



INDEX

absorption line	221	differential rotation	32
active prominence	64	disk (of the Sun)	20
active region	50	distant neutral line	127
adaptive optics	26	dynamo	33
Advanced Technology Solar Telescope	26		
aerosol	105	eccentricity (of an ellipse)	106
alpha particle	132	electric field	145
anomalous cosmic ray; ACR	131	effective temperature	74
anthropogenic	222	electromagnetic radiation	71
astronomical unit (A.U.)	253	electromagnetic spectrum	60
atom	1	electron	1
atomic weight	188	electron volt; EV	87
aurora	7	electrostatic discharge; ESD	192
aurora australis	6	elliptical	106
aurora borealis	6	El Niño, la Niña	160
auroral oval	151	ENSO (El Niño Southern Oscillation)	224
auroral substorms	148	equatorial orbit	184
		eruptive prominences	25
biosphere	159	EVA (extra-vehicular activity)	166
bow shock	85	exosphere	81
bulk speed	118	extreme ultraviolet; EUV	102
bulk motion	115		
		facula (plural, faculae)	23
carbon cycle	159	filament	60
Cassini spacecraft	42	firn	229
Cérenkov radiation	174	flare; solar flare	57
chromosphere	34	fossil fuel	3
chromospheric network	36	frequency	195
climate sensitivity	221		
closed field line	50	galactic cosmic rays, GCRs	131
CME	40	galaxy	1
convection	53	Galileo Galilei	20
convection cell	13	gamma rays	4
convection zone	31	gap, or slot region	89
Copernicus, Nicholas	22	geomagnetic storm (see magnetic storm)	7
corona; solar corona	35	geosynchronous (geostationary) orbit	94
coronagraph	40	geotail; geomagnetic tail; magnetotail	124
coronal hole	118	global electric circuit	155
coronal mass ejection; CME	40	Goldsmid, Johann	20
coronal streamers	36	granule	30
cosmic rays	1	great circle	169
cosmic ray shower, cascade	133	ground-induced current; geomagnetically	
cosmogenic nuclide	225	induced current, GIC	201
cosmos	1		
Cretaceous period	58	half-life	227
D, E, and F-regions	157	Harriot, Thomas	20
daytime aurorae	152	heavy elements	83
density	4	heliospause	92
		heliophysics	9

helioseismology	31	penumbra (of a sunspot)	27
heliosheath	96	photic zone	225
heliosphere	45	photon	102
high-speed solar wind; high-speed stream	148	photosphere	13
Holocene epoch	230	photosynthesis	3
hydrologic cycle	159	pion	133
infrared; infrared radiation	19	plage	69
inner radiation belt	89	planets, seen from Sun	15
insolation	225	plasma	35
interplanetary magnetic field; IMF	143	plasmapause	92
ion	4	plasma sheet	124
ionization; ionize	35	plasmasphere	91
ionizing radiation	168	plate tectonics	159
ionosphere	79	Pleistocene epoch	131
isotope	219	polar cap	126
kinetic energy	47	polar cap aurora	152
kinetic temperature	74	polar cusps	86
Lagrangian point	185	polar orbit (around the Earth)	94
limb (of the Sun)	29	polar plumes	37
luminosity	18	positive ion	87
magnetic field	4	primary cosmic ray	90
magnetic field lines; magnetic lines of force	31	prominence; solar prominence	36
magnetic reconnection; magnetic merging	47	proton	1
magnetic pole	7	proxy record; proxy data	56
magnetic storm (geomagnetic storm)	7	quiescent prominence	64
magnetometer	205	radiant energy	17
magnetopause	82	radiation	15
magnetosheath	124	radiation belts; Van Allen belts	88
magnetosphere	71	radiative zone	32
Maunder Minimum	56	radio frequency spectrum	103
mesopause	78	radio telescope	239
mesosphere	78	radio waves	1
Milankovitch effect	107	red giant	16
molecule	1	resolution	40
Muir, John	10	ring current	145
muon	133	rotation (of the Earth)	173
NASA, est. 1958	6	satellite drag	184
near-Earth neutral line	127	Saturn	21
near-infrared	19	Scheiner, Christopher	20
near-ultraviolet	77	scattering	21
neutral line	126	scintillation	197
neutron	45	secondary cosmic ray	90
neutron monitor	133	sectors	46
North Atlantic Oscillation; NAO	224	seismology	31
northern lights	148	shock wave	113
nucleus (of an atom)	182	short-wave radiation	4
open field line; open magnetic field line	50	single event effect; SEE	192
outer radiation belt	89	single event upset; SEU	192
ozone layer; stratospheric ozone layer	74	skylight, color of	24
		slow-speed solar wind; slow speed stream	49
		solar activity	51
		solar atmosphere	34
		solar constant	99

solar cycle; sunspot cycle	5	Swedish Solar Telescope	28
solar dynamo	33	System Observatory	9
solar energetic proton; SEP	115		
solar equator	13	tachocline	33
solar granulation	30	termination shock	93
solar interior	14	Tertiary period	58
solar irradiance	212	thermal electrons	111
solar magnetic cycle	52	thermal energy	113
solar system	1	thermal inertia	79
solar wind	45	thermohaline circulation	224
South Atlantic Anomaly; SAA	174	thermosphere	78
space weather	235	Thompson, Francis	10
space climate	235	toroidal, toroid	32
spectrum	17	total solar eclipse; total eclipse	34
spicule	36	total solar irradiance	99
Spörer Minimum	56	transition zone	35
SRAG, Space Radiation Analysis Group	246	Trojan asteroid	186
stratopause	77	tropopause	76
stratosphere	76	troposphere	75
streamer; coronal streamer	36		
Sun, age of	15	ultraviolet radiation	172
Sun, energy source	3	ultraviolet spectrum	17
Sun, expected lifetime	16	umbra (of a sunspot)	27
sunshine tax	15	universe	15
Sun, power in kilowatts	15	UV-A and UV-B	6
sunspot	14		
sunspot cycle; solar cycle	19	Van Allen radiation belts	88
sunspot number	51	visible spectrum	17
sunspot maximum or minimum; solar maximum or minimum	5	wavelength	17
Sun, temperatures of	16	wave-particle interaction	89
supergiant	13	white light	24
super-granulation cells	36		
suprathermal particles	91	x-rays	172
SWPC, Space Weather Prediction Center	246		

The Index is intended as a guide for locating the initial or principal reference for specific technical words or phrases.