

-A-

A ampere (also amp; unit of electrical current)
Å Angstrom (unit of length = 10^{-10} m)
a* color reflectance component (no unit)
a`a lava
AABW Antarctic Bottom Water
AAD Australian-Antarctic discordance
AAG Australo-Antarctic Gulf
AAIW Antarctic Intermediate Water
ABI acoustic borehole image [logging]
ablation (use “laser ablation”)
ABM assigned board member (of the ERB) [publications]
aboard [but “on board”]
ABS American Bureau of Shipping [logistics]
abyssal
AC alternating current (n., adj.)
ACC Antarctic Circumpolar Current
accretion
ACEX Arctic Coring Expedition [IODP Exp 302]
acicular
acidification
acid-insoluble (adj.)
acidity (use “pH”)
acknowledgments
acme zone
ACORK advanced circulation obviation retrofit kit
acoustic impedance (n., adj.)
AD Antarctic Divergence [science]
A/D analog-to-digital
ADCB advanced diamond core barrel [drilling]
adcumulate
admixture
ADN Azimuthal Density Neutron [logging]
adnVISION [logging]
adsorption
advection
aeolian (use eolian)

AES atomic emission spectroscopy [science, chemistry]

AF alternating field (n., adj.) [science, paleomagnetism]

aff. related to [Latin *affinis*] [science, biostratigraphy]

affine

AGI American Geophysical Institute

agglomerate

agglutinated

aggradation; aggradational

AGU American Geophysical Union

AHC active heave compensator [drilling] (IODP use “WHC”)

air fall (n., adj.)

air gun (n., adj.)

Albian (Alb.)

albitization

alkalinity

alkanes

alkenones

allanite

allochthonous

ALN alien corer [drilling; ESO]

alongshore (adj.)

along-slope (n., adj.)

aluminium (use “aluminum”)

aluminosilicates

amagmatic

ammonium (NH₄; not “ammonia”)

AMO anaerobic methane oxidation

amphibolitization

AMS (1) anisotropy of magnetic susceptibility [science, paleomagnetism]; (2) accelerator mass spectrometry/spectroscopy [science, radiocarbon dating]

AMST archive multisensor track (ODP; replaced by “SHMSL” in IODP)

AMU atomic mass unit; also “amu”

amygdule (not “amygdale”)

amygdaloidal

analcite (use “analcime”)

analog

anastomosing

AND azimuthal neutron density [logging]

ANDRILL Antarctic Geological Drilling

anion

Anomaly MO (and others; capitalize “Anomaly” with a number)

ANSI American National Standards Institute

Antarctic Convergence

Antarctic Divergence

Antarctic Water Mass

anthracene

ANZIC Australia-New Zealand IODP Consortium

AO acridine orange [science, microbiology]

AODC acridine orange direct count method [science, microbiology]

AOM anaerobic oxidation of methane

APC advanced piston corer [drilling]

APCT-3 advanced piston corer temperature tool [drilling]

aphanitic

aphyric

API American Petroleum Institute

API units natural gamma ray units; also “gAPI” [logging]

APL Ancillary Project Letter

APLC near-array porosity [logging]

apophyses

APP Annual Program Plan [publications]

apparent polar wandering

appendixes (not “appendices”)

APS Accelerator Porosity Sonde (also “IPLT sonde”) [logging]

Aptian (Apt.)

APWD annular pressure while drilling [drilling]

APWP apparent polar wander path [science, paleomagnetism]

aq aqueous

Aquitainian (Aquit.)

Archaeobacteria (use “Archaea”)

ARC Australian Research Council

Archie’s law [formation factor]

ARI Azimuthal Resistivity Imager [logging]

ARM anhysteretic remanent magnetization [science, paleomagnetism]

ash fall (n., adj.)

