

Abbreviations for Scientific Programs

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1 General Points

This document describes programming *abbreviations*. Abbreviations are quite general: Any shortened form of a word, phrase, or concept is an abbreviation. Hence, abbreviations can be acronyms, initialisms, or nicknames. Concise abbreviations for variable names are especially important because they help make a program become self-documenting and thus easier to maintain. Consistent abbreviations across programs are important because then whole suites of code can be updated and improved in a more modular fashion. An alternative method of naming variables is the *Hungarian notation* method originated by Charles Simonyi of Microsoft <http://msdn.microsoft.com/library/default.asp?url=/library/en-us/dnvsngen/html/hunganotat.asp>

1.1 Abbreviations

Abbreviations are usually used for variable names in a program. Naming a variable appropriately often speeds up programming by reducing the introduction of bugs to the program, and by making future maintenance easier. An effective abbreviation has a number of desirable qualities.

- Concise
- Unambiguous
- Easy to remember
- Distinct from English

Here are some guidelines which help in creating abbreviations with these qualities:

1. A common acronym, if it exists, is preferable to creating a new abbreviation (e.g., SWCF).

2. Abbreviations which do not contain common letter combinations of the English language are much easier to program. Searching and replacing uncommon letter combinations lessens the risk of corrupting plain text and comments in the program. For example, using `flx` rather than `flux` saves only one letter, but makes code maintenance much easier.
3. Phonetic abbreviations are often superior mnemonics. Use, e.g., `nvr` rather than `env` for “environment”. Phonetic abbreviations make it easier to use consonants, which are better than vowels in abbreviations.
4. All things being equal, three letter abbreviations, or groups of them, are best. Three letters are easy to remember yet there are enough permutations to abbreviate almost atomic concept into a three letter abbreviation.
5. Single letter abbreviations, e.g. “`t` = temperature”, are always a mistake. It is nearly impossible to perform a quick search or search-and-replace on a single letter variable.
6. Sometimes an abbreviation is an acronym but is not capitalized. Capitalize the abbreviation when it is common (e.g., `SWCF`), but leave it lowercase when it is uncommon (e.g., `mpc`).

1.2 Variable Names

Use underscores to aggregate abbreviations into longer groups which compose a variable name. Underscores are easier to proofread than the X-style capitalization method, e.g., `flx_bb_dwn_sfc` vs. `FlxBbDwnSfc` or `FluxBroadbandDownSurface`. Variables names constructed in this manner have the desirable property that, when they are alphabetized, related variables are grouped together.

1.3 Definitions

Often an abbreviation is used to keep a quantity distinct from a related but distinct quantity. In these cases the abbreviations are called *antonyms*. In the list, the antonym of a given definition is indicated by “*ant.*”. Occasionally an abbreviation has a synonym, too. In the list, the synonyms are indicated by “*syn.*”.

The abbreviation is followed by the definition. In some cases the definition has multiple related meanings—these are separated by commas, e.g., “`abs` = absorption, absorbed, absorbing”.

In a few cases, the definition has multiple distinct meanings—these are separated from one another by “or”, e.g., “`aer` = aerosol, aerosol-laden (turbid), or aerodynamic”.

2 Abbreviations

Abbreviations of business, financial, and travel terms:

AA	Adverse Action
AC	Authorization Code
AC70	fxm (Access Code 70?)
AF	Annual Fee

AGC	Amazon Gift Card
AOR	App-O-Rama, Application-O-Rama
AP	Amazon Payments
AW	AwardWallet
AX	American Express
BB	Bluebird
BC	Bancorp
BF	BeFrugal
BP	Bill Pay
BX	Business Expense
CA	Cash-Advance
CB	Cash-Back or Category Bonus
CC	Credit Card
CI	Credit Issuer
CK	Credit Karma
CL	Credit Limit
CRA	Credit Rating Agency
CSR	Customer Service Representative
DC	Debit Card
EF	ExpertFlyer.com
FA	Fraud Alert
FR	Financial Review
FT	FlyerTalk
GB	GoBank
GC	Gift Card
GCB	GE Capital Bank
GCM	Gift Card Mall
GGD	Grocery/Gas/Drugs
GP	Google Play
GS	Gas Station
GW	Google Wallet
HD	Home Depot
HP	Hard Pull
Kate	Walmart ATM?
KV	Kiva
LL	Load Limits
MB	Metabank
MC	MoneyCenter (in Walmart) or Money Card (Walmart product) or MasterCard
MGC	Metabank Gift Card
MO	Money Order
MS	Manufactured Spend
MVD	MyVanilla Debit Card
NAF	No Annual Fee
NF	No Fee
OD	Office Depot

	OM	OfficeMax
	OSS	Office Supply Store
	OV	One Vanilla
	OVGC	OneVanilla Gift Card
	PFF	Purchased for Friend (e.g., GCs)
	PP	PayPal
	PPMC	PayPal MyCash
	PPRP	PayPal Reload Pack
	RA	Rite-Aid
	RB	Retention Bonus
	RPC	Reloadable Prepaid Card (VRC, PPRP)
	RR	fxm (like BB at WM?)
Rite Aid	Rite Aid	Rite Aid
	SB	Starbucks
	S4C	Savingforcollege
	SM	Send Money
	SP	Soft Pull or Shopping Portal
	SRV	(AmEx) Serve
	RDB	REDBird = Target Prepaid REDcard
ST DL	Suntrust Delta (debit card)	
	TCB	TopCashBack
	USB	US Bank
	VGC	Vanilla Gift Card (not Visa GC by convention)
	VR	Vanilla Reload
	VRC	Vanilla Reload Card
	VSE	Visa Savings Edge
	VVC	Vanilla Visa Card
	WM	WalMart
	WP	fxm
	ACH	Automated Clearing House
	ADR	American Depository Receipt
	ADS	American Depository Share
	AFR	Applicable Federal Rate
	AGI	Adjusted Gross Income
	FTR	Effective Tax Rate
MAGI	Modified Adjusted Gross Income	
	AMC	After Market Closes
	APR	Annual Percentage Rate
	APY	Annual Percentage Yield
	ARL	Airline Record Locator
	ARM	Adjustable Rate Mortgage
	ATN	Airline Ticket Number (13 digit number)
BCON	Beacon Power	
	BIC	Bank Identifier Code
	BK	Bankruptcy

BMO	Before Market Opens
BP	La Banque Postale
C1	CapitalOne
CAP	Capital Accumulation Payment
CB	Carte Bleue
CBP	Customs & Border Protection
CCP	Compte Courant Postal (checking account, carte bleu too)
CDW	Collision Damage Waiver
CPH	Copenhagen stock exchange
CSC	Card Security Code (three digit credit card security number)
COAF	Capital One Auto Finance
CTC	Child Tax Credit
HOH	Head of Household
ETC	Electronic Travel Certificate (monetary voucher towards future purchases)
CVN	(Credit) Card Verification Number
CVV2	Specific Type of CVN
DAB	Distributeurs Automatiques de Billets
DBP	Defined Benefit Plan
DCP	Defined Contribution Plan
STL	Short-term Loan
MTL	Mid-term Loan
LTL	Long-term Loan
DDG	ProShares Short Oil & Gas ($-1 \times$ DJIA oil) ETF
DDM	ProShares Ultra Dow30 ($+2 \times$ DJIA) ETF
DEQM	Double Elite Qualifying Miles
DFSA	Dependent Care Flexible Spending Account
DHS	Department of Homeland Security
DJIA	Dow Jones Industrial Average
DMB	Daily Minimum Balance
DMCSB	Daily Minimum Combined Share Balance (sum of all accounts)
DOG	ProShares Short Dow30 ($-1 \times$ DJIA) ETF
DUG	ProShares UltraShort Oil & Gas ($-2 \times$ DJIA oil) ETF
DXD	ProShares UltraShort Dow30 ($-2 \times$ DJIA) ETF
EAFE	Europe, Australasia, and Far East index
EBITDA	Earnings Before Interest, Taxes, Depreciation, and Amortization
ECN	Electronic Communication Network
EDC	Direxion Daily Emerging Markets Bull ($+3 \times$ MSCI EMI) ETF
EEM	iShares MSCI EMI (emerging markets) ETF
EEV	ProShares UltraShort emerging market ($-2 \times$ MSCI EMI) ETF
EFA	iShares MSCI EAFE (large-cap foreign G7 stock) ETF
EIN	Employer Identification Number (<i>syn.</i> EIN)
EMA	Exponential Moving Average
EMI	Emerging Markets Index
EMV	Europay MasterCard Visa (standard for smart card)
EOB	Explanation of Benefits

EPS	Earnings Per Share
EQM	Elite Qualifying Miles
ETA	Electronic Travel Authority (Australian visa)
ETF	Exchange Traded Fund (tracks an index, e.g., DJIA)
FAA	Fly American Act or Federal Aviation Administration
FCU	Federal Credit Union
FEIE	Foreign Earned Income Exemption
FICA	Federal Insurance Contributions Act (FICA = OASDI + MEDICARE?)
FMV	Fair Market Value
FRE	Freddie Mac
FRM	Fixed Rate Mortgage
FRR	Flat-Rate Reimbursement
FSA	Flexible Spending Account
FSB	Federal Savings Bank
FTF	Foreign Transaction Fee (credit card fee on currency exchanges)
FTIN	Federal Tax Identity Number
GLD	Gold (bullion) tracking ETF
GM	General Motors
GOES	Global Online Enrollment System
GS	Goldman Sachs
HAPC	Highest Average Plan Compensation
HFSA	Health Flexible Spending Account
HTB	Hard-To-Borrow (fee)
HYMMBA	High Yield Money Market Banking Account
IOSA	InterestPlus Online Savings Account
ITIN	Individual Tax Identity Number (<i>syn.</i> FTIN)
KBB	Kelley Blue Book
LTV	Loan-To-Value ratio
LVS	Las Vegas Sands
MACD	Moving Average Convergence/Divergence
MAW	Monthly Automated Withdrawal
MC	Master Card
MCB	Medical Contributions Base
MChip	MasterCard implementation of EMV smart card standard
ME	Moving Expenses
MIE	Meals and Incidental Expenses
MSCI	Morgan Stanley Capital International
MTDC	Modified Total Direct Costs (overhead rate)
MTL	Mechel OAO (ADR)
CBAF	Cross-Border Assessment Fee (charged by MC and Visa for FX)
NASDAQ	National Association of Securities Dealer Automated Quotation system
NAV	Net Asset Value (share price)
NCE	No-Cost Extension
NPE	Non-Passenger Escort
OASDI	Old Age, Survivors, and Disability Insurance

OCTFCU	Orange County Teacher's Federal Credit Union
OFX	Office Financial Exchange (file format/extension)
OSA	Online Savings Account
OTC	Over-the-Counter (pseudo stock exchange)
OTCBB	Over-the-Counter Bulletin Board (pseudo stock exchange)
OTM	Out-of-The-Money
PAI	Personal Accident Insurance
PCOR	Preliminary Change of Ownership Report
PINK	Telephone-based (pseudo stock exchange)
PNR	Passenger Name Record (record locator)
QDRO	Qualified Domestic Relations Order
QFX	Quiken Financial Exchange (file format/extension)
QID	ProShares UltraShort QQQ ($-2\times$ NASDAQ)
QOQ	Quarter-over-quarter (e.g., QOQ EPS)
QQQ	Any NASDAQ-tracking ETF
QQQQ	PowerShares QQQ ($+1\times$ NASDAQ)
RAQVAM	Risques Autres que Véhicule à Moteur (insurance policy covering risks other than motor vehicles)
RIB	Relevé d'Identité Bancaire
RL	Record Locator
RSI	Relative Strength Index
S31	SEC Section 31 Fee (based on valued of trade)
SDS	ProShares UltraShort S&P500 ($-2\times$ S&P500)
SFFCU	SchoolsFirst Federal Credit Union
SG	Société Générale
SKF	ProShares UltraShort Financials ($-2\times$ DOW) ETF
SMA	Simple Moving Average
SNS	Saturday-Night-Stay
SPDR	Standard & Poor's Depository Receipt (aka "spider"), tracks S&P500
SPY	S&P500-tracking ETF
SSO	ProShares Ultra S&P500 ($+2\times$ DOW) ETF
SWIFT	Society for Worldwide Interbank Financial Telecommunication
TAF	Trading Activity Fee (based on number of shares traded)
TEQM	Triple Elite Qualifying Miles
TER	Travel Expense Report
TID	Travel of Indefinite Duration
TIP	Tax Savings on Insurance Premiums
TRF	Travel Reimbursement Form
TTC	Toutes Taxes Comprises (tax included)
TTP	Trusted Traveler Program
TVA	Taxe à la Valeur Ajoutée (value-added tax)
TZA	Dirxion Small Cap Bear 3X Shares ($-3\times$ Russell 2000 small cap)
URP	Ultimate Rewards Points
AXD	American Express Dollars
MRP	Membership Rewards Points (AmEx)
BAA	British Airways Avios

