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| RUS - Russian Federation |
| **Centralizing office** | **Postal address** | **Telephone, Telefax, Electronic-mail** | **Remarks** |
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| Federal State Unitary EnterpriseGeneral Radio Frequency Centre | Building 157, Derbenevskaya Embankment117997 Moscow | TF : +7 495 7481448FAX : +7 495 7480680EMAIL : int@grfc.ru |  |
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Stations in the Terrestrial radiocommunication services

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| **Arkhangelsk (IMS)** | 1, Uritskogo str.163002 Arkhangelsk Russian Federation   | TF : +7 818 2682182FAX : +7 818 2682182EMAIL : info.d29@rfc-nwfa.ru   |

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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 64°37'30''N040°37'20''E | Frequency measurements   | 9 kHz - 30 MHz   | H24   |   |
| 64°37'30''N040°37'20''E | Field strength or power flux-density measurements   | 9 kHz - 30 MHz   | H24   |   |
| 64°37'30''N040°37'20''E | Direction-finding measurements   | 100 kHz - 30 MHz   | H24   | 7 active antenna elements of type volume vibrator of height 7.5 m for reception and direction-finding of electromagnetic waves with vertical polarization in the frequency band from 100 kHz to 30 MHz.   |
| 64°37'30''N040°37'20''E | Bandwidth measurements   | 9 kHz - 30 MHz   | H24   | In accordance with Recommendation ITU-R SM.443-4.   |
| 64°37'30''N040°37'20''E | Automatic spectrum occupancy surveys   | 100 kHz - 30 MHz   | H24   |   |

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| **Belgorod (IMS)** | 58, Oktyabrskaya str.308001 BelgorodRussian Federation   | TF : +7 472 2337740FAX : +7 472 2337780EMAIL : belgorod@rfc-cfa.ru   |

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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 50°39'10''N036°36'20''E | Frequency measurements   | 9 kHz - 30 MHz   | H24   |   |
| 50°39'10''N036°36'20''E | Field strength or power flux-density measurements   | 9 kHz - 30 MHz   | H24   |   |
| 50°39'10''N036°36'20''E | Direction-finding measurements   | 10 kHz - 100 kHz   | H24   | Antenna system with frequency range from 10 kHz to 100 kHz - two magnetic dipoles - multiturn frames with ferrite cores, active length of antenna not less than 1.5 m. Vertical polarization.   |
| 50°39'10''N036°36'20''E | Direction-finding measurements   | 100 kHz - 1 MHz   | H24   | Antenna system with frequency range from 100 kHz to 1 MHz - two magnetic dipoles - three-turn frames with diameter 3 m, active length of antenna not less than 1.5 m. Vertical polarization.   |
| 50°39'10''N036°36'20''E | Direction-finding measurements   | 1 MHz - 30 MHz   | H24   | Antenna system with frequency range from 1 MHz to 30 MHz - 17 antennas based on vertical asymmetrical volumetric dipoles with a height of 11.2 m. Vertical polarization.   |
| 50°39'10''N036°36'20''E | Bandwidth measurements   | 9 kHz - 30 MHz   | H24   | In accordance with Recommendation ITU-R SM.443-4.   |
| 50°39'10''N036°36'20''E | Automatic spectrum occupancy surveys   | 9 kHz - 30 MHz   | H24   |   |

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| **Irkutsk**  | 24, Gornaya Str.664007 IrkutskRussian Federation   | TF : +7 395 2268960FAX : +7 395 2268972EMAIL : office@irk.srfc.ru   |

