

Lower freq.	Higher freq.	Active/passive	Owner	Use	Instrument/equipment	Frequency		Time intervals	Location	Contact	Time of operation	Field updated	Comment	Nkom licencing information	Nkom licence timeperiod (if applicable)
0 Hz	25 Hz	Passive	PRIC	Geophysics study	Fluxgate magnetometer	5 Hz	0 W	continuous, receive only	Yellow River	Dr. Liu Yonghua (liuyonghua@pric.org.cn)	Since 2013	16.08.2013		Passive No licence required	Passive No licence required
0 Hz	2 Hz	Passive	PRIC	ULF study	Induction magnetometer	2 Hz	0 W	continuous, receive only	Yellow River		Since 2016	20.08.2016		Passive No licence required	
VLF (3-30 kHz)															
10 kHz	100 kHz	Passive	Tohoku University	Ionosphere	VLF/LF radio receiver	10 – 100 kHz	N/A	Continuous	Veksthuset	Fuminori Tsuchiya (tsuchiya@pparc.gp.tohoku.ac.jp)	Since march 2010	08.06.2016	RiS-ID3688	Passive No licence required	
MF (300-3000 kHz)															
414,000 kHz	414,000 kHz	Active	Kings Bay AS	Aviation navigation	NDB (non-directional (radio) beacon)	414,000 kHz		Continuous	NDB 78° 55' 57" N 11° 51' 23" E	AFIS KB airport@kingsbay.no		04.01.2023		Aviation Registered in Safire	
456.7 kHz	457.1 kHz	Active	NPI	Private safety equipment	Avalanche Beacon	457 kHz		Episodic / fieldtrips	Mobile	Head NPI at HeadNPI.Nya@npolar.no		15.03.2018	International standard	General authorization § 30(1) - Homing devices	
456.7 kHz	457.1 kHz	Active	AWIPEV	Private safety equipment	Avalanche Beacon	457 KHz		Episodic / fieldtrips	Mobile	Leader AWIPEV (stationleader@awihev.eu)		02.06.2010	International standard	General authorization § 30(1) - Homing devices	
456.7 kHz	457.1 kHz	Active	NMA	Private safety equipment	Avalanche Beacon	457 KHz + 869.8 Mhz	5 mW ERP	Episodic / fieldtrips	Mobile	ylbi@kartverket.no		01.06.2010	International standard	General authorization § 30(1) - Homing devices	NA
1 MHz	20 MHz	Passive	CNR/UK		GPS TEC Scintillation receiver (GSV4004B)	1-30 MHz	None		Dirigibile Italia			14.11.2010	ARCFAC V project. We are looking for more info	Passive No licence required	
1MHz	20 MHz	Active/passive	UiT	Space Physics / Space Weather	Ionosonde	1-20 MHz	EIRP (peak) 796 W	Continouous	Gruvebadet	Magnar G. Johnsen (magnar.g.johnsen@uit.no), Njål Gulbrandsen (njal.gulbrandsen@uit.no)	Since 2020		RiS ID 11105	Nkom licence nr. 1005109	31.12.2030

N/A	N/A	Passive	UiT	Geomagnetism	Magnetometer	N/A	N/A	Continuous	Research area behind Ungkarshemen	Magnar G. Johnsen (magnar.g.johnsen@uit.no)	Since 1966		RiS ID 6083	N/A	N/A
HF (3-30 MHz)															
VHF (30-300 MHz)															
32 MHz	32 MHz	Passive	UiT	Space weather	Riometer	32 MHz	receiving	Continuous	Tundra behind Sverdrup, close to mining accident	MagnarG. Johnsen (magnar.g.johnsen@uit.no), Njal Gulbrandsen (njal.gulbrandsen@uit.no)	since 2013		RiS ID 6696	Passive No licence required	Passive No licence required
38.2 MHz	38.2 MHz	Passive	PRIC	Ionospheric absorption	Imaging Riometer	38.2 MHz	0 W	continuous, receive only	Yellow River	Dr. Fang He (hefang@pric.org.cn)	Since 1991	01.08.2019		Passive No licence required	
40 MHz	40 MHz	Passive	UiT	Space Weather	Riometer	40 MHz	receiving	Continuous	Tundra behind Sverdrup, close to mining accident	Magnar G. Johnsen (magnar.g.johnsen@uit.no), Njal Gulbrandsen (njal.gulbrandsen@uit.no)	Since 2015		RiS ID 6696	N/A	N/A
87,500 MHz	108,000 MHz	Active	Kings Bay AS	FM Radio		91,300 MHz	35 W	Continuous	Amsterdam 78° 55' 27" N 11° 56' 02" E	IT-Manager KB it@kingsbay.no	1984	04.01.2023	NRK P1	Nkom licence no. 1005235	25.04.22 - 32.12.26
87,500 MHz	108,00 MHz	Active	Kings Bay AS	FM Radio		94,800 MHz	35 W	Continuous	Amsterdam 78° 55' 27" N 11° 56' 02" E	IT-Manager KB it@kingsbay.no	1984	04.01.2023	NRK P3	Nkom licence no. 1005235	25.04.22 - 32.12.26
118,000 MHz	136,992 MHz	Active	Kings Bay AS	Aviation communication	Main Aviation VHF Radio	123,900 MHz	16,9897 dBW	Periodically	Zeppelin 78° 54' 26" N 11° 53' 08" E	AFIS KB airport@kingsbay.no		04.01.2023		Nkom licence no. 17631	
118,000 MHz	136,992 MHz	Active	Kings Bay AS	Aviation communication	Backup Aviation VHF Radio	121,500 MHz or 123,900 MHz	16,9897 dBW	Periodically	Airport Tower 78° 55' 44" N 11° 52' 17" E	AFIS KB airport@kingsbay.no		04.01.2023		Nkom licence no. 17631	
118,000 MHz	136,992 MHz	Active	Kings Bay AS	Aviation communication	Handheld Aviation VHF Radio	121,500 MHz or 123,900 MHz	5 W	Periodically	Airport Tower / Mobile 78° 55' 44" N 11° 52' 17" E	AFIS KB airport@kingsbay.no		04.01.2023			