HHP	HHonors Points
UAUA	United Airlines
UCRP	University of California Retirement Plan (pension)
UCRSP	University of California Retirement Savings Plan (403b + 457b + DC)
VAM	Véhicule à Moteur (insurance policy covering motor vehicles)
VSDC	VISA implementation of EMV smart card standard
VWDRY	Vestas Wind ADR (+3× VWDRY = VWS)
VWS	Vestas Wind Systems
VWSYF	Vestas Wind ADR (+1× VWSYF = VWS)
XLE	Select Sector Energy sector SPDR ETF
XLF	Financial sector SPDR ETF
XLK	Technology sector SPDR ETF
XLP	Consumer staples sector SPDR ETF
XLY	Consumer discretionary sector SPDR ETF
NSC	Negotiated Salary Component
NSTP	Negotiated Salary Trial Program
SBS	Scale-Based Salary
TUCS	Total UC Salary
adm	annual decimal rate (<i>ant.</i> annual percentage rate)
amz	Amazon.com
apr	appreciation or annual percentage rate (<i>ant.</i> annual decimal rate)
bc	booking class
bp	boarding pass
brk	breakfast
chs	Chase
cpn	coupon
crd	credit (card)
eqf	Equifax
xpr	Experian
trn	TransUnion
fco	FICO
ctr	contract
cash	cash
dcp	defined contribution plan
ddc	deduction
df	duty-free
dml	default mail address
dnr	dinner
dpr	depreciation
dsc	discount
dyc	daycare
eqt	equity
fbc	fare basis code
fdl	firstname.lastname
fdr	federal

ff frequent flyer
 ffdl fancy firstname.lastname
 ffm frequent flyer miles
 ffp frequent flyer program
 fnm first name
 fnn financial
 fx foreign exchange
 fxr foreign exchange rate
 gml Google mail (Gmail) address
 gt gate
 gtc good-until-cancelled
 gvt government
 hm home (*syn.* hm), (*ant.* ofc)
 hse house (*syn.* hm), (*ant.* ofc)
 htl hotel
 lfd last four digits
 lml Lonely mail address
 lnc lunch
 lnm lastname (surname)
 lp Lonely Planet
 mdc medical
 thk travel hacking (thacking)
 mny money
 mrp manufacturer's retail price
 mrt mortgage
 ncm income
 nr cr non-recurring (*ant.* r cr)
 nsr insurance
 nqr inquiry
 ntr interest
 nvc invoice
 nvs invest, investment
 oa operating airline
 ofc office (*ant.* hse), (*ant.* hm)
 payg pay-as-you-go
 phn phone
 pmt payment
 po purchase order
 prc price, purchased
 prn principal
 prp property
 ptn patent
 rht rhetoric
 rmb reimburse
 rnt rental

rsr	reservation
rtr	retirement
sgn	signature (i.e., Visa Signature card)
s/h	shipping & handling
slr	salary
sml	spam mail address
snk	snack
sp	store price
stt	state
tbf	time between flights
trm	terminal
trv	travel
uml	University mail address
vs	Visa
wts	with tax and shipping (i.e., all-inclusive price)
xpn	expense
ytd	year-to-date

Physical units and dimensions:

B byte

Health:

GAD	Generalized Anxiety Disorder
HSP	Highly Sensitive Person
IBS	Irritable Bowel Syndrome
PF	Plantar Fasciitis
PP	Placenta Previa
RCT	Relational Cultural Theory
RMD	Recurrent Major Depression
TGL	Triglycerides
fml	family
frnd	friend
gft	gift
hlt	health
ku	kid unfriendly
lv	love
msc	music
nic	nothing in common
potm	pleasures of the mind
ptr	poetry
rlt	relationship
slf	self
swm	swimming
sx	sex

tgtbt too good to be true

Consumer electronics

1080i	Interlaced (not progressive) scan HDTV 1920x1080 video mode (<i>ant.</i> 1080i)
1080i60	1080i HDTV mode at 60/,fps (an ATSC standard, common in OTA broadcast)
1080p	Progressive (not interlaced) scan HDTV 1920x1080 video mode, aka “Full HD”
1080p24	1080p HDTV mode at 24/,fps (an ATSC and video mastering standard)
1080p30	1080p HDTV mode at 30/,fps (an ATSC standard)
1600p	Progressive (not interlaced) scan HDTV 2560x1600 video mode (<i>ant.</i> 1080p)
720p	Progressive (not interlaced) scan HDTV 1280x720 video mode (<i>ant.</i> 1080p)
720p60	720p HDTV mode at 60/,fps (an ATSC standard, common in OTA broadcast)
A/V	Audio/Video
A2DP	Advanced Audio Distribution Profile (Bluetooth profile) for HQ stereo
AFH	Adaptive Frequency-hopping spread spectrum (Bluetooth technology)
AMP	Alternate MAC PHY (Bluetooth technology)
ATA	Advanced Technology Attachment (storage-to-bus adaptor) (<i>syn.</i> IDE)
ATSC	Advanced Television Systems Committee (commences 20090217)
AVI	Audio Video Interleave
AVOD	Audio/Video On Demand (<i>syn.</i> VOD)
AVRCP	Audio/Video Remote Control Profile (Bluetooth profile) for remote controls
Anynet	Samsung brand-name for CEC (HDMI remote control language) (<i>syn.</i> CEC)
BNC	Bayonet Neill-Concelman (RF connector to terminate coaxial cable)
BT	Bluetooth
BT 1.1	Bluetooth Standard, c. 2002 includes RSSI
BT 1.2	Bluetooth Standard, c. 2003 includes AFH, eSCO
BT 2.0	Bluetooth Standard, c. 2004 includes EDR
BT 2.1	Bluetooth Standard, c. 2007 includes EIR, EPR, SSP, NFC
BT 3.0	Bluetooth Standard, c. 2009 includes AMP
Bpp	bytes per pixel
CEA	Consumer Electronics Association
CEC	Consumer Electronics Control (HDMI remote control language)
CRT	Cathode Ray Tube
CUDA	Compute Unified Device Architecture
DAB	Digital Audio Broadcasting standard (<i>syn.</i> Eureka 147)
DAB+	Revised DAB standard
DFP	Digital Flat Panel
DL	Dual-Link
DLNA	It stands for Digital Living Network Alliance
DM	Display Mode
DMS-59	59-Pin connector that supports two DVI Dual Link digital channels or two V
DP	DisplayPort, 20-pins (<i>ant.</i> HDMI)
DP-1.0	DP standard, c. 200605
DP-1.1	DP standard, c. 200801, supports fiber optic cables, DPCP, HDCP
DP-1.1a	DP standard, c. 200802, supports eDP

DP-1.2	DP standard, c. 2009, supports double bandwidth, MiniDP connector
DPCP	DisplayPort Content Protection (DRM), based on 128-bit AES encryption
DRM	Digital Restrictions Management
DTV	Digital Television
DVI	Digital Visual Interface (older than HDMI, DP)
DVI-A	DVI Analog (analog only)
DVI-D	DVI Digital (digital only, can be single- or dual-link)
DVI-D DL	DVI-D Dual Link: Capable of WQXGA= 2560 × 1600 60 Hz
DVI-D SL	DVI-D Single Link: Capable of WUXGA= 1920 × 1200 60 Hz
DVI-DL	DVI Dual-Link. Contains second data link. (NB: ambiguous! Could be DVI-DL)
DVI-I	DVI Integrated (digital & analog, can be single- or dual-link)
DVI-M1-DA	DVI Integrated (digital, analog, & USB)
ECN	Engineering Change Notice
EDID	Extended Display Identification Data
EDGE	Enhanced Data rates for GSM Evolution
EDR	Enhanced Data Rate (Bluetooth technology)
EDTV	Enhanced-definition Television (DTV, progressive scan, analog resolution, 60 Hz)
EIR	Extended Inquiry Response (Bluetooth technology)
EPHC	Epson PowerLite Home Cinema (projector)
EPR	Encryption Pause Resume (Bluetooth technology)
ExpressCard	Hardware standard for cards. Supports both PCIe and USB 2.0 buses. Either 34 mm or 54 mm.
ExpressCard/34	34 mm ExpressCard (rectangular shape)
ExpressCard/54	54 mm ExpressCard (L-shaped)
ExtUSB	Proprietary (by HTC) USB 11-pin connector backwards compatible with Mini-USB
FF	Form Factor
FPD	Flat Panel Display
GPGPU	General-Purpose computation on Graphics Processing Units
GPU	Graphical Processing Unit
GPU	Graphics Processing Units
GTF	Generalized Timing Formula
HD Radio	brand-name for iBiquity's IBOC technology, US Standard
HDCP	High-bandwidth Digital Content Protection (DRM)
HDMI	High-definition Multimedia Interface (newer than DVI, older than DP) (<i>ant.</i>)
HDMI Type A	Single link (19 pins) connector. Does not support 2560x1600.
HDMI Type B	Dual link (29 pins) connector. Supports 2560x1600.
HDMI Type C	Dual link (29 pins) mini-connector. Supports 2560x1600.
HDMI 1.0	HDMI Standard, c. 2002, includes 1080p/UXGA
HDMI 1.1	HDMI Standard, c. 2004, includes DVD audio
HDMI 1.2	HDMI Standard, c. 2005, includes CEC features
HDMI 1.3	HDMI Standard, c. 200606, includes Dolby TrueHD, DTS-HD, defined cable lengths
HDMI 1.3a	HDMI Standard, c. 200611, includes cable, CEC, Type C clarifications
HDMI 1.3b	HDMI Standard, c. 200703, includes compliance testing revisions
HDMI 1.3b1	HDMI Standard, c. 200711, includes Type C testing revisions
HDMI 1.3c	HDMI Standard, c. 200808, includes active cable testing
HDMI 1.4	HDMI Standard, c. 200905, includes HDMI ethernet, 3840x2160p and 4096x2160p

