-01 Annex C 2025-2110/2200-2290 MHz Space operation (Earth-space) (Space-Space) Earth exploration satellite (Earth-space) (Space-Space) Governmental users
2110-2120 MHz	FIXED MOBILE SPACE RESEARCH (deep space)(Earth-space) S5.388	FIXED MOBILE SPACE RESEARCH (Earth-space, deep space) S5.388	IMT-2000	EU16 EU15 ERC Decision ERC/DEC/(97)07	MOBILE SPACE RESEARCH (Earth-space, deep space) S5.388	UMTS planned 2110-2170 MHz
2120-2170 MHz	FIXED MOBILE S5.388	FIXED MOBILE S5.388	IMT-2000	EU16 EU15 ERC Decision ERC/DEC/(97)07	MOBILE S5.388	UMTS planned 2110-2170 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2170-2200 MHz	FIXED MOBILE MOBILE-SATELLITE (space-Earth) S5.388 S5.389A S5.389F <u>S5.392A</u>	FIXED MOBILE MOBILE-SATELLITE (space-Earth) S5.388 S5.389A S5.392A	IMT-2000 Satellite personal communications systems	EU16 ERC Decisions ERC/DEC/(97)03, ERC/DEC/(97)04 and ERC/DEC/(97)07	MOBILE MOBILE-SATELLITE (space-Earth) S5.388 S5.389A S5.392A	UMTS satellite component considered 2170-2200 MHz
2200-2290 MHz	SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE S5.391 SPACE RESEARCH (space-Earth) (space-space) S5.392	SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE S5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) S5.392	Fixed links Space science services Mobile systems	EU16A EU15 Channel plan for the fixed service in ERC Recommendation T/R 13-01, Annex C. RA VLBI	SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE S5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) S5.392	Radio Link, P-MP planned T/R13-01 Annex C 2200-2290/2025-2110 MHz
2290-2300 MHz	FIXED MOBILE except Aeronautical Mobile SPACE RESEARCH (deep space)(space-Earth)	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-Earth)	Mobile systems	EU2 RA VLBI	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-Earth)	FIXED & MOBILE, not open for new users.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2300-2400 MHz	FIXED MOBILE Amateur Radiolocation S5.150 S5.282 S5.395	FIXED MOBILE Amateur Radiolocation S5.150 S5.395	Mobile systems	EU2 ERC Recommendation CEPT/ERC/REC 62-02. Parts of the band are used for aeronautical telemetry on a national basis.	MOBILE Amateur S5.150 S5.395	Amateur, secondary. Pay attention on 2300-2330 MHz, protect 2320 +/-3 MHz.
2400-2450 MHz		FIXED MOBILE Amateur Amateur satellite S5.282 S5.150	ISM, SRD, WBDTS, R-Tags	EU2 ERC Recommendation CEPT/ERC/REC 70-03	FIXED MOBILE Amateur Amateur satellite S5.282 S5.150	ISM(2400-2500MHz), secondary services.
2450-2483.5 MHz	FIXED MOBILE Radiolocation S5.150 <u>S5.397</u>	FIXED MOBILE S5.150 S5.397	ISM, SRD, WBDTS, R-Tags	EU2 ERC Recommendation CEPT/ERC/REC 70-03	FIXED MOBILE S5.150	ISM(2400-2500MHz), secondary services.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2483.5-2500 MHz	FIXED MOBILE MOBILE-SATELLITE (space-Earth) Radiolocation S5.150 S5.371 <u>S5.397</u> S5.398 S5.399 S5.400 S5.402	FIXED MOBILE MOBILE-SATELLITE (space-Earth) S5.150 S5.397	In accordance with ECA Satellite personal communications systems ISM	EU15 ERC Decision ERC/DEC/(97)03)	FIXED MOBILE MOBILE-SATELLITE (space-Earth) S5.150	ISM(2400-2500MHz), secondary services.
2500-2520 MHz	FIXED S5.409 S5.410 S5.411 MOBILE except Aeronautical Mobile MOBILE-SATELLITE (space-Earth) S5.403 S5.405 S5.407 S5.408 S5.412 S5.414	MOBILE-SATELLITE (space-Earth) Fixed Mobile except aeronautical mobile S5.403 S5.414	Mobile systems satellite	EU15	MOBILE-SATELLITE (space-Earth) Fixed Mobile except aeronautical mobile S5.403 S5.414	
2520-2655 MHz	FIXED S5.409 S5.410 S5.411 MOBILE except Aeronautical Mobile BROADCASTING-SATELLITE S5.412 S5.413 S5.339 S5.403 S5.405 S5.408 S5.416 S5.417 S5.418	FIXED MOBILE except aeronautical mobile S5.339 S5.403	Fixed links Defence systems	EU2 EU15 Channel plan for the fixed service in ERC Recommendation T/R 13-01, Annex D.	FIXED MOBILE except aeronautical mobile S5.339 S5.403	Radio access planned, T/R13-01 Annex D Governmental users

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2655-2670 MHz	FIXED S5.409 S5.410 S5.411 MOBILE except Aeronautical Mobile BROADCASTING-SATELLITE S5.413 S5.416 Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive) S5.149 S5.412 S5.417 S5.420	FIXED MOBILE except aeronautical mobile Earth exploration satellite (passive) Radio astronomy Space research (passive) S5.149 S5.420	Fixed links Mobile systems	EU2 EU15 Channel plan for the fixed service in ERC Recommendation T/R 13-01, Annex D. RA continuum measurements.	FIXED MOBILE except aeronautical mobile Earth exploration satellite (passive) Radio astronomy Space research (passive) S5.149 S5.420	Radio access planned, T/R13-01 Annex D
2670-2690 MHz	FIXED S5.409 S5.410 S5.411 MOBILE except Aeronautical Mobile MOBILE-SATELLITE (Earth-space) Earth Exploration-Satellite (passive) Radio Astronomy Space Research (passive) S5.149 S5.409 S5.410 S5.411 S5.419 S5.420	MOBILE-SATELLITE (Earth-space) Fixed Mobile except aeronautical mobile Radioastronomy S5.149 S5.419 S5.420	Mobile systems satellite	EU15 RA continuum measurements.	MOBILE-SATELLITE (Earth-space) Fixed Mobile except aeronautical mobile Radioastronomy S5.149 S5.419 S5.420	MOBILE-SATELLITE (Earth-space) not open for use by Radio Link.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
2690-2700 MHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 <u>S5.421</u> <u>S5.422</u>	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.421 S5.422	Passive applications		EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	
2700-2900 MHz	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.423 S5.424	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.423	Radars and Navigation Systems Meteorological radars		AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.423 S5.424	Governmental users.
2900-3100 MHz	RADIONAVIGATION S5.426 Radiolocation S5.425 S5.427	RADIONAVIGATION S5.426 Radiolocation S5.425 S5.427	Radars		RADIONAVIGATION S5.426 Radiolocation S5.425 S5.427	Governmental users. Radar
3100-3300 MHz	RADIOLOCATION Earth Exploration-Satellite (active) Space Research (active) S5.149 <u>S5.428</u>	RADIOLOCATION Earth Exploration-Satellite (active) Space Research (active) S5.149 S5.428	Radars and Active Sensors		RADIOLOCATION Earth Exploration-Satellite (active) Space Research (active) S5.149 <u>S5.428</u>	Governmental users.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
3300-3400 MHz	RADIOLOCATION S5.149 S5.429 S5.430	RADIOLOCATION	Radars		RADIOLOCATION S5.149 S5.429 S5.430	Governmental users.
3400-3500 MHz	FIXED FIXED-SATELLITE (space-Earth) Mobile Radiolocation <u>S5.431</u>	FIXED FIXED-SATELLITE (space-Earth) MOBILE Amateur Radiolocation S5.431	Fixed links. Wireless fixed access systems.	ERC Recommendation CEPT/ERC/REC 14-03 Fixed includes point to multipoint. Mobile for coordinated ENG/OB links for occasional use. Upper limit for airborne radars is 3410 MHz.	FIXED FIXED-SATELLITE (space-Earth) MOBILE Amateur Radiolocation S5.431	FIXED, Spread spectrum systems. Amateur, secondary, 3400-3410 MHz. MOBILE limited to ENG/OB.
3500-3600 MHz		FIXED FIXED-SATELLITE (space-Earth) MOBILE	Fixed links. Wireless fixed access systems.	ERC Recommendation CEPT/ERC/REC 14-03 Fixed includes point to multipoint. Coordinated ENG/OB links for occasional use.	FIXED FIXED-SATELLITE (space-Earth) MOBILE	FIXED, Spread spectrum systems. MOBILE limited to ENG/OB.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
3600-4200 MHz	FIXED FIXED-SATELLITE (space-Earth) Mobile	FIXED FIXED-SATELLITE (space-Earth)	Medium/High capacity fixed links, plan to be developed Telecommunications satellites to coordinated Earth stations. Priority for civil networks		FIXED FIXED-SATELLITE (space-Earth)	Radio Link, ITU-R F.382(Mod), 3600-3800 MHz Radio Link, prog.distribution, ITU-R F.382, 3800-4200 MHz FIXED-SATELLITE (space-Earth) 3600-3623 MHz
4200-4400 MHz	AERONAUTICAL RADIONAVIGATION S5.438 S5.437 S5.439 S5.440	AERONAUTICAL RADIONAVIGATION S5.438 S5.437 S5.440	Radio altimeters	EU18 Earth exploration satellite use for sea surface temperature measurements.	AERONAUTICAL RADIONAVIGATION S5.437 S5.438 S5.440	Radio altimeters
4400-4500 MHz	FIXED MOBILE	FIXED MOBILE	Transhorizon links. Defence systems.	EU2 EU20 EU27 This is a harmonised military band for fixed and mobile systems. Coordinated ENG/OB links for occasional use.	FIXED MOBILE	Governmental users.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
4500-4800 MHz	FIXED FIXED-SATELLITE (space-Earth) S5.441 MOBILE	FIXED FIXED-SATELLITE (space-Earth) S5.441 MOBILE	Defence systems.	EU20 EU27 Coordinated ENG/OB links for occasional use. Transhorizon links. Telecommunications satellites to coordinated Earth stations. Fixed Satellite frequency plan in 4500-4800 MHz Fixed Satellite Service not to be implemented in NATO Europe. This is a harmonised military band for fixed and mobile systems.	FIXED FIXED-SATELLITE (space-Earth) S5.441 MOBILE	ITU RR AP30B art.10, downlink. Governmental users.
4800-4990 MHz	FIXED MOBILE S5.442 Radio Astronomy S5.149 S5.339 S5.443	FIXED MOBILE except Aeronautical Mobile Radio Astronomy S5.149 S5.339	Defence systems.	EU20 EU27 Coordinated ENG/OB links for occasional use. This is a harmonised military band for fixed and mobile systems. Space Research and EES (passive) above 4950 MHz in some countries. RA continuum measurements.	FIXED MOBILE except Aeronautical Mobile Radio Astronomy S5.149 S5.339	Governmental users.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
4990-5000 MHz	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY Space Research (passive) S5.149	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	RA continuum measurements and VLBI	EU20 EU27 Coordinated ENG/OB links for occasional use. This is a harmonised military band for fixed and mobile systems.	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	Governmental users.
5000-5030 MHz	AERONAUTICAL RADIONAVIGATION S5.367 S5.444 S5.444A	AERONAUTICAL RADIONAVIGATION Radio Astronomy Space Research (passive) S5.367 S5.444 S5.444A		Aeronautical Radionavigation and Fixed Satellite Service envisaged in some countries. RA VLBI observations.	AERONAUTICAL RADIONAVIGATION Radio Astronomy Space Research (passive) S5.367 S5.444 S5.444A	MLS under consideration 5000-5100 MHz
5030-5150 MHz		AERONAUTICAL RADIONAVIGATION S5.367 S5.444 S5.444A	MLS	EU18 Aeronautical Radionavigation envisaged in some countries. Fixed Satellite Service in use in some countries.	AERONAUTICAL RADIONAVIGATION S5.367 S5.444 S5.444A	MLS under consideration 5000-5100 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
5150-5250 MHz	AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-space) S5.447A S5.446 <u>S5.447</u> S5.447B S5.447C	MOBILE FIXED-SATELLITE (Earth-space) S5.447A S5.446 S5.447 S5.447B S5.447C	HIPERLANs Feeder links for the Mobile-Satellite service	ERC Decision ERC/DEC/(96)03 ERC Recommendation CEPT/ERC/REC 70-03. Aeronautical Radionavigation and Fixed Satellite Service envisaged in some countries.	MOBILE FIXED-SATELLITE (Earth-space) S5.447A S5.446 S5.447 S5.447B S5.447C	HIPERLAN considered, ERC REC T/R22-06
5250-5255 MHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH S5.447D <u>S5.448</u> S5.448A	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH Mobile S5.447D S5.448 S5.448A	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing Active Sensors	EU22 ERC Recommendation CEPT/ERC/REC 70-03. HIPERLANs extension band 5250-5300 MHz on a national basis.	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH Mobile S5.447D S5.448A	HIPERLAN extension considered, 5250-5300 MHz ERC REC T/R22-06
5255-5350 MHz	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) <u>S5.448</u> S5.448A	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Mobile S5.448 S5.448A	: Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing Active Sensors	EU22 ERC Recommendation CEPT/ERC/REC 70-03. HIPERLANs extension band 5250-5300 MHz on a national basis.	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Mobile S5.448A	HIPERLAN extension considered, 5250-5300 MHz ERC REC T/R22-06

