

AMENDMENTS TO SERVICE PUBLICATIONS

Abbreviations used

ADD	Insert	PAR	Paragraph
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LIR	Read	SUP	Delete
P	Page(s)		

List of International Monitoring Stations (List VIII) Edition of 2019

(Amendment No. 3)

PART I

STATIONS IN THE TERRESTRIAL RADIOCOMMUNICATION SERVICES

BEL – Belgium

SUP Station: **CCRM**

SUP Station: **IBPT-NCS**

P 1 **ADD** by alphabetical order

Station: **Anderlecht**

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
Anderlecht	1424, Chaussée de Mons 1070 Anderlecht Belgique	PHONE: +32 2 2268800 PHONE: +32 2 2268801 EMAIL: monitoring.ncs@ibpt.be EMAIL: ncs-fr@ibpt.be EMAIL: ncs-nl@ibpt.be

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
50°48'45"N 004°17'28"E	Frequency measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°48'45"N 004°17'28"E	Field strength or power flux-density measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°48'45"N 004°17'28"E	Bandwidth measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°48'45"N 004°17'28"E	Direction-finding measurements	20 – 8000 MHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°48'45"N 004°17'28"E	Automatic spectrum occupancy surveys	8 kHz – 8 GHz	H24	

Station: **Antwerpen**

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
Antwerpen	5, Esmoreitlaan 2050 Antwerpen Belgique	PHONE: +32 2 2268800 PHONE: +32 2 2268801 EMAIL: monitoring.ncs@ibpt.be EMAIL: ncs-fr@bipt.be EMAIL: ncs-nl@ibpt.be

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
51°13'59"N 004°23'01"E	Frequency measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
51°13'59"N 004°23'01"E	Field strength or power flux-density measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
51°13'59"N 004°23'01"E	Bandwidth measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
51°13'59"N 004°23'01"E	Direction-finding measurements	20 – 8000 MHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
51°13'59"N 004°23'01"E	Automatic spectrum occupancy surveys	8 kHz – 8 GHz	H24	Except Saturdays, Sundays and public holidays. Any other times on request.

Station: **Gent**

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
Gent	Bruggravenlaan 30-32, 9000 Gent Belgique	PHONE: +32 2 2268800 PHONE: +32 2 2268801 EMAIL: monitoring.ncs@ibpt.be EMAIL: ncs-fr@bipt.be EMAIL: ncs-nl@ibpt.be

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
51°02'03"N 003°43'09"E	Frequency measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
51°02'03"N 003°43'09"E	Field strength or power flux-density measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
51°02'03"N 003°43'09"E	Bandwidth measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
51°02'03"N 003°43'09"E	Direction-finding measurements	20 – 8000 MHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
51°02'03"N 003°43'09"E	Automatic spectrum occupancy surveys	8 kHz – 8 GHz	H24	Except Saturdays, Sundays and public holidays. Any other times on request.

Station: **Liège**

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
Liège	34, Rue Wiertz 4000 Liège Belgique	PHONE: +32 2 2268800 PHONE: +32 2 2268801 EMAIL: monitoring.ncs@ibpt.be EMAIL: ncs-fr@bipt.be EMAIL: ncs-nl@ibpt.be

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
50°38'30"N 005°33'18"E	Frequency measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°38'30"N 005°33'18"E	Field strength or power flux-density measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°38'30"N 005°33'18"E	Bandwidth measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°38'30"N 005°33'18"E	Direction-finding measurements	20 – 8000 MHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°38'30"N 005°33'18"E	Automatic spectrum occupancy surveys	8 kHz – 8 GHz	H24	

Station: **Ophain**

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
Ophain	5, rue des Belles Pierres 1421 Ophain Belgique	PHONE: +32 2 2268800 PHONE: +32 2 2268801 EMAIL: monitoring.ncs@ibpt.be EMAIL: ncs-fr@bipt.be EMAIL: ncs-nl@ibpt.be

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
50°39'25"N 004°20'55"E	Frequency measurements	10 kHz – 1 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°39'25"N 004°20'55"E	Field strength or power flux-density measurements	100 kHz - 30 MHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°39'25"N 004°20'55"E	Bandwidth measurements	10 kHz – 1 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°39'25"N 004°20'55"E	Direction-finding measurements	20 MHz – 1.2 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°39'25"N 004°20'55"E	Automatic spectrum occupancy surveys	150 kHz - 1 GHz	H24	Except Saturdays, Sundays and public holidays. Any other times on request.