	HDTV	High Definition TV, 1920 × 1080 resolution, 16:9 aspect ratio
	HDTV	High-definition Television (DTV, 1280x720=720p, 1920x1080=1080i, 1920x1080=1080i)
HDTV DM	DVI-DL	1920 × 1080 85 Hz with GTF blanking (2 × 126 MHz)
HDTV DM	DVI-SL	1920 × 1080 60 Hz with CVT-RB blanking (139 MHz)
	HSDPA	High Speed Downlink Packet Access, improved W-CDMA protocol
	HSPA	High Speed Packet Access: Combination of HSDPA and HSUPA, capable of 3.1 Mbps
	HSPA+	Evolved High Speed Packet Access, improved HSPA capable of 42/11 Mbps
	HSUPA	High Speed Uplink Packet Access, improved W-CDMA protocol
	HTC	High Tech Computer Corporation
HTC	Desire	Android PDA, c. 201002; optical trackpad, runs HTC-Sense, 480 × 800 resolution
	Dream	Android PDA, c. 200809, branded T-Mobile G1; 320 × 480 resolution, includes trackball
HTC	Evo 4G	Android PDA, branded Sprint Evo, c. 201006; 480 × 800 resolution, 8 Mp w/LE
	G2	Android PDA, c. 201009, branded T-Mobile G2, 3.7" WVGA, 800 MHz CPU
	Hero	Android PDA, c. 200912, branded T-Mobile G2 Touch; includes 3.5 mm audio jack
HTC	Incredible	Android PDA, branded Droid Incredible, c. 201005; 480 × 800 resolution, 8 Mp w/LE
	Legend	Android PDA, branded Sprint Hero2, c. 201004; 320 × 480 resolution, 5 Mp w/LE
	Magic	Android PDA, c. 200907, branded T-Mobile G2, myTouch 3G; lacks keyboard
HTC	Passion	Android PDA, c. 201001, branded Google Nexus One; noise-canceling microphone
	HXGA	Hex[adecatuple] Extended Graphics Array, 4096 × 3072 resolution, 4:3 aspect ratio
	IBOC	In-Band On-Channel (way of adding digital to analog broadcasts)
	IEC	International Electrotechnical Commission
	LDI	LVDS Display Interface (standard for connecting graphics card to LFP using LVDS)
	LFP	Local Flat Panel
	LGD	LG Display (LCD panel supplier), formerly (<i>syn.</i> LPL))
	LPL	LG Phillips (LCD panel supplier, now (<i>syn.</i> LGD))
	LTE	Long Term Evolution (based on GSM, successor to HSPA) capable of 300/75 Mbps
	LVDS	Low-voltage Differential Signaling (low-power electrical signaling system) (c. 2000)
Mini	PCIe, PCI-E	PCI Express Mini Card (expansion card for PCIe bus) (c. 2005)
	Mini-TOSLINK	Miniature TOSLINK (found on Apple computers)
	MiniDP	Miniature DisplayPort (newest standard), 20-pins (<i>ant.</i> HDMI)
Motorola	Droid	Android PDA, carrier Verizon, branded Motorola Milestone (w/GSM), c. 200912
Motorola	Droid X	Android PDA, carrier Verizon, c. 201007; 480 × 848 resolution, 8 Mp w/LE
	NFC	Near Field Communication (Bluetooth technology)
	NFC	Near Field Communication
	NTSC	National Television System Committee, broadcasts at 640x480=480i
	OTA	Over-The-Air (TV broadcasting signal)
	OTG	On-The-Go (terminology for portable devices, e.g., PDAs)
	PAL	Broadcasts at 768x576=576i
	PATA	Parallel Advanced Technology Attachment (older, slower than SATA) (<i>ant.</i> SATA)
	PBP	Picture-By-Picture
PC,	PCMCIA Card	Hardware card type (c. 1991, superseded by ExpressCard)
	PCI	Peripheral Component Interconnect (c. 1993, older, different FF than PCI-X)
	PCI-X	PCI eXtended (c. 1998, newer than PCI, older than PCIe) (<i>ant.</i> PCIe)
PCIe,	PCI-E	PCI Express (c. 2004, newer than PCI and PCI-X) (<i>ant.</i> PCI-X)
	PCMCIA	Personal Computer Memory Card International Association (refers to hardware)

	PDA	Personal Digital Assistant
	PIP	Picture-In-Picture
	QXGA	Quad eXtended Graphics Array, 2048 × 1536 resolution, 4:3 aspect ratio
QXGA DM	DVI-DL	2048 × 1536 75 Hz with GTF blanking (2 × 170 MHz)
	RCA	Radio Corporation of America (A/V adaptor plug)
	RIHD	Onkyo brand-name for CEC (HDMI remote control language) (<i>syn.</i> CEC)
	RSSI	Received Signal Strength Indicator (Bluetooth technology)
	S/PDIF	Sony/Philips Digital Interconnect Format (digital audio signal protocol) (<i>syn.</i> SPDIF)
	SATA	Serial Advanced Technology Attachment (storage-to-bus adaptor) (<i>ant.</i> PATA)
	SCSI	Small Computer Systems Interface (communications protocol for high-performance)
	SDTV	Standard-definition Television (DTV, interlaced scan, analog resolution, 640 × 480)
	SL	Single-Link
	SSP	Secure Simple Pairing (Bluetooth technology)
	SXGA	Super eXtended Graphics Array, 1280 × 1024 resolution, 5:4 aspect ratio
SXGA DM	DVI-SL	1280 × 1024 85 Hz with GTF blanking (159 MHz)
	Samsung	Android PDA, c. 201012, carrier T-Mobile, branded Google Nexus S; 480 × 800
Samsung	Epic 4G	Android PDA, c. 201007, branded Samsung Epic;
	TAA	Trade Agreement Act (computer purchase compliance-related)
	TMD5	Transition Minimized Differential Signaling (used in DVI, HDMI) (<i>ant.</i> LVDS)
	TOSLINK	TOSHIBA-LINK (optical fiber connector used for audio signals)
	U160	SCSI variety emulated by IDE RAID farm
	USB	Universal Serial Bus
	USB EMU	Enhanced mini-USB connector (EMU) (11-pin, 3 × 7 mm rectangle, one beveled corner)
	USB Micro-A	Micro USB Standard-A connector (1.5 × 7 mm)
	USB Micro-AB	Micro USB Dual Standards A & B connector (5-pin, 1.5 × 7 mm rectangle, one beveled corner)
	USB Micro-B	Micro USB Standard-B connector (5-pin, 1.5 × 7 mm, two beveled corners)
	USB Mini-A	Miniature USB Standard-A connector (5-pin, 3 × 7 mm rectangle, two beveled corners)
	USB Mini-AB	Miniature USB Dual Standards (A & B) connector (3 × 7 mm)
	USB Mini-B	Miniature USB Standard-B connector (5-pin, 3 × 7 mm rectangle, all square corners)
	USB-A	USB Standard-A connector (4-pin, flattened rectangle)
	USB-B	USB Standard-B connector, carries power (4-pin, square with beveled corners)
	USB 1.0	USB “Low-Speed” (187.5 kB s ⁻¹) Standard, c. 1996
	USB 1.1	USB “Full-Speed” (1.5 MB s ⁻¹) Standard, c. 1998
	USB 2.0	USB “High-Speed”, “Hi-Speed” (60 MB s ⁻¹) Standard (includes “micro-USB”)
	USB 3.0	USB “SuperSpeed” (625 MB s ⁻¹) Standard, c. 2008
UXGA DM	DVI-SL	1600 × 1200 60 Hz with GTF blanking (161 MHz)
	UXGA, UGA	Ultra eXtended Graphics Array, 1600 × 1200 resolution, 4:3 aspect ratio
	VDPAU	Video Decode and Presentation API for Unix
	VESA	Video Electronics Standards Association
	VGA	Video Graphics Array (an analog-standard interface) (640 × 480 resolution)
	VIERA Link	Sony brand-name for CEC (HDMI remote control language) (<i>syn.</i> CEC)
	VIERA-Cast	Panasonic technology for streaming multimedia from Internet to HDTVs
	VOD	Video On Demand (<i>syn.</i> AVOD)
	W-CDMA	Widband Code Division Multiple Access, 3G mobile telecommunication standard
	WFP	Widescreen Flat Panel

	WQUXGA		Wide Quad Ultra Extended Graphics Array, 3840 × 2400 resolution, 16:10 aspect
WQUXGA	DM	DVI-DL	3840 × 2400 33 Hz with GTF blanking (2 × 159 MHz)
WQUXGA	DM	DVI-SL	3840 × 2400 17 Hz (164 MHz)
	WQXGA		Wide Quad eXtended Graphics Array, 2560 × 1600 resolution, 16:10 aspect
WQXGA	DM	DVI-DL	2560 × 1600 60 Hz with GTF blanking (2 × 174 MHz)
	WSXGA, WXGA+		non-standard term for, usually, 1440 × 900 resolution
WSXGA, WXGA+	DM	DVI-SL	1440 × 900 60 Hz (107 MHz)
	WUXGA		Widescreen Ultra eXtended Graphics Array, 1920 × 1200 resolution, 16:10 aspect
WUXGA	DM	DVI-SL	1920 × 1200 60 Hz with CVT-RB blanking (154 MHz)
	WXGA		Wide eXtended Graphics Array, a non-standard: 1280 × 800 resolution, aspect ratio 4:3
X:	Display		The resolution and depth of a given <i>Screen</i>
X:	Monitor		Physical display surface
X:	RandR		Resize and Rotate (X-Windows extension)
X:	Screen		Combination of <i>Monitor</i> with graphics <i>Device</i>
X:	Xinerama		
	azw		Filename extension for Amazon e-books
	bpp		bits per pixel
	eDP		Embedded DisplayPort, internal connection standard (graphics cards to notebooks)
	eSATA		external Serial Advanced Technology Attachment (SATA)
	eSCO		Extended Synchronous Connections (Bluetooth technology)
	fps		frames per second
	knd		Amazon Kindle
	mbp		Filename extension for Amazon e-books notes/annotations
	pap		Personal Audio Player
	pda		Personal Digital Assistant
	phl		Filename extension for Amazon e-books icons?
	pmp		Personal Media Player
	twm		TwinView (NVidia X-display mode)

Geographical places, stations, regions, and features: [this points to sxn:abb](#)

AAr	Antarctic
Arc	Arctic
Brb	Barbados
Brm	Bermuda
Izn	Izaña
SMA	St. Miguel de Allende
SMU	St. Martin d'Uriage
Svl	Svalbard
ULB	Uriage le Bains
WaD	WAIS Divide

Initials (often used as change markers in source code):

ag	Alf Grini
bcb	Byron C. Boville

bee	Brian E. Eaton
bk	Brian Kahn
cl	Chao Luo
csz	Charles Sutton Zender
dap	Diana A. Pataki
dlw	Daniel L. Wang
dmw	David M. Williamson
fd	Florent Dominé
jcg	Jean-Charles Gallet
jmr	Jim M. Rosinski
jpm	Joseph P. McConnell
jt k	Jeffrey T. Kiehl
mat	Mark A. Taylor
mcb	Michael C. Brown
mgf	Mark G. Flanner
mt	Michael Tosca
nmm	Natalie M. Mahowald
pjr	Philip J. Rasch
qh	Qin Han
rah	Rick A. Hansell
rlm	Ron L. Miller
rkr	Russell K. Rew
sbc	Scott Blair Capps
swb	Stephen W. Berrick
xtcb	Tami C. Bond

AAA	Arctic Absorbing Aerosol
AAS	Atomic Absorption Spectrometry
ABI	Application Binary Interface
ACADIS	Advanced Cooperative Arctic Data and Information Service
ACCESS	Advancing Collaborative Connections for Earth System Science (NASA ROSES Program)
ACE	Army Corps of Engineers
ACM	Association for Computing Machinery
ACP	Atmospheric Chemistry (NSF GEO AGS Program)
ACP	Atmospheric Chemistry Program (NSF GEO ATM program) or Advanced Cyberinfrastructure
ACRM	(NASA) Atmospheric Composition Research and Modeling
ADT	Anomalous Diffraction Theory
AER	Atmospheric & Environmental Research
AERONET	Aerosol Robotic Network
AFGL	Air Force Geophysical Laboratory
AGU	American Geophysical Union
AISR	Applied Information Systems Research (NASA ROSES program)
AIX	IBM variant of UNIX used in ESMF
ALD	Active Layer Depth (of permafrost)