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
5350-5450 MHz	AERONAUTICAL RADIONAVIGATION S5.449 EARTH EXPLORATION-SATELLITE (active) Radiolocation S5.448B	AERONAUTICAL RADIONAVIGATION S5.449 EARTH EXPLORATION-SATELLITE (active) Fixed Radiolocation S5.448B	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing Active Sensors	EU22	AERONAUTICAL RADIONAVIGATION S5.449 EARTH EXPLORATION-SATELLITE (active) Fixed Radiolocation S5.448B	
5450-5460 MHz		AERONAUTICAL RADIONAVIGATION S5.449 EARTH EXPLORATION-SATELLITE (active)Radiolocation S5.448B	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing Active sensors	EU22	AERONAUTICAL RADIONAVIGATION S5.449 EARTH EXPLORATION-SATELLITE (active)Radiolocation S5.448B	
5460-5470 MHz	RADIONAVIGATION S5.449 Radiolocation	RADIONAVIGATION S5.449 Radiolocation	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing	EU22	RADIONAVIGATION S5.449 Radiolocation	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
5470-5650 MHz	MARITIME RADIONAVIGATION Radiolocation S5.450 S5.451 S5.452	MARITIME RADIONAVIGATION Radiolocation S5.450 S5.451 S5.452	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing	EU22	MARITIME RADIONAVIGATION Radiolocation S5.452	
5650-5725 MHz	RADIOLOCATION Amateur Space Research (deep space) S5.282 S5.451 S5.453 S5.454 S5.455	RADIOLOCATION Amateur S5.282 S5.451 S5.454 S5.455	Weapon system radars Shipborne and VTS Radar Ground based and airborne weather radar Tactical Radar Position Fixing	EU22, EU17,23 Amateur Satellite Service (Earth to space), 5650-5670 MHz from RR S5.282.	RADIOLOCATION Amateur S5.282	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
5725-5830 MHz	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur S5.150 S5.451 S5.453 S5.455 S5.456	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur Mobile S5.451 S5.455 S5.457	Non civil radiolocation. Ground based and airborne weather radar. ISM 5725-5875 MHz. 5795-5805 MHz Road Transport and Traffic Telematic Systems (RTTT). SRDs in 5725-5875 MHz.	EU22, EU23 ERC Decision ERC/DEC/(92)02 ERC Recommendation CEPT/ERC/REC 70-03. Amateur Satellite Service (space to Earth), 5830-5850 MHz from RR S5.282. RTTT in 5805-5815 MHz on a national basis.	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur S5.150	Road Transport Information systems, T/R22-04 5795 –5850 MHz ISM, secondary services, T/R01-04 5725-5875 MHz Amateur Satellite(s-E) 5830-5850 MHz
5830-5850 MHz	FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur Amateur-Satellite (space-Earth) S5.150 S5.451 S5.453 S5.455 S5.456				FIXED-SATELLITE (Earth-space) RADIOLOCATION Amateur Amateur-Satellite (space-Earth) S5.150	Amateur Satellite(s-E) 5830-5850 MHz ISM, secondary services, T/R01-04 5725-5875 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
5850-5925 MHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.150	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.150	ISM 5725-5875 MHz Telecommunications satellites from coordinated Earth stations. Priority for civil networks	ERC Recommendation CEPT/ERC/REC 70-03.	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.150	ISM, secondary services, T/R01-04 5725-5875 MHz
5925-6425 MHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.149 S5.440 S5.458	FIXED FIXED-SATELLITE (Earth-space) S5.149	Medium/High capacity fixed links. Telecommunications satellites from coordinated Earth stations. Priority for civil networks.	ERC Recommendation CEPT/ERC/REC 14-01	FIXED FIXED-SATELLITE (Earth-space) S5.149	Radio Link , transport link, ITU-R F.383 5925-6425 MHz
6425-6700 MHz		FIXED FIXED-SATELLITE (Earth-space) S5.441 Earth Exploration-Satellite (passive) S5.149 S5.440 S5.458 S5.458A S5.458B S5.458C	Medium/High capacity fixed links. Telecommunications satellites from coordinated Earth stations. Priority for civil networks. Fixed Satellite Plan 6725-7025 MHz. Feeder links for the MSS in 6925-7075 MHz.	ERC Recommendation CEPT/ERC/REC 14-02. EESS sea surface temperature measurements.	FIXED FIXED-SATELLITE (Earth-space) S5.441 Earth Exploration-Satellite (passive) S5.149 S5.440 S5.458 S5.458A S5.458B S5.458C	Radio Link, ITU-R F.384 6425-7100 MHz Fixed-satellite, uplink

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
6700-7075 MHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441 MOBILE S5.458 S5.458A S5.458B S5.458C	FIXED FIXED-SATELLITE (Earth-space) S5.441 Earth Exploration-Satellite (passive) S5.149 S5.440 S5.458 S5.458A S5.458B S5.458C			FIXED FIXED-SATELLITE (Earth-space) S5.441 Earth Exploration-Satellite (passive) S5.149 S5.440 S5.458 S5.458A S5.458B S5.458C	Radio Link, ITU-R F.384 6425-7100 MHz ITU RR AP30B art.10 6725-7025 MHz
7075-7125 MHz	FIXED MOBILE S5.458 S5.459 S5.460	FIXED Earth Exploration-Satellite (passive) S5.458	Medium/High capacity fixed links	ERC Recommendation CEPT/ERC/REC 14-02 EESS sea surface temperature measurements.	FIXED Earth Exploration-Satellite (passive) S5.458	Radio Link, ITU-R F.384 6425-7100 MHz
7125-7250 MHz		FIXED MOBILE Earth Exploration-Satellite (Earth-space) Space Research (Earth-space) Space Operation (Earth-space) S5.458 S5.460	Fixed links based on Recommendation ITU-R F. 385	EESS sea surface temperature measurements.	FIXED MOBILE Earth Exploration-Satellite (Earth-space) Space Research (Earth-space) Space Operation (Earth-space) S5.458 S5.460	Radio Link, ITU-R F.385 7125-7425 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
7250-7300 MHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.461	FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.461	Fixed links based on Recommendation ITU-R F. 385 Mobile satellite 7250-7375 MHz Defence systems	EU2 EU27 This is a harmonised military band for satellite operation. FIXED and MOBILE services not to be implemented in most NATO countries.	FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.461	Radio Link, ITU-R F.385 7125-7425 MHz
7300-7450 MHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461	Fixed links based on Recommendation ITU-R F. 385 Mobile satellite 7250-7375 MHz Defence systems	EU2 EU27 This is a harmonised military band for satellite operation.	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461	Radio Link, ITU-R F.385 7125-7425 MHz 7425-7725 MHz
7450-7550 MHz	FIXED FIXED-SATELLITE (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461A	FIXED FIXED-SATELLITE (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461A	Fixed links based on Recommendation ITU-R F. 385 Defence systems	EU2 EU27 This is a harmonised military band for satellite operation. Meteorological satellites limited to geostationary systems	FIXED FIXED-SATELLITE (space-Earth) METEOROLOGICAL-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile S5.461A	Radio Link, ITU-R F.385 7425-7725 MHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
7550-7750 MHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile	Fixed links based on Recommendation ITU-R F. 385 Defence systems	EU2 EU27 This is a harmonised military band for satellite operation.	FIXED FIXED-SATELLITE (space-Earth) MOBILE except Aeronautical Mobile	Radio Link, ITU-R F.385 7425-7725 MHz Radio Link, ITU-R F.386 (MOD) 7725-7925 MHz
7750-7850 MHz	FIXED MOBILE except Aeronautical Mobile METEOROLOGICAL SATELLITE (space-to-Earth) S5.461B	FIXED MOBILE except Aeronautical Mobile METEOROLOGICAL SATELLITE (space-to-Earth) S5.461B	Fixed links based on Recommendation ITU-R F.386. Defence systems.	EU2 Meteorological satellites limited to non-geostationary systems Military use in some countries.	FIXED MOBILE except Aeronautical Mobile METEOROLOGICAL SATELLITE (space-to-Earth) S5.461B	Radio Link, ITU-R F.386(MOD) 7725-7925 MHz
7850-7900 MHz	FIXED MOBILE except Aeronautical Mobile	FIXED MOBILE except Aeronautical Mobile	Fixed links based on Recommendation ITU-R F.386. Defence systems.		FIXED MOBILE except Aeronautical Mobile	Radio Link, ITU-R F.386(MOD) 7725-7925 MHz
7900-8025 MHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.461	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.461	Fixed links based on Recommendation ITU-R F.386. Mobile satellite 7900-8025 MHz. Defence systems.	EU2 EU27 This is a harmonised military band for satellite operation. FIXED and MOBILE services not to be implemented above 7975 MHz in NATO countries.	FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.461	Radio Link ITU-R F.386(MOD) 7725-7925 MHz ITU RR AR14/S9 no.S9.12

