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| KAZ - Kazakhstan |
| **Centralizing office** | **Postal address** | **Telephone, Telefax, Electronic-mail** | **Remarks** |
|  |  |  |  |
| Republican Centre of Space Communication | 34, Dzhangildin Street010000 Nur-Sultan  | TF : +7 7172 326478FAX : +7 7172 326478EMAIL : info@rcsc.kz |  |
|  |  |  |  |

Stations in the Space radiocommunication services

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| --- | --- | --- |
| **Name of the station** | **Postal address** | **Telephone, Telefax, Electronic-mail** |
|  |  |  |  |
| **GCC Akkol**  | 34, Dzhangildin Street010000 Nur-SultanKazakhstan   | TF : +7 7163 860040FAX : +7 7163 860041EMAIL : oms\_cum@rcsc.kz   |

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| **1. Geographical coordinates** |
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| 52°00'11 N |
| 070°54'03 E   |

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| **2. Hours of service** |
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| 0300-1230 h from Monday to Friday.  |

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| **3. Information on antennas in use** |
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| Antenna type: | Cassegrain antenna of |
|  | 9 meters in diameter |
| Antenna gain (dBi): | 57.6 - 59 |
| Noise Temperature: | at an elevation angle of 5°: | 86° K |
|  | at an elevation angle of 10°: | 72° K |
|  | at an elevation angle of 20°: | 63° K |
|  | at an elevation angle of 40°: | 60° K |

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| **4. Range of azimuth and elevation angles** |
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| Azimuth: ± 60°, elevation angle: 5°- 90°  |

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| **5. Maximum attainable accuracy in determining orbital positions of space stations** |
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| No information notified.  |

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| **6. Information on system polarization** |
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| Polarization: LX, LY |
| Cross-polarization: dB > 35  |

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| **7. System noise temperature** |
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| 132° K at an elevation angle of 20°.  |

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| **8. Ranges of frequencies with the maximum attainable accuracy of frequency measurement for each frequency range** |
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| 10.950 GHz - 12.750 GHz: accuracy of frequency measurement is ± 1% of the carrier's bandwidth at C/N > 10 dB.  |

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| **9. Ranges of frequencies in which field strength or power flux-density measurements can be performed** |
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| 10.950 GHz - 12.750 GHz  |

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| **10. Minimum value of measurable field strength or power flux-density with indication of attainable accuracy of measurement** |
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| PFDmin = -134 dBW/m2 at C/N = 15 dB for non-modulated carrier BW = 4 kHz |
| PFDmax = -88 dBW/m2  |
| Measurement accuracy = 0.693 dB  |

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| **11. Information available for bandwidth measurements** |
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| Minimum measuring band is 100 Hz.  |

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| **12. Information available for spectrum occupancy measurements** |
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| Minimum measuring band is 100 Hz. The results of measurements are in % or in Hz.  |

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| **13. Information available for orbit occupancy measurements** |
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| **Elevation angle (on the edges of visible arc)** | **Visible arc** |
| 5° | from 13° E to 129° E |
| 15° | from 22° E to 120° E |
| 20° | from 32° E to 110° E |

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