ALW	Adiabatic Liquid Water
AMAP	Arctic Monitoring and Assessment Program
AMBT	Air Mass Back-Trajectory
AMSR-E	Advanced Microwave Scanning Radiometer (satellite instrument)
AMWG	(CCSM) Atmospheric Model Working Group
ANENA	Association Nationale pour l'Etude de la Neige et des Avalanches
ANS	Arctic Natural Sciences Program
ANTLR	ANother Tool for Language Recognition
ANWR	Arctic National Wildlife Refuge (ANWAR)
AO	Announcement of Opportunity (NASA RFP) (<i>syn.</i> RFP), (<i>syn.</i> FOA), (<i>syn.</i> CFP)
KNMI	Royal Netherlands Meteorological Institute
CFP	Call for Proposals (<i>syn.</i> RFP), (<i>syn.</i> FOA), (<i>syn.</i> AO)
AOGCM	(Coupled) Atmosphere-Ocean General Circulation Model
API	Application Programmer Interface
GBD	Global Burden of Disease
AR4	Fourth (IPCC Climate) Assessment Report
AR5	Fifth (IPCC Climate) Assessment Report
ARC	(NSF) Division of Arctic Sciences
ARF	Aerosol Radiative Forcing
ARM	Atmospheric Radiation Measurement
ARMA	Auto-Regressive Moving-Average
ASE	Advanced Science and Engineering
ASIRT	Aerosol Snow Ice Radiative Transfer
ASR	Atmospheric System Research (DOE ARM Program)
AST	Abstract Symbol Table
ATM	(NSF) Division of Atmospheric Sciences
ATSR	Along Track Scanning Radiometer and Microwave Sounder
AVHRR	Advanced Very High Resolution Radiometer (satellite instrument)
AVIRIS	Airborne Visible/Infrared Imaging Spectrometer
BAAQMD	Bay Area Air Quality Management District
BATS	Biosphere-Atmosphere Transfer Scheme
BAU	Business As Usual
BEC	Biogeochemistry-Ecosystem-Circulation (model)
BECA	Bureau of Educational and Cultural Affairs (US DoS)
BET	Brunauer-Emmett-Teller (surface area)
BEV	Battery Electric Vehicle
BFI	Buckminster Fuller Institute
BGC	Biogeochemistry
BGCWG	(CCSM) Biogeochemistry Working Group
BGF	Bare Ground Fraction
BIRN	Biomedical Informatics Research Network
BRDF	Bi-directional Reflectance Distribution Function
BTS	Bug Tracking System
CA	Cooperative Agreement
CADD	Centralized Analysis of Distributed Data

CALYPSO	Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observation
CAM	Community Atmosphere Model or Complex Angular Momentum
CARRE	Central Asia Research and Remediation Exchange
CASTNET	Clean Air Status and Trends NETwork
CAT	Cap And Trade
CBA	Cost-Benefit analysis
CBET	Chemical, Bioengineering, Environmental, and Transport Systems (NSF ENG Division)
CCAP	Center for Clean Air Policy
CCAR	California Climate Action Registry
CCCAC	California Climate Change Advisory Committee
CCM	Community Climate Model
CCN	Cloud Condensation Nuclei
CCNC	Cloud Condensation Nuclei Counter
CCS	Carbon Capture and Storage
CCS	Coal with Carbon Capture and Storage
CCSM	Community Climate System Model
CDC	Center for Disease Control
CDHS	California Department of Health Services
CDI	Cyber-Enabled Discovery and Innovation (NSF Cross-cutting program)
CDNC	Cloud Droplet Number Concentration
CDO	Climate Data Operators
CDP	Cloud Droplet Probe
CE	Civil Engineering or Corresponding Editor
CEC	California Energy Commission
CENIC	Corporation for Education Network Initiatives in California
CERES	Clouds and Earth's Radiant Energy System (satellite instrument)
CF	Climate & Forecast (metadata convention)
CFC	Chloro-fluorocarbon
CFEP	Center for Educational Partnerships
CFVR	Critical Friction Velocity Ratio
CGS	Centimeter Gram Second units
CH ₄	CH ₄
CHP	California Highway Patrol
CHRS	Center for Hydrometeorology and Remote Sensing
CICE	Los Alamos sea ice model
CIES	Council for International Exchange of Scholars
CISE	Computer and Information Science and Engineering (NSF Directorate)
CITI	Center for Information Technology and Infrastructure
CL	Client Library
CLD	Climate and Large-Scale Dynamics
CLEAN	addressing Climate Change through Learning, Empowerment, Action, and Networking
CLM	Common Land Model
CLMUG	Community Land Model User's Guide
CMG	Climate Modeling Grid
CMIP3	Coupled Model Intercomparison Project

CN	Condensation Nuclei
CNH	Dynamics of Coupled Natural and Human Systems (NSF Program)
CNRS	Centre Nationale de la Recherche Scientifique
CNS	Computer and Network Systems
CO2	CO ₂
CO2e	Equivalent CO ₂
COSMOS	California State Summer School in Mathematics and Science
CP4SMP	Competitive Program for Science Museums and Planetariums Plus Opportunities for NASA
CPC	Climate Protection Campaign
CPC	Condensation Particle Counter
CPT	Climate Process Team (NSF GEO AGS CLD Program)
CPU	Central Processing Unit
CRDF	Civilian Research and Development Foundation
CRF	Cloud Radiative Forcing
CRM	Column Radiation Model
CRYSTAL-FACE	Cirrus Regional Study of Tropical Anvils and Cirrus Layers—Florida Area Cirrus Experiment
CSE	Computer Science and Engineering
CSIM	Community Sea Ice Model
CSP	Concentrated Solar Power
CSRM	Cloud System Resolving Model
CST	Client-Server Traffic
CSTP	Client-Server Traffic Protocol
CSUB	California State University at Bakersfield
CSV	Comma-Separated Value
CTM	Chemistry Transport Model
CVS	Concurrent Versions System
CVWG	(CCSM) Climate Variability Working Group
CWC	Condensed Water Content
CWP	Condensed Water Path
CalEPA	California Environmental Protection Agency
CalIT2	California Institute for Telecommunications and Information Technology
CalREN-2	California Regional Network
CalREN-XD	California Research Network, Experimental Development
CentOS	Community Enterprise Operating System
DADD	Distributed Analysis of Distributed Data
DD	Debian Developer
DDA	Discrete Dipole Approximation
DDD	Data-Driven Discovery
DDPO	Debian Developer's Packages Overview
DDR	Distributed Data Reduction
DEAD	Dust Entrainment And Deposition Model
DEBITS	Deposition of Biogeochemically Important Trace Species
DECADE	Diverse Educational Community and Doctoral Experience
DGA	Division of Grants and Agreements
DHS	Department of Homeland Security

DI	De-Ionized
DIC	Data-Intensive Computing
DIF	Dissolved Iron Fraction
DIRTMAP	Dust Indicators and Records of Terrestrial and MARine Paleoenvironments
DKMS	Dynamic Kernel Module Support
DNMG	Debian New Maintainer's Guide
DOAS	Differential Optical Absorption Spectroscopy
DOCCD	Database of Optical Constants for Cosmic Dust
DODS	Distributed Oceanographic Data Server
DOI	Digital Object Identifier
DPG	Distributed Power Generation
DRUM	Davis Rotating Unit Monitoring
DTG	Depth to Groundwater
DUFISSS	DUal-Frequency Integrating Sphere for Snow SSA Measurement
DWP	Department of Water and Power
E/PO	Education & Public Outreach
EA/WR	Eastern Atlantic/Western Russia
ECE	Electrical and Computer Engineering
ECMWF	European Center for Medium-range Weather Forecasts
ECTNA	Eastern and Central Tropical North Atlantic
EDXRF	Energy Dispersive X-Ray Fluorescence
EECS	Electrical Engineering and Computer Science
EES	Earth and Environmental Science or Environmental Engineering and Sustainability (Cluster)
EGG-TRAM	Emissions-to-Global-Grid Transfer Routine for Aerosol Microphysics
EHP	Elevated Heat Pump
EID	Emerging Infectious Disease
EMA	Effective Medium Approximation
EMEP	European Monitoring and Evaluation Program
EMMF	Economical Multi-scale Modeling Framework
EMN	Effective Machine Name
ENG	Engineering (NSF Directorate)
ENSO	El Niño-Southern Oscillation
EOS	Earth Observing System
EOSDIS	Earth Observing System Data and Information System
EQSAM	EQilibrium Simplified Aerosol Model
ESA	European Space Agency
ESC	Earth Simulator Center
DSIA	Data Stewardship Interest Area
ESDSWG	Earth Science Data System Working Groups
ESE	Earth Science Enterprise (NASA) or Environment, Society, and Economy (NSF GEO/SBE)
HWG	(NASA ESDS Conventions for) HDF5 Working Group
ESG	Earth System Grid
ESI	Electronic Supplementary Information
ESIG	Environmental and Societal Impacts Group
ESM	Earth System Model

ESMF	Earth System Modeling Facility
ESS	Earth System Science (Department)
ESTO	Earth Systems Technology Office
SFA	Scientific Focus Area (DOE programmatic concept)
EaSM	Earth System Models (NSF Panel)
FAA	Federal Aviation Administration
FAR	First Assessment Report
FC	Forecast Cluster
FDTD	Finite-Difference-Time-Domain
FIM	Fire Injection Module
FIPSE	Fund for the Improvement of Postsecondary Education (DOE program)
FNF	Friends aNd Family
FOA	Funding Opportunity Announcement (DOE RFP) (<i>syn.</i> RFP), (<i>syn.</i> AO)
FOCUS	Faculty Outreach Collaborations Uniting Scientists, Students and Schools
FOI	Field Of Interest
FRE	Fire Radiative Energy
FRP	Fire Radiative Power
FSB	Foreign Scholarship Board
FSU	Former Soviet Union
FTA	Fire Thermal Anomaly
FTBFS	Fails to Build from Source
FTE	Full-time Employee
FV	Field site Visits
GADS	Global Aerosol Data Set
GARMA	Generalized Auto-Regressive Moving-Average
GB	Gigabyte
GCM	General Circulation Model
GDP	Gross Domestic Product
GDS	GrADS-DODS Server
GEO	Geosciences (NSF Directorate)
GEON	Geosciences Network
GEOS-CHEM	Goddard Earth Observing System Chemistry Model
GEWEX	Global Energy and Water Cycle Experiment
GFED	Global Fire Emissions Database
GFP	Guidebook for Proposers
GFS	Global File System
GHG	Greenhouse Gas
GHGI	Greenhouse Gas Intensity
GISS	Goddard Institute for Space Studies
GLD	Geomorphology and Land-Use Dynamics
GLIDE	General Land Ice Dynamic Elements (core of GLIMMER)
GLIMMER	Ice Sheet Model of Payne et al.
GLX	OpenGL Extension to the X Window System
GMI	Global Modeling Initiative
GNOME	GNU Object Module Environment