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
8025-8175 MHz	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.462A S5.463	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.462A S5.463	Fixed links based on Recommendation ITU-R F.386 Mobile 8025-8200 MHz Defence systems Earth exploration satellite systems	EU2 EU27 This is a harmonised military band for satellite operation.	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) MOBILE S5.462A S5.463	
8175-8215 MHz	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) METEOROLOGICAL-SATELLITE (Earth-space) MOBILE S5.462A S5.463	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) METEOROLOGICAL-SATELLITE (Earth-space) MOBILE S5.462A S5.463	Fixed links based on Recommendation ITU-R F.386 Mobile 8025-8200 MHz Defence systems Earth exploration satellite systems	EU2 EU27 This is a harmonised military band for satellite operation.	EARTH EXPLORATION-SATELLITE (space-Earth) FIXED FIXED-SATELLITE (Earth-space) METEOROLOGICAL-SATELLITE (Earth-space) MOBILE S5.462A S5.463	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
8215-8400 MHz	FIXED FIXED-SATELLITE (Earth-space) MOBILE EARTH EXPLORATION-SATELLITE (space-Earth) S5.462 S5.462A S5.463 S5.464	FIXED FIXED-SATELLITE (Earth-space) EARTH EXPLORATION-SATELLITE (space-Earth) S5.462 S5.462A S5.463 S5.464	Fixed links based on Recommendation ITU-R F.386 Defence systems Earth exploration satellite systems	EU2 EU27 Earth Exploration Satellite service will be considered in WRC-97. This is a harmonised military band for satellite operation.	FIXED FIXED-SATELLITE (Earth-space) EARTH EXPLORATION-SATELLITE (space-Earth) S5.462 S5.462A S5.463	Radio Link, ITU-R F.386 8200-8349/8360-8500 MHz
8400-8500 MHz	FIXED MOBILE except Aeronautical Mobile SPACE RESEARCH (space-Earth) S5.465 S5.466 S5.467	FIXED SPACE RESEARCH (space-Earth) S5.465, S5.466 Radiolocation	Fixed links based on Recommendation ITU-R F.386	RA VLBI observations.	FIXED SPACE RESEARCH (space-Earth) S5.465, Radiolocation	Radio Link, ITU-R F.386 8200-8349/8360-8500 MHz
8500-8550 MHz	RADIOLOCATION S5.468 S5.469	RADIOLOCATION S5.468 S5.469	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24	RADIOLOCATION	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
8550-8650 MHz	RADIOLOCATION SPACE RESEARCH (active) EARTH EXPLORATION SATELLITE (active) S5.463A S5.468 S5.469	RADIOLOCATION SPACE RESEARCH (active) EARTH EXPLORATION SATELLITE (active) S5.463A S5.468 S5.469	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars. Space borne active sensors	EU2	RADIOLOCATION SPACE RESEARCH (active) EARTH EXPLORATION SATELLITE (active) S5.463A	
8650-8750	RADIOLOCATION S5.468 S5.469	RADIOLOCATION S5.468 S5.469	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2	RADIOLOCATION	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
8750-8850 MHz	RADIOLOCATION AERONAUTICAL RADIONAVIGATION S5.470 S5.471	RADIOLOCATION AERONAUTICAL RADIONAVIGATION S5.470 Space Research S5.471	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24	RADIOLOCATION AERONAUTICAL RADIONAVIGATION S5.470 Space Research	
8850-9000 MHz	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 <u>S5.473</u>	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 Space Research S5.473	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 Space Research	
9000-9200 MHz	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation S5.471	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation Space Research S5.471	Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24	AERONAUTICAL RADIONAVIGATION S5.337 Radiolocation Space Research	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
9200-9300 MHz	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 <u>S5.473</u> S5.474	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 Space Research S5.473 S5.474	Motion sensors Civil and non civil aeronautical radionavigation systems e.g. airfield approach. Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24 ERC Recommendation CEPT/ERC/REC 70-03	RADIOLOCATION MARITIME RADIONAVIGATION S5.472 Space Research S5.474	
9300-9500 MHz	RADIONAVIGATION S5.476 Radiolocation S5.427 S5.474 S5.475	RADIONAVIGATION 825A Radiolocation Space Research S5.427 S5.474 S5.475	Motion sensors Civil and non civil aeronautical radionavigation systems e.g. airfield approach. Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24 ERC Recommendation CEPT/ERC/REC 70-03	RADIONAVIGATION 825A Radiolocation Space Research S5.427 S5.474 S5.475	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
9500-9800 MHz	RADIOLOCATION RADIONAVIGATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH S5.476A	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH S5.476A	Motion sensors Civil and non civil aeronautical radionavigation systems e.g. airfield approach. Shipborne, land and airborne surveillance and weapon system radars. Space borne active sensors in bands 9500-9800 MHz	EU2 EU24 ERC Recommendation CEPT/ERC/REC 70-03	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH S5.476A	
9800-10000 MHz	RADIOLOCATION Fixed S5.477 S5.478 S5.479	RADIOLOCATION Space Research S5.477 S5.478 S5.479	Motion sensors Civil and non civil aeronautical radionavigation systems e.g. airfield approach Shipborne, land and airborne surveillance and weapon system radars.	EU2 EU24 ERC Recommendation CEPT/ERC/REC 70-03	RADIOLOCATION Space Research S5.479	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
10-10.15 GHz	FIXED MOBILE RADIOLOCATION Amateur S5.479	FIXED MOBILE RADIOLOCATION Amateur S5.479	Non civil radar ENG/OB is envisaged	EU2 EU17A	FIXED MOBILE RADIOLOCATION Amateur S5.479	ENG/OB 10-10.45 GHz Maritime Radiolocation systems, 10.0-10.2 GHz.
10.15-10.30 GHz		FIXED MOBILE RADIOLOCATION Amateur	ENG/OB is envisaged. Fixed includes point to multipoint. Wireless fixed access systems. Civil and non civil radar (low power) in certain sub bands	EU2 EU17A ERC Recommendation CEPT/ERC/REC 12-05	FIXED MOBILE RADIOLOCATION Amateur	Radio Access planned, 10.15-10.30/10.50-10.65 GHz Maritime Radiolocation systems, 10.0-10.2 GHz.
10.30-10.45 GHz		FIXED RADIOLOCATION Amateur Mobile	ENG/OB is envisaged Civil and non civil radar (low power) in certain sub bands	EU2 EU17 EU17A	FIXED RADIOLOCATION Amateur Mobile	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
10.45-10.50 GHz	RADIOLOCATION Amateur Amateur-Satellite S5.481	FIXED RADIOLOCATION MOBILE Amateur Amateur-Satellite	Fixed includes point to multipoint. ENG/OB is envisaged Civil and non civil radar Motion sensors	EU2 EU17 EU23 EU17A ERC Recommendation CEPT/ERC/REC 70-03	AMATEUR AMATEUR-SATELLITE	Exclusive Amateur band
10.50-10.55 GHz	FIXED MOBILE Radiolocation	FIXED MOBILE Radiolocation	Fixed includes point to multipoint. Wireless fixed access systems. ENG/OB is envisaged Motion sensors	EU17A ERC Recommendations CEPT/ERC/REC 12-05 & CEPT/ERC/REC 70-03	FIXED MOBILE Radiolocation	Radio Access, planned 10,5-10,68 GHz ENG/OB 10,5-10,68 GHz SRD 10,50-10,68 GHz
10.55-10.60 GHz	FIXED MOBILE except Aeronautical Mobile Radiolocation	FIXED MOBILE except Aeronautical Mobile Radiolocation	Fixed includes point to multipoint ENG/OB is envisaged T/R 60-01: Motion sensors	EU17A ERC Recommendations CEPT/ERC/REC 12-05 & CEPT/ERC/REC 70-03	FIXED MOBILE except Aeronautical Mobile Radiolocation	Radio Access, planned, M-MP 10,5-10,68 GHz ENG/OB 10,5-10,68 GHz SRD 10,50-10,68 GHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
10.60-10.65 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation S5.149 S5.482	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) Radiolocation S5.149 S5.482	Fixed includes point to multipoint. Wireless fixed access systems. ENG/OB is envisaged Passive applications	EU17A ERC Recommendation CEPT/ERC/REC 12-05 RA Continuum measurements and VLBI. Surface emissivity and precipitation.	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) Radiolocation S5.149	Radio Access, planned, M-MP 10,5-10,68 GHz ENG/OB 10,5-10,68 GHz SRD 10,50-10,68 GHz
10.65-10.68 GHz		EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149 S5.482	Fixed includes point to multipoint ENG/OB is envisaged Passive applications	EU17A ERC Recommendation CEPT/ERC/REC 12-05 RA Continuum measurements and VLBI. Surface emissivity and precipitation.	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	Radio Access, planned 10.5-10.68 GHz ENG/OB 10.5-10.68 GHz SRD 10,50-10,68 GHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
10.68-10.70 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.483	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.483	Passive applications	RA Continuum measurements and VLBI. Surface emissivity and precipitation.	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	
10.70-11.70 GHz	FIXED S5.484 FIXED-SATELLITE (Earth-space) (space-Earth) S5.441 S5.441A MOBILE except Aeronautical Mobile	FIXED FIXED-SATELLITE (space-Earth) S5.441 Land Mobile-Satellite (space-Earth) Mobile except Aeronautical Mobile	Fixed links Euteltracs Fixed Satellite Plan 10.7-10.95 / 11.2-11.45 GHz in accordance with App. 30B	ERC Recommendation CEPT/ERC/REC 12-06	FIXED FIXED-SATELLITE (space-Earth) S5.441 Land Mobile-Satellite (space-Earth) Mobile except Aeronautical Mobile	Radio Link, ITU-R F.387 10.7-10.9 GHz 11.2-11.4 GHz FSS, ITU RR AP30B art.10 10.7-10.95 GHz 11.2-11.45 GHz VSAT downlink
11.70-12.50 GHz	FIXED BROADCASTING BROADCASTING-SATELLITE Mobile except Aeronautical Mobile S5.487 S5.487A S5.492 S5.441A	FIXED BROADCASTING-SATELLITE Mobile except Aeronautical Mobile S5.487 S5.487A S5.492	Satellite broadcasting in accordance with Appendix S30	Future use of this band for point to multipoint radio links for cable TV distribution depends on the replanning of RR Appendices S30 & S30A.	FIXED BROADCASTING-SATELLITE Mobile except Aeronautical Mobile S5.487 S5.487A S5.492	BSS, ITU RR AP30A 11.7-12.5 GHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
12.50-12.75 GHz	FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.494 S5.495 S5.496	FIXED-SATELLITE (space-Earth) S5.441A S5.495 S5.496	Fixed satellite applications	Priority for civil networks. Low density carriers, including VSATs and digital SNG are encouraged to use this band.	FIXED-SATELLITE (space-Earth) S5.441A S5.495	
12.75-13.25 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.441 MOBILE Space Research (deep space)(space-Earth)	FIXED FIXED-SATELLITE (Earth-space) S5.441	Fixed links based on Recommendation ITU-R F.497 Telecommunications satellites from coordinated Earth stations. Priority for civil networks Fixed satellite Plan	ERC Recommendation CEPT/ERC/REC 12-02	FIXED FIXED-SATELLITE (Earth-space) S5.441	Radio Link, ITU-R F.497 12.75-13.25 GHz FSS, ITU RR AP30B art.10 12.75-13.25 GHz
13.25-13.40 GHz	AERONAUTICAL RADIONAVIGATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.497 S5.499 S5.498A	AERONAUTICAL RADIONAVIGATION S5.497 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.498A	Doppler Navigation aids Ship berthing radars Earth exploration observations	EU26	AERONAUTICAL RADIONAVIGATION S5.497 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.498A	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
13.40-13.75 GHz	<p>RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH Standard Frequency and Time Signal-Satellite (Earth-space)</p> <p>S5.499 S5.500 <u>S5.501</u> S5.501A S5.501B</p>	<p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH S5.500 S5.501 S5.501A S5.501B</p>	<p>Doppler Navigation aids. Motion sensors in 13.4-14.0 GHz. Ship berthing radars. Military land, airborne and naval radars.</p>	<p>EU2 EU26 ERC Recommendation CEPT/ERC/REC 70-03</p>	<p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH S5.501A S5.501B</p>	
13.75-14 GHz	<p>FIXED-SATELLITE (Earth-space) S5.441A RADIOLOCATION Standard Frequency and Time Signal-Satellite (Earth-space) Space Research S5.499 S5.500 <u>S5.501</u> S5.502 S5.503 S5.503A</p>	<p>RADIOLOCATION FIXED-SATELLITE (Earth-space) S5.441A Space Research S5.500 S5.501 S5.502 S5.503</p>	<p>Telecommunications satellites for fixed applications. Priority for civil networks. Motion sensors in 13.4-14.0 GHz. Ship berthing radar. Future VLBI observations. Military land, airborne and naval radars. Navigation radars.</p>	<p>EU2 EU26 ERC Recommendation CEPT/ERC/REC 70-03</p>	<p>RADIOLOCATION FIXED-SATELLITE (Earth-space) S5.441A Space Research S5.502 S5.503</p>	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
14-14.25 GHz	FIXED-SATELLITE (Earth-space) S5.441A S5.506 RADIONAVIGATION S5.504 Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.505	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.504	Telecommunications satellites for fixed and mobile applications. Priority for civil networks. VSAT/SNG applications.	ERC Recommendation CEPT/ERC/REC 13-03 Low density carriers, including VSATs and digital SNG, are encouraged to use this band.	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.504	FSS, VSAT/SNG uplink
14.25-14.30 GHz	FIXED-SATELLITE (Earth-space) S5.441A S5.506 RADIONAVIGATION S5.504 Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.505 S5.508 S5.509	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.504	Telecommunications satellites for fixed and mobile applications. Priority for civil networks. VSAT/SNG applications.	ERC Recommendation CEPT/ERC/REC 13-03 Fixed links to be coordinated with fixed satellite service on a national basis.	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research S5.504	FSS, VSAT/SNG uplink