118,000 MHz	136,992 MHz	Active	Kings Bay AS	Aviation communication	Aviation VHF Radio	123,900 MHz	10 W	Periodically	Mobile / Fire engine	AFIS KB airport@kingsbay.no		04.01.2023		Not known by Nkom Licence required	
118.1 MHz	118.1 MHz	Active	Kings Bay	Aviation communication	Aviation VHF radio	118.1 MHz						02.01.2023	Unknown	Nkom licence no. 6382 Still in use?	Nkom licence no. 6382 Still in use?
121,500 MHz	406,000 MHz	Active	Kings Bay AS	Maritime Safety	Emergency beacon & EPIRB	121,500 MHz and 406,000 MHz	50mW	Emergency	Teisten	Harbourmaster harbour@kingsbay.no		04.01.2023	Call Sign: LF4127 MMSI: 258156500	Telenor Kystradio licence: 82007	
121,500 MHz	406,000 MHz	Active	Kings Bay AS	Maritime Safety	Emergency beacon & EPIRB	121,500 MHz and 406,000 MHz	50mW	Emergency	Red Beluga	Harbourmaster harbour@kingsbay.no		04.01.2023	Call Sign: LF5414 MMSI: 257508500	Telenor Kystradio licence: 205434	
121.5 MHz	121.5 MHz	Active	NPI	Station safety equipment	Emergency beacon & EPIRB	121.5 MHz	50mW	Episodic / Random use	Mobile	Head NPI at HeadNPI.Nya@npolar.no		13/5/2019	PLB. Licence No. 206102 and 206103	Not known by Nkom Licence required. Land or maritime?	Not known by Nkom Licence required. Land or maritime?
121.9 MHz	121.9 MHz	Active	Kings Bay	Aviation communication	Aviation VHF radio	121.9 MHz						02.01.2023	Unknown	Nkom licence no. 6382 Still in use?	Nkom licence no. 6382 Still in use?
136,000 MHz	174,000 MHz	Active	Kings Bay AS	Handheld VHF DMR/PMR	Motorla DP4000 VHF	156,125 - 171,900 MHz	1-5 W	Frequently	Mobile	IT-Manager KB it@kingsbay.no	2020	04.01.2023	Radio connected KB DMR System	Nkom licence no. 17226	11.03.22 -
136,000 MHz	174,000 MHz	Active	Kings Bay AS	Mobile VHF DMR/PMR	Motorla DM4000 VHF	156,125 - 171,900 MHz	1-25 W	Frequently	Mobile	IT-Manager KB it@kingsbay.no	2020	04.01.2023	Radio connected KB DMR System	Nkom licence no. 17226	11.03.22 -
140 MHz	180 MHz	Active	KOPRI	Station communication equipment	Radio	140-180 MHz		Episodic / Random use	DASAN	Mr. Dongmin Jin		30.09.2010		Not known by Nkom Licence required. No general authorization for this band in Norway.	Not known by Nkom Licence required. No general authorization for this band in Norway.
150 MHz	150 MHz	Passive	Nagoya University	Ionosphere	Beacon receiver	150 MHz	N/A	Continuous	Veksthuset (Mobile)	Yuichi Otsuka (otsuka@isee.nagoya-u.ac.jp)	2017-2020	27.10.2017		Passive No licence required	
154,000 MHz	163,000 MHz	Active	Kings Bay AS	Maritime communication	Portable VHF transceiver	154,000 - 163,000 MHz	2 W	Emergency	Teisten	Harbourmaster harbour@kingsbay.no		04.01.2023	Call Sign: LF4127 MMSI: 258156500	Telenor Kystradio licence: 82007	

154.48 75 MHz	154.512 5 MHz	Active	AWIPEV	Station communication equipment	Land VHF radio	154.500 MHz (25 kHz simplex)		Might send at any time	AWIPEV (Mobile)	Leader AWIPEV (stationleader@awipev.eu)		03.12.2018		Nkom licence no. 15593	Nkom licence no. 15593
154.81 25 MHz	154.837 5 MHz	Active	AWIPEV	Station communication equipment	Land VHF radio	154.825 MHz (25 kHz simplex)		Might send at any time	AWIPEV (Mobile)	Leader AWIPEV (stationleader@awipev.eu)		03.12.2018		Nkom licence no. 15593	Nkom licence no. 15593
155.88 75 MHz	155.912 5 MHz	Active	Maritime Robotics	Station communication	VHF radio	155.900 MHz (25 kHz simplex)		Periodically	Mobil			03.12.2018		Nkom licence no. 15664 Still in use?	Nkom licence no. 15664 Still in use?
156 MHz	174 MHz	Active	NP	Maritime communication	Jotron VHF radio (fixed in boat)	156 - 174 MHz	25 W	Periodically	Boats NORA and DANA	Head NPI at HeadNPI.Nya@npolar.no		01.05.2017	Licence No. 206102 and 206103	Telenor Kystradio licence required	Telenor Kystradio licence required
156,000 MHz	174,000 MHz	Active	Kings Bay AS	Maritime Safety	AIS-SART	161,975 MHz	5W	Continuous	Teisten	Harbourmaster harbour@kingsbay.no		04.01.2023	Call Sign: LF4127 MMSI: 258156500	Telenor Kystradio licence: 82007	
156,025 MHz	163,275 MHz	Active	Kings Bay AS	Maritime communication	Maritime VHF Radio	156,025 - 163,275 MHz	25 W	Periodically	Airport Tower 78° 55' 44" N 11° 52' 17" E	AFIS KB airport@kingsbay.no		04.01.2023			
156,025 MHz	162,000 MHz	Active	Kings Bay AS	Maritime communication	Maritime VHF / DSC Radio	156,025 - 162,000 MHz	25 W	Periodically	Teisten	Harbourmaster harbour@kingsbay.no		04.01.2023	Call Sign: LF4127 MMSI: 258156500	Telenor Kystradio licence: 82007	
156,025 MHz	163,275 MHz	Active	Kings Bay AS	Maritime communication	Maritime VHF / DSC Radio	156,025 - 163,275 MHz	25 W	Periodically	Red Beluga	Harbourmaster harbour@kingsbay.no		04.01.2023	Call Sign: LF5414 MMSI: 257508500	Telenor Kystradio licence: 205434	
156,1125 MHz	160,7375 MHz	Active	Kings Bay AS	Maritime communication	Maritime VHF CH 62	160,725 (25 kHz duplex - UL) 156,125 (25 kHz duplex - DL)		Frequently		IT-Manager KB it@kingsbay.no		04.01.2023	Frequency used by KB		
156,2875 MHz	156,3125 MHz	Active	Kings Bay AS	Maritime communication	Maritime VHF CH 6	156,300 (25 kHz simplex)		Frequently		IT-Manager KB it@kingsbay.no		04.01.2023	Frequency used by KB		
156,4875 MHz	156,5125 MHz	Active	Kings Bay AS	Maritime communication	Maritime VHF CH 10	153,500 (25 kHz simplex)		Frequently		IT-Manager KB it@kingsbay.no		04.01.2023	Frequency used by KB		
156,5875 MHz	156,6125 MHz	Active	Kings Bay AS	Maritime communication	Maritime VHF CH 12	156,600 (25 kHz simplex)		Frequently		IT-Manager KB it@kingsbay.no		04.01.2023	Frequency used by KB	Nkom licence no. 6382	
156,7875 MHz	156,8125 MHz	Active	Kings Bay AS	Maritime emergency communication	Maritime VHF CH 16	156,800 (25 kHz simplex)		Frequently		IT-Manager KB it@kingsbay.no		04.01.2023	Frequency used by KB	Nkom licence no. 6382	