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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 52°39'37''N104°47'10''E | Frequency measurements   | 10 kHz - 30 MHz   | H24   | Accuracy of measurements: ± 1 Hz (absolute value).   |
| 52°39'37''N104°47'10''E | Field strength or power flux-density measurements   | 10 kHz - 30 MHz   | H24   | Measurement range: 10 - 120 dBμV/m.Accuracy of measurements: ± 3 dB.   |
| 52°39'37''N104°47'10''E | Direction-finding measurements   | 10 kHz - 30 MHz   | H24   | Antenna system with frequency range from 100 kHz to 1 MHz - two magnetic dipoles - three-turn frames with diameter 3 m, active length of antenna not less than 1.5 m. Vertical polarization.Antenna system with frequency range from 10 kHz to 100 kHz - two magnetic dipoles - multiturn frames with ferrite cores, active length of antenna not less than 0.5 m. Vertical polarization.Antenna system with frequency range from 1 MHz to 30 MHz - 17 active antenna elements based on vertical asymmetrical volume vibrators with a height of 11.93 m. Vertical polarization.   |
| 52°39'37''N104°47'10''E | Bandwidth measurements   | 10 kHz - 30 MHz   | H24   | x dB method and β% method according to ITU-R Recommendation SM.443-4.   |
| 52°39'37''N104°47'10''E | Automatic spectrum occupancy surveys   | 10 kHz - 30 MHz   | H24   | Automatic measurement of spectrum occupancy in accordance with ITU-R Recommendation SM.1880 and ITU Handbook on Spectrum Monitoring.   |

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| **Name of the station** | **Postal address** | **Telephone, Telefax, Electronic-mail** |
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| **Morozovsk**  | 81, Demyana Bednogo Str.347210 MorozovskRostov RegionRussian Federation   | TF : +7 863 8450455FAX : +7 863 8450402EMAIL : morozovsk@rfc-south.ru   |

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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 48°20'10''N041°52'00''E | Frequency measurements   | 1 MHz - 30 MHz   | H24   | Accuracy of measurements: ± 1 Hz (absolute value).   |
| 48°20'10''N041°52'00''E | Field strength or power flux-density measurements   | 1 MHz - 30 MHz   | H24   | Values of measurable field strengths or power flux-densities:10 - 120 dBμV/m;Accuracy of measurements: ± 3 dB.   |
| 48°20'10''N041°52'00''E | Direction-finding measurements   | 1 MHz - 30 MHz   | H24   | 17 active antenna elements of volumetric vibrator type with 11.9 m in height. Vertical polarization (1 MHz - 30 MHz).   |
| 48°20'10''N041°52'00''E | Bandwidth measurements   | 1 MHz - 30 MHz   | H24   | x dB method according to ITU-R Recommendation SM.443-4.   |
| 48°20'10''N041°52'00''E | Automatic spectrum occupancy surveys   | 1 MHz - 30 MHz   | H24   | Automatic measurement of spectrum occupancy in accordance with ITU-R Recommendation SM.1880 and ITU Handbook on Spectrum Monitoring.   |

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| **Name of the station** | **Postal address** | **Telephone, Telefax, Electronic-mail** |
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| **Novosibirsk (IMS)** | 4, Oktyabrskaya Magistral630007 NovosibirskRussian Federation   | TF : +7 383 2231182FAX : +7 383 2231182EMAIL : office@srfc.ru   |

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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 54°47'56''N083°07'42''E | Frequency measurements   | 10 kHz - 30 MHz   | H24   |   |
| 54°47'56''N083°07'42''E | Field strength or power flux-density measurements   | 10 kHz - 30 MHz   | H24   |   |
| 54°47'56''N083°07'42''E | Direction-finding measurements   | 10 kHz - 100 kHz   | H24   | Two magnetic dipoles - multiturn frames with ferrite cores. The effective length of antenna not less 0.5 m. Vertical polarization.   |
| 54°47'56''N083°07'42''E | Direction-finding measurements   | 100 kHz - 1 MHz   | H24   | Two magnetic dipoles - three-turn frames 3 m in diameter. The effective length of antenna not less 1.5 m. Vertical polarization.   |
| 54°47'56''N083°07'42''E | Direction-finding measurements   | 1 MHz - 30 MHz   | H24   | 17 antennas based on vertical asymmetrical dipoles with 11.93 m in height. Vertical polarization.   |
| 54°47'56''N083°07'42''E | Bandwidth measurements   | 10 kHz - 30 MHz   | H24   | In accordance with Recommendation ITU-R SM.443-4.   |
| 54°47'56''N083°07'42''E | Automatic spectrum occupancy surveys   | 10 kHz - 30 MHz   | H24   |   |