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
14.30-14.40 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.441A S5.506 MOBILE except Aeronautical Mobile Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Radionavigation-Satellite	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite	Telecommunications satellites for fixed and mobile applications. Priority for civil networks VSAT/SNG applications	ERC Recommendation CEPT/ERC/REC 13-03 Fixed links to be coordinated with fixed satellite service on a national basis.	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite	FSS, VSAT/SNG uplink
14.40-14.47 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.441A S5.506 MOBILE except Aeronautical Mobile Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Space Research (space-Earth) S5.441A	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite	Telecommunications satellites for fixed and mobile applications. Priority for civil networks VSAT/SNG applications	ERC Recommendation CEPT/ERC/REC 13-03 Fixed links to be coordinated with fixed satellite service on a national basis.	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite	FSS, VSAT/SNG uplink

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
14.47-14.50 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.441A S5.506 MOBILE except Aeronautical Mobile Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Radio Astronomy S5.149	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Radio Astronomy S5.149	Telecommunications satellites for fixed and mobile applications. Priority for civil networks. VSAT/SNG applications.	ERC Recommendation CEPT/ERC/REC 13-03 Fixed links to be coordinated with fixed satellite service on a national basis. RA spectral line observations and future VLBI.	FIXED-SATELLITE (Earth-space) S5.441A Mobile-Satellite (Earth-space) except aeronautical mobile-satellite Radio Astronomy S5.149	FSS, VSAT/SNG uplink
14.50-14.80 GHz	FIXED FIXED-SATELLITE (Earth-space) S5.510 MOBILE Space Research	FIXED MOBILE Radio Astronomy	Defence systems Civil and non-civil fixed links.	EU20 EU27 ERC Recommendation CEPT/ERC/REC 12-07 The band 14.62-15.23 GHz is a harmonised military band for fixed and mobile services. Future VLBI observations compatible with primary use.	FIXED MOBILE Radio Astronomy	Governmental users.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
14.80-15.35 GHz	FIXED MOBILE Space Research S5.339	FIXED MOBILE Radio Astronomy S5.339	Defence systems Civil and non-civil fixed links based on Recommendation ITU-R F.636, to be reviewed.	EU20 EU27 ERC Recommendation CEPT/ERC/REC 12-07 The band 14.62-15.23 GHz is a harmonised military band for fixed and mobile services. Future VLBI observations compatible with primary use.	FIXED MOBILE Radio Astronomy S5.339	Governmental users.
15.35-15.40 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.511	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340 S5.511	Passive applications.	RA continuum measurements and future VLBI.	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	
15.40-15.43 GHz	AERONAUTICAL RADIONAVIGATION S5.511D	AERONAUTICAL RADIONAVIGATION S5.366 S5.367 S5.445 S5.511D	Doppler radar low power sensing. Ground movement radars.		AERONAUTICAL RADIONAVIGATION S5.366 S5.367 S5.511D	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
15.43-15.63 GHz	FIXED-SATELLITE (space to Earth)(Earth to space) S5.511A AERONAUTICAL RADIONAVIGATION S5.511C S5.511D	FIXED-SATELLITE (space to Earth)(Earth to space) S5.511A AERONAUTICAL RADIONAVIGATION S5.511C S5.511D	Fixed satellite applications for MSS feeder links. Doppler radar low power sensing. Ground movement radars.		FIXED-SATELLITE (space to Earth)(Earth to space) S5.511A AERONAUTICAL RADIONAVIGATION S5.511C S5.511D	
15.63-15.7 GHz	AERONAUTICAL RADIONAVIGATION S5.511D	AERONAUTICAL RADIONAVIGATION S5.511D	Doppler radar low power sensing. Ground movement radars.		AERONAUTICAL RADIONAVIGATION S5.511D	
15.70-16.60 GHz	RADIOLOCATION S5.512 S5.513	RADIOLOCATION S5.512	Defence systems	EU27 This is a harmonised military band for land, airborne and naval radars.	RADIOLOCATION	Governmental users
16.60-17.10 GHz	RADIOLOCATION Space Research (deep space)(Earth-space) S5.512 S5.513	RADIOLOCATION Space Research (Earth-space) S5.512	Defence systems	EU27 This is a harmonised military band for land, airborne and naval radars.	RADIOLOCATION Space Research (Earth-space)	Governmental users

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
17.10-17.20 GHz	RADIOLOCATION <u>S5.512</u> S5.513	RADIOLOCATION Mobile S5.512	Defence systems HIPERLAN	EU2 ERC Recommendation CEPT/ERC/REC 70-03. Military radar applications.	RADIOLOCATION Mobile	Radiolocation systems.
17.20-17.30 GHz	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) <u>S5.512</u> S5.513 S5.513A	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) MOBILE S5.512	Defence systems. Missile systems radars. Airborne terrain following radars. HIPERLAN	EU2 Military radar applications Recommendation CEPT/ERC/REC 70-03. Mobile allocation for HIPERLANs which have priority over space services. HIPERLANs cannot claim protection from radiolocation service.	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) MOBILE	Radiolocation systems

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
17.30-17.70 GHz	FIXED-SATELLITE (Earth-space) S5.516 Radiolocation S5.514	FIXED-SATELLITE (Earth-space) S5.516 FIXED Radiolocation S5.514	Point to multipoint systems. Appendix S30A of Radio Regulations. Feeder link plan for 11.7-12.5 GHz	EU2 Missile systems radars.	FIXED-SATELLITE (Earth-space) S5.516 FIXED Radiolocation	BSS, Feeder Links ITU RR AP30A art.9A
17.70-18.10 GHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.516 MOBILE	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.516	Fixed links Telecommunications satellites to coordinated Earth stations. Priority for civil networks Feeder link plan 17.7-18.1 GHz	ERC Recommendation CEPT/ERC/REC 12-03	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.516	Radio Link, ITU-R F.595. 17.7-19.7 GHz BSS, Feeder Links ITU RR AP30A art.9A
18.10-18.30 GHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.520 MOBILE S5.519 S5.521	FIXED FIXED-SATELLITE (space-Earth) S5.441A S5.520 METEOROLOGICAL-SATELLITE (space-Earth) S5.519 S5.521	Fixed links Telecommunications satellites to coordinated Earth stations. Priority for civil networks. Feeder link band 18.1-18.4 GHz for BSS (WARC 92).	ERC Recommendation CEPT/ERC/REC 12-03	FIXED FIXED-SATELLITE (space-Earth) S5.441A S5.520 METEOROLOGICAL-SATELLITE (space-Earth) S5.519 S5.521	Radio Link, ITU-R F.595. 17.7-19.7 GHz BSS, Feeder Links ITU RR AP30A art.9A

