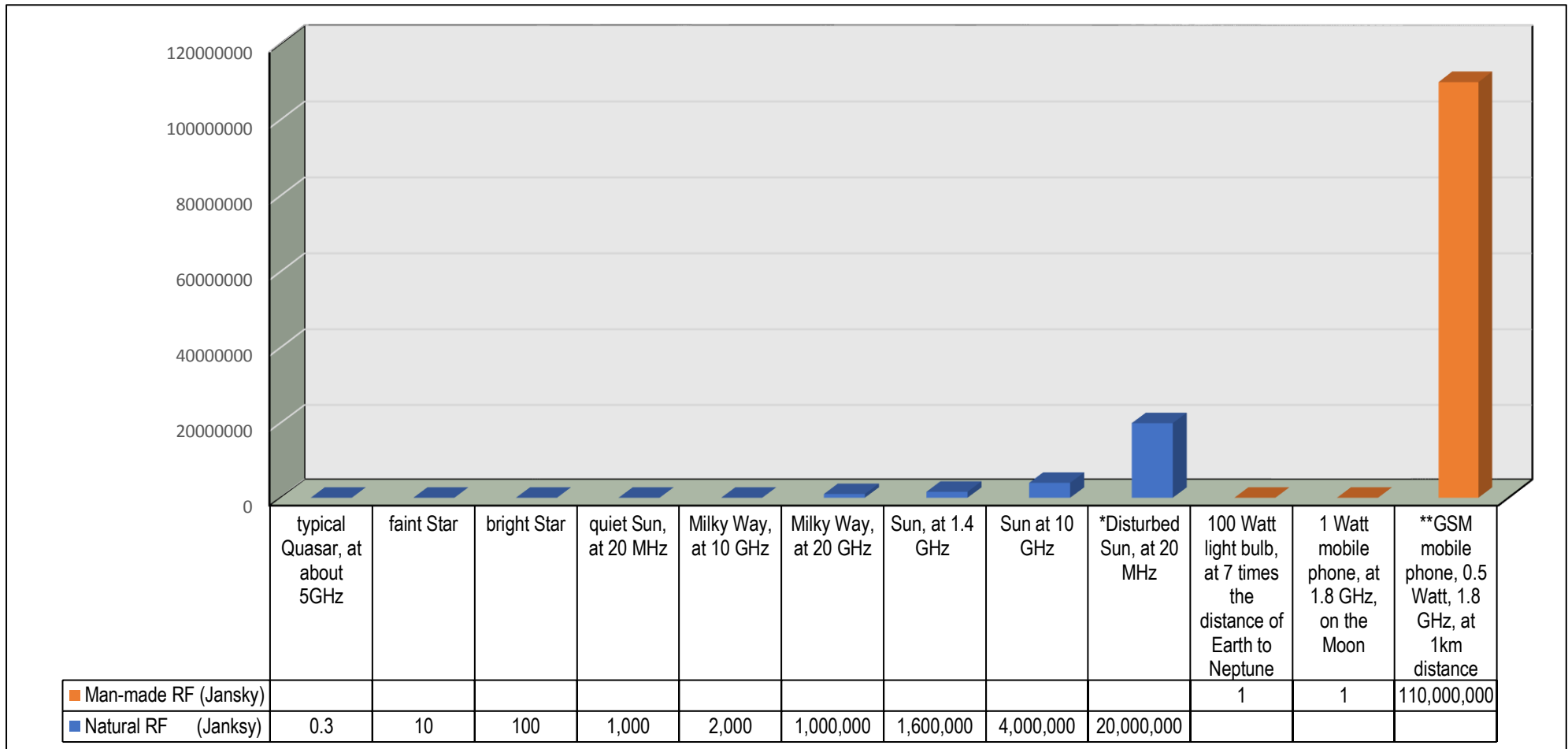


RADIO FREQUENCY SPECTRAL POWER FLUX DENSITY

In units of Jansky: $Jy = 10^{-26} \text{ W}/(\text{m}^2 \cdot \text{Hz})$, i.e. 10^{-26} Watts per square metre per Hertz.
Used in radio astronomy, for broadband values, as seen from the Earth's surface.



The Jansky is the amount of RF energy per unit time per unit area per unit bandwidth. $1 \text{ Jy} = -204 \text{ dBm}$.
Radio telescopes can detect down to -264 dBm .
A GSM handset (minimum signal strength -111 dBm) works above about -80 dBm and requires -67 dBm for full functionality.
Digital TV in Japan requires a minimum received power of -73 dBm .

*Some 10-15% of the general population are consciously or subconsciously sensitive to this type of geomagnetic disturbance.

**Some 40% of the adult general population are consciously or subconsciously sensitive to this type of man-made radiation.