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| D - Germany | | | |
| **Centralizing office** | **Postal address** | **Telephone, Telefax, Electronic-mail** | **Remarks** |
|  |  |  |  |
| Bundesnetzagentur Referat 511 | Postfach 80 01 55003 Mainz | TF : +49 6131 185419 FAX : +49 6131 185602 EMAIL : 511.postfach@bnetza.de |  |
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Stations in the Space radiocommunication services

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| --- | --- | --- | --- |
| **Name of the station** | **Postal address** | **Telephone, Telefax, Electronic-mail** | |
|  |  |  |  |
| **Leeheim** | Satellitenmessstelle 64560 Riedstadt-Leeheim Germany | TF : +49 6158 9400 FAX : +49 6158 940180 EMAIL : esch16.postfach@bnetza.de | |

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| **1. Geographical coordinates** |
| |  | | --- | | 49°51'00" N | | 008°24'00" E | |
| **2. Hours of service** |
| |  |  | | --- | --- | | April to October: | 0500-1400 h from Monday to Friday | | November to March: | 0600-1500 h from Monday to Friday | |
| **3. Information on antennas in use** |
| |  | | --- | | Dipole antenna array for frequency range (a); 12 m Cassegrain antenna for frequency ranges (b), (c), (e), (f); 8.5 m Cassegrain antenna for frequency ranges (d) and (i); 7 m prime focus antenna for frequency ranges (g) and (h). | |
| **4. Range of azimuth and elevation angles** |
| |  | | --- | | 360°, 90° | |
| **5. Maximum attainable accuracy in determining orbital positions of space stations** |
| |  | | --- | | 0.2/f[GHz] [no orbital position measurements within frequency range (a)]. | |
| **6. Information on system polarization** |
| |  | | --- | | Linear polarization (horizontal and vertical) in all frequency ranges. Additional circular polarization (RHC and LHC) in the frequency ranges (d) to (i). In frequency range (d) fixed polarization (RHC and LHC). Polarization angle adjustment in frequency ranges (d), (e), (f), (g), (h) and (i). | |
| **7. System noise temperature** |
| |  | | --- | | (a) 130 MHz - 1000 MHz: 650 K | | (b) 1500 MHz - 1800 MHz: 380 K | | (c) 2100 MHz - 2300 MHz: 380 K | | (d) 3400 MHz - 4200 MHz: 180 K | | (e) 4300 MHz - 8500 MHz: 250 K | | (f) 10.7 GHz - 12.75 GHz: 150 K | | (g) 1 GHz - 12.75 GHz: 200 K | | (h) 12.5 GHz - 26.5 GHz: 350 K | | (i) 17.7 GHz - 22 GHz: 318 K | |
| **8. Ranges of frequencies with the maximum attainable accuracy of frequency measurement for each frequency range** |
| |  | | --- | | (a) 130 MHz - 1000 MHz: 1 × 10-12 | | (b) 1500 MHz - 1800 MHz: 1 × 10-12 | | (c) 2100 MHz - 2300 MHz: 1 × 10-12 | | (d) 3400 MHz - 4200 MHz: 1 × 10-12 | | (e) 4300 MHz - 8500 MHz: 1 × 10-12 | | (f) 10.7 GHz - 12.75 GHz: 1 × 10-12 | | (g) 1 GHz - 12.75 GHz: 1 × 10-12 | | (h) 12.5 GHz - 26.5 GHz: 1 × 10-12 | | (i) 17.7 GHz - 22.0 GHz: 1 × 10-12 | |
| **9. Ranges of frequencies in which field strength or power flux-density measurements can be performed** |
| |  | | --- | | (a) 130 MHz - 1000 MHz | | (b) 1500 MHz - 1800 MHz | | (c) 2100 MHz - 2300 MHz | | (d) 3400 MHz - 4200 MHz | | (e) 4300 MHz - 8500 MHz | | (f) 10.7 GHz - 12.75 GHz | | (g) 1 GHz - 12.75 GHz | | (h) 12.5 GHz - 26.5 GHz | | (i) 17.7 GHz - 22 GHz | |
| **10. Minimum value of measurable field strength or power flux-density with indication of attainable accuracy of measurement** |
| |  | | --- | | (a) -159... -151 dBW/m² ± 2.5 dB | | (b) -175 dBW/m² ± 1.5 dB | | (c) -175 dBW/m² ± 1.5 dB | | (d) -176 dBW/m² ± 1.5 dB | | (e) -175 dBW/m² ± 1.5 dB | | (f) -175 dBW/m² ± 1.5 dB | | (g) -165 dBW/m² ± 1.5 dB | | (h) -164 dBW/m² ± 1.5 dB | | (i) -169 dBW/m² ± 1.5 dB | | Bandwidth 4 kHz, S/N ≥ 10 dB. | |
| **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** |
| |  | | --- | | Computer controlled receiving system using directional antennas for frequency ranges (a) to (i) or omni-directional antennas for frequencies < 2500 MHz. Up to 4 independent frequency bands of 600 MHz each are in time shift mode recordable. The results are presented graphically as spectrograms. | |
| **13. Information available for orbit occupancy measurements** |
| |  | | --- | | Automatic orbit occupancy measurements are carried out in the frequency ranges (a) to (i). | |

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