GOA	Geometric Optics Approximation
GOES	Geostationary Earth Orbiting Satellite
GPFS	General Parallel File System
GPL	GNU General Public License
GPL3	GNU General Public License version 3
GRACE	Gravity Recovery and Climate Experiment (satellite instrument)
GRAVITY	Graphics, Visualization, and Imaging Technology
GSC	GEOS-CHEM
GSFC	Goddard Space Flight Center
GW	Global Warming
GWP	Global Warming Potential
Gb	Gigabit
GrADS	Grid Analysis and Display System
H ₂ OH ₂ O	(H ₂ O) ₂
H ₂ SO ₄	H ₂ SO ₄
HCFC	Halogenated CFCs
HDF	Hierarchical Data Format
HDF-SDS	HDF Scientific Data Set format (*.hdf files)
HDF4EOS	HDF version 4 EOS data format (*.he2, *.he4, *.hdfeos files)
HDF5EOS	HDF version 5 EOS data format (*.he5 files)
HFCV	Hydrogen Fuel Cell Vehicle
HG	Henyey-Greenstein (phase function)
HIPerWall	High-Performance Visualization System for Collaborative Earth System Sciences
HNLC	High Nutrient Low Chlorophyll
HPC	High Performance Computing
HPCC	High Performance Computing Center
HPVM	High-Performance Virtual Machines
HSE	Hollow Sphere Equivalent
HTML	Hypertext Markup Language
HTTP	Hypertext Transfer Protocol
HULIS	Humic-like Substances
HUSWO	Hourly United States Weather Observations
IAF	Ice Albedo Feedback
IAMAS	International Association of Meteorology and Atmospheric Sciences
IBL	Internal Boundary Layer
IBM	International Business Machines
IC	International Conferences
IC	Ion Chromatography
ICCID	Integrated Circuit Card Identifier
ICS	Information and Computer Sciences
ICTA	Institut de Ciència i Tecnologia Ambientals (Institute of Environmental Science and Techno
ICoD	Euro-Mediterranean Centre for Insular Coast Dynamics (ICoD)
IDE	Integrated Drive Electronics (commodity PC hard disks) or Integrated Development Enviro
IDL	International Date Line
IFS	Integrated Forecast System

IGPP	Institute of Geophysics and Planetary Physics
II	Information Integration
IIE	Institute of International Education
III	Information Integration and Informatics (NSF CISE IIS Program)
IIPS	Interactive Information Processing Systems
IIS	Information and Intelligent Systems (NSF CISE Division)
IMSI	Integrated Mobile Subscriber Identity
IN	Ice Nuclei
IOM	Institute of Mathematics (Almaty, Kazakhstan)
IOP	Intensive Observing Period
IPA	Independent Pixel Approximation or International Phonetic Alphabet
IPCC	Intergovernmental Panel on Climate Change
IPO	Interprocedural Optimization
IPY	International Polar Year
IRES	International Research Experience for Students (NSF Program)
ISC	International Symposium on Coccidioidomycosis
ISDAC	Indirect and Semi-Direct Aerosol Campaign
ISG	Integrated Sinusoidal Grid
ISHMS	Integrated Surface Hourly Meteorological Station
ISHO	Integrated Surface Hourly Observations
ISSDS	International Symposium on Sand and Dust Storms
ISTC	International Science and Technology Center
ITA	Intent to Adopt
ITD	Ice Thickness Distribution
ITT	Measurement of Pollution in the Troposphere (satellite instrument)
IWC	Ice Water Content
IWP	Ice Water Path
JAMSTEC	Japan Institute of Marine Science and Technology
JC	Journal Club
JISAO	Joint Institute for the Study of the Atmosphere and Ocean
JIT	Just-in-time
JPL	Jet Propulsion Laboratory
KDE	K Desktop Environment
LAC	Light Absorbing Carbon
LAISSSE	LGGE Albedo Integrating Sphere for Snow Experiments
LAN	Local Area Network
LANL	Los Alamos National Laboratory
LAPACK	Linear Algebra PACKage
LBAOP	Long Beach Aquarium of the Pacific
LBF	Large Blocksize Filesystem
LBL	Line-by-line
LEP	Laboratory for Environmental Planning
LES	Large Eddy Simulation
LFS	Large File Support
LGGE	Laboratoire de Glaciologie et Géophysique de l'Environnement (Grenoble, France)

LHS	Left Hand Side
LIDAR	LIght Detection And Ranging
LKM	Linux Kernel Module
LLJ	Low-level Jet
LLNL	Lawrence Livermore National Laboratory
LMWG	(CCSM) Land Model Working Group
LOSU	Level of Scientific Understanding
LSLZ	Lower Sonoran Life Zone
LSM	Land Surface Model
LTP	Long-Term Probability
LW	Longwave (radiation)
LWC	Liquid Water Content
LWCF	Longwave Cloud Forcing
LWP	Liquid Water Path
MABL	Marine Atmospheric Boundary Layer
MAC	Media Access Control
MAE	Mechanical and Aerospace Engineering
MAR	Mass Accumulation Rate
MARSWIT	Mars Surface Wind Tunnel
MASAIS	Measurement of Albedo and specific Surface Area using an Integrating Sphere
MATRIX	Multiconfiguration Aerosol TRacker of mIXing state
MBD	Metrics Baseline Document (for NASA ACCESS)
MBWA	Mobile Broadband Wireless Access (e.g., IEEE 802.20)
MCD	MODIS Combined Dataset
MCT	Metrics Collection Tool (for NASA ACCESS)
MD	Mineral Dust
MERRA	Modern Era Retrospective-analysis for Research and Applications
MFC	Missing From Collection
MFO	Multi-File Operator
MINATROC	Mineral Dust and Tropospheric Chemistry
MISR	Multi-angle Imaging Spectro-Radiometer (satellite instrument)
MKS	Meter-Kilogram-Second units
MLE	Maximum Likelihood Estimation
MM5	PennState/NCAR Mesoscale Model version 5
MMD	Mass Median Diameter
MMF	Multi-scale Modeling Framework
MMWR	Morbidity and Mortality Weekly Report
MNP	Mojave National Preserve
MODI	Multi-Orifice Deposit Impactor (MODI)
MODIS	Moderate Resolution Imaging Spectroradiometer (satellite instrument)
MOP	Microphysical Optical Properties
MOPITT	Measurement of Pollution in the Troposphere (satellite instrument)
MOSAIC	MOdel for Simulating Aerosol Interactions and Chemistry
MOUDI	Multi-Orifice Uniform Deposit Impactors (MOUDI)
MOZART	Model for Ozone and Related Tracers

MOZIR	Infrared (radiation) or Infection Rate
MPC	Medium Performance Computing
MPI	Message Passing Interface
MPMD	Multiple Program Multiple Data
MRMVF	Multi-Record Multi-Variable File
FRCG	First Record of Current Group
LRCG	Last Record of Current Group
LDRF	Last Desired Record in File
MRO	Multi-Record Output
MSG	Meteosat Second Generation
MSP	Math Science Partnership
MS _c	Marine Stratocumulus
NAA	Neutron Activation Analysis
NACS	Network and Computing Services
NASA	National Aeronautic and Space Administration
NBC	Nuclear, Biological, and Chemical weapons
NC	National Conferences
NCAR	National Center for Atmospheric Research
NCCS	NASA Center for Computational Sciences
NCCS	National Center for Computational Sciences (DOE)
NCDC	National Climatic Data Center
NCEP	National Center for Environmental Prediction
NCEP	National Commission on Energy Policy
NCO	netCDF Operators
NCVweb	NetCDF Viewer Web
NDVI	Normalized Difference Vegetation Index
NEMS	DOE National Energy Modeling System
NERSC	National Energy Research Scientific Computing Center
NGS	National Geographic Society
NH	Northern Hemisphere
NH ₄	NH ₄
NHS	National and Homeland Security
NIC	National Ice Center
NIR	Near Infrared
NMI	NSF Middleware Initiative
NMU	Non-Naintainer Upload
NO ₂	NO ₂
NOAA	National Oceanic and Atmospheric Administration
NOMADS	NOAA Operational Model Archive and Distribution System
NOPP	National Oceanographic Partnership Program
NPACI	National Partnership for Advanced Computational Infrastructure
NPOESS	National Polar-orbiting Operational Environmental Satellite System
NPS	National Park Service
NRA	NASA Research Announcement
NRDC	National Resources Defense Council

NSA	North Slope of Alaska
NSF	National Science Foundation
NSIDC	National Snow and Ice Data Center
NSS	Non-Sea Salt Sulphate
NSSC	NASA Shared Services Center
NUG	NCO User's Guide
NVODS	National Virtual Ocean Data System
NWS	National Weather Service
O2	O ₂
O2000	Model of SGI shared memory supercomputer at UCI (krein)
O2N2	O ₂ ·N ₂
O2O2	O ₂ ·O ₂
O2X	O ₂ ·X
O3	O ₃
OAR	Oceanic and Atmospheric Research
OBGC	Ocean Biogeochemistry
OCHO	OCHO
OCI	Office of Cyberinfrastructure (NSF Office)
OEM	Ocean Ecosystem Model
OISE	Office of International Science and Engineering (NSF Division-Level Organization)
OLLI	Osher Lifelong Learning Institute
OLR	Outgoing Longwave Radiation
ONI	Optical Networking Initiative
OPAC	Optical Properties of Aerosols and Clouds
OPC	Optical Particle Counter
OPP	Office of Polar Programs (NSF Office)
OPeNDAP	Open-source Project for a Network Data Access Protocol
ORB	Object Ring Buffer
ORNL	Oak Ridge National Laboratory
OLCF	Oak Ridge Leadership Computing Facility
OSL	Optically Stimulated Luminescence (dating technique)
OpenMP	Standard API for SMPP
OpenACC	Open ACCelerators for SMPP
OptIPuter	Optical networking Internet Protocol computer
DAG	Directed Acyclic Graph (history type used by GitHub)
PAPI	Performance Application Programming Interface
PAR	Photosynthetically Active Radiation
PAS	Personal Access System
PCG	Petascale Collaboratory for the Geosciences
PCMDI	Program for Climate Model Development and Intercomparison
PCWG	Polar Climate Working Group
PEBCAK	Problem Exists Between Chair And Keyboard
PGE	Pacific Gas & Electric Company
PI	Principle Investigator
PIO	Parallel I/O

PIR	Personal Interview Report
PM10	Particles finer than 10 μm in diameter
PM2.5	Particles finer than 2.5 μm in diameter
POC	Point of Contact
POLARCAT	POLar study using Aircraft, Remote sensing, surface measurements and modeling of Climate
POP	Parallel Ocean Program
POP+OEM	POP with Ocean Ecosystem Model embedded
PPA	Personal Package Archive
PPA	Plane Parallel Approximation
PRIDE	Puerto Rico Dust Experiment
PSC	Pathscale
PSCTF	Physical Sciences Communications Task Force
PTS	Package Tracking System (Debian)
PVFS	Parallel Virtual File System
PVM	Parallel Virtual Machine
R2D2	Remote Reduction of Distributed Data
RAID	Redundant Array of Independent Disks
RAM	Random Access Memory
RC	Release Critical
RCAST	fxm
RCS	Research Computing Services
RDB	Relational databases
RDG	Rayleigh-Debye-Gans
REE	Rare Earth Element
RFP	Request for Package or Request for Proposals (<i>syn.</i> FOA), (<i>syn.</i> AO)
RFS	Request for Sponsor
RGB	Red Green Blue
RH	Relative Humidity
RHS	Right Hand Side
RLI	Regular Latitude Longitude
ROI	Region Of Interest
RPM	RedHat Package Manager
RPS	Renewable Portfolio Standards
RR	Reaction Rates
RRDR	Remote Reduction of Distributed Data
RRT	Rapid Response Team
RSP	(NASA) Radiation Sciences Program
RT	Radiative Transfer
RTM	River Transport Model
SACC	Swiss-American Chamber of Commerce
SAF	Snow Albedo Feedback
SAL	Saharan Air Layer
SAMSON	Solar and Meteorological Surface Observational Network
SAN	Storage Area Network
SAO	Semi-Annual Oscillation

