List of abbreviations

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	1,25(OH)2D	1,25-Dihydroxyvitamin d	HFC	Hydrofluorocart
AKActic vertatosisHgMerAOArctic oxillation. A large-scale variation in Arctic wind patternsHWHurAPaseAlkaline phosphatasHPVHurAPCAntigen presenting cellHSVHerAPCAbove scale levelHYSTranBCCBasal cell carcinoma(s)effecBrBromine (an ozone depleting chemical)IBDInfitBrOBromine monoxideILInticBWFBiological spectral weighting functionsInk4aMuBWFBiological spectral weighting functionsIR4aKitCDCortical catract(S)kdaKitCDFAChlorodifluoroacetic acidKNMIDutCDCColored dissolved organic carbonL'LipiCDOCColored (or chromophoric) dissolved organic matterMAAMyCPDCyclobulane pyrimidine dimerMAMyCPCChlorodifluoroacetha.ec/Cl-Fj, nowMHCMaiCHcontrolled under the Montreal ProtocolMSMuiCHcommission on Illumination)redirediCCHcolonovide (a greenhouse gas)NCNorCOCarbon monoxideNCARNatCOCarbon monoxideNAAANatCOCarbon monoxideNCARNatCOCarbon monoxideNCARNatCDContact hypersensitivityN,ONorCHContact hypersensitivityN,ONorCH	25(OH)D	25-Hydroxyvitamin d		with zero ozone
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ASL Above sea level HY 5 IFA BCC Basal cell carcinoma(s) effet Br Bromine (an ozone depleting chemical) IBD Infti BrO Bromine monoxide IL Intte BWF Biological spectral weighting functions Ink4a Mun BWF Biological weighting function IPCC Intel CAS Chemical Abstracts Service IPF Innn CC Cortical cataract(s) Kda Kli CDOK Climatic droplet keratopathy Seis CDOC Colored (or chromophoric) dissolved organic matter MAA Myy CPD Cyclobutane pyrimidine dimer Mb McI CPC Chlorodifluorocarbon. Ozone-damaging chemical (e.g., MCIR Mdi CH Contact hypersensitivity N ₂ O Nitr CH Contact hypersensitivity N ₃ O Nitr CH Commission Internationale de l'Eclairage (International NAO Nor CG Carbon monxide NaSA Nati CO Carbon dioxide (a greenhouse gas) NC Nu CH Chataneous melanoma NASA Nati CO Carbon monxide Nati Noti </td <td>APC</td> <td>Antigen presenting cell</td> <td>HSV</td> <td>Herpes simplex</td>	APC	Antigen presenting cell	HSV	Herpes simplex
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$\begin{array}{cccc} \text{CDOC} & \text{Colored dissolved organic carbon} & \text{L} & \text{Lpp} \\ \text{CDOM} & \text{Colored (or chromophoric) dissolved organic matter} & \text{MAA} & \text{Myx} \\ \text{CPD} & \text{Cyclobutane pyrimidine dimer} & \text{Mb} & \text{Meg} \\ \text{CFC} & \text{Chlorofluorocarbon. Ozone-damaging chemical (e.g., } & \text{MCIR} & \text{Mel} \\ \text{CFC} & \text{Ci-licholorofluoromethane. CCl; F_), now} & \text{MHC} & \text{Maj} \\ \text{controlled under the Montreal Protocol} & \text{MS} & \text{Mul} \\ \text{CH} & \text{Contact hypersensitivity} & \text{N}_{2}\text{O} & \text{Nitr} \\ \text{CH} & \text{Methane (a greenhouse gas)} & \text{NOO} \\ \text{CIE} & \text{Commission Internationale de l'Eclairage (International NAO Nor \\ Commission on Illumination) & redi \\ \text{CO} & \text{Carbon monoxide} & \text{NaTFA} & \text{Sod} \\ \text{CO} & \text{Carbon monoxide} & \text{NaTFA} & \text{Sod} \\ \text{CO} & \text{Carbon monoxide} & \text{NaTFA} & \text{Sod} \\ \text{CO} & \text{Carbon dioxide (a greenhouse gas)} & \text{NC} & \text{Nuc} \\ \text{CVac} & \text{Copper (Cu(i) and Cu(ii) being different oxidation states)} & \text{NIMBUS-7} & \text{A} \\ \text{DIC} & \text{Dissolved iorganic carbon} & \text{NIVR} & \text{Net} \\ \text{DMS} & \text{Dimethylsulfon} \\ \text{Dimethylsulfoniopropionate} & \text{NMSC} & \text{Non} \\ \text{DNA} & \text{Decxyribonucleic acid} & \text{NO} & \text{Nitr} \\ \text{DOM} & \text{Dissolved organic carbon} & \text{NO}_{2} & \text{Nitr} \\ \text{DOM} & \text{Dissolved organic matter} & \text{NOAA} & \text{Nat} \\ \text{DOM} & \text{Dissolved organic matter} & \text{NOAA} & \text{Nat} \\ \text{DOM} & \text{Dissolved organic matter} & \text{NOAA} & \text{Nat} \\ \text{DOM} & \text{Dissolved organic matter} & \text{NOAA} & \text{Nat} \\ \text{DOM} & \text{Dissolved organic matter} & \text{NOAA} & \text{Nat} \\ \text{ENSO} & \text{Climatology and Evaluation} & \text{Climatology and Evaluation} \\ \text{Climatology and Evaluation} & \text{PAH} & \text{Poly} \\ \text{ENSO} & \text{El Niño Southern Oscillation. A large-scale climate \\ \text{Climatology and Evaluation} & \text{PAR} & \text{Pho} \\ \text{FP} & \text{Entrimental Allergic encephalitis ifferent vidation states}) \\ \text{FM} & Fininish Metcorol$	CDK	Climatic droplet keratopathy	.	Seismology (The
	CDOC	Colored dissolved organic carbon	L.	Lipid radical
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$ \begin{array}{cccc} Chiorofluorocarbon, Ozone-damaging chemical (e.g., MC1R Mel CFC1; i dichlorofluoromethane, CC1F2), now MHC Maj controlled under the Montreal Protocol MS Mul CH CC1, i dichlorofluoromethane, CC1F2), now MHC Maj controlled under the Montreal Protocol MS Mul CH CC1, Contact hypersensitivity No.20 Nitr CH, Methane (a greenhouse gas) NO. CIE Commission Internationale de l'Eclairage (International NAO Nor Commission on Illumination) redit Chlorine (an ozone depleting chemical) Proc CM Cutaneous melanoma NASA Natt CO Carbon monoxide NATFA Sod CO2 Carbon dioxide (a greenhouse gas) NC Nuc COS Carbonyl sulfide NCAR Natt CPD Cyclobutane pyrimidine dimer NH Nor Cu Copper (Cu(1) and Cu(1) being different oxidation states) NIMBUS-7 A N DIC Dissolved inorganic carbon NIVR Nett DMS Dimethylsulfide NMHCS Non DMSP Dimethylsulfide NMHCS Non DMSP Dimethylsulfide NOA Natt DOO Dissolved organic matter NOAA Natt DON Dissolved organic introgen (US SBB Double strand break NOEC No Cu Corone (1 DU = 2.69 \times 10^6 molecules cm-3) ODS Ozo ozone (1 DU = 2.69 \times 10^6 molecules cm-3) ODS Ozo Ozone (1 DU = 2.69 \times 10^6 molecules cm-3) ODS Ozo Ozone (1 DU = 2.69 \times 10^6 molecules cm-3) ODS Ozo Ozone (1 DU = 2.69 \times 10^6 molecules cm-3) P hot Probe [a NASA state] (PP Photogen Database for Ultraviolet Radiation ager Climatology and Evaluation P P Photogen Database for Ultraviolet Radiation A large-scale climate OTR Orgg variability in the Pacific region P P AM Puls EV Epidermodysplasia verruciformis P P RA Photogenesis-related (PR) protein P PAR Photogenesis-related (PR) protein (e.g., R22: PHR1 The chlorodifluoromethane CHClF2) to be phased out PNEC Prec$	CPD	Cyclobutane pyrimidine dimer	Mb	Megabase, equal