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| **Name of the station** | **Postal address** | **Telephone, Telefax, Electronic-mail** |
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| **Nyagan**  | Highway, Building 114 Unyugan villageKhanty-Mansiisk autonomous district-Yugra628181 NyaganTyumen RegionRussian Federation   | TF : +7 346 7261332FAX : +7 346 7266939EMAIL : a.anisimov@urfc.ru   |

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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 62°06'00''N065°24'00''E | Frequency measurements   | 1 MHz - 30 MHz   | H24   | Accuracy of measurements: ± 1 Hz (absolute value).   |
| 62°06'00''N065°24'00''E | Field strength or power flux-density measurements   | 1 MHz - 30 MHz   | H24   | Measurement range: 10 - 120 dBμV/m.Accuracy of measurements: ± 3 dB.   |
| 62°06'00''N065°24'00''E | Direction-finding measurements   | 10 kHz - 30 MHz   | H24   | Antenna system with frequency range from 10 kHz to 100 kHz - two magnetic dipoles - multiturn frames with ferrite cores, active length of antenna not less than 1.5 m. Vertical polarization.Antenna system with frequency range from 100 kHz to 1 MHz - two magnetic dipoles - three-turn frames with diameter 3 m, active length of antenna not less than 1.5 m. Vertical polarization.Antenna system with frequency range from 1 MHz to 30 MHz - 17 antennas based on vertical asymmetrical volumetric dipoles with a height of 11.2 m. Vertical polarization.   |
| 62°06'00''N065°24'00''E | Bandwidth measurements   | 1 MHz - 30 MHz   | H24   | x dB method according to ITU-R Recommendation SM.443-4.   |
| 62°06'00''N065°24'00''E | Automatic spectrum occupancy surveys   | 10 kHz - 30 MHz   | H24   | Automatic measurement of spectrum occupancy in accordance with ITU-R Recommendation SM.1880 and ITU Handbook on Spectrum Monitoring.   |

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| **Name of the station** | **Postal address** | **Telephone, Telefax, Electronic-mail** |
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| **S. Petersburg (IMS)** | 27, Galernaya str.190000 Saint PetersburgRussian Federation   | TF : +7 812 320 9393FAX : +7 812 6357808EMAIL : info@rfc-nwfa.ru   |

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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 60°06'10''N030°08'00''E | Frequency measurements   | 9 kHz - 30 MHz   | H24   |   |
| 60°06'10''N030°08'00''E | Field strength or power flux-density measurements   | 9 kHz - 30 MHz   | H24   |   |
| 60°06'10''N030°08'00''E | Direction-finding measurements   | 100 kHz - 1 MHz   | H24   | Three-channel loop antenna system in the frequency band from 100 kHz to 1 MHz on a mast, operating antenna length not less than 1.5 m, for reception and direction-finding of electromagnetic waves with vertical polarization.   |
| 60°06'10''N030°08'00''E | Direction-finding measurements   | 1 MHz - 30 MHz   | H24   | 8 active antenna elements of type volume vibrator of height 7.5 m for reception and direction-finding of electromagnetic waves with vertical polarization in the frequency band from 100 kHz to 30 MHz.   |
| 60°06'10''N030°08'00''E | Bandwidth measurements   | 9 kHz - 30 MHz   | H24   | In accordance with Recommendation ITU-R SM.443-4.   |
| 60°06'10''N030°08'00''E | Automatic spectrum occupancy surveys   | 100 kHz - 30 MHz   | H24   |   |

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| **Samara**  | Pridorozhnyi village443047 Volgian districtSamara RegionRussian Federation   | TF : +7 846 2696513FAX : +7 846 2696514EMAIL : strk@rfc63.su   |