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
18.30-18.40 GHz		FIXED FIXED-SATELLITE (space-Earth) S5.520 S5.521	Fixed links. Telecommunications satellites to coordinated Earth stations. Priority for civil networks. Feeder link band 18.1-18.4 GHz for BSS (WARC 92).	ERC Recommendation CEPT/ERC/REC 12-03.	FIXED FIXED-SATELLITE (space-Earth) S5.520 S5.521	Radio Link, ITU-R F.595. 17.7-19.7 GHz
18.40-18.60 GHz	FIXED FIXED-SATELLITE (space-Earth) S5.441A MOBILE	FIXED FIXED-SATELLITE (space-Earth) S5.441A	Fixed links Telecommunications satellites to coordinated Earth stations. Priority for civil networks.	ERC Recommendation CEPT/ERC/REC 12-03	FIXED FIXED-SATELLITE (space-Earth) S5.441A	Radio Link, ITU-R F.595. 17.7-19.7 GHz
18.60-18.80 GHz	FIXED FIXED-SATELLITE (space-Earth) S5.523 MOBILE except Aeronautical Mobile Earth Exploration-Satellite (passive) Space Research (passive) S5.522	FIXED FIXED-SATELLITE (space-Earth) S5.523 Earth Exploration-Satellite (passive) S5.522	Fixed links. Telecommunications satellites to coordinated Earth stations. Priority for civil networks.	ERC Recommendation CEPT/ERC/REC 12-03 Earth Exploration Satellite is included, but is subject to further studies in ITU-R. EESS surface emissivity, snow, sea ice and precipitation.	FIXED FIXED-SATELLITE (space-Earth) S5.523 Earth Exploration-Satellite (passive) S5.522	Radio Link, ITU-R F.595. 17.7-19.7 GHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
18.80-19.30 GHz	FIXED FIXED-SATELLITE (space-Earth) S5.523A MOBILE	FIXED FIXED-SATELLITE (space-Earth)	Fixed links Telecommunications satellites to coordinated Earth stations. Priority for civil networks.	ERC Recommendation CEPT/ERC/REC 12-03	FIXED FIXED-SATELLITE (space-Earth)	Radio Link, ITU-R F.595. 17.7-19.7 GHz
19.30-19.70 GHz	FIXED FIXED-SATELLITE (Earth-space) (space-Earth) S5.523B S5.523C S5.523D S5.523E MOBILE	FIXED FIXED-SATELLITE (space-Earth) S5.523B S5.523C S5.523D S5.523E			FIXED FIXED-SATELLITE (space-Earth) S5.523B S5.523C S5.523D S5.523E	Radio Link, ITU-R F.595. 17.7-19.7 GHz
19.70-20.10 GHz	FIXED-SATELLITE (space-Earth) S5.441A Mobile-Satellite (space-Earth) S5.524	FIXED-SATELLITE (space-Earth) S5.441A Mobile-Satellite (space-Earth)	Fixed and mobile satellites to uncoordinated Earth stations		FIXED-SATELLITE (space-Earth) S5.441A Mobile-Satellite (space-Earth)	
20.10-20.20 GHz	FIXED-SATELLITE (space-Earth) S5.441A MOBILE-SATELLITE (space-Earth) S5.524 S5.525 S5.526 S5.527 S5.528	FIXED-SATELLITE (space-Earth) S5.441A MOBILE-SATELLITE (space-Earth) S5.525 S5.526 S5.527 S5.528	Fixed and mobile satellites to uncoordinated Earth stations.		FIXED-SATELLITE (space-Earth) S5.441A MOBILE-SATELLITE (space-Earth) S5.525 S5.526 S5.527 S5.528	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
20.20-21.20 GHz	FIXED-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth) Standard Frequency and Time Signal-Satellite (space-Earth) S5.524	FIXED-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth)	Fixed and mobile satellites to uncoordinated Earth stations.	EU2 EU27 The band 20.2-21.2 GHz is a harmonised military band for satellite downlinks.	FIXED-SATELLITE (space-Earth) MOBILE-SATELLITE (space-Earth)	Governmental users.
21.20-21.40 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	Unidirectional, temporary fixed or mobile links, including ENG/OB.	Passive systems will be phased out by 2015.	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	
21.40-22 GHz	FIXED MOBILE BROADCASTING-SATELLITE S5.530	BROADCASTING-SATELLITE S5.530	Wide band high definition television.	Fixed service envisaged in some countries.	BROADCASTING-SATELLITE S5.530	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
22-22.21 GHz	FIXED MOBILE except Aeronautical Mobile S5.149	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	Fixed links Passive applications. ENG/OB is envisaged.	EU17A ERC Recommendation T/R 13-02 RA spectral line observations (water line and redshifted water line under 22.5 GHz)	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	Radio Link, T/R-13-02 Annex A 22.0-22.6/23.0-23.6 GHz
22.21-22.50 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149 S5.532	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Earth Exploration-Satellite (passive) S5.149 S5.532	Fixed links RA applications. ENG/OB is envisaged.	EU17A ERC Recommendation T/R 13-02 Passive systems will be phased out by 2015. RA spectral line observations (water line and redshifted water line under 22.5 GHz) also VLBI.	FIXED MOBILE except Aeronautical Mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Earth Exploration-Satellite (passive) S5.149 S5.532	Radio Link, T/R-13-02 Annex A 22.0-22.6/23.0-23.6 GHz
22.50-22.55 GHz	FIXED MOBILE	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive)	Fixed links RA applications ENG/OB is envisaged.	EU17A ERC Recommendation T/R 13-02	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive)	Radio Link, T/R-13-02 Annex A 22.0-22.6/23.0-23.6 GHz

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Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
22.55-22.60 GHz	FIXED INTER-SATELLITE MOBILE S5.149	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	Fixed links RA applications ENG/OB is envisaged.	EU17A ERC Recommendation T/R 13-02	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	Radio Link, T/R-13-02 Annex A 22.0-22.6/23.0-23.6 GHz
22.60-23 GHz		FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	ENG/OB is envisaged. RA applications. Methyl Formate and Ammonia lines 22.81- 22.86 GHz.	EU17A RA spectral line observations (Methyl Formate and Ammonia lines 22.81-22.86 GHz).	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) S5.149	
23-23.55 GHz	FIXED INTER-SATELLITE MOBILE S5.149	FIXED INTER-SATELLITE MOBILE S5.149	Fixed links ENG/OB is envisaged	ERC Recommendation T/R 13-02. RA spectral line observations.	FIXED INTER-SATELLITE MOBILE S5.149	Radio Link, T/R-13-02 Annex A 23.0-23.6/22.0-22.6 GHz
23.55-23.60 GHz	FIXED MOBILE	FIXED INTER-SATELLITE MOBILE	Fixed links. ENG/OB is envisaged.	ERC Recommendation T/R 13-02.	FIXED INTER-SATELLITE MOBILE	Radio Link, T/R-13-02 Annex A 23.0-23.6/22.0-22.6 GHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
23.60-24 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	Passive applications.	Continuum observations. Ammonia line. Water vapour measurements.	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	
24-24.05 GHz	AMATEUR AMATEUR-SATELLITE S5.150	AMATEUR AMATEUR-SATELLITE S5.150	ISM 24-24.25 GHz SRD ENG/OB is envisaged.	ERC Recommendation CEPT/ERC/REC 70-03	AMATEUR AMATEUR-SATELLITE S5.150	ISM(24.00-24.25 GHz), secondary services.
24.05-24.25 GHz	RADIOLOCATION Amateur Earth Exploration-Satellite (active) S5.150	RADIOLOCATION Amateur Earth Exploration-Satellite (active) Fixed S5.150	Defence radars. Rain radar from satellites. ISM 24.05-24.25 GHz SRD Motion sensors. ENG/OB is envisaged.	EU2 ERC Recommendation CEPT/ERC/REC 70-03	RADIOLOCATION Amateur Earth Exploration-Satellite (active) Fixed S5.150	ISM(24.00-24.25 GHz), secondary services.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
24.25-24.45 GHz	FIXED	FIXED MOBILE	Unidirectional, temporary fixed links. ENG/OB	EU17A	FIXED MOBILE	
24.45-24.50 GHz	FIXED INTER-SATELLITE	FIXED MOBILE	Unidirectional, temporary fixed links. ENG/OB	EU17A	FIXED MOBILE	Radio Link,T/R13-02 Annex B 24.5-25.45/25.56-26.5 GHz
24.50-24.65 GHz		FIXED	Fixed links	ERC Recommendation T/R 13-02	FIXED	Radio Link,T/R13-02 Annex B 24.5-25.45/25.56-26.5 GHz
24.65-24.75 GHz	FIXED INTER-SATELLITE	FIXED	Fixed links	ERC Recommendation T/R 13-02	FIXED	Radio Link,T/R13-02 Annex B 24.5-25.45/25.56-26.5 GHz
24.75-25.25 GHz	FIXED	FIXED	Fixed links	ERC Recommendation T/R 13-02	FIXED	Radio Link,T/R13-02 Annex B 24.5-25.45/25.56-26.5 GHz
25.25-25.50 GHz	FIXED INTER-SATELLITE S5.536 MOBILE Standard Frequency and Time Signal- Satellite(Earth-space)	FIXED MOBILE INTER SATELLITE S5.536	Fixed links	ERC Recommendation T/R 13-02	FIXED MOBILE INTER SATELLITE S5.536	Radio Link,T/R13-02 Annex B 24.5-25.45/25.56-26.5 GHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
25.50-26.50 GHz	EARTH EXPLORATION-SATELLITE (space-Earth) S5.536A S5.536B FIXED INTER-SATELLITE S5.536 MOBILE Standard Frequency and Time Signal-Satellite (Earth-space)	FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-Earth) S5.536A S5.536B	: Fixed links	ERC Recommendation T/R 13-02	FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-Earth) S5.536A S5.536B	Radio Link, T/R13-02 Annex B 25.56-26.5/24.5-25.45 GHz
26.50-27 GHz		FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-space) S5.536A S5.536B	Defence systems	EU27 This is a harmonised military band for fixed and mobile systems.	FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-space) S5.536A S5.536B	Governmental users.
27-27.50 GHz	FIXED INTER-SATELLITE MOBILE S5.536	FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-space)	Defence systems	EU27 This is a harmonised military band for fixed and mobile systems.	FIXED MOBILE INTER-SATELLITE S5.536 Earth Exploration-Satellite (space-space)	Governmental users.