156.73 75 MHz	156.762 5 MHz	Active	PRIC	Station communication equipment	Motorola VHF GP338	156.750 MHz (25 kHz simplex)	5 W	Episodic/Fieldtrips	Mobile/Yellow River	Tian Wenjia (tianwenjia@pric.org.cn)	From June to September	01.02.20 18	Telenor Kystradio licence required VHF Maritime mobile band CH 15 - 156.750 MHz (25 kHz simplex)	Telenor Kystradio licence required VHF Maritime mobile band CH 15 - 156.750 MHz (25 kHz simplex)
159.98 75 MHz	160.012 5 MHz	Active	NPI	Repeater	Land VHF - CH 1 Repeater	160.000 MHz (25 kHz duplex - DL) 168.000 MHz (25 kHz duplex - UL)	25W	Continuous	Schetelig E429740, N8763920	Head NPI at HeadNPI.Nya@npolar.no		03.12.20 18	Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
160 MHz	168.025 MHz	Active	NPI	Station communication equipment	Radio VHF Channel 1,3 & MAR16	160.000- 168.025MHz		Continuous	Sverdrup E434190, N8763170	Head NPI at HeadNPI.Nya@npolar.no		14.12.20 17	Telenor Kystradio licence required VH F Maritime mobile band	Telenor Kystradio licence required VH F Maritime mobile band
160.01 25 MHz	160.037 5 MHz	Active	NPI	Repeater	Land VHF - CH 3 Repeater	160.025 MHz (25 kHz duplex - DL) 168.025 MHz (25 kHz duplex - UL)	25W	Continuous	Zeppelin E433140, N8761410	Head NPI at HeadNPI.Nya@npolar.no		03.12.20 18	Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
160.03 75 MHz	160.062 5 MHz	Active	NPI	Station communication equipment	Land VHF - CH 5	160.050 MHz (25 kHz simplex)	1W	Periodic, field season	Mobile	Head NPI at HeadNPI.Nya@npolar.no		03.12.20 18	Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
160.08 75 MHz	160.112 5 MHz	Active	NPI	Station communication equipment	Land VHF - CH 6	160.100 MHz (25 kHz simplex)	1W	Sporadically use, field season	Mobile	Head NPI at HeadNPI.Nya@npolar.no		03.12.20 18	Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
161.96 25 MHz	161.987 5 MHz	Active	NPI	Sio Smartfinder	AIS channel 1	161.975 MHz		Periodically	Mobile	Head NPI at HeadNPI.Nya@npolar.no		14.12.20 17	General authorizati on § 29 - AIS- SART on vessels in distress	
162.01 25 MHz	162.037 5 MHz	Active	NPI	Sio Smartfinder	AIS channel 2	162.025 MHz		Periodically	Mobile	Head NPI at HeadNPI.Nya@npolar.no		14.12.20 17	General authorizati on § 29 - AIS-	