$ \begin{array}{c} \operatorname{CPC1}_{1:} \operatorname{identorodiffuoromethane. \operatorname{CC1}_{1:}_{2:}, \operatorname{now} & MHC & Maj \\ \operatorname{controlled under the Montreal Protocol & MS & Mul \\ \operatorname{CH} & \operatorname{Contact hypersensitivity} & N_{2}O & Nitr \\ \operatorname{CH}_{4} & \operatorname{Methane} (a greenhouse gas) & NO \\ \operatorname{CIE} & \operatorname{Commission nternationale de l'Eclairage (International & NAO \\ & \operatorname{Nor Commission non Illumination)} & redix \\ \operatorname{Commission on Illumination} & redix \\ \operatorname{Commission non on the de l'Eclairage (International & NAO \\ & \operatorname{Natreous melanoma} & NASA & Nat \\ \operatorname{CO} & \operatorname{Carbon monoxide} & NATFA & Sod \\ \operatorname{CO}_{2} & \operatorname{Carbon dioxide} (a greenhouse gas) & NC & Nuc \\ \operatorname{COS} & \operatorname{Carbonyl sulfide} & NCAR & Nat \\ \operatorname{CPD} & \operatorname{Cyclobutane pyrimidine dimer & NH & Nor \\ \operatorname{Cu} & \operatorname{Copper} (\operatorname{Cu}() \operatorname{nod} \operatorname{Cu}(n) \operatorname{being different oxidation states) & NIVR & Net \\ DMS & Dimethylsulfide & NMHC & Non \\ DMS & Dimethylsulfinoipropionate & NMSC & Non \\ DMS & Dimethylsulfoniopropionate & NOA & Nat \\ DOO & Dissolved organic carbon & NOA & Nat \\ DOM & Dissolved organic introgen & (US \\ DSB & Double strand break & NOA & Noi \\ DTH & Delayed type hypersensitivity & NoX & Nitr \\ DU & Dobson Unit (used for the measurement of total column \\ ozone (1 DU = 2.69 \times 10^{16} molecules cm^{-2}) & ODS & Ozo \\ eAE & Experimental allergic encephalitis & 'OH & Hyd \\ EDUCE & European Database for Ultraviolet Radiation & ager \\ climatology and Evaluation & Alarge-scale climate & OTR & Org \\ variability in the Pacific region & P & Pho \\ Pho \\ PH & Earth Probe (a NASA satellite) & PAH & Poly \\ EV & Epidermodysplasia verruciformis & PAR & Pho \\ Fe & Iron (Fe(1) and Fe(10) being different oxidation states) & FH & Poly \\ Fe & Iron (Fe(1) and Fe(10) being different oxidation \\ Gliu I & A pathogenesis-related (PR) protein \\ For (FCs with small ozone depletion potential (e.g., R22: \\ PHRI & Finnish Meteorological Institute \\ ChCrockinducoremethane CHCIF_2) to be phased out \\ PNEC & Prec \\ \enderlowed anime light stabilizer \\ \enderlowed anime light stabilizer \\ \enderlowed anime light stabilizer \\ \enderlowed anime lig$	CFC	Chlorofluorocarbon. Ozone-damaging chemical (e.g.,	MCIR	Melanocortin I
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		chorounuorometrane $CHCIF_2$) to be phased out	PNEC	Predicted no effe

IFC	Hydrofluorocarbon. Long-term replacements for CFCs,
Ig	Mercury (Hg(0)aq and Hg(II) being different oxidation
	states)
IIV	Human immunodeficiency virus
IPV	Human papillomavirus
ISV	Herpes simplex virus
IY5	Transcription factor HY5, which is a key downstream effector of the UVR8 (UV-regulatory protein) pathway
BD	Inflammatory bowel disease
L	Interleukin
nk4a	Murine inhibitor of kinase 4a protein (gene in italics)
PCC	Intergovernmental Panel on Climate Change
PF	Immune protection factor
da	Kilodalton
NMI	Dutch National Institute for Weather, Climate and Seiemology (The Natherlands)
•	Lipid radical
ΛΔΔ	Mycosporine-like amino acids
/h	Merchase equal to 1 million base pairs
4C1D	Melanosortin 1 recentor
	Maiar histocompatibility complex
INC	Major histocompatibility complex
45	Multiple scierosis
1 ₂ O	Nitrous oxide (a greenhouse gas that is also a source of NO_2)
JAO	North Atlantic Oscillation. A large-scale variation and redistribution of atmospheric mass in the Atlantic region
