Annex IV

Units

IV.1 SI (Systeme Internationale) Units

Table IV.1. Basic SI units.

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

Table IV.2. Multiplication factors

	Prefix		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 IV.3. Special Names and Symbols for Certain SI–Derived Units

	Unit		
Physical Quantity	Name		Definition
Force		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 IV.4. Decimal Fractions and Multiples of SI Units having Special Names

		Unit	
Physical Quantity	Name		Definition
Length	Ångstrom	Å	10^{-10} m = 10^{-8} cm
Length	micron	µm	10^{-6} m
Area	hectare	ha	10^{4} m^{2}
Volume	litre	L	10^{-3} m^{3}
Force	dyne	dyn	10^{-5} N
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
Column density	Dobson units[a]	DU	2.687 × 10^{16} molecules cm^{-2}
Streamfunction	Sverdrup	Sv	10^{6} m^{3} s^{-1}

[a] See 'Dobson units' in glossary.

IV.2 Other Units

Table IV.5. Other units.

Symbol	Description
ºC	Degree Celsius (0°C = 273 K approximately) Temperature differences are also given in ºC (= K) rather than the more correct form of 'Celsius degrees'
ppm	Parts per million (10^{6}), mixing ratio[a] (µmol mol^{-1})
ppb	Parts per billion (10^{9}), mixing ratio[a] (nmol mol^{-1})
ppt	Parts per trillion (10^{12}), mixing ratio[a] (fmol mol^{-1})
yr	Year
$MtCO_2$-eq	Megatonnes (1 Mt = 10^{6} kg = 1 Gg) CO_2-equivalent[b]
$GtCO_2$-eq	Gigatonnes (1 Gt = 10^{12} kg = 1 Pg) CO_2-equivalent[b]
MtN	Megatonnes of nitrogen

[a] See 'mixing ratio' in glossary.
[b] See 'CO_2-equivalent' in glossary.

IV.3 Costs

Unless stated otherwise, specific costs are calculated or reported using 5% per year as the default discount rate. The expected lifetime of the equipment is used as the depreciation period.

Costs are expressed in US$$_{(2002)}$, unless stated otherwise.

To correct cost data for the effect of inflation, the deflator for the gross domestic product (GDP) is applied for years other than 2002.

The conversion of currencies is based on the exchange rate on 31 July of the respective year.