														SART on vessels in distress	
161.18 75 MHz	161.212 5 MHz	Active	Kings Bay	Station communication equipment	Land VHF radio	161.200 (25 kHz simplex)		Always	Mobile			03.12.20 18	Unknown	Nkom licence no. 6382 Still in use?	Nkom licence no. 6382 Still in use?
162 MHz	170 MHz	Active	CNR	Station communication equipment	For land VHF radio	162-170 MHz	10 W	Might send at any time	Dirigibile Italia (mobile)	stationleader.arctic@cnr.it		01.01.20 23			
162 MHz	170 MHz	Active	CNR	Land VHF radio	Land VHF radio (8x)	162-170 MHz		Might send at any time	Dirigibile Italia (mobile)	stationleader.arctic@cnr.it		01.01.20 23			
162.43 75 MHz	162.462 5 MHz	Active	Gouvernor Svalbard	Repeater	Land VHF	162.450MHz (25 kHz duplex - UL) 170.450 MHz (25 kHz duplex - DL)		Continuous	Zeppelin E433140, N8761410	Head NPI at HeadNPI.Nya@npolar.no				Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
163,88 75 MHz	171,887 5 MHz	Active	Kings Bay AS	KB DMR System	BaseStation 1	171,900 (25 kHz duplex - DL) 163,900 (25 kHz duplex - UL)	10 W	Continuous	Renseverket 78° 55' 42" N 11° 54' 58" E	IT-Manager KB it@kingsbay.no	2020	04.01.20 23		Nkom licence no. 17226	11.03.22 -
163,98 75 MHz	170,987 5 MHz	Active	Kings Bay AS	KB DMR System	BaseStation 3	172,000 (25 kHz duplex - DL) 164,000 (25 kHz duplex - UL)	10 W	Continuous	Renseverket 78° 55' 42" N 11° 54' 58" E	IT-Manager KB it@kingsbay.no	2020	04.01.20 23		Nkom licence no. 6382	
164,48 75 MHz	172,487 5 MHz	Active	Kings Bay AS	KB DMR System	BaseStation 2	172,500 (25 kHz duplex - DL) 164,500 (25 kHz duplex - UL)	10 W	Continuous	Renseverket 78° 55' 42" N 11° 54' 58" E	IT-Manager KB it@kingsbay.no	2020	04.01.20 23		Nkom licence no. 17226	11.03.22 -
164,98 75 MHz	164,112 5 MHz	Active	Kings Bay AS	Station communication equipment	PMR Backup Channel	164,100 (25 kHz simplex)		Frequently		IT-Manager KB it@kingsbay.no	2020	04.01.20 23	Frequency used by KB	Nkom licence no. 6382	
164.33 75 MHz	164.362 5 MHz	Active	NMA	Station communication equipment	Land VHF radio	164.350 MHz (25 kHz duplex - UL) 172.350 MHz (25 kHz duplex - DL)	< 5W	Always	Mobile	ylbi@kartverket.no		05.08.20 19		Nkom licence no. 16020	Nkom licence no. 16020
165.48 75 MHz	165.512 5 MHz	Active	AWIPEV	Station communication equipment	Land VHF radio	165,5 MHz (25 kHz duplex - UL) 173,5 MHz (25 kHz duplex - DL)		Might send at any time	AWIPEV (Mobile)	Leader AWIPEV (stationleader@awipev.eu)		03.12.20 18		Nkom licence no. 15593	Nkom licence no. 15593
167.98 75 MHz	168.012 5 MHz	Active	NPI	Station communication equipment	Land VHF - CH 1	168.000 MHz (25 kHz duplex - UL) 160.000 MHz (25 kHz duplex - DL)		Continuous	Mobile	Head NPI at HeadNPI.Nya@npolar.no		03.12.20 18		Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required

168.01 25 MHz	168.037 5 MHz	Active	NPI	Station communication equipment	Land VHF - CH 3	168.025 MHz (25 kHz duplex - UL) 160.025 MHz (25 kHz duplex - DL)		Continuous	Mobile	Head NPI at HeadNPI.Nya@npolar.no		03.12.20 18		Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
169 MHz	169 MHz	Active	CNR	Communication with devices onboard the tethered balloon	Radio gondola	169 MHz	5 mW	2-3 h/days during specific campaigns	Dirigibile Italia (mobile)	mauro.mazzola@cnr.it		01.01.20 23		Requested when needed	
170.43 75 MHz	170.462 5 MHz	Active	Gouvernor Svalbard	Repeater	Land VHF	170.450 MHz (25 kHz duplex - DL) 162.450MHz (25 kHz duplex - UL)		Continuous	Zeppelin E433140, N8761410	Head NPI at HeadNPI.Nya@npolar.no				Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
172.33 75 MHz	172.362 5 MHz	Active	NMA	Station communication equipment	Land VHF radio	172.350 MHz (25 kHz duplex - DL) 164.350 MHz (25 kHz duplex - UL)	< 5W	Always	Mobile	vlbi@kartverket.no		05.08.20 19		Nkom licence no. 16020	Nkom licence no. 16020
173.48 75 MHz	173.512 5 MHz	Active	AWIPEV	Station communication equipment	Land VHF radio	173,5 MHz (25 kHz duplex - DL) 165,5 MHz (25 kHz duplex - UL)		Might send at any time	AWIPEV (Mobile)	Leader AWIPEV (stationleader@awihev.eu)		03.12.20 18		Nkom licence no. 15593	Nkom licence no. 15593
200 MHz	200 MHz	Active	NPI	Glaciological measurements	GSSI GPR	200 MHz	Shielde d instrum ents, all radiatio n to the ground	Campaigns	Mobile	Jack Kohler (jack.kohler@npolar.no)				Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
UHF (300-3000 MHz)															
900 nm	900 nm	Active	NCAOR	Cloud hight	Ceilometer, laser	900 nm		Continous	Gruvebadet	Nuncio Murukesh (nuncio@ncaor.gov.in)	Since April 2015			Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
		Active	NPI	Station safety equipment	Emergency beacon & EPIRB	406.037 MHz	5W			Head NPI at HeadNPI.Nya@npolar.no		14.12.20 17		Personlig nødpeilesen der (PLB) eller EPIRB på båt	Personlig nødpeilesen der (PLB) eller EPIRB på båt
400 MHz	400 MHz	Passive	Nagoya University	Ionosphere	Beacon receiver	400 MHz	N/A	Continuous	Veksthuset	Yuichi Otsuka (otsuka@isee.nagoya- u.ac.jp)	2017- 2020	27.10.20 17		Passive No licence required	
400 MHz	406 MHz	Active	AWI	Met Sounding	meteorological radiosondes	400 MHz – 406 MHz (402.7 MHz mainly)	60 mW	Daily/diurnal and campaign based	Mobile	Marion Maturilli (Marion.Maturilli@awi.de)	Since 1991	02.01.20 23	MetAids operation. MetAids and MetSat services operate on a globally	Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required