SAR	Second Assessment Report
SAS	surface-atmosphere system
SBE	Social, Behavioral, and Economic Sciences (NSF Directorate)
SC4 = SC ⁴	Southern California Climate Change Consortium
SCAQMD	South Coast Air Quality Management District
SCCOOS	Southern California Coastal Ocean Observing System
SCD	Study Center Directorship
SCF	Snow Cover Factor
SCI	Shared Cyberinfrastructure
SDCI	Software Development for Cyberinfrastructure (NSF OCI program)
SDO	Scientific Data Operators
SDS	Scientific Data Set Format
SDSC	San Diego Supercomputer Center
SDSU	San Diego State University
SDSWS	(WMO) Sand and Dust Storm Warning System
SEI	Science and Engineering Informatics or Stockholm Environment Institute
SEIII	Science and Engineering Information Integration and Informatics
SEM	Scanning Electron Microscope
SEVIRI	Spinning Enhanced Visible and InfraRed Imager
SFO	Single-File Operator
SGD	Smart Grid Demonstrations
SGER	Small Grant for Exploratory Research
SGI	Silicon Graphics Incorporated
SH	Southern Hemisphere
SHADE	Saharan Dust Experiment
SI	System Internationale
SIM	Subscriber Identity Module
SL	Southern Levant
SLD	Semi-Lagrangian Dynamics
SLR	Sea Level Rise
SMD	Science Mission Directorate
SMP	Symmetric Multi-Processing, Shared Memory Parallelism
SMPP	Shared Memory Parallel Programming
SMUD	Sacramento Municipal Utilities District
SNICAR	SNow, ICe, and Aerosol Radiative model
SNSF	Swiss National Science Foundation
SO ₄	SO ₄
SOFeX	Southern Ocean Iron Experiment
SOI	Southern Oscillation Index
SOIREE	Southern Ocean Iron Enrichment Experiment
SOM	Supporting Online Material
SP	Senior Personnel or Super-Parameterization
SPEW	Speciated Pollutant Emission Wizard
SPMD	Single Program Multiple Data
SPS	South Pole Station

SPS	UCI School of Physical Sciences
SPV	Solar PhotoVoltaics
SRB	Storage Resource Broker
SRES	Special Report on Emissions Scenarios
SRM	Solar Radiation Management
SS	Saltation-Sandblasting
SSA	Specific Surface Area
SSDRA	Server-Side Data Reduction & Analysis
SSI	UCI Summer Science Institute
SSP	Summer Science Program
SSS	Sea Salt Sulphate
SST	Sea Surface Temperature
STP	Standard Temperature and Pressure
SUCCESS	Subsonic Aircraft: Contrail and Cloud Effects Special Study
SW	Shortwave (radiation) or Southwest or Summer Workshops
SWAMP	Script Workflow Analysis for MultiProcessing
SWCF	Shortwave Cloud Forcing
SWE	Snow Water Equivalent
SciDAC	Scientific Discovery through Advanced Computing
TAR	Third Assessment Report
TB	Terabyte
TC	Tropical Cyclone
TEOM	Tapered Element Oscillating Microbalance
TG	Temperature Gradient
TH	Thermostat Hypothesis
TIPA	The International Phonetic Alphabet
TL	Thermoluminescence (dating technique)
TNA	Tropical North Atlantic
TNEF	Transport-Neutral Encapsulation Format (winmail.dat)
TOA	Top of Atmosphere
TOMS	Total Ozone Mapping Spectrometer (satellite instrument)
TRL	Technology Readiness Level
UAB	Universitat Autònoma de Barcelona (Autonomous University of Barcelona)
UARP	(NASA) Upper Atmosphere Research Program
UB	Universitat Barcelona (University of Barcelona)
UCAR	University Corporation for Atmospheric Research
UCEAP	University of California Education Abroad Program
UCI	University of California, Irvine
UDF	Universal Disk Format
UNCCD	United Nations Convention to Combat Desertification
UNIX	Generic name for operating system
UOEAP	Universitywide Office of the University of California Education Abroad Program
UPC	Universitat Politècnica de Catalunya (Polytechnical University of Barcelona)
UPMC	Université P. et M. Curie
URI	University of Rhode Island

UV	User Visits to LEP
VC	Visualization Cluster
VCR	Vice Chancellor for Research
VR	Virtual Reality
WAIS	West Antarctic Ice Sheet
WCGGWI	West Coast Governors' Global Warming Initiative
WCRP	World Climate Research Programme
WG	Working Group
WG1	(IPCC) Working Group One (Scientific Basis of Climate Change)
WKB	Wentzel-Kramers-Brillouin (theory)
WLAN	Wireless Local Area Network (e.g., IEEE 802.11, WiFi)
WMAN	Wireless Metropolitan Area Network (e.g., IEEE 802.16, WiMAX)
WMD	Weapons of Mass Destructiona
WNPP	Work-Needing and Prospective Packages
WPAN	Wireless Personal Area Network (e.g., IEEE 802.15, Bluetooth)
WPWP	Western Pacific Warm Pool
WRF	Weather Research and Forecasting (model)
WSTNA	Western and Subtropical North Atlantic
WWAN	Wireless Wide Area Network (e.g., IEEE 802.16, WiMAX)
WiMAX	Worldwide Inter-operability for Microwave Access (IEEE 802.16)
XML	Extensible Markup Language
YD	Younger-Dryas
YKW	You Know Who
ZKB	Zero known bugs
netCDF	network Common Data Format
p655	8-CPU IBM computer node in ESMF
p690	32-CPU IBM computer node in ESMF
ALMOD	average layer monochromatic optical depth
ALT	average layer transmission
CEWI	Compiler Error Warning Initializer
HG	Henyeey-Greenstein
IT	Interface Transmission
IT	Interface transmission
ITOD	Interface Transmission Optical Depth
LMOD	Layer Monochromatic Optical Depth
LMT	Layer Monochromatic Transmission
LT	Layer Transmission
LTOD	Layer Transmission Optical Depth
RUVICFFU	Retain Unused Variables In Comments For Future Use
Ray	Rayleigh
SS	Sensitivity Study
aa	azimuthal average
aapt	Android Asset Packaging Tool

abb abbreviation
 abs absorption, absorbed, absorbing
 aca anomalous cloud absorption
 acc annual cycle
 acm accomodation or accomplishment
 act activity
 acu altocumulus
 adb adding-doubling (radiative transfer method) or Android Debugging Bridge
 adp adaptation (*ant. mtg*)
 aer aerosol, aerosol-laden (turbid) (*ant. cln*), or aerodynamic
 afr afforestation
 agr agricultural
 alb albedo
 all all, every, entire
 alp associated Legendre polynomial
 alw adiabatic liquid water or allow
 amp ampersand
 amt amount
 anl analyzed or analytic (*ant. rsl*)
 anm animation or anomaly or anonymous
 apk Android application
 apm applied math
 apn append (*ant. ppn*) or appendix
 apr annual progress report or approve, approved or aperture
 apt appointment
 arf aerosol radiative forcing
 ash apparent sink heat
 asm asymmetry (as in asymmetry parameter) or asymptote
 asp aspherical (*ant. sph*)
 atm atmosphere or atmospheric
 att attribute
 avg average, mean
 axz axis, axes
 azi azimuth, azimuthal
 bb broadband
 bbc broad branch crystal (*ant. hxg*)
 bbd black body
 bbl bubble
 bch batch or beach
 bck backscatter (*ant. fwd*) or backup
 bcl baroclinic (*ant. brt*)
 bdy birthday
 bfr buffer
 bgf bigfile
 bio biological

bkf	backfill
blk	block or black
bll	bell
bln	boolean
blr	bluer (shorter wavelength) (<i>ant.</i> rdr)
bm	beam or benchmark
bmb	biomass burning
bnd	band or bounded, boundary
bnr	binary
bool	Boolean
bp	pointer to byte
bpv	bits per packed value
brd	broadened, broadening
brn	Brownian or barn
brt	brightness (temperature) or barotropic (<i>ant.</i> bcl)
bsc	backscatter
bsl	Bessel
btm	bottom, lowermost (<i>ant.</i> top)
bvr	bi-variate (<i>ant.</i> uvr)
bw	black and white
bwn	Bowen (ratio)
bxm	box model
cbc	cubic
ccd	coccidioidomycosis
cch	cache
ccn	cloud condensation nuclei
cdnc	cloud droplet number concentration
cff	coefficient
cfg	configure
chk	check or checksum
chm	chemistry
chn	channel
chn	chapter
cht	cheatsheet
ck	cook, cooking
ck	correlated- <i>k</i>
ckn	cooking
clb	Coulomb
clc	collection
cld	cloud, cloudy or all sky (<i>ant.</i> clr)
cll	collision or cell or collimated
clm	column or climate
cln	clean (aerosol-free) (<i>ant.</i> aer) or clean (memory) (<i>ant.</i> drt) or calendar
clq	colloquium
clr	color or clear (cloud-free) (<i>ant.</i> cld)

cls	Celsius (<i>ant.</i> klv) or class or close (<i>ant.</i> opn) or classical (<i>ant.</i> qnt)
cly	clay
cmd	command
cml	cumulative
cmm	communicator
cmn	common
cmp	compare or compress, compressed, compression
cn	condensation nuclei
cnc	concentration or conclusion
cnd	condensate, condensed or conductivity, conductance
cnf	conform
cnk	chunk
cnm	continuum (<i>ant.</i> ln) or economic, economical
cnn	canonical
cnp	canopy
cns	consulate
cnsc	consecutive
cnt	count or continuum or controversy
cnv	convergence or convert or convention
cor	core (<i>ant.</i> mnt)
cos	cosine
cp	copy or pointer to char
cpc	capacity
cpl	capillary
cpt	caption
cpv	computational precision variable
cpx	complex
crc	correction or circumference or circle
crd	coordinate
crl	curl (<i>ant.</i> dvr) or coral
crp	creep (surface) or cryptography
crr	current
crs	Cirrus or course (<i>ant.</i> hrz) or cross (<i>ant.</i> dot)
crs	crust, crustal
crt	Cartesian (<i>ant.</i> sph) or critical (<i>syn.</i> thr) or create
csn	seasonal
cst	cast or constant or constituent or coast, coastal
csza	cosine solar zenith angle
ctg	category or contiguous
ctl	control (<i>ant.</i> xpt)
ctr	center, central or counter
cv	curriculum vitae
cvr	centennial variability
cw	carbon and water
cyl	cylinder (<i>ant.</i> sph)

dat	data
day	night (<i>ant.</i> ngh)
dbg	debug
dbl	double (<i>ant.</i> flt)
dbn	debian
dcc	diurnal cycle
dcr	decreasing or decrement
dcx	double_complex
dd	day of month (two digit format) (<i>syn.</i> dom)
ddd	day of year (three digit format) (<i>syn.</i> doy)
ddm	direct-diffuse mean
ddp	dry deposition
dep	depth, as in optical depth
dex	Dalvik executable
dff	diffuse (radiation) (<i>ant.</i> drc) or diffusion, diffusivity (deprecated)
df1	default or deflate, deflated (<i>ant.</i> nfl)
dfn	definite or define, definition
dfr	deforestation
dfr	differential or defer, deferred
dfs	diffuse (radiation) or diffusion, diffusivity (preferred)
dgn	diagnostic or diagonal
dgr	degrees (<i>ant.</i> rdn)
dgs	digest
dgt	digit
dle	delta-Eddington (radiative transfer method)
dlq	deliquescence
dlr	dollar
dlt	delta, difference
dmd	diamond dust
dmg	Disk Image (MacIntosh filetype)
dmm	deci-millimeter (m^{-4}) or dim, dimming
dmn	dimension
dmr	dimer
dmt	diameter (<i>ant.</i> rds)
dmy	dummy
dnd	do not delete or dendrite, dendritic
dne	does not exist
dn1	delete whitespace up to new line (M4 comment)
dnm	denominator (<i>ant.</i> nmr)
dns	density
dom	day of month (<i>syn.</i> dd)
dot	dot product (<i>ant.</i> crs)
doy	day of year (<i>syn.</i> ddd)
dp	pointer to double
dpl	dipole or duplicate