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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 53°05'00''N050°10'26''E | Frequency measurements   | 1MHz - 30 MHz   | H24   | Accuracy of measurements: ± 1 Hz (absolute value).   |
| 53°05'00''N050°10'26''E | Field strength or power flux-density measurements   | 1 MHz - 30 MHz   | H24   | Measurement range: 10 - 120 dBμV/m.Accuracy of measurements: ± 3 dB.   |
| 53°05'00''N050°10'26''E | Direction-finding measurements   | 10 kHz - 30 MHz   | H24   | Antenna system with frequency range from 10 kHz to 100 kHz - two magnetic dipoles - multiturn frames with ferrite cores, active length of antenna not less than 1.5 m. Vertical polarization.Antenna system with frequency range from 100 kHz to 1 MHz - two magnetic dipoles - three-turn frames with diameter 3 m, active length of antenna not less than 1.5 m. Vertical polarization.Antenna system with frequency range from 1 MHz to 30 MHz - 17 antennas based on vertical asymmetrical volumetric dipoles with a height of 11.2 m. Vertical polarization.   |
| 53°05'00''N050°10'26''E | Bandwidth measurements   | 1 MHz - 30 MHz   | H24   | x dB method according to ITU-R Recommendation SM.443-4.   |
| 53°05'00''N050°10'26''E | Automatic spectrum occupancy surveys   | 10 kHz - 30MHz   | H24   | Automatic measurement of spectrum occupancy in accordance with ITU-R Recommendation SM.1880 and ITU Handbook on Spectrum Monitoring.   |

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| **Slavyanka (IMS)** | 17, Irtyshskiy proezd680006 KhabarovskRussian Federation   | TF : +7 421 2744000FAX : +7 421 2744000EMAIL : info@rfc-fefa.ru   |

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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 42°49'53''N131°18'51''E | Frequency measurements   | 10 kHz - 30 MHz   | H24   |   |
| 42°49'53''N131°18'51''E | Field strength or power flux-density measurements   | 10 kHz - 30 MHz   | H24   |   |
| 42°49'53''N131°18'51''E | Direction-finding measurements   | 10 kHz - 100 kHz   | H24   | Two magnetic dipoles - multiturn frames with ferrite cores. The effective length of antenna not less 0.5 m. Vertical polarization.   |
| 42°49'53''N131°18'51''E | Direction-finding measurements   | 100 kHz - 1 MHz   | H24   | Two magnetic dipoles - three-turn frames 3 m in diameter. The effective length of antenna not less 1.5 m. Vertical polarization.   |
| 42°49'53''N131°18'51''E | Direction-finding measurements   | 1 MHz - 30 MHz   | H24   | 17 antennas based on vertical asymmetrical dipoles with 11.93 m in height. Vertical polarization.   |
| 42°49'53''N131°18'51''E | Bandwidth measurements   | 10 kHz - 30 MHz   | H24   | In accordance with Recommendation ITU-R SM.443-4.   |
| 42°49'53''N131°18'51''E | Automatic spectrum occupancy surveys   | 10 kHz - 30 MHz   | H24   |   |

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| **Smolensk (IMS)** | 21, Nakhimova str.214025 SmolenskRussian Federation   | TF : +7 481 2642706FAX : +7 481 2642706EMAIL : smolensk@rfc-cfa.ru   |

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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 54°50'50''N032°05'40''E | Frequency measurements   | 9 kHz - 30 MHz   | H24   |   |
| 54°50'50''N032°05'40''E | Field strength or power flux-density measurements   | 9 kHz - 30 MHz   | H24   |   |
| 54°50'50''N032°05'40''E | Direction-finding measurements   | 10 kHz - 100 kHz   | H24   | Three-channel magnetic loop antenna arrangement, range from 10 kHz to 100 kHz, in a radio­transparent container, active length of antenna not less than 0.5 m. Vertical polarization.Direction-finding mode – phased.   |
| 54°50'50''N032°05'40''E | Direction-finding measurements   | 100 kHz - 1 MHz   | H24   | Mast-supported three-channel loop antenna arrangement, range from 100 kHz to 1 MHz, active length of antenna not less than 1.5 m. Vertical polarization.   |
| 54°50'50''N032°05'40''E | Direction-finding measurements   | 1 MHz - 30 MHz   | H24   | 16 active antenna elements of the volumetric dipole type, height 11.93 m. Vertical polarization.   |
| 54°50'50''N032°05'40''E | Bandwidth measurements   | 9 kHz - 30 MHz   | H24   | In accordance with Recommendation ITU-R SM.443-4.   |
| 54°50'50''N032°05'40''E | Automatic spectrum occupancy surveys   | 9 kHz - 30 MHz   | H24   |   |