													harmonized basis in the frequency band 400.15-406 MHz. awaiting responses from Nkom regarding licence.		
401.25 MHz	401.25 MHz	Active	CNES	Geodesy (satellite system)	DORIS Antenna/Beacon (T&R)	401.25 MHz	6.35 W	T&R, Continuous	Light sensitive cabin	Vincent Garcia (vincent.garcia@cnes.fr)		03.01.2023		Nkom licence no. 1002574	Nkom licence no. 1002574
400 MHz	400 MHz	Active	Kings Bay	Land surveying equipment	Land surveying equipment	400 MHz		Frequently	Portable Receiver			18.06.2013	Defective	Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
403,000 MHz	527,000 MHz	Active	Kings Bay AS	Mobile VHF PMR Fire and rescue	Motorla DM4000 UHF	438,500 (25 kHz simplex)	25 W	Frequently	Airport Tower 78° 55' 44" N 11° 52' 17" E	IT-Manager KB it@kingsbay.no	2020	04.01.2023			
403,000 MHz	527,000 MHz	Active	Kings Bay AS	Handheld VHF PMR Fire and rescue	Motorla DP2000 UHF	438,500 (25 kHz simplex)	4 W	Continuous	Mobile / Fire and rescue team	IT-Manager KB it@kingsbay.no		04.01.2023			
403,000 MHz	527,000 MHz	Active	Kings Bay AS	Mobile VHF PMR Fire and rescue	Motorla DM4000 UHF	438,500 (25 kHz simplex)	25 W	Frequently	Mobile / Fire engine	IT-Manager KB it@kingsbay.no		04.01.2023			
409.8375 MHz	409.8625 MHz	Active	Kings Bay / Yellow River	Station communication equipment	Land UHF mobile	409.850 MHz (25 kHz simplex)							Unknown	Nkom licence no. 13503 Still in use?	Nkom licence no. 13503 Still in use?
409.9125 MHz	409.9375 MHz	Active	Kings Bay / Yellow River	Station communication equipment	Land UHF mobile	409.925 MHz (25 kHz simplex)								Nkom licence no. 13503 Still in use?	Nkom licence no. 13503 Still in use?
430 MHz	480 MHz	Active	KOPRI	Station communication equipment	Radio UHF	430-480 MHz		Episodic / Random use	DASAN	Mr. Dongmin Jin		30.09.2010		Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
440.550 MHz	440.550 MHz	Active	NMA	Test	Differential GPS	440.55 MHz	< 500 mW eirp	Frequently	Radio transceiver at NMA, receiver is portable	Trine Abrahamsen, NMA		05.08.2019		General authorization § 24(2) -	NA

														Differential GPS	
441.7125 MHz	441.7375 MHz	Active	NPI	Radio control Cabel Car	Åkerstrøms radiostyring: Remotus 9000/8	441,725MHz (25 kHz)		Daily use	Zeppelin Cabel Car	Head NPI at HeadNPI.Nya@npolar.no		14.12.2017		General authorization § 36(5) - Remote control of cranes. Maximum permitted radiated power is 100 mW e.r.p. Maximum occupied bandwidth per channel is 25 kHz.	
458.5375 MHz	458.5625 MHz	Active	NPI	Repeater	UHF radio	458.550 MHz (25 kHz duplex - UL) 468.550 MHz (25 kHz duplex - DL)		Might send at any time	Zeppelin (E433150, N8761400)					Nkom licence no. 10773 Still in use?	Nkom licence no. 10773 Still in use?
468.5375 MHz	468.5625 MHz	Active	NPI	Repeater	UHF radio	468.550 MHz (25 kHz duplex - DL) 458.550 MHz (25 kHz duplex - UL)		Might send at any time	Zeppelin (E433150, N8761400)					Nkom licence no. 10773 Still in use?	Nkom licence no. 10773 Still in use?
490,000 MHz	518,000 MHz	Active	Kings Bay AS	Maritime communication	NAVTEX	156,025 - 162,000 MHz		Periodically	Teisten	Harbourmaster harbour@kingsbay.no		04.01.2023	Call Sign: LF4127 MMSI: 258156500	Telenor Kystradio licence: 82007	
500 MHz	500 MHz	Active	NPI	Glaciological measurements	GSSI GPR	200, 500, 900 MHz	Shielded instruments, all radiation to the ground	Campaigns	Mobile	Jack Kohler (jack.kohler@npolar.no)				Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
823 MHz	826 MHz	Active	Kings Bay	Microphones	Wireless microphone	823-826 Mhz	20 mW	Periodically	Mobile	IT-Manager KBit@kingsbay.no		04.01.2023		General authorization § 14(1)c - Wireless microphones	
826 MHz	832 MHz	Active	Kings Bay	Microphones	Wireless microphone	826-832 Mhz	100 mW	Periodically	Mobile	IT-Manager KB it@kingsbay.no		04.01.2023		General authorization § 14(1)d - Wireless	

															microphones	
869 MHz	869.025 MHz	Active	NPI	Safety wind measurements	Wind instrument	869.0125 MHz (25KHz)		Continuous	Zeppelin E433280, N8762310	Head NPI at HeadNPI.Nya@npolar.no				Winddata from Zeppelin to cablecar house	General authorization § 8(17) - Non-specific short-range devices	
900 MHz	900 MHz	Active	NPI	Glaciological measurements	GSSI GPR	900 MHz	Shielded instruments, all radiation to the ground	Campaigns	Mobile	Jack Kohler (jack.kohler@npolar.no)					Not known by Nkom Nkom licence required	Not known by Nkom Nkom licence required
916 MHz	920 MHz	Active	University of St Andrews, Fife, Scotland (NPI are involved)	Marine mammals	UHF Telemetry Transmit based upon Microchip RN2903	916 - 920 MHz	100 mW	Continuous (when seals are at the surface)	On biologgers that are fastened to seals in Kongsfjorden	Christian Lydersen Norwegian Polar Institute, lydersen@npolar.no	2021 - 2023				Nkom licence number 2002763-9 - 532.3	Licence is valid until 31.12.2023
916 MHz	920 MHz	Passive	University of St Andrews, Fife, Scotland (NPI are involved)	Marine mammals	UHF Telemetry Receive based upon Microchip RN2903	916 - 920 MHz		Continuous	Zeppelin	Christian Lydersen Norwegian Polar Institute, lydersen@npolar.no	2021 - 2023				Passive No licence required	Passive No licence required
1090M Hz		Passive	NMA	Aircraft safety for SLR-system	ADS-B Antenna (5,5 dBi, vertical)			Continuous	78°56'34.8" N 11°51'17.8" E 48 m	Ole Johan Klingan, klioie@kartverket.no	17.03.2020	09.01.2023	This device is installed to collect information about the aircraft traffic over Ny-Ålesund, and later ADS-B will be part of the SLR safety system. Time of operation is set to when NySMAC received the	Passive No licence required		