ASGR ANTARES Spectral Natural Gamma Probe [logging]

ASK automatic stationkeeping [ship]

ASR anelastic strain recovery

ASTM American Society for Testing and Materials

ATP adenosine triphosphate [science, microbiology]

authigenic

auto- (generally closed up as a prefix)

autobrecciated

autochthonous

AUV autonomous underwater vehicle

AVS automated vane shear [science, physical properties]

-B-

b barn (unit of area = 10^{-28} m²)

b* color reflectance component (no unit)

b.y. billion years

b/e⁻ (unit of photoelectric effect) [logging]

back arc (n.) **back-arc** (adj.) (not backarc) [GOG5, AGI Thesaurus]

back off (n., adj.) [drilling]

backfill

backflow

backpressure

backreaming [drilling]

backscatter

back thrust (n.) [GOG5]

backtitrated

backup (n., adj.)

back up [v.]

band-pass (adj.; not used as a noun)

bandwidth (n., adj.)

barrel sheet (n., adj.) (preferred term is "VCD" or standard graphic report)

Barremian (Barrem.)

Barriasian (Berrias.)

Bartonian (Bart.)

baseline

basinward

basinwide

bathyal

bbl 42-gallon barrel (US) [logging]

BCR (1) Bremen Core Repository, (2) bicenter reamer [drilling]

beadmaker

bedform

bedrock

bedset

belemnite

Benioff zone

benthic (not "benthonic"; adj., not used as noun)

benthic taxa (n.; not "benthic")

bequerel (Bq) (SI unit of activity)

BGS British Geological Survey
BHA bottom-hole assembly [drilling]
bifurcation
bigradational
bio- (generally closed up as a prefix)
biochron
biochronology
biochronozone
bioevent
biogenic (not “biogenous”)
biosiliceous (adj.)
biozone
birefringence
bit [drilling]
bit sub [drilling]
BOH bottom of hole
bolboformids
Bølling-Allerød
bootstrapping
BOP blowout preventer [riser drilling]
borehole
BOSS BioOsmoSampler System
botryoidal
bottom water (n., adj.)
bowspring (n., adj.) [logging]
BP before present
breakout
brf below rig floor (as in mbrf, meters below rig floor) [drilling]
BRG Borehole Research Group, Lamont-Doherty Earth Observatory
Brunhes Chron
BSE backscattered electron [SEM imaging]
BSEM backscattering electron microscope [SEM imaging]
bsf below seafloor (as in mbsf, meters below seafloor) [science]
bsl below sea level (as in mbsl, meters below sea level) [science]
BSR bottom-simulating reflector/reflection [science]
buildup (n.)
bulk density (n., adj.)
bulkhead [ship]

bulk-rock (adj.)

bullnose [drilling]

Bullseye vent

bumper sub [drilling]

Burdigalian (Burd.)

by- (generally closed up as a prefix)

bypass

byproduct

-C-

C (1) degrees Celsius (unit of temperature = degrees Centigrade); (2) coulomb (unit of electrical charge)

c/s counts per second (NGR unit; use “counts/s”)

C₁/C₂ methane/ethane ratio [science, chemistry]

C₆₊ hexane and higher hydrocarbons [science, chemistry]

ca. circa (only used with age or time; IODP prefers “~” in all cases)

CAB Curatorial Advisory Board

cablehead [logging]

CAE carbon accumulation event

cal calorie (unit of energy)

Calabrian (Cal.)

calc-alkaline (adj.)

calcareous (adj.)

Campanian (Camp.)

Carbonaceous (time period) **carbonaceous** (adj.)

CARD-FISH catalyzed reporter deposition–fluorescence in situ hybridization [microbiology]

casing [drilling]

CASSI Chemical Abstracts Service Source Index

cataclasis

cataclasite

cataclastic

cathode

cation

catwalk [ship]

CAVA Central American volcanic arc

cave-in (n.)

