

Table 1 — Definitions of solar irradiance spectral categories

Spectral category	Spectral sub-category	Wavelength range (nm)	Wavelength range (SI prefixes from Table 2)	Notes
Total Solar Irradiance				full-disk, 1 ua solar irradiance integrated across all λ
Gamma-rays		$0.00001 \leq \lambda < 0.001$	$10 \text{ fm} \leq \lambda < 1 \text{ pm}$	
X-rays		$0.001 \leq \lambda < 0.1$	$1 \text{ pm} \leq \lambda < 0.10 \text{ nm}$	Hard X-rays
	XUV	$0.1 \leq \lambda < 10$	$0.10 \text{ nm} \leq \lambda < 10 \text{ nm}$	Soft X-rays
Ultraviolet	UV	$100 \leq \lambda < 400$	$100 \text{ nm} \leq \lambda < 400 \text{ nm}$	Ultraviolet
	VUV	$10 \leq \lambda < 200$	$10 \text{ nm} \leq \lambda < 200 \text{ nm}$	Vacuum Ultraviolet
	EUV	$10 \leq \lambda < 121$	$10 \text{ nm} \leq \lambda < 121 \text{ nm}$	Extreme Ultraviolet
	H Lyman- α	$121 \leq \lambda < 122$	$121 \text{ nm} \leq \lambda < 122 \text{ nm}$	Hydrogen Lyman-alpha
	FUV	$122 \leq \lambda < 200$	$122 \text{ nm} \leq \lambda < 200 \text{ nm}$	Far Ultraviolet
	UVC	$100 \leq \lambda < 280$	$100 \text{ nm} \leq \lambda < 280 \text{ nm}$	Ultraviolet C
	MUV	$200 \leq \lambda < 300$	$200 \text{ nm} \leq \lambda < 300 \text{ nm}$	Middle Ultraviolet
	UVB	$280 \leq \lambda < 315$	$280 \text{ nm} \leq \lambda < 315 \text{ nm}$	Ultraviolet B
	NUV	$300 \leq \lambda < 400$	$300 \text{ nm} \leq \lambda < 400 \text{ nm}$	Near Ultraviolet
	UVA	$315 \leq \lambda < 400$	$315 \text{ nm} \leq \lambda < 400 \text{ nm}$	Ultraviolet A
Visible	VIS	$380 \leq \lambda < 760$	$380 \text{ nm} \leq \lambda < 760 \text{ nm}$	optical
		$360 \leq \lambda < 450$	$360 \text{ nm} \leq \lambda < 450 \text{ nm}$	purple
		$450 \leq \lambda < 500$	$450 \text{ nm} \leq \lambda < 500 \text{ nm}$	blue
		$500 \leq \lambda < 570$	$500 \text{ nm} \leq \lambda < 570 \text{ nm}$	green
		$570 \leq \lambda < 591$	$570 \text{ nm} \leq \lambda < 591 \text{ nm}$	yellow
		$591 \leq \lambda < 610$	$591 \text{ nm} \leq \lambda < 610 \text{ nm}$	orange
		$610 \leq \lambda < 760$	$610 \text{ nm} \leq \lambda < 760 \text{ nm}$	red
Infrared	IR	$760 \leq \lambda < 1\ 000\ 000$	$760 \text{ nm} \leq \lambda < 1.00 \text{ mm}$	
	IR-A	$760 \leq \lambda < 1400$	$760 \text{ nm} \leq \lambda < 140 \text{ }\mu\text{m}$	Near Infrared
	IR-B	$1400 \leq \lambda < 3000$	$140 \text{ }\mu\text{m} \leq \lambda < 3.00 \text{ }\mu\text{m}$	Middle Infrared
	IR-C	$3000 \leq \lambda < 1\ 000\ 000$	$3.00 \text{ }\mu\text{m} \leq \lambda < 1.00 \text{ mm}$	Far infrared