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
27.50-28.50 GHz	<p>FIXED</p> <p>FIXED-SATELLITE (Earth-space) S5.441A S5.539</p> <p>MOBILE</p> <p>S5.538</p> <p>S5.540</p>	<p>FIXED</p> <p>FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.539</p> <p>S5.538</p> <p>S5.540</p>	<p>Fixed links.</p> <p>Fixed Satellite Service (space to Earth) use limited to beacons for uplink power control 27.5-27.501 GHz.</p> <p>Feeder links to broadcasting satellites (HDTV) 27.5-29.5 GHz.</p> <p>Telecommunications satellites from coordinated Earth stations. Priority for civil networks.</p>	ERC Recommendation T/R 13-02	<p>FIXED</p> <p>FIXED-SATELLITE (Earth-space) (space-Earth) S5.441A S5.539</p> <p>S5.538</p> <p>S5.540</p>	<p>Radio Link, T/R13-02 Annex C</p> <p>27.5-28.44/28.56-29.5 GHz</p>
28.50-29.10 GHz	<p>FIXED</p> <p>FIXED-SATELLITE (Earth-space) S5.441A S5.523A S5.539</p> <p>MOBILE</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>S5.540</p>	<p>FIXED</p> <p>FIXED-SATELLITE (Earth-space) S5.441A S5.539</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>S5.540</p>	<p>Fixed links.</p> <p>Feeder links to broadcasting satellites (HDTV) 27.5-29.5 GHz.</p> <p>Telecommunications satellites from coordinated Earth stations. Priority for civil networks</p>	ERC Recommendation T/R 13-02	<p>FIXED</p> <p>FIXED-SATELLITE (Earth-space) S5.441A S5.539</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>S5.540</p>	<p>Radio Link, T/R13-02 Annex C</p> <p>28.56-29.5/27.5-28.44 GHz</p>

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
29.1-29.50 GHz	<p>FIXED</p> <p>FIXED-SATELLITE (Earth-space) S5.523C S5.535A S5.539 S5.541A S5.523E</p> <p>MOBILE</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>S5.540</p>	<p>FIXED</p> <p>FIXED-SATELLITE (Earth-space) S5.523C S5.535A S5.539 S5.541A S5.523E</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>S5.540</p>			<p>FIXED</p> <p>FIXED-SATELLITE (Earth-space) S5.523C S5.535A S5.539 S5.541A S5.523E</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>S5.540</p>	<p>Radio Link, T/R13-02 Annex C</p> <p>28.56-29.5/27.5-28.44 GHz</p>
29.50-29.90 GHz	<p>FIXED-SATELLITE (Earth-space) S5.441A S5.539</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>Mobile-Satellite (Earth-space) S5.441A S5.540 S5.542</p>	<p>FIXED-SATELLITE (Earth-space) S5.441A S5.539</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>Mobile-Satellite (Earth-space) S5.441A S5.540</p>	<p>Fixed and mobile satellites from uncoordinated Earth stations.</p>		<p>FIXED-SATELLITE (Earth-space) S5.441A S5.539</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>Mobile-Satellite (Earth-space) S5.441A S5.540</p>	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
29.90-30 GHz	<p>FIXED-SATELLITE (Earth-space) S5.539</p> <p>MOBILE-SATELLITE (Earth-space)</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>S5.441A S5.525 S5.526 S5.527</p> <p>S5.538 S5.540 S5.542</p> <p>S5.543</p>	<p>FIXED-SATELLITE (Earth-space) (space-Earth) S5.539</p> <p>MOBILE-SATELLITE (Earth-space)</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>S5.441A S5.540</p> <p>S5.525</p> <p>S5.526</p> <p>S5.527 S5.538</p> <p>S5.543</p>	<p>Fixed and mobile satellites from uncoordinated Earth stations.</p> <p>FSS Space to Earth use limited to beacons for uplink power control 29.999-30 GHz.</p>		<p>FIXED-SATELLITE (Earth-space) (space-Earth) S5.539</p> <p>MOBILE-SATELLITE (Earth-space)</p> <p>Earth Exploration-Satellite (Earth-space) S5.541</p> <p>S5.441A S5.540</p> <p>S5.525</p> <p>S5.526</p> <p>S5.527 S5.538</p> <p>S5.543</p>	
30-31 GHz	<p>FIXED-SATELLITE (Earth-space)</p> <p>MOBILE-SATELLITE (Earth-space)</p> <p>Standard Frequency and Time Signal-Satellite (space-Earth)</p> <p>S5.542</p>	<p>FIXED-SATELLITE (Earth-space) (space-Earth)</p> <p>MOBILE-SATELLITE (Earth-space)</p>	<p>Fixed and mobile satellites from uncoordinated Earth stations.</p>	<p>This is a harmonised military band for satellite uplinks.</p>	<p>FIXED-SATELLITE (Earth-space) (space-Earth)</p> <p>MOBILE-SATELLITE (Earth-space)</p>	<p>Governmental users.</p>

