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| KOR - Korea (Rep. of) | | | |
| **Centralizing office** | **Postal address** | **Telephone, Telefax, Electronic-mail** | **Remarks** |
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| Central Radio Management Service  Ministry of Science and ICT | 234, Songpa-daero Songpa-gu Seoul 05830 | TF : +82 2 34002000 FAX : +82 2 34002128 EMAIL : crmo@msip.go.kr |  |
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Stations in the Space radiocommunication services

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| **Name of the station** | **Postal address** | **Telephone, Telefax, Electronic-mail** | |
|  |  |  |  |
| **Icheon** | 100, Sinam-ro Seolseong-myeon Gyeonggi-do Korea (Rep. of) | TF : +82 31 6445900 FAX : +82 31 6445829 EMAIL : srmc@korea.kr | |

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| **1. Geographical coordinates** |
| |  | | --- | | 37°08'15" N | | 127°33'37" E | |
| **2. Hours of service** |
| |  | | --- | | 0000-0900 h from Monday to Friday. | |
| **3. Information on antennas in use** |
| |  | | --- | | Two 13 m cassegrain antennas for frequency ranges (a), (b), (c), (d), (e), (f). 2-axis, velocity: azimuth 5°/s, elevation 2.5°/s; | | Log spiral antennas for the frequency range (g). Omni-directional; | | A 4.6m parabolic antenna for the frequency range (h). 2-axis, velocity: azimuth 15°/s, elevation 10°/s; | | Two 11m cassegrain antennas for the frequency ranges (i), (j). 3-axis, velocity: azimuth 15°/s, elevation 10°/s, tilt 1°/s. | |
| **4. Range of azimuth and elevation angles** |
| |  | | --- | | Azimuth ± 270°, elevation 0° ~ 90°, tilt 180°(± 90°, for 11m cassegrain antennas). | |
| **5. Maximum attainable accuracy in determining orbital positions of space stations** |
| |  | | --- | | (a) L band: 0.034° | | (b) S band: 0.031° | | (c) C band: 0.013° | | (d) X band: 0.008° | | (e) Ku band: 0.003° | | (f) Ka band: 0.002° | | No information notified in the frequency ranges (h) to (j). | |
| **6. Information on system polarization** |
| |  | | --- | | Circular polarization (RHC, LHC) and linear polarization (horizontal, vertical) in all frequency ranges except for (g), polarization angle adjustable. In frequency range (g) circular polarization. | |
| **7. System noise temperature** |
| |  | | --- | | (a) L band: 87° K | | (b) S band: 82° K | | (c) C band: 78° K | | (d) X band: 80° K | | (e) Ku band: 85° K | | (f) Ka band: 133° K | | (g) 137 MHz - 26.5 GHz: 160° K | | (h) 137 MHz - 1 GHz: 72° K | | (i) 1 GHz - 26.5 GHz: 160° K | | (j) 1 GHz - 10.51 GHz: 112° K | |
| **8. Ranges of frequencies with the maximum attainable accuracy of frequency measurement for each frequency range** |
| |  | | --- | | (a) L band: 1.45 GHz ~ 1.8 GHz: 1 × 10-12 | | (b) S band: 2.17 GHz ~ 2.66 GHz: 1 × 10-12 | | (c) C band: 3.4 GHz ~ 4.8 GHz: 1 × 10-12 | | (d) X band: 6.7 GHz ~ 7.75 GHz: 1 × 10-12 | | (e) Ku band: 10.7 GHz ~ 12.75 GHz: 1 × 10-12 | | (f) Ka band: 17.7 GHz ~ 21 GHz: 1 × 10-12 | | (g) 137 MHz - 26.5 GHz: 1 × 10-12 | | (h) 137 MHz - 1 GHz: 1 × 10-12 | | (i) 1 GHz - 26.5 GHz: 1 × 10-12 | | (j) 1 GHz - 10.51 GHz: 1 × 10-12 | |
| **9. Ranges of frequencies in which field strength or power flux-density measurements can be performed** |
| |  | | --- | | (a) L band: 1.45 GHz ~ 1.8 GHz | | (b) S band: 2.17 GHz ~ 2.66 GHz | | (c) C band: 3.4 GHz ~ 4.8 GHz | | (d) X band: 6.7 GHz ~ 7.75 GHz | | (e) Ku band: 10.7 GHz ~ 12.75 GHz | | (f) Ka band: 17.7 GHz ~ 21 GHz | | (g) 137 MHz - 26.5 GHz | | (h) 137 MHz - 1 GHz | | (i) 1 GHz - 26.5 GHz | | (j) 1 GHz - 10.51 GHz | |
| **10. Minimum value of measurable field strength or power flux-density with indication of attainable accuracy of measurement** |
| |  | | --- | | (a) L band: -171 dBW/m² ± 1.5 dB | | (b) S band: -173 dBW/m² ± 1.5 dB | | (c) C band: -167 dBW/m² ± 1.5 dB | | (d) X band: -176 dBW/m² ± 1.5 dB | | (e) Ku band: -180 dBW/m² ± 1.5 dB | | (f) Ka band: -187 dBW/m² ± 1.5 dB | | Bandwidth 4 kHz, C/N ~ 20 dB | | No information notified in the frequency ranges (g) to (j). | |
| **11. Information available for bandwidth measurements** |
| |  | | --- | | Bandwidth measurements in accordance with the methods described in Recommendation ITU-R SM.328-10. | |
| **12. Information available for spectrum occupancy measurements** |
| |  | | --- | | Time and frequency of the signal from the satellite are graphically displayed on the spectrum monitor terminal. | |
| **13. Information available for orbit occupancy measurements** |
| |  | | --- | | Automatic orbital location measurements are carried out in the frequency ranges (a) to (f) and (h) to (j). | |

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