	producing large changes in the NH dynamics
JASA	National Aeronautic and Space Administration (USA)
JaTFA	Sodium trifluoroacetate
IC	Nuclear cataract(s)
JCAR	National Centre for Atmospheric Research (USA)
ΙH	Northern Hemisphere
IMBUS-7	A NASA satellite
JIVR	Netherlands Agency for Aerospace Programmes
IMHCs	Non-methane hydrocarbons
IMSC	Non-melanoma skin cancer
JO	Nitric oxide (an ozone depleting gas)
JO.	Nitrogen dioxide (an ozone depleting gas)
	National Oceanic and Atmospheric Administration
	(USA)
NOEC	No observed effect concentration
Ox	Nitrogen oxides
) ₃	Ozone
DDS	Ozone depleting substance(s)
OH	Hydroxyl radical (and important atmospheric cleaning
	agent)
DMI	Ozone monitoring instrument (on board the Aura satellite)
TR	Organ transplant recipients
)	Phosphorous
АН	Polycyclic aromatic hydrocarbon(s)
	Pulse amplitude modulated (fluorescence)
	Photographetically active rediction 400, 700 nm
	r notosynthetically active radiation, 400–700 nm
	Waveband
AUK II	Photochemical activity and solar ultraviolet radiation
<i>~~</i>	campaign 2
CO_2	Partial pressure of carbon dioxide
ЪЕС	Predicted environmental concentration
g	Peta gram $(1 \times 10^{12} \text{ grams})$
HR1	The gene encoding CPD photolyase
NEC	Predicted no effect concentration
NEC	Predicted no effect concentration

POC	Particulate organic carbon	Treg cell	T-regulatory cell
POM	Particulate organic matter	Troposphere	Lowest part of the Earth's atmosphere (0–16 km)
PR	Pathogenesis-related proteins	UCÂ	Urocanic acid
PSC	Posterior subcapsular cataract(s)	UV	Ultraviolet. Wavelengths from 100 nm to 400 nm. Ozone
PSC	Polar stratospheric cloud (ice crystals which form at high altitudes in Polar regions when the temperature is below a critical threshold)		and other atmospheric gases progressively absorb more and more of the radiation at wavelengths less than 320 nm. Only those greater than 290 nm are transmitted
Ptc	Murine patch protein (gene in italics)		to the Earth's surface
PTCH	Human patch protein (gene in italics)	UV-A	Electromagnetic radiation of wavelengths in the 315 to
QBO	Quasi biennial oscillation (a shift in wind		400 nm range
	patterns-especially over the tropics-with a period of	UV-B	Electromagnetic radiation of wavelengths in the 280 to
	approximately 2.2 years)		315 nm range
RA	Rheumatoid arthritis	UV-C	Electromagnetic radiation of wavelengths in the 100 to
RAF	Radiation amplification factor (a measure of sensitivity		280 nm range
	to ozone change)	UVEry	Erythemally-weighted UV irradiance, where the
ROS	Reactive oxygen species ('OH, for example)		irradiance is weighted by the erythemal action spectrum
RT	Radiative transfer	UVI	UV index, a standard scale for reporting UV irradiance
SAGE	Stratospheric aerosol and gas experiment, a		to the public. The UVI is a unitless number which is
	satellite-based instrument		40 times the erythemally-weighted irradiance, measured
SCC	Squamous cell carcinoma		in units of W m ⁻²
SH	Southern Hemisphere	UVR8	UV-regulatory protein
SZA	Solar zenith angle (<i>i.e.</i> the angle between zenith and the	VDR	Vitamin d receptor
	centre of the solar disk)	VOC	Volatile organic compound(s)
TFA	Trifluoroacetic acid	WMO	World Meteorological Organization
Th1	T-helper 1	WOUDC	World Ozone and UV Data Centre
Th2	T-helper 2	XP	Xeroderma pigmentosum
TOMS	Total ozone mapping spectrometer, a satellite-based		
	instrument		