Annex III

Units

Table AIII.1 Basic SI units

Physical Quantity	Unit	
	Name	Symbol
Length	meter	m
Mass	kilogram	kg
Time	second	s
Thermodynamic temperature	kelvin	K
Amount of substance	mole	mol

Table AIII.2 Multiplication factors

Multiple	Prefix	Symbol	Multiple	Prefix	Symbol
10^{-1}	deci	d	10	deca	da
10^{-2}	centi	c	10^{2}	hecto	h
10^{-3}	milli	m	10^{3}	kilo	k
10^{-6}	micro	μ	10^{6}	mega	M
10^{-9}	nano	n	10^{9}	giga	G
10^{-12}	pico	p	10^{12}	tera	T
10^{-15}	femto	f	10^{15}	peta	P

Table AIII.3 Special names and symbols for certain SI-derived units

Physical Quantity	Unit		
	Name	Symbol	Definition
Force	newton	N	kg m s^{-2}
Pressure	pascal	Pa	kg m^{-1} s^{-2} (= N m^{-2})
Energy	joule	J	kg m^2 s^{-2}
Power	watt	W	kg m^2 s^{-3} (= J s^{-1})
Frequency	hertz	Hz	s^{-1} (cycles per second)

Table AIII.4 Decimal fractions and multiples of SI units having special names

Physical quantity	Unit		
	Name	Symbol	Definition
Length	micron	μm	10^{-6} m
Area	hectare	ha	10^{4} m^2
Volume	litre	L	10^{-3} m^3
Pressure	bar	bar	10^{5} N m^{-2} = 10^{5} Pa
Pressure	millibar	mb	10^{2} N m^{-2} = 1 hPa
Mass	tonne	t	10^{3} kg
Mass	gram	g	10^{-3} kg

Table AIII.5 Other units

Symbol	Description
°C	Degree Celsius (0°C = 273 K approximately) Temperature differences are also given in ºC (= K) rather than the more correct form of 'Celsius degrees'
D	Darcy, unit for permeability, 10^{-12} m^2
ppm	Parts per million (10^{6}), mixing ratio (μmol mol^{-1})
ppb	Parts per billion (10^{9}), mixing ratio (nmol mol^{-1})
h	Hour
yr	Year
kWh	Kilowatt hour
MWh	Megawatt hour
$MtCO_2$	Megatonnes (1 Mt = 10^{9} kg = 1 Tg) CO_2
$GtCO_2$	Gigatonnes (1 Gt = 10^{12} kg = 1 Pg) CO_2
tCO_2 MWh^{-1}	tonne CO_2 per megawatt hour
US$ kWh^{-1}	US dollar per kilowatt hour