													radio frequency form.		
1176.4 5 MHz	1602 MHz	Passive	CNR	Changes in ionosphere	GISTM (GPS Ionospheric Scintillation and TEC monitor)	1176.45, 1202.025, 1207.14, 1227.60, 1246.00, 1268.52, 1278.75, 1561.098, 1575.42, 1602.00 MHz	None		Dirigibile Italia	Vincenzo Romano <vincenzo.romano@ingv.it >	Since 2003	01.01.2023		Passive No licence required	
1176.4 5 MHz	1602 MHz	Passive	CNR	Changes in ionosphere	GISTM (GPS Ionospheric Scintillation and TEC monitor)	1176.45, 1202.025, 1207.14, 1227.60, 1246.00, 1268.52, 1278.75, 1561.098, 1575.42, 1602.00 MHz	None		Rabben (NMA)	Vincenzo Romano <vincenzo.romano@ingv.it >	Since 2010	01.01.2023		Passive No licence required	
1616 MHz	1626.5 MHz	Active	NMA	Private safety equipment	Safety equipment (Iridium/GPS)	1.6GHz	< 31.8 dBm	Episodic / fieldtrips	Mobile	vlbi@kartverket.no	NA			General authorization § 38	
1616 MHz	1626.5 MHz	Active	NMA	Station safety equipment	Iridium phone	1616-1626.5 MHz	EIRP 40.7 dBm +/- 0.7 dB	Episodic / emergency	Mobile	vlbi@kartverket.no		01.06.2010		General authorization § 38	NA
1176.4 5 MHz	1602 MHz	Passive	CNR	Changes in ionosphere	GISTM (GPS Ionospheric Scintillation and TEC monitor)	1176.45, 1202.025, 1207.14, 1227.60, 1246.00, 1268.52, 1278.75, 1561.098, 1575.42, 1602.00 MHz	None		Dirigibile Italia	Vincenzo Romano <vincenzo.romano@ingv.it >	Since 2003	01.01.2023		Passive No licence required	
1176.4 5 MHz	1602 MHz	Passive	CNR	Changes in ionosphere	GISTM (GPS Ionospheric	1176.45, 1202.025, 1207.14,	None		Rabben (NMA)	Vincenzo Romano <vincenzo.romano@ingv.it >	Since 2010	01.01.2023		Passive No licence required	

					Scintillation and TEC monitor)	1227.60, 1246.00, 1268.52, 1278.75, 1561.098, 1575.42, 1602.00 MHz										
1575.42 MHz	1575.42 MHz	Passive	GFZ	Satellite Receiving Station	several GNSS-antennas and receivers	1575.42	None, reception only	24/7	Airport	Carsten Falck (falck@gfz-potsdam.de)	Since 2001	22.12.2022	used for local time keeping			
1125,000 MHz	1125,000 MHz	Active	Kings Bay AS	Aviation navigation	DME (distance measuring equipment)	1125,000 MHz		Continuous	DME 78° 55' 59" N 11° 51' 14" E	AFIS KB airport@kingsbay.no		04.01.2023		Not known by Nkom Licence required	Not known by Nkom Licence required	
1616 MHz	1626.5 MHz	Active	CNR	Station safety equipment	Sat phone Iridium 9555	1616 MHz - 1626.5 MHz		Might send at any time	Dirigibile Italia (mobile)	stationleader.arctic@cnr.it		01.01.2023		General authorization § 38 - Terminals for mobile satellite services		
1616 MHz	1626.5 MHz	Active	NIPR	Station safety equipment	Iridium phone	1616 – 1626.5 MHz	EIRP: 40.7dBm +/- 0.7dB	Fieldtrips, Emergency	Veksthuset (Mobile)	Manager, NIPR (nalyr@nipr.ac.jp)	Since 2010	42529	Iridium 9555	General authorization § 38 - Terminals for mobile satellite services		
1619,000 MHz	1645,500 MHz	Active	Kings Bay AS	Station safety equipment	Iridium phone	1616,00 - 1626,50 MHz		Periodically	Mobile	IT-Manager KB it@kingsbay.no		04.01.2023				
1619,000 MHz	1645,500 MHz	Active	Kings Bay AS	Station safety equipment	Iridium phone	1616,00 - 1626,50 MHz		Periodically	Airport Tower 78° 55' 44" N 11° 52' 17" E	AFIS KB airport@kingsbay.no		04.01.2023				
1619,000 MHz	1645,500 MHz	Active	Kings Bay AS	Station safety equipment	Iridium phone	1616,00 - 1626,50 MHz		Periodically	Teisten	Harbourmaster harbour@kingsbay.no		04.01.2023	Call Sign: LF4127 MMSI: 258156500	Telenor Kystradio licence: 82007		
1880,000 MHz	1900,000 MHz	Active	Kings Bay AS	Telephone	Wireless telephone	1880,00 - 1900,00 MHz	120 mW	Continuous	Mec. Workshop Harbour Storage	IT-Manager KB it@kingsbay.no	2020	04.01.2023		General authorization §6 - DECT		
1619 MHz	1645.5 MHz	Active	AWIPEV	Station safety equipment	Iridium phone	1616 – 1626.5 MHz		Might send at any time	AWIPEV (Mobile)	Leader AWIPEV (stationleader@awihev.eu)		02.06.2010		General authorization § 38 -		