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
31-31.30 GHz	FIXED MOBILE Standard Frequency and Time Signal-Satellite (space-Earth) Space Research S5.544 S5.149 S5.545	FIXED MOBILE S5.149	Fixed links	Fixed includes point to multipoint. RA continuum measurements.	FIXED MOBILE Standard Frequency and Time Signal-Satellite (space-Earth) Space Research S5.544 S5.149	
31.30-31.50 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	Passive applications. Surface temperature and emissivity, atmospheric attenuation.	RA continuum measurements.	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	
31.50-31.80 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except Aeronautical Mobile S5.149 <u>S5.546</u>	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except Aeronautical Mobile S5.149 S5.546	Passive applications. Surface temperature and emissivity, atmospheric attenuation.	Fixed includes point to multipoint. RA continuum measurements	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except Aeronautical Mobile S5.149	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
31.80-32 GHz	RADIONAVIGATION FIXED S5.547A SPACE RESEARCH (deep space)(space-Earth) S5.547 S5.547B S5.548	RADIONAVIGATION FIXED S5.547A SPACE RESEARCH (space-Earth) S5.547 S5.548	High density fixed links	FIXED to be reviewed at WRC-99. Space research (deep space) in some countries	RADIONAVIGATION FIXED S5.547A SPACE RESEARCH (space-Earth) S5.547 S5.548	
32-32.30 GHz	INTER-SATELLITE FIXED S5.547A RADIONAVIGATION SPACE RESEARCH (deep space)(space-Earth) S5.547 S5.547C S5.548	RADIONAVIGATION FIXED S5.547A SPACE RESEARCH (space-Earth) INTER-SATELLITE S5.547 S5.548	High density fixed links	FIXED to be reviewed at WRC-99. Space research (deep space) in some countries	RADIONAVIGATION FIXED S5.547A SPACE RESEARCH (space-Earth) INTER-SATELLITE S5.547 S5.548	
32.30-33 GHz	INTER-SATELLITE FIXED S5.547A RADIONAVIGATION S5.547 S5.547D S5.548	INTER-SATELLITE FIXED S5.547A RADIONAVIGATION S5.547 S5.548	High density fixed links	FIXED to be reviewed at WRC-99.	INTER-SATELLITE FIXED S5.547A RADIONAVIGATION S5.547 S5.548	
33-33.40 GHz	RADIONAVIGATION FIXED S5.547A S5.547 S5.547E	RADIONAVIGATION FIXED S5.547A INTER-SATELLITE	High density fixed links	FIXED to be reviewed at WRC-99.	RADIONAVIGATION FIXED S5.547A INTER-SATELLITE	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
		S5.547			S5.547	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
33.40-34.20 GHz	RADIOLOCATION S5.549	RADIOLOCATION S5.549	Motion sensors. Short range radar. Surveying measurement. and Defence systems.	EU2 EU27 This is a harmonised military band for radiolocation systems.	RADIOLOCATION S5.549	
34.20-34.70 GHz	RADIOLOCATION SPACE RESEARCH (deep space)(Earth-space) S5.549	RADIOLOCATION SPACE RESEARCH (Earth-space) S5.549	Motion sensors. Short range radar. Surveying measurement. and Defence systems.	EU2 EU27 This is a harmonised military band for radiolocation systems.	RADIOLOCATION SPACE RESEARCH (Earth-space)	
34.70-35.20 GHz	RADIOLOCATION Space Research S5.550 S5.549	RADIOLOCATION Space Research S5.550 S5.549	Surveying measurement. and Short range radar. Motion sensors. Defence systems.	EU2 EU27 This is a harmonised military band for radiolocation systems.	RADIOLOCATION Space Research	
35.20-35.5GHz	METEOROLOGICAL AIDS RADIOLOCATION S5.549	METEOROLOGICAL AIDS RADIOLOCATION S5.549	Short range radar. Defence systems.	EU2 EU27 This is a harmonised military band for radiolocation systems.	METEOROLOGICAL AIDS RADIOLOCATION	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
35.5-36 GHz	EARTH EXPLORATION-SATELLITE (active) METEOROLOGICAL AIDS RADIOLOCATION SPACE RESEARCH (active) S5.549 S5.551A	EARTH EXPLORATION-SATELLITE (active) METEOROLOGICAL AIDS RADIOLOCATION SPACE RESEARCH (active) S5.549 S5.551A	Satellite rain radars Defence systems	EU2 EU27 This is a harmonised military band for radiolocation systems.	EARTH EXPLORATION-SATELLITE (active) METEOROLOGICAL AIDS RADIOLOCATION SPACE RESEARCH (active) S5.551A	
36-37 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.149	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) Radio Astronomy S5.149	Snow, ice and precipitation measurements. Future non civil fixed and mobile systems. Defence systems.	EU27 This is a harmonised military band for fixed and mobile systems. Hydrogen cyanide and Hydroxyl lines 36.43-36.5 GHz.	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) Radio Astronomy S5.149	
37-37.50 GHz	FIXED MOBILE SPACE RESEARCH (space-Earth)	FIXED SPACE RESEARCH (space-Earth)	Low and medium capacity fixed links for civil and non civil applications. Sub bands 37-37.142 GHz paired with 38.26-38.402 GHz for unplanned, uncoordinated use, subject to national decisions.	EU2 ERC Recommendation T/R 12-01	FIXED SPACE RESEARCH (space-Earth)	Radio Link,T/R12-01 37-38.17/38.31-39.5 GHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
37.50-38 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE SPACE RESEARCH (space-Earth) Earth Exploration-Satellite (space-Earth)	FIXED FIXED-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) Earth Exploration-Satellite (space-Earth)	Low and medium capacity fixed links for civil and non civil applications. Telecommunications satellites for fixed applications. Priority for civil networks.	EU2 ERC Recommendation T/R 12-01.	FIXED FIXED-SATELLITE (space-Earth) SPACE RESEARCH (space-Earth) Earth Exploration-Satellite (space-Earth)	Radio Link, T/R12-01 37-38.17/38.31-39.5 GHz
38-39.50 GHz	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Earth Exploration-Satellite (space-to-Earth)	FIXED FIXED-SATELLITE (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)	Low and medium capacity fixed links for civil and non civil applications. Sub bands 37-37.142 GHz paired with 38.26-38.402 GHz for unplanned, uncoordinated use, subject to national decisions. Telecommunications satellites for fixed applications. Priority for civil networks.	EU2 ERC Recommendation T/R 12-01.	FIXED FIXED-SATELLITE (space-to-Earth) Earth Exploration-Satellite (space-to-Earth)	Radio Link, T/R12-01 37-38.17/38.31-39.5 GHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
39.50-40 GHz	<p>FIXED</p> <p>FIXED-SATELLITE (space-to-Earth)</p> <p>MOBILE</p> <p>MOBILE-SATELLITE (space-to-Earth)</p> <p>Earth Exploration-Satellite (space-to-Earth)</p>	<p>FIXED</p> <p>FIXED-SATELLITE (space-to-Earth)</p> <p>MOBILE</p> <p>MOBILE-SATELLITE (space-to-Earth)</p> <p>Earth Exploration-Satellite (space-to-Earth)</p>	<p>Possible band for broadband mobile systems.</p> <p>Shared civil and non civil allocation for future satellite and terrestrial systems.</p>	EU2	<p>FIXED</p> <p>FIXED-SATELLITE (space-to-Earth)</p> <p>MOBILE</p> <p>MOBILE-SATELLITE (space-to-Earth)</p> <p>Earth Exploration-Satellite (space-to-Earth)</p>	
40-40.50 GHz	<p>EARTH EXPLORATION-SATELLITE (Earth-to-space)</p> <p>FIXED</p> <p>FIXED-SATELLITE (space-to-Earth)</p> <p>MOBILE</p> <p>MOBILE-SATELLITE (space-to-Earth)</p> <p>SPACE RESEARCH (Earth-to-space)</p> <p>Earth Exploration-Satellite (space-to-Earth)</p>	<p>FIXED</p> <p>FIXED-SATELLITE (space-to-Earth)</p> <p>MOBILE</p> <p>MOBILE-SATELLITE ((space-to-Earth)</p> <p>SPACE RESEARCH (Earth-space)</p> <p>Earth Exploration-Satellite (space-to-Earth)</p>	<p>Possible band for broadband mobile systems.</p> <p>Shared civil and non civil allocation for future satellite and terrestrial systems.</p>	EU2	<p>FIXED</p> <p>FIXED-SATELLITE (space-to-Earth)</p> <p>MOBILE</p> <p>MOBILE-SATELLITE ((space-to-Earth)</p> <p>SPACE RESEARCH (Earth-space)</p> <p>Earth Exploration-Satellite (space-to-Earth)</p>	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
40.50-42.50 GHz	BROADCASTING BROADCASTING-SATELLITE FIXED Mobile S5.551B S5.551D	BROADCASTING BROADCASTING-SATELLITE FIXED S5.551B	Multipoint video distribution systems	ERC Decision ERC/DEC/(96)05 ERC Recommendation T/R 52-01	BROADCASTING BROADCASTING-SATELLITE FIXED S5.551B	MVDS=Multiple Video Distribution Systems. Test operation ongoing
42.50-43.50 GHz	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	Future civil fixed and mobile systems. Possible band for broadband mobile system. RA applications. Telecommunications satellites for fixed applications. Priority for civil networks.	Silicon monoxide lines and many other spectral lines in this band.	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE except Aeronautical Mobile RADIO ASTRONOMY S5.149	
43.50-45.50 GHz	MOBILE S5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE S5.554	MOBILE S5.553 MOBILE-SATELLITE Fixed-Satellite S5.554	Defence systems	EU27 This is a harmonised military band for satellite uplinks and mobile systems. Radionavigation envisaged in some countries.	MOBILE S5.553 MOBILE-SATELLITE Fixed-Satellite S5.554	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
45.50-47 GHz		MOBILE S5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION -SATELLITE S5.554			MOBILE S5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION -SATELLITE S5.554	
47-47.20 GHz	AMATEUR AMATEUR- SATELLITE	AMATEUR AMATEUR- SATELLITE			AMATEUR AMATEUR- SATELLITE	
47.20-48.50 GHz	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE S5.149 S5.340 S5.552A S5.555	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE Amateur S5.552A S5.555	Telecommunications satellites for fixed applications. Priority for civil networks. Feeder links for 40 GHz broadcasting satellites. ENG/OB is envisaged.	High altitude platform stations in the bands 47.2-47.5 GHz and 47.9-48.2 GHz.	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE Amateur S5.552A S5.555	
48.50-50.20 GHz		FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE RADIO ASTRONOMY S5.340 S5.555 S5.149	Low and medium capacity fixed links. Telecommunications satellites for fixed applications. Priority for civil networks. Feeder links for broadcasting satellites 48.5-49.2 GHz. RA applications. ENG/OB is envisaged.	EU17A Carbon monosulphide line 48.94-49.04 GHz.	FIXED FIXED-SATELLITE (Earth-to-space) S5.552 MOBILE RADIO ASTRONOMY S5.340 S5.555 S5.149	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
50.20-50.40 GHz	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340 S5.555A	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340	Passive applications		EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340	
50.40-51.40 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Mobile-Satellite (Earth-to-space)	FIXED FIXED-SATELLITE (Earth-to-space) Mobile-Satellite (Earth-to-space)	Shared civil and non civil allocation for future satellite and terrestrial systems.	EU2	FIXED FIXED-SATELLITE (Earth-to-space) Mobile-Satellite (Earth-to-space)	
51.40-52.6GHz	FIXED MOBILE S5.556 S5.547	FIXED MOBILE RADIO ASTRONOMY S5.556 S5.547	High density fixed links.		FIXED MOBILE RADIO ASTRONOMY S5.556 S5.547	
52.6-54.25 GHz	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340 S5.556	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340 S5.556	Passive applications.	Atmospheric temperature sounding	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) S5.340 S5.556	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
54.25-55.78 GHz	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE S5.556A SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	Passive applications.	Atmospheric temperature sounding.	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	Radio Link planned. 55.20-58.20 GHz
55.78-56.9 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 SPACE RESEARCH (passive) S5.547	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A SPACE RESEARCH (passive) S5.547 S5.558	Passive applications. Low and medium capacity fixed links (1.47 GHz forward/return separation): intended for support infrastructure for large scale mobile networks.	EU21 <u>ERC Recommendation</u> T/R 22-03. Atmospheric temperature sounding.	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A SPACE RESEARCH (passive) S5.547 S5.558	Radio Link planned. 55.20-58.20 GHz
56.9-57.0 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 SPACE RESEARCH (passive) S5.547 S5.557	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE S5.558 SPACE RESEARCH (passive) S5.547	Passive applications. Low power short range fixed and mobile systems (frequency planning not required).	EU21 <u>ERC Recommendation</u> T/R 22-03. Atmospheric temperature sounding.	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE S5.558 SPACE RESEARCH (passive) S5.547	Radio Link planned. 55.20-58.20 GHz