dpp Doppler
dps deposition
dpt depth
drc direct (*ant. dff*) or direction
drg drag
drk dark (*ant. lgt*)
drn duration
drs address
drt dirty (memory) (*ant. cln*)
drv driver or derived, derivation or derivative
drw Darwin
dsc description or discussion or discriminant or discretization
dsd drop size distribution (*ant. psd*)
dsh dash
dsk disk
dsr desert
dsr discrete-ordinates (radiative transfer method)
dss disease
dst distribution or distance or dust
dte detector
dvc device
dvd divide (*ant. mlt*)
dvn deviation
dvr decadal variability or divergence (*ant. crl*)
dwn down, downwelling (*ant. up*)
dwp dew point
dwt dry weight
dyn dynamic
edc education
eid emerging infectious diseases
emu emulate
enm enumerated
epd epidemiology
eps epsilon or Encapsulated PostScript
eqm equilibrium
eqn equation
eqx equinox (*ant. sls*)
err error
est East (*ant. wst*)
evl evaluate
evn even (symmetric) (*ant. odd*)
ext extinction
fch fetch
fct factor
fcx float_complex

ffc	effective
fgr	figure
fk	fake
fl	file or firstnamelastname (no space)
flc	fluctuating, fluctuation
fld	field or fluid
flg	flag
flk	flake
fll	fill or full or Fall
fls	false (<i>ant.</i> tru)
flt	filter or float (<i>ant.</i> dbl) (<i>ant.</i> int)
flw	flow or follow or fellowship or follow-up
flx	flux (<i>syn.</i> rrd)
fml	family
fn	first name (<i>ant.</i> ln)
fnc	function
fnl	final
fmt	font
fp	pointer to float
frc	fraction or forcing or friction
frd	Froude or Faraday
frl	fractal
frm	formula
frn	foreign (broadened) (<i>ant.</i> slf)
frnd	friend
frq	frequency (<i>ant.</i> wvn) (<i>ant.</i> wvl) (<i>ant.</i> prd)
frr	Fourier
frs	Fresnel or first (<i>ant.</i> lst)
frs	forest
frsh	efficiency or offshore (<i>ant.</i> nsh)
frsn	fusion
frst	offset
frtr	future
frwd	forward (<i>ant.</i> rvr) or forward scatter (<i>ant.</i> bck)
frxm	fix me (debugging)
frzz	fuzzy (band averaged)
gaa	global annual average
gam	global annual mean
gcc	global climate change
gdp	gravitational deposition
gds	geodesic
gdwt	gram dry weight
gift	gift
glb	global or greatest lower bound
glc	glacier, glacial, glaciogenic

gml Gmail address
 gmm gamma
 gmr geomorphology, geomorphic
 gmt Greenwich Mean Time or geometric
 gnd ground or agenda
 gng geo-engineering
 gnm genome, genomic
 gnr generic or generator
 goa geometric optics approximation
 gpd gas phase diffusion
 grd grid or gradient (*ant. crl*)
 grp group
 grv gravity, gravitation
 grw grow, growth
 gry grey
 gsd geometric standard deviation
 gss Gauss, Gaussian
 gw Gaussian weight
 gwc gravimetric water content
 hch heterogeneous chemistry
 hdl headline
 hdr header
 heat heating
 heg HDF EOS Grid
 hgh high (*ant. low*)
 hgt height (*ant. wdt*)
 hh hour of day (two digit format) (*syn. hr*)
 hi high, uppermost (*ant. lo*)
 hlc holocene
 hmr humor
 hmd humidity
 hmg homogeneous (*ant. nhm*)
 hms hemisphere
 hnd handle
 hnr Henry or honor, honors
 hr hour
 hrd surface hoar
 hrs depth hoar
 hrv Harvard
 hrz horizontal (*ant. vrt*) or high-resolution
 hst history
 htrn HITRAN
 hxd hexadecimal
 hxg hexagon, hexagonal (*ant. bbc*)
 hyd hydrology

i18n	internationalization
iaf	ice albedo feedback
icc	interannual cycle or ice core
icr	ice core
id	identifier
idx	index or indices
iff	if and only if
ilg	illegal (<i>ant.</i> lgl)
img	imaginary or image
in	input (<i>ant.</i> out)
ini	initial, initialize
inq	inquire
int	integer (<i>ant.</i> flt)
ipc	interparticle cohesion
ipm	isopotomer
ips	idiom and practice of science
ipt	isopotomer
iso	isotope or isothermal
ist	interstitial
itp	isotope
itr	iterator or iteration
ivr	interannual variability
jc	journal club
jrn	journal
kdz	kids
klv	Kelvin (<i>ant.</i> cls)
kml	Keyhole Markup Language (<i>syn.</i> kmz)
kmz	zipped (compressed) Keyhole Markup Language file (<i>syn.</i> kml)
knd	Knudson
knm	kinematic
knt	kinetic
kyt	kite
l10n	localization
lac	light absorbing carbon
lai	leaf area index (<i>ant.</i> vai, sai)
lak	lake
lat	latitude (<i>ant.</i> lon)
lbl	label or line-by-line
lbr	library
lcl	local
lcn	location
ldr	lidar
lev	level
lfc	lifecycle
lft	lift or left (<i>ant.</i> rgt) or lifetime

lgf logfile
 lgl legal (*ant.* ilg)
 lgn lognormal or legend
 lgt light (*ant.* drk) or lightning
 liq liquid
 lkt look-up table
 llm illumination
 lmn element or laminar
 ln line or natural logarithm or last name (surname) (*ant.* fn)
 lnd land (*ant.* ocn)
 lng long or length or language
 lnr linear (*ant.* nlr)
 lnt lenticular
 lo low, lowermost (*ant.* hi)
 loi letter of intent
 lon longitude (*ant.* lat)
 los letter of support
 low low (*ant.* hgh)
 lp pointer to long
 lpl Laplace, Laplacian
 lqd liquid (*ant.* sld)
 lrb larboard (*syn.* prt) (*ant.* srb)
 lrb larboard (*syn.* prt) (*ant.* srb)
 lrn Lorentz, Lorentzian
 lrv least rapidly varying
 lsc last significant character
 lsf line shape factor
 lss loess
 lst list or last (*ant.* frs)
 ltn latent (heat) (*ant.* sns) or latency
 ltr letter or liter
 lub least upper bound
 lut lookup table
 lvl level
 m17n multilingualization
 max maximum (*ant.* min)
 mbl mobilization
 mca multi-component aerosol
 mcr micron
 md mode
 mdl modal (*ant.* sxn) or model (*ant.* obs), (*ant.* msr)
 mdm medium (*ant.* prt), (*ant.* core), (*ant.* ncl)
 mdn median
 mdp midpoint (*ant.* ntf)
 mds modulus

mfp	mean free path
mgn	magnetism, magnetic
mie	Mie
min	minimum (<i>ant.</i> max)
mjr	major
mk	make, create
mlc	molecule, molecular
mlg	mileage
mlk	Malkmus or Milankovitch
mll	molality (mol kg^{-1})
mlmic	mean linear mass increase coefficient
mlr	molarity (mol L^{-1})
mlr	molarity (mol L^{-1})
mls	mid-latitude summer or mean line spacing
mlt	multiply (<i>ant.</i> dvd) or multiple (<i>ant.</i> sgl)
mlw	mid-latitude winter
mm	month of year or minute of hour (two digit format) (<i>syn.</i> moy, mth)
mmn	moment or momentum
mmr	mass mixing ratio or memory
mmt	mammatus
mmw	mean molecular weight
mnz	immunization
mnc	Monte Carlo
mng	monograph
nmn	minimum (<i>ant.</i> mxm)
mno	Monin-Obukhov
mnr	minor or mineral, mineralogy
mnt	monotonic or minute or mantissa or mantle (<i>ant.</i> cor)
mod	modulus
mom	moment (e.g., in Legendre expansion)
mono	monochromatic
moy	month of year (<i>syn.</i> moy)
mpc	mass path column or impaction
mpl	implementation or mass path layer
mpr	empirical
mrđ	(mass) mixing ratio in dry air (<i>ant.</i> mrm)
mrk	Markov or mark
mrm	(mass) mixing ratio in moist air (<i>ant.</i> mrđ)
mrr	mirror
mrv	most rapidly varying
mrz	Mars, Martian
msc	miscellaneous or music
msg	message
msk	mask
msl	mean sea level

msn emission
 msr measured, measurement (*ant.* mdl), (*syn.* obs)
 mss mass or missing (value)
 mst moisture, moist (air) (*ant.* dry)
 msv emissivity
 mtd metadata or method
 mtg meeting or mitigation (*ant.* adp)
 mth month (*syn.* moy, mm) or math
 mtm metamorphism
 mtr meter or metric
 mtx matrix (*ant.* ncl)
 mvs Microsoft Visual Studio
 mvsc Microsoft Visual Studio Compiler
 mwb Maxwell-Boltzmann
 mxg Maxwell Garnett (*ant.* brg)
 mxm maximum (*ant.* mnm)
 naa number average analytic
 nar number average resolved
 nb narrow band
 nbr number
 nc netCDF
 ncl nucleation or nucleus, nuclei, nuclear or inclusion (*syn.* core), (*syn.* prt), (*ant.* mtx) or include
 ncr increasing or increment or encrypted (*ant.* ucr) or anchor
 ncv natural climate variability
 ncw nuclear winter
 ndc normalized device coordinates
 ndf indefinite
 ndn indent, indentation or endianness
 ndf indefinite
 ndm non-dimensional or endemic
 ndr indirect effect or nadir, downward looking (*ant.* zen)
 nfc infection
 nfl inflate (*ant.* dfl)
 nfn infinite
 nfr info., information
 ngh night (*ant.* day) or neighbor
 ngs Ångström
 nhm inhomogeneous (*ant.* hmg)
 nlr non-linear (*ant.* lnr)
 nm name
 nma number median analytic
 nmn nominal or non-monotonic
 nmr number median resolved or numeric or numerator (*ant.* dnm)
 nms namespace
 npc number path column

npl	number path level
nrg	energy or inorganic (<i>ant.</i> rgn)
nrs	inertia
nrs	nurse, nursing
nrt	North (<i>ant.</i> sth)
nsh	onshore (<i>ant.</i> fsh)
nsl	insolation
nsm	ensemble
nsr	answer
nst	instrument or instantiate, instantiation or instructor, instruction
nsz	Nussenzweig
ntc	interception or notice
ntf	interface (<i>ant.</i> mdp)
ntg	integral or integer
nth	enthalpy
ntl	initial or initials
tmc	atomic (<i>ant.</i> ntm)
ntm	intermediate or non-atomic (<i>ant.</i> tmc)
ntn	intensity or radiance
ntp	interpolate, interpolant or entropy
ntr	introduction (<i>ant.</i> cnc) or internal (<i>ant.</i> xtr) or nutrient or entertainment
nts	note to self
ntt	annotate, annotated, notation
ntv	interval, interview
ntw	network
ntz	units
nvr	environment (<i>ant.</i> prc) or inversion or never
nvt	invitation
nwa	number weighted average analytic
nwr	number weighted average resolved
nwt	Newton (<i>syn.</i> rph), Newtonian
nxt	next (<i>ant.</i> prv) or (<i>ant.</i> crr)
obl	oblate (<i>ant.</i> prl)
obs	observed, observation (<i>ant.</i> mdl), (<i>syn.</i> msr)
ocn	ocean (<i>ant.</i> lnd)
oda [c, l]	optical depth absorption [column,layer]
odd	odd (anti-symmetric) (<i>ant.</i> evn)
ods [c, l]	optical depth scattering [column,layer]
odx	extinction optical depth
odx [c, l]	optical depth extinction [column,layer]
off	offset
omp	OpenMP
op	operation
opn	open (<i>ant.</i> cls)
opt	optical or option or optimal