Microwave		$1\ 000\ 000 \leq \lambda < 15\ 000\ 000$	$1.00 \text{ mm} \leq \lambda < 15.00 \text{ mm}$	
	W	$3.00 \times 10^6 \leq \lambda < 5.35 \times 10^6$	$3.00 \text{ mm} \leq \lambda < 5.35 \text{ mm}$	$(100.0 \geq \nu > 56.0) \text{ GHz}$
	V	$5.35 \times 10^6 \leq \lambda < 6.52 \times 10^6$	$5.35 \text{ mm} \leq \lambda < 6.52 \text{ mm}$	$(56.0 \geq \nu > 46.0) \text{ GHz}$
	Q	$6.52 \times 10^6 \leq \lambda < 8.33 \times 10^6$	$6.52 \text{ mm} \leq \lambda < 8.33 \text{ mm}$	$(46.0 \geq \nu > 36.0) \text{ GHz}$
	K	$8.33 \times 10^6 \leq \lambda < 2.75 \times 10^7$	$8.33 \text{ mm} \leq \lambda < 27.5 \text{ mm}$	$(36.0 \geq \nu > 10.90) \text{ GHz}$
	X	$2.75 \times 10^7 \leq \lambda < 5.77 \times 10^7$	$27.50 \text{ mm} \leq \lambda < 57.70 \text{ mm}$	$(10.90 \geq \nu > 5.20) \text{ GHz}$
	C	$4.84 \times 10^7 \leq \lambda < 7.69 \times 10^7$	$48.40 \text{ mm} \leq \lambda < 76.90 \text{ mm}$	$(6.20 \geq \nu > 3.90) \text{ GHz}$
	S	$5.77 \times 10^7 \leq \lambda < 1.93 \times 10^8$	$57.70 \text{ mm} \leq \lambda < 193.00 \text{ mm}$	$(5.20 \geq \nu > 1.55) \text{ GHz}$
	L	$1.93 \times 10^8 \leq \lambda < 7.69 \times 10^8$	$193.00 \text{ mm} \leq \lambda < 769.00 \text{ mm}$	$(1.550 \geq \nu > 0.390) \text{ GHz}$
P	$7.69 \times 10^8 \leq \lambda < 1.33 \times 10^9$	$769.00 \text{ mm} \leq \lambda < 1.33 \text{ m}$	$(0.390 \geq \nu > 0.225) \text{ GHz}$	
Radio		$100\ 000 \leq \lambda < 100\ 000\ 000\ 000$	$0.10 \text{ mm} \leq \lambda < 100 \text{ m}$	measurements: $(1\ 000\ 000 \leq \lambda < 10\ 000\ 000\ 000) \text{ nm}$
	EHF	$1.00 \times 10^6 \leq \lambda < 1.00 \times 10^7$	$1.00 \text{ mm} \leq \lambda < 10.00 \text{ mm}$	Extremely High Frequency $(300 \geq \nu > 30) \text{ GHz}$
	SHF	$1.00 \times 10^7 \leq \lambda < 1.00 \times 10^8$	$10.00 \text{ mm} \leq \lambda < 100.00 \text{ mm}$	Super-High Frequency $(30 \geq \nu > 3) \text{ GHz}$
	UHF	$1.00 \times 10^8 \leq \lambda < 1.00 \times 10^9$	$100.00 \text{ mm} \leq \lambda < 1.00 \text{ m}$	Ultra-High Frequency $(3000 \geq \nu > 300) \text{ MHz}$
	VHF	$1.00 \times 10^9 \leq \lambda < 1.00 \times 10^{10}$	$1.00 \text{ m} \leq \lambda < 10.00 \text{ m}$	Very-High Frequency $(300 \geq \nu > 30) \text{ MHz}$
	HF	$1.00 \times 10^{10} \leq \lambda < 1.00 \times 10^{11}$	$10.00 \text{ m} \leq \lambda < 100.00 \text{ m}$	High Frequency $(30 \geq \nu > 3) \text{ MHz}$