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| **Verhneye Dubrovo**  | 15, Tekhnicheskaya streetVerkhneye Dubrovo urban-type settlement624053 Beloyarskyi districtSverdlovsk RegionRussian Federation   | TF : +7 343 2160228FAX : +7 343 2160093EMAIL : a.chaschin@urfc.ru   |

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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 56°46'10''N061°02'20''E | Frequency measurements   | 1 MHz - 30 MHz   | H24   | Accuracy of measurements: ± 1 Hz (absolute value).   |
| 56°46'10''N061°02'20''E | Field strength or power flux-density measurements   | 1 MHz - 30 MHz   | H24   | Measurement range: 10 - 120 dBμV/m.Accuracy of measurements: ± 3 dB.   |
| 56°46'10''N061°02'20''E | Direction-finding measurements   | 10 kHz - 30 MHz   | H24   | Antenna system with frequency range from 100 kHz to 1 MHz - two magnetic dipoles - three-turn frames with diameter 3 m, active length of antenna not less than 1.5 m. Vertical polarization.Antenna system with frequency range from 1 MHz to 30 MHz - 17 antennas based on vertical asymmetrical volumetric dipoles with a height of 11.2 m. Vertical polarization.Antenna system with frequency range from 10 kHz to 100 kHz - two magnetic dipoles - multiturn frames with ferrite cores, active length of antenna not less than 0.5 m. Vertical polarization.   |
| 56°46'10''N061°02'20''E | Bandwidth measurements   | 1 MHz - 30 MHz   | H24   | x dB method according to ITU-R Recommendation SM.443-4.   |
| 56°46'10''N061°02'20''E | Automatic spectrum occupancy surveys   | 10 kHz - 30 MHz   | H24   | Automatic measurement of spectrum occupancy in accordance with ITU-R Recommendation SM.1880 and ITU Handbook on Spectrum Monitoring.   |

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| **Name of the station** | **Postal address** | **Telephone, Telefax, Electronic-mail** |
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| **Geographical coordinates** | **Types of measurements** | **Ranges of frequencies for each measurement** | **Hours of service (UTC)** | **Remarks** |
| 61°54'41''N129°33'09''E | Frequency measurements   | 10 kHz - 30 MHz   | H24   | Accuracy of measurements:± 2 × 10-8 (relative value);± 1 Hz (absolute value).   |
| 61°54'41''N129°33'09''E | Field strength or power flux-density measurements   | 10 kHz - 30 MHz   | H24   | Values of measurable field strengths or power flux-densities:0 - 120 dBμV/m;Accuracy of measurements: ± 3 dB.   |
| 61°54'41''N129°33'09''E | Direction-finding measurements   | 10 kHz - 100 kHz   | H24   | Three-channel magnetic loop antenna arrangement in the frequency range from 10 kHz to 100 kHz.   |
| 61°54'41''N129°33'09''E | Direction-finding measurements   | 100 kHz - 1 MHz   | H24   | Three-channel loop antenna arrangement with 3 m diameter in the frequency range from 100 kHz to 1 MHz.   |
| 61°54'41''N129°33'09''E | Direction-finding measurements   | 1 MHz - 30 MHz   | H24   | 9 active antenna elements of volumetric vibrator type with 11.2 m in height, vertical polarization in the frequency range from 1 MHz to 30 MHz.   |
| 61°54'41''N129°33'09''E | Bandwidth measurements   | 10 kHz - 30 MHz   | H24   | x dB method according to ITU-R Recommendation SM.443-4.   |
| 61°54'41''N129°33'09''E | Automatic spectrum occupancy surveys   | 10 kHz - 30 MHz   | H24   | Automatic measurement of spectrum occupancy in accordance with ITU-R Recommendation SM.1880 and ITU Handbook on Spectrum Monitoring.   |

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