osm osmotic
 osw offshore wind
 out output (*ant.* in)
 ovl overlay
 ovr overlap
 pbl public (*ant.* prv) or planetary boundary layer
 pcc polar climate change
 pch photochemistry (*ant.* hch) or pch
 pck pack, packed (*ant.* upk)
 pcl Peclet or parcel (*ant.* nvr)
 pcp precipitation
 pct percent
 pd present day
 pdd photodiode
 pfl profile
 pfo pseudo-first order
 pforc pseudo-first order rate coefficient
 pfx prefix
 pht photon
 phy phytolith
 phz phase
 plc place or policy or paleoclimate
 plg polygon
 plk Planck
 pll palette or pollution
 pln plant or plain (*syn.* ucr) or planar (*ant.* sld)
 plp plane parallel
 plr polar, as in polar angle (*ant.* azi)
 plt plot
 plt politics, political
 pmr partial molar refraction (optical approximation)
 pmp pre-empt, pre-emption
 pnl panel
 pnr panorama
 pnt point
 ppl population or popular (*ant.* prv)
 ppn prepend (*ant.* apn)
 ppp pre-proposal
 ppr partial pressure or paper
 prc process or photodissociation rate coefficient or precision
 prd period (*ant.* frq) or product
 prg program
 prj projection
 prl parallel (*ant.* prp) or prolate (*ant.* obl) or parliamentarian
 prm parameter or prime or permafrost

prn	print, printer or parentheses, parenthetical, or period or parent
prp	property or perpendicular (<i>ant.</i> prl) or proposal or propre (clean) (<i>ant.</i> sal)
prs	pressure or parse or person or press
prt	partial or partition or port (<i>syn.</i> lbr) (<i>ant.</i> sbr)
prv	peer-reviewed (<i>ant.</i> ppl) or preserve, preserving
prv	private (<i>ant.</i> pbl) or previous or provisional
prx	approximation
psd	particle size distribution (<i>ant.</i> dsd) (<i>syn.</i> szdst) or pseudonym
psd	postdoc
psn	position
pss	Poisson or parent snow sample
pst	positive or poster or pesticide
pth	path
ptn	potential
ptr	pointer or poetry
pwr	power
pyr	pyrocumulus
qck	QuikSCAT
qdr	quadratic or quadruple
qnt	quantum (<i>ant.</i> cls)
qrk	quark
qst	saturated mixing ratio
rat	rate
rbn	rebin
rbt	rebase
rbt	rebuttal
rcd	return code
rch	research
rcm	recompute
rcp	reciprocal
rcr	recurrence (<i>ant.</i> nrer) or recursive
rect	rectangle, rectangular (<i>ant.</i> rrg)
rdb	erodible, erodibility
rdc	reduced or radioactivity
rdd	retain degenerate dimensions
rdl	radial
rdn	radian (<i>ant.</i> dgr) or radiation
rdr	order (<i>ant.</i> rrd) or redder (longer wavelength) (<i>ant.</i> blr)
rds	radius (<i>ant.</i> dmt)
rec	record
rf	reef
rfl	reflectance
rfr	refraction or reference or refresh
rgd	rigid
rgn	roughness

rgl regular
rgn region or original, origin or organic (*ant.* nrg)
rgr regression or regrid
rgt right (*ant.* lft)
rhd relative humidity at deliquescence
rjc reject, rejected
rl real
rlh roughness length heat
rlm roughness length momentum
rlt relative
rlv roughness length water vapor
rma resonance of maximum amplitude
rmn remaining or Riemann
rmt remote
rnb rainbow
rnd raindrop
rng range
rnk rank
rnr renormalize
rnt orientation
rph Raphson (*syn.* nwt)
rpk repack
rpl replicate, replicant
rpr reprint or repair
rpt report
rqr require
rqs request
rrd irradiation, irradiance (*syn.* flx), (*ant.* ntn) or re-order (*ant.* rdr)
rrg irregular (*ant.* rct)
rsd residue or residual
rsl resolved (*ant.* anl) or result
rsn resolution
rsr resource
rss resistance
rst reset
rtc article
rte route
rth arithmetic or orthogonal, orthonormal
rtl run-time linking
rtp ready-to-post
rtr retrieval or router
rts ready-to-send
rtt rotated, rotation, rotational, rotator
rvr reverse (*ant.* fwd) or river, riverine
rvw review

rx	regular expression
rxn	reaction
rxr	reaction rate
rxrc	reaction rate coefficient
ryl	Rayleigh
ryn	Reynolds
ryt	ray-tracing
rzh	erosion
saa	surface area average analytic
sai	stem area index (<i>ant. vai, lai</i>)
sal	sal (dirty) (<i>ant. prp</i>)
sar	surface area average resolved
sas	sub-Arctic summer or surface-atmosphere system
saw	sub-Arctic winter
sbf	Spherical bessel function
sbl	sublimation
sbr	subroutine
sbs	subscript (<i>ant. sps</i>)
sbt	subtract (<i>ant. add</i>)
sca	scattering (<i>ant. abs</i>)
scc	seasonal cycle
scd	schedule
scf	snow cover fraction
sch	search
scl	scale or school
scn	second or scan
scr	security or secret
sct	scatter, scattering, scatterometer, or structure
scv	scalar value or scavenge, scavenging
sd	side
sdm	sediment
sdn	student
sdv	standard deviation
seb	surface energy budget
sec	second
sfc	surface
sft	software
sfx	suffix
sgl	single (<i>ant. mlt</i>)
ebk	e-book
sgn	sign or assignment or significand
nsg	unsigned
sgs	sub-gridscale
shf	shuffle
shm	Schmidt

shp shape or ship
 shr Sherwood
 sht short
 sin sine
 skp skip (*ant.* usd)
 sl soil
 slb slab or solubility
 slc slice
 sld solid (*ant.* pln) (*ant.* lqd)
 slf self (broadened) (*ant.* frn)
 sln solution
 slp slip
 slr solar
 sls solstice (*ant.* eqx) or slash
 slt solute (*ant.* slv) or silt or saltation, saltator
 slv solvent (*ant.* slt) or solve, solver
 sma surface area median analytic
 sml similarity
 smm summation
 smp soil matric potential or sample or simple or symmetric multi-processing
 smr Summer or surface area median resolved or summary
 snd sonde or sand
 sng string
 snp snap or snowpack
 sns sensitivity or sensible (heat) or sunset
 snw snow
 sov separation of variables
 sp pointer to short
 spc special or spectral (*ant.* bb) or specific or spectroscopy or space
 spf superfluous or spitfire
 sph sphere, spherical (*ant.* cyl) (*ant.* asp)
 spl supplement
 spm summary for policymakers (*ant.* tsm)
 spn span
 spr Spring or sparse or super
 sps superscript (*ant.* sbs)
 sqr square, squared
 srb starboard (*ant.* prt) (*ant.* lrb)
 src source or structure
 srd stride
 srf surface reflectance feedback
 srg storage
 srl spiral
 srm stream
 srs series

srt	start or sort
srv	service or server
ss	single scattering or sensitivity study or second of minute (two digit format)
ssh	secret
ssl	sea-salt
stb	stable or stability
stc	sticking (coalescence)
std	standard
stg	stagger
sth	South (<i>ant.</i> nrt)
stk	Stokes or stack
stl	satellite
stm	stimulated
stmt	statement
stp	step
str	star or strength or stress
stt	status, state or statement or students' t-test
stx	stratosphere-troposphere exchange
sty	style
sv	save
svd	saturation vapor density
svm	saturation vapor mixing ratio
svn	subversion
svp	saturation vapor pressure
svr	seasonal variability
svy	survey
sw	software
swa	surface area weighted average analytic
swg	software engineering
swr	surface area weighted average resolved
sxn	section or sectional (<i>ant.</i> modal)
sys	system
sz	size
sza	solar zenith angle
szdst	size distribution
tbl	table
tca	tropical cirrus anvil
tch	teacher
tck	tick
tdl	tidal
tdp	turbulent deposition
thk	thick, thickness
thr	threshold or therapy
thw	thaw
tlk	talk

tln outline
 tm time
 tmp temporary
 tmr timer
 tms TOMS or timeseries
 tmw teamwork
 tnd tendency
 tnr tenure
 tns tensor
 tent tentative
 top top, uppermost (*ant.* btm)
 tpg topography, topographic
 tpt temperature
 smf ESMF
 tps Tempest (remapping suite)
 trb turbulent, turbulence
 trc tracer
 trg trace gas or target or trigger
 trm thermal or term or termination
 trn transmittance, transmission or transformation or trend or translation, translational (energy)
 trp tropics, tropical or triplet
 tru true (*ant.* fls)
 trv traverse
 tsm technical summary (*ant.* spm)
 tst test
 ttl total or title
 txt text or texture (soil)
 typ type
 ucr un-encrypted (plain text) (*ant.* ncr)
 um micron, micrometer
 unk unknown
 nsx intersection (*ant.* unn)
 unn union (*ant.* nsx)
 up upward, upwelling (*ant.* dwn)
 upk unpack, unpacked (*ant.* pck)
 upt uptake
 upw upward, upwelling (*ant.* dwn)
 usd used (*ant.* skp)
 usg usage
 usr user
 uvr uni-variate (*ant.* bvr)
 vaa volume average analytic
 vai vegetation area index (leaf + stem) (*ant.* lai, sai)
 val value
 var variability or variable or volume average resolved

vbr	vibration
vct	vector
vec	vector
vf	Valley Fever
vgt	vegetation or Voigt
vlc	volcano, volcanic
vld	valid, model validation dataset
vlm	volume
vlw	volume-weighted
vma	volume median analytic
vmr	volume median resolved
vnt	event or ventilation
vp	pointer to void
vpr	vapor
vrb	verbose
ncs	ancestor
vrn	variance
vrs	version or various
vrt	vertical (<i>ant.</i> hrz) or vortex, vortice or vertice
vs	Visual Studio
vsb	visible
vsc	viscous, viscosity
vsh	vector spherical harmonic
vta	volume-to-area
vwa	volume weighted average analytic
vwc	volumetric water content
vwr	volume weighted average resolved
vzn	visualization
wbl	Weibull
wbn	wind bin
wdp	wet deposition
wdt	width (<i>ant.</i> hgt)
wdw	window
wgt	weight, weighted
wht	white
winoc	water insoluble organic carbon (<i>ant.</i> wsoc)
wk	weak or week
wnd	wind or Windows
wnt	Winter
wrd	award
wrk	work
wrp	wrap
wsoc	water soluble organic carbon (<i>ant.</i> winoc)
wst	West (<i>ant.</i> est)
wt	wait

wth weather
 wtl wetland
 wtm mass-weighted
 wtn number-weighted
 wtr water
 wts surface area-weighted or spectrally weighted
 wtv volume-weighted
 wtx cross sectional area-weighted
 wv wave
 wvl wavelength (*ant.* wvn)
 wvn wavenumber (*ant.* wvl)
 xaa cross-sectional area average analytic
 xab extended abstract
 xar cross-sectional area average resolved
 xbt exhibit
 xcf eXperimental Computing Facility (gimp file format)
 xcl exclude (*ant.* ncl)
 xcs excess
 xct Executable
 xct excited (state)
 xem extended effective medium
 xma cross-sectional area median analytic
 xmp example
 xmr cross-sectional area median resolved
 xnt eccentricity (orbital)
 xpc expected
 xpn exponent, exponential or expand, expanded (*ant.* pck)
 xpr expression or expire
 xpt experiment (*ant.* ctl)
 xrf cross reference
 xsa cross-sectional area
 xst exist, exists
 xsx cross-section, cross-sectional (area)
 xtn extend, extended
 xtr extrapolate (*ant.* ntp) or extract or external (*ant.* ntr)
 xwa cross-sectional area-weighted average analytic
 xwr cross-sectional area-weighted average resolved
 yld yield
 yr year (*syn.* yyyy)
 yyyy year (four digit format) (*syn.* yr)
 zen zenith, upward-looking (*ant.* ndr)
 zpd zero plane displacement
 zro zero
 zta zeta