														Terminals for mobile satellite services
1619 MHz	1645.5 MHz	Active	NIPR	Station safety equipment	Iridium phone	1616 – 1626.5 MHz		Fieldtrips, Emergency	Rabben (Mobile)	Manager, NIPR (nalyr@nipr.ac.jp)	Since 2010	08.06.2016		General authorization § 38 - Terminals for mobile satellite services
1619 MHz	1645.5 MHz	Active	NPI	Station safety equipment	Irridium phone	1616 - 1626.5 MHz		Sporadisk		Head NPI at HeadNPI.Nya@npolar.no				General authorization § 38 - Terminals for mobile satellite services
1619 MHz	1645.5 MHz	Active	NPI	Instrument data transfer	Irridium phone	1616-1626.5 MHz		Periodic	Glaciers around Ny-Å	Jack Kohler (jack.kohler@npolar.no)				General authorization § 38 - Terminals for mobile satellite services
1619 MHz	1645.5 MHz	Active	NPI	Navigation/Communication	Garmin Inreach SE+	1626.02 - 1626.48 MHz		Periodically	Mobile			14.12.2017		General authorization § 38 - Terminals for mobile satellite services
1176.45 MHz	1609.3125 MHz	Passive	GFZ	GNSS-station	GNSS-antenna and receiver	1176.45 - 1609.3125 MHz	None, reception only	24/7	round NMA storage building near end of airstrip	Markus Ramatschi (maram@gfz-potsdam.de)	Since 2000	22.12.2022	Permanent reference station, antenna signals are shared with NMA	Passive No licence required
1176.45 MHz	1609.3125 MHz	Passive	GFZ	GNSS-reflectometry	special GNSS-antenna (RHCP and LHCP) and special receiver	1176.45 - 1609.3125 MHz	None, reception only	24/7	Zeppelin mountain	Carsten Falck (falck@gfz-potsdam.de)	Since 2011	22.12.2022	2 GNSS antennas, one of them with normal mounting and normal	Passive No licence required

													polarisation (RHCP), the other one with LHCP polarisation and tilted by 90 degree to the horizon towards Kongsfjorden.		
1176.45 MHz	1575.42 MHz	Passive	IGGCAS	ionospheric TEC monitoring	GSV4004 TEC monitor		0 W	continuous, receive only	Yellow River	gzlee@mail.iggcas.ac.cn	Since 2007	28.07.2007		Passive No licence required	
1880 MHz	1900 MHz	Active	NPI	Station communication	Wireless telephone	1880 - 1900 MHz		Continuous	Zeppelin (E433150, N8761400)	Head NPI at HeadNPI.Nya@npolar.no				General authorization §6 - DECT	
2036.25 MHz	2036.25 MHz	Active	CNES	Geodesy (satellite system)	DORIS Antenna/Beacon (T&R)	2036.25 MHz	10 W	T&R, Continuous	Light sensitive cabin	Vincent Garcia (vincent.garcia@cnes.fr)		03.01.2023		Nkom licence no. 1002574 Approved by NMA	Nkom licence no. 1002574 Approved by NMA
2200 MHz	2300 MHz	Passive	GFZ	Satellite Receiving Station	turnable parabolic antennas, satellite telemetry receivers	currently 2211, 2260.8, 2263.5, 2268, 2280 MHz	None, reception only	24/7	Airport	Carsten Falck (falck@gfz-potsdam.de)	Since 2001	22.12.2022	All kind of local transmissions, especially in the S-band, including WIFI, can disturb satellite reception or even damage sensitive electronics, depending on transmission power and distance to the receiving	Satellite Earth Station Satellite reception under special legislation and licence	Satellite Earth Station Satellite reception under special legislation and licence

													station (< 1km)		
2200 MHz	2400 MHz	Active	Andøya Space Center	Mission telemetry (ground support)	Downlink telemetry from rockets	2200-2400 MHz	20 W max each Tx	Test prior to launch and during launch	SvalRak	Preben Hansen			Co-ordination with NMA and GFZ required prior to use.	Nkom licence no. 1004032 Approved by NMA. Secondary allocation.	Valid to December 31.2023
2400 MHz	2450 MHz	Passive	GFZ	Satellite Receiving Station	turnable parabolic antennas, satellite telemetry receivers	currently 2408 MHz (10 MHz bandwidth)	None, reception only	24/7	Airport	Carsten Falck (falck@gfz-potsdam.de)	Since 2016	22.12.2022	All kind of local transmissions, especially in the S-band, including WIFI, can disturb satellite reception or even damage sensitive electronics, depending on transmission power and distance to the receiving station (< 1km)	Satellite Earth Station Satellite reception under special legislation and licence. Not protected, best-effort reception.	Satellite Earth Station Satellite reception under special legislation and licence. Not protected, best-effort reception.
2.0 GHz	2.5 GHz	Passive	NMA	Geodesy	VLBI antennas 20 m and 13 m (tri-band receiver)	2.0 – 2.5 GHz	Passive	Might listen at any time	NMA - Rabben	NMA – Branmdalslaguna (vlbi@statkart.no)		05.08.2019		Passive No licence required	
2.0 GHz	14.0 GHz	Passive	NMA	Geodesy	VLBI antenna 13m (broadband)	2.0 – 14 GHz	Passive		NMA - Rabben	NMA – Rabben (vlbi@statkart.no)		05.08.2019		Passive No licence required	