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
57-58.2 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 SPACE RESEARCH (passive) S5.557 S5.547	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 SPACE RESEARCH (passive) S5.547	Passive applications	Atmospheric temperature sounding	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 SPACE RESEARCH (passive) S5.547	Radio Link planned. 55.20-58.20 GHz
58.20-59 GHz	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.556 S5.547	EARTH EXPLORATION-SATELLITE (passive) FIXED RADIO ASTRONOMY SPACE RESEARCH (passive) S5.547	Passive applications. High density fixed links.	EU6 EU19 Atmospheric temperature sounding.	EARTH EXPLORATION-SATELLITE (passive) FIXED RADIO ASTRONOMY SPACE RESEARCH (passive) S5.547	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
59-59.3 GHz	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 RADIOLOCATION S5.559	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 RADIOLOCATION S5.559	Passive applications. Defence systems.	EU2 EU27 Atmospheric temperature sounding. The band 59-61 GHz is a harmonised military band for fixed, mobile and radiolocation systems.	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) FIXED INTER-SATELLITE S5.556A MOBILE S5.558 RADIOLOCATION S5.559	
59.3-62 GHz	FIXED INTER-SATELLITE MOBILE S5.558 RADIOLOCATION S5.559 S5.138	FIXED INTER-SATELLITE RADIOLOCATION S5.558	Defence systems. Cordless local area networks. ISM 61-61.5 GHz. <u>SRD</u> Low and medium capacity fixed links (1.47 GHz forward/return separation based on plan for 54.25-57.2 GHz).	EU2 EU27 ERC Recommendations CEPT/ERC/REC 70-03 & T/R 22-03. The band 59-61 GHz is a harmonised military band for fixed, mobile and radiolocation systems.	FIXED INTER-SATELLITE RADIOLOCATION S5.558	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
62-63 GHz		INTER-SATELLITE MOBILE RADIOLOCATION S5.558	Short range non civil radiolocation. Broadband mobile systems for connection to IBCN paired with 65-66 GHz.	EU2 ERC Recommendation T/R 22-03	INTER-SATELLITE MOBILE RADIOLOCATION S5.558	
63-64 GHz		INTER-SATELLITE MOBILE RADIOLOCATION S5.558	Short range non civil radiolocation. Road transport and traffic telematics (RTTT vehicle to road/vehicle to vehicle).	Decision ERC/DEC/(92)02 ERC Recommendations CEPT/ERC/REC 70-03 & T/R 22-03.	INTER-SATELLITE MOBILE RADIOLOCATION S5.558	
64-65 GHz	FIXED INTER-SATELLITE MOBILE except aeronautical mobile S5.556 S5.547	FIXED INTER-SATELLITE MOBILE except aeronautical mobile S5.556 S5.547	High density fixed links.		FIXED INTER-SATELLITE MOBILE except aeronautical mobile S5.556 S5.547	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
65-66 GHz	EARTH EXPLORATION-SATELLITE SPACE RESEARCH INTER-SATELLITE MOBILE except aeronautical mobile FIXED S5.547	EARTH EXPLORATION-SATELLITE SPACE RESEARCH INTER-SATELLITE FIXED MOBILE except aeronautical mobile S5.547	High density fixed links. Broadband mobile systems for connection to IBCN paired with 62-63 GHz.	ERC Recommendation T/R 22-03	EARTH EXPLORATION-SATELLITE SPACE RESEARCH INTER-SATELLITE FIXED MOBILE except aeronautical mobile S5.547	
66-71 GHz	MOBILE S5.553 S5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE INTER-SATELLITE S5.554	MOBILE S5.553 S5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE INTER-SATELLITE S5.554	Future civil systems.		MOBILE S5.553 S5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE INTER-SATELLITE S5.554	
71-74 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) S5.149 S5.556	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY S5.556	Defence systems. RA applications	EU27 This is a harmonised military band. Pairing of this band with 81-84 GHz is envisaged in military systems. RA: Formaldehyde line 72.77-72.91 GHz.	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY S5.556	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
74-75.50 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Space Research (space-to-Earth)	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Space Research (space-to-Earth)	Future civil systems.		FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Space Research (space-to-Earth)	
75.50-76 GHz	AMATEUR AMATEUR-SATELLITE Space Research (space-to-Earth)	AMATEUR AMATEUR-SATELLITE Space Research (space-to-Earth)			AMATEUR AMATEUR-SATELLITE Space Research (space-to-Earth)	
76-78 GHz	RADIOLOCATION Amateur Amateur-Satellite Space Research (space-to-Earth) S5.560	RADIOLOCATION Amateur Amateur-Satellite Space Research (space-to-Earth)	Civil radiolocation. 76-77 GHz RTTT (Radar).	EU2 Decision ERC/DEC/(92)02 ERC Recommendation CEPT/ERC/REC 70-03	RADIOLOCATION Amateur Amateur-Satellite Space Research (space-to-Earth)	
78-81 GHz		RADIOLOCATION Amateur Amateur-Satellite Earth Exploration-Satellite (active) Space Research (space-Earth) S5.560	Civil and non civil radiolocation.	EU2	RADIOLOCATION Amateur Amateur-Satellite Earth Exploration-Satellite (active) Space Research (space-Earth) S5.560	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
81-84 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth) Space Research (space-Earth)	FIXED FIXED-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth) Space Research (space-Earth)	Defence systems.	EU27 This is a harmonised military band. Pairing of this band with 71-74 GHz is envisaged in military systems.	FIXED FIXED-SATELLITE (space-Earth) MOBILE MOBILE-SATELLITE (space-Earth) Space Research (space-Earth)	
84-86 GHz	FIXED MOBILE BROADCASTING BROADCASTING-SATELLITE S5.561	FIXED MOBILE BROADCASTING BROADCASTING-SATELLITE S5.561			FIXED MOBILE BROADCASTING BROADCASTING-SATELLITE S5.561	
86-92 GHz	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	Passive applications.	RA: Continuum and spectral line measurements.	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) S5.340	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
92-94 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION S5.149 S5.556	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION Radio Astronomy S5.149 S5.556	Short range radar.	EU2 Diazenylium line and numerous other spectral lines.	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION Radio Astronomy S5.149 S5.556	
94-94.1 GHz	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.562	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.562	Short range radar. Cloud profiler radar.	EU2	RADIOLOCATION EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) S5.562	
94.1 –95 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION S5.556	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION S5.556	Short range radar.	EU2	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIOLOCATION S5.556	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
95-100 GHz	MOBILE S5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION -SATELLITE Radiolocation S5.149 S5.554 S5.555	MOBILE S5.553 MOBILE-SATELLITE RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION -SATELLITE Radiolocation S5.149 S5.554 S5.555	RA applications.	EU2 Multiple Observations. Continuum observations.	MOBILE S5.553 MOBILE-SATELLITE RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION -SATELLITE Radiolocation S5.149 S5.554 S5.555	
100-102 GHz	EARTH EXPLORATION- SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.341	EARTH EXPLORATION- SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.341			EARTH EXPLORATION- SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) S5.341	
102-105 GHz	FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.341	FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.341			FIXED FIXED-SATELLITE (space-Earth) MOBILE S5.341	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
105-116 GHz	<p>EARTH EXPLORATION-SATELLITE(passive)</p> <p>RADIO ASTRONOMY</p> <p>SPACE RESEARCH(passive)</p> <p>S5.340 S5.341</p>				<p>EARTH EXPLORATION-SATELLITE(passive)</p> <p>RADIO ASTRONOMY</p> <p>SPACE RESEARCH(passive)</p> <p>S5.340 S5.341</p>	
116-119.98 GHz	<p>EARTH EXPLORATION-SATELLITE(passive)</p> <p>FIXED</p> <p>INTER-SATELLITE</p> <p>MOBILE S5.558</p> <p>SPACE RESEARCH(passive)</p> <p>S5.138 S5.341</p>				<p>EARTH EXPLORATION-SATELLITE(passive)</p> <p>FIXED</p> <p>INTER-SATELLITE</p> <p>MOBILE S5.558</p> <p>SPACE RESEARCH(passive)</p> <p>S5.138 S5.341</p>	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
119.98-120.02 GHz	<p>EARTH EXPLORATION-SATELLITE(passive)</p> <p>FIXED</p> <p>INTER-SATELLITE</p> <p>MOBILE S5.558</p> <p>SPACE RESEARCH(passive)</p> <p>Amateur</p> <p>S5.138 S5.341</p>				<p>EARTH EXPLORATION-SATELLITE(passive)</p> <p>FIXED</p> <p>INTER-SATELLITE</p> <p>MOBILE S5.558</p> <p>SPACE RESEARCH(passive)</p> <p>Amateur</p> <p>S5.138 S5.341</p>	
120.02-126 GHz	<p>EARTH EXPLORATION-SATELLITE(passive)</p> <p>FIXED</p> <p>INTER-SATELLITE</p> <p>MOBILE S5.558</p> <p>SPACE RESEARCH(passive)</p> <p>S5.138 S5.341</p>				<p>EARTH EXPLORATION-SATELLITE(passive)</p> <p>FIXED</p> <p>INTER-SATELLITE</p> <p>MOBILE S5.558</p> <p>SPACE RESEARCH(passive)</p> <p>S5.138 S5.341</p>	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
126-134 GHz	FIXED INTER-SATELLITE MOBILE S5.558 RADIOLOCATION S5.559				FIXED INTER-SATELLITE MOBILE S5.558 RADIOLOCATION S5.559	
134-142 GHz	MOBILE S5.553 MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE Radiolocation S5.149 S5.340 S5.554 S5.555				MOBILE S5.553 MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE Radiolocation S5.149 S5.340 S5.554 S5.555	
142 –144 GHz	AMATEUR AMATEUR-SATELLITE				AMATEUR AMATEUR-SATELLITE	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
144-149 GHz	RADIOLOCATION Amateur Amateur-Satellite S5.149 S5.555				RADIOLOCATION Amateur Amateur-Satellite S5.149 S5.555	
149-150 GHz	FIXED FIXED-SATELLITE(space-to-Earth) MOBILE				FIXED FIXED-SATELLITE(space-to-Earth) MOBILE	
150-151 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED FIXED-SATELLITE(space-to-Earth) MOBILE SPACE RESEARCH(passive) S5.149 S5.385				EARTH EXPLORATION-SATELLITE(passive) FIXED FIXED-SATELLITE(space-to-Earth) MOBILE SPACE RESEARCH(passive) S5.149 S5.385	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
151-156 GHz	FIXED FIXED-SATELLITE(space-to-Earth) MOBILE				FIXED FIXED-SATELLITE(space-to-Earth) MOBILE	
156-158 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED FIXED-SATELLITE(space-to-Earth) MOBILE				EARTH EXPLORATION-SATELLITE(passive) FIXED FIXED-SATELLITE(space-to-Earth) MOBILE	
158-164 GHz	FIXED FIXED-SATELLITE(space-to-Earth) MOBILE				FIXED FIXED-SATELLITE(space-to-Earth) MOBILE	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
164-168 GHz	EARTH EXPLORATION-SATELLITE(space-to-Earth) RADIO ASTRONOMY SPACE RESEARCH (passive)				EARTH EXPLORATION-SATELLITE(space-to-Earth) RADIO ASTRONOMY SPACE RESEARCH (passive)	
168-170 GHz	FIXED MOBILE				FIXED MOBILE	
170-174.5 GHz	FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385				FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
174.5 –176.5 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED INTER-SATELLITE MOBILE S5.558 SPACE RESEARCH(passive) S5.138 S5.341				EARTH EXPLORATION-SATELLITE(passive) FIXED INTER-SATELLITE MOBILE S5.558 SPACE RESEARCH(passive) S5.138 S5.341	
176.5-182 GHz	FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385				FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385	
182-185 GHz	EARTH EXPLORATION-SATELLITE(passive) RADIO ASTRONOMY SPACE RESEARCH(passive)				EARTH EXPLORATION-SATELLITE(passive) RADIO ASTRONOMY SPACE RESEARCH(passive)	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
	S5.340 S5.563				S5.340 S5.563	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
185-190 GHz	FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385				FIXED INTER-SATELLITE MOBILE S5.558 S5.149 S5.385	
190-200 GHz	MOBILE MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE S5.341 S5.554				MOBILE MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE S5.341 S5.554	
200-202 GHz	EARTH EXPLORATION-SATELLITE(passive) FIXED MOBILE SPACE RESEARCH(passive)				EARTH EXPLORATION-SATELLITE(passive) FIXED MOBILE SPACE RESEARCH(passive)	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
	S5.341				S5.341	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
202-217 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE S5.341				FIXED FIXED-SATELLITE (Earth-to-space) MOBILE S5.341	
217-231 GHz	EARTH EXPLORATION-SATELLITE(passive) RADIO ASTRONOMY SPACE RESEARCH(passive) S5.340 S5.341				EARTH EXPLORATION-SATELLITE(passive) RADIO ASTRONOMY SPACE RESEARCH(passive) S5.340 S5.341	
231-235 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Radiolocation				FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Radiolocation	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
235-238 GHz	<p>EARTH EXPLORATION-SATELLITE(passive)</p> <p>FIXED</p> <p>FIXED-SATELLITE (Earth-to-space)</p> <p>MOBILE</p> <p>SPACE RESEARCH(passive)</p>				<p>EARTH EXPLORATION-SATELLITE(passive)</p> <p>FIXED</p> <p>FIXED-SATELLITE (Earth-to-space)</p> <p>MOBILE</p> <p>SPACE RESEARCH(passive)</p>	
238 –241 GHz	<p>FIXED</p> <p>FIXED-SATELLITE (Earth-to-space)</p> <p>MOBILE</p> <p>Radiolocation</p>				<p>FIXED</p> <p>FIXED-SATELLITE (Earth-to-space)</p> <p>MOBILE</p> <p>Radiolocation</p>	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
241-248 GHz	RADIOLOCATION Amateur Amateur-Satellite S5.138				RADIOLOCATION Amateur Amateur-Satellite S5.138	
248-250 GHz	AMATEUR AMATEUR-SATELLITE				AMATEUR AMATEUR-SATELLITE	
250-252 GHz	EARTH EXPLORATION-SATELLITE(passive) SPACE RESEARCH(passive) S5.149 S5.555				EARTH EXPLORATION-SATELLITE(passive) SPACE RESEARCH(passive) S5.149 S5.555	

Norway

Frequency band	RR Region 1 allocation and relevant footnotes	European Common Allocation	Major Utilisation	Notes	Norwegian Allocation	Norwegian Utilisation
252-265 GHz	MOBILE S5.553 MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE S5.149 S5.385 S5.554 S5.555 S5.564				MOBILE S5.553 MOBILE-SATELLITE RADIO-NAVIGATION RADIO-NAVIGATION-SATELLITE S5.149 S5.385 S5.554 S5.555 S5.564	
265 –275 GHz	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY S5.149				FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY S5.149	
275-400 GHz	Not allocated S5.565				Not allocated S5.565	