Station: **Peutie**

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
Peutie	181, Martelarenstraat 1800 Vilvoorde Belgique	PHONE: +32 2 2268800 PHONE: +32 2 2268801 EMAIL: monitoring.ncs@ibpt.be EMAIL: ncs-fr@bipt.be EMAIL: ncs-nl@ibpt.be

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
50°55'55"N 004°27'57"E	Frequency measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°55'55"N 004°27'57"E	Field strength or power flux-density measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.

Geographical coordinates	Types of measurements	Ranges of frequencies for each measurement	Hours of service (UTC)	Remarks
50°55'55"N 004°27'57"E	Bandwidth measurements	8 kHz – 8 GHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°55'55"N 004°27'57"E	Direction-finding measurements	20 – 8000 MHz	0700-1600	Except Saturdays, Sundays and public holidays. Any other times on request.
50°55'55"N 004°27'57"E	Automatic spectrum occupancy surveys	8 kHz – 8 GHz	H24	Except Saturdays, Sundays and public holidays. Any other times on request.

PART II

STATIONS IN THE SPACE RADIOCOMMUNICATION SERVICES

OMA - Oman

ADD by alphabetical order

Station: **Satellite Radio Monitoring Station (SRMS)**

Name of the station	Postal address	Telephone, Telefax, Electronic-mail
Satellite Radio Monitoring Station (SRMS)	P.O.Box 3555 P.C.: 111 Seeb Sultanate of Oman	PHONE: +968 24222256 PHONE: +968 24222274 TELEFAX: +968 24222275 EMAIL: srms@tra.gov.om

1. Geographical coordinates
23°33'09"N 058°19'59"E
2. Hours of service
Sunday – Thursday (07:30 AM – 03:00 PM) Oman time (03:30 AM – 11:00 AM) UTC
3. Information on antennas in use
(A1) Two 7.3 m Turning-Head Antennas for frequency range (a), (b) (A2) Two 6.2 m Turning-Head Antennas for frequency range (c), (d) (A3) Two 3.7 m Full Motion Antennas for frequency range (e) (A4) One 3.7 m Full Motion Antenna for frequency range (f), (g), (h)
4. Range of azimuth and elevation angles
(A1) AZI = 94° – 266° _ELE = 5° – 85° (A2) AZI = 94° – 266° _ELE = 5° – 85° (A3) AZI = 5° – 355° _ELE = 5° – 85° (A4) AZI = 5° – 355° _ELE = 5° – 85°
5. Maximum attainable accuracy in determining orbital positions of space stations

0.02°
6. Information on system polarization
Linear Polarization (Horizontal and Vertical) in frequency ranges (a), (b), (c), (d), (f), (g), (h). Circular Polarization (RHC and LHC) in frequency ranges (a), (d), (e), (f), (g)
7. System noise temperature
105 K for frequency range (a) 175 K for frequency range (b) 145 K for frequency range (c) 344 K for frequency range (d) 180 K for frequency range (e) 497 K for frequency range (f) 520 K for frequency range (g) 813 K for frequency range (h)
8. Ranges of frequencies with the maximum attainable accuracy of frequency measurement for each frequency range
(a) 3.4 - 4.8 GHz: 1×10^{-12} (b) 10.7 - 12.75 GHz: 1×10^{-12} (c) 7.25 - 7.75 GHz: 1×10^{-12} (d) 17.6 - 22 GHz: 1×10^{-12} (e) 1.4 - 2.4 GHz: 1×10^{-12} (f) 0.08 - 1.3 GHz: 1×10^{-12} (g) 1 - 18 GHz: 1×10^{-12} (h) 18 - 40 GHz: 1×10^{-12}
9. Ranges of frequencies in which field strength or power flux-density measurements can be performed
All Frequency Ranges.
10. Minimum value of measurable field strength or power flux-density with indication of attainable accuracy of measurement
-190 dBW/m ² with ± 1.5 dB at 4 kHz BW.
11. Information available for bandwidth measurements
Bandwidth measurements in accordance with the methods described in the Spectrum Monitoring Handbook.
12. Information available for spectrum occupancy measurements
Automatic and Manual spectrum occupancy measurements are carried out in all frequency ranges.
13. Information available for orbit occupancy measurements
Automatic and Manual orbit occupancy measurements are carried out in all frequency ranges.