SHF (3-300 GHz)															
7900 MHz	8400 MHz	Passive	GFZ	Satellite Receiving Station	turnable parabolic antennas, satellite telemetry receivers	currently 8392.5 MHz	None, reception only	24/7	Airport	Carsten Falck (falck@gfz-potsdam.de)	Since 2022	22.12.2022	All kind of local transmissions, especially X-band radar systems, can disturb satellite reception or even damage sensitive electronics, depending on transmission power and distance to the receiving station (< 1km)	Satellite Earth Station Satellite reception under special legislation and licence	Satellite Earth Station Satellite reception under special legislation and licence
8.1 GHz	9.0 GHz	Passive	NMA	Geodesy	VLBI antennas 20 m and 13 m (tri-band receiver)	8.1 – 9.0 GHz	Passive	Might listen at any time	NMA - Rabben	NMA – Rabben (vlbi@statkart.no)		05.08.2019		Passive No licence required	
8.1 GHz	9.0 GHz	Passive	NMA	Geodesy	VLBI antenna 13m (Tri-band)	8.1 – 8.9 GHz	Passive	Always	NMA - Rabben	NMA – Branmdalslaguna (vlbi@statkart.no)		04.02.2019		Passive No licence required	
9225,000 MHz	9500,000 MHz	Active	Kings Bay AS	Maritime Safety	Radar	9,410 GHz	4 kW	Periodically	Teisten	Harbourmaster harbour@kingsbay.no		04.01.2023	Call Sign: LF4127 MMSI: 258156500	Telenor Kystradio licence: 82007	
22 GHz	30 GHz	Passive	NCAOR	Atmospheric Vertical Profile	Microwave radiometer	22-30 GHz		Continuous, receive only	Gruvebadet	Nuncio Murukesh (nuncio@ncaor.gov.in)	Since Aug 2014	01.08.2014		Passive No licence required	
21 GHz	23 GHz	Passive	Universities Bremen/Bern	Stratospheric water vapor	Microwave radiometer (Miawara-C)	22.235 GHz	None	Reception only, cont.	NDACC observatory	Mathias Palm, Niklaus Kämpfer (mathias@iup.physik.uni-bremen.de; niklaus.kaempfer@iap.unibe.ch)	Sep 2015 to Sep 2017	02.01.2018		Passive No licence required	
22.24 GHz	31.4 GHz	Passive	AWI	Arctic Boundary Layer	HatPro Radiometer for pressure-temperature-	22.24 GHz - 31.4 GHz (7 channels)	None	Reception only	NDACC observatory	Christoph Ritter (Christoph.Ritter@awi.de)	from 01.04.2011	02.01.2023		Passive No licence required	

					humidity profile in troposphere											
24.222 5 GHz	24.2375 GHz	Active	NCAOR	Precipitation	Micro Rain Radar	24.23 GHz (15 MHz)		Continuous transmit and receive	Gruvebadet	Nuncio Murukesh (nuncio@ncaor.gov.in)		01.11.2013		Nkom licence no. 1003947 Approved by NMA	Nkom licence no. 1003947 Approved by NMA	
24.222 5 GHz	24.2375 GHz	Active	University of Cologne	Precipitation	Micro Rain Radar	24.23 GHz (15 MHz)	2 W	Continuous	NDACC observatory	Kerstin Ebell (kebell@meteo.uni-koeln.de)	Since April 2017	20.12.2022		Nkom licence no. 1005332 Approved by NMA	Until 31.12.2027	
34.9 GHz	35.1 GHz	Active	University of Cologne	Cloud radar	35 GHz polarimetric cloud radar	35 GHz +-100 MHz	10 W	Continuous	NDACC observatory	Kerstin Ebell (kebell@meteo.uni-koeln.de)	Since October 2021	20.12.2022		Nkom licence no. 1005333	until 31 Dec 2023	
51 GHz	59 GHz	Passive	NCAOR	Atmospheric Vertical Profile	Microwave radiometer	51-59 GHz		Continuous, receive only	Gruvebadet	Nuncio Murukesh (nuncio@ncaor.gov.in)	Since Aug 2014	01.08.2014		Passive No licence required	until 31 Dec 2027	
51.26 GHz	58 GHz	Passive	AWI	Arctic Boundary Layer	HatPro Radiometer for pressure-temperature-humidity profile in troposphere	51.26 GHz - 58 GHz (7 channels)	None	Reception only	NDACC observatory	Christoph Ritter (Christoph.Ritter@awi.de)	from 01.04.2011	02.01.2023		Passive No licence required		
87 GHz	91 GHz	Passive	University of Cologne	Cloud radar	Active Doppler Radar and Radiometer (SYNCLLOUD)	94 GHz +- 100 MHz (active); 89 GHz +- 2 GHz (passive)	None	Continuous	NDACC observatory	Kerstin Ebell (kebell@meteo.uni-koeln.de)	Since June 2016	02.12.2022		Passive No licence required		
93.9 GHz	94.1 GHz	Active	University of Cologne	Cloud radar	Active Doppler Radar and Radiometer (SYNCLLOUD)	94 GHz +- 100 MHz (active); 89 GHz +- 2 GHz (passive)	2 W	Continuous	Light sensitive cabin	Kerstin Ebell (kebell@meteo.uni-koeln.de)	Since June 2016	20.12.2022		Nkom licence no. 1005334	until 31 dec 2031	
95 GHz	95 GHz	Active	NIPR	Cloud radar	Doppler Cloud Radar (A-CARE)	95 GHz (0 kHz)	<1 W	active, Continuous	Rabben	Toshiaki Takano, Chiba U. (takano@faculty.chiba-u.jp)	Since 2013	08.06.2016		Nkom licence no. 1003093	Nkom licence no. 1003093	
109 GHz	112 GHz	Passive	Universities Bremen/Bern	Stratospheric ozon	Microwave radiometer (Gromos-C)	110.836 GHz	None	Reception only, continuous	NDACC observatory	Mathias Palm (mathias.palm@uni-bremen.de), Axel Murk (axel.murk@iap-unibe.ch)	Sep 2015 to Sep 2017	02.01.2018		Passive No licence required		
140.7 GHz	143.7 GHz	Passive	University Bremen	Stratospheric ozone	microwave radiometer	142.2 +-1,5 GHz	None	Reception only	NDACC observatory	Mathias Palm (mathias.palm@uni-bremen.de)	from 1995	15.12.2022		Passive No licence required		
229 GHz	232 GHz	Passive	University Bremen	Stratospheric CO	microwave radiometer for CO in middle atmosphere	230 GHz	None	Reception only	NDACC observatory	Mathias Palm (mathias.palm@uni-bremen.de)	from spring 2017	15.12.2022		Passive No licence required		

315 THz	750 THz	Passive	IGGCAS	optical meteor observation	MOY-1 meteor monitor		0 W	continuous/nighttime, receive only	Yellow River	gzlee@mail.iggcas.ac.cn	since 2019	01.08.2019		Passive No licence required	
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