CB center bit [drilling]

CC core catcher (n., adj.) [drilling]

CCD (1) carbonate compensation depth/calcite compensation depth [science]; (2) charge-coupled device [imaging]

CCSF core composite depth below seafloor

C-DEBI Center for Dark Energy Biosphere Investigations

CDEX Center for Deep Earth Exploration (obsolete; see **MarE3**)

CDN Compensated Density Neutron tool [logging]

cDNA copy deoxyribonucleic acid [science, microbiology]

CDP (1) common depth point, (2) complex drilling project

CDR Compensated Dual Resistivity [logging]

CDT Canyon Diablo troilite [science, isotopes]

CDW Circumpolar Deep Water

celestine (not “celestite”)

celestite (use “celestine”)

Cello-Flake [drilling]

Cenomanian (Cenom.)

cenote

Cenozoic (Cenoz.)

central equatorial Pacific

cf. compare (Latin *confer*; no comma follows) [biostratigraphy]

CFU colony-forming unit; also “cfu” [science, microbiology]

CGR computed gamma ray [logging]

cgs centimeter-gram-second (magnetic susceptibility units; not generally used in IODP)

chadacryst

channel-levee (n., adj.)

Chattian (Chatt.)

check shot (n., adj.) [seismic]

chemo- (generally closed up as a prefix)

Chikyu

CHIRP compressed high-intensity radar pulse

CHNS carbon-hydrogen-nitrogen-sulfur analyzer; also “flash elemental analyzer”
[science, chemistry]

Chondrites

ChRM characteristic remanent magnetization [science, paleomagnetism]

chromatography

chron

chronostratigraphy

chronozone

CI (1) crystallization index; (2) contour interval

Ci curie (unit of radiation)

CIE carbon isotope excursion

CIPW norm Cross, Iddings, Pirsson, and Washington; normative system for reporting XRD data

circulating head [drilling]

clastic

clathrate [gas hydrate]

claystone

CLDC control length drill collar [drilling]

clinoform

close-up (n., adj.)

cm centimeter

cm³ (not “cc”)

CMC crown-mounted heave compensator [CDEX]

cmcd corrected meters composite depth

CMP common midpoint [seismic]

CMS Content Management System

CNS Cocos-Nazca spreading center

coarsening-downward (adj.)

coarsening-upward (adj.)

Cobb Mountain Subchron

coccolithophore

Cochiti Subchron

coercivity

cold seep (n.) **cold-seep** (adj.)

cold water (n.) **cold-water** (adj.)

compressional wave (n., adj.); also *P*-wave velocity; seismic wave

conchoidal

Coniacian (Coniac.)

contact probe (n., adj.)

coralgal

core barrel [drilling]

core bit [drilling]

core liner [drilling]

core scale (n., adj.)

C_{org} organic carbon [science]

coring [drilling]

coring line [drilling]

coring system [drilling]

coring winch [drilling]

CORK subsea observatory (do not need to define: circulation obviation retrofit kit)

CORK-Lite

counter- (generally closed up as a prefix)

coverslip

CPI carbon preference index [science, chemistry]

CPO crystallographic preferred orientation

cps counts per second (NGR unit; use “counts/s”) [science]

Cretaceous (Cret.)

Cretaceous Normal Superchron

CRISP Costa Rica Seismogenesis Project

CRM chemical remanent magnetization [science, paleomagnetism]

crossbanding

crossbar (n.)

crossbeam

cross-bedding

cross-check

cross correlation (n.) **crosscorrelation** (adj.)

crosscut (n., adj.)

crosscutting (verb, adj.)

cross dip

crossed nicols

crossed polars (use “crossed nicols”)

cross-grained

cross-hatch

cross-hatching

crosshole

cross-index

cross-laminae (n.) (“cross-lamination” preferred; “laminae” alone is fine)

cross-lamination (n.)

cross-latitudinal

cross-line

cross-link

crossover

crosspiece

crossplot

cross point (n.)

cross-polarized light

cross-purpose

cross section (n.) **cross-section** (adj.)

cross-stratification

cross-strike

cross-talk

crown [ship]

cryomag cryogenic magnetometer [science, paleomagnetism]

cryptocrystalline

crystal-plastic (adj.)

CSES conical side-entry sub [drilling]

CSF core depth below seafloor

CSV comma-separated value

CT computed tomography [science, imaging]

CTB conductivity, temperature, density [logging]

CTBE Cenomanian/Turonian Boundary Event

CTD conductivity-temperature-depth (recorder) [logging]

cu capture unit [logging]

cut and slip [drilling]

cutaway (adj.)

cutoff

cuttings [drilling]

cutting shoe [drilling]

CWL coring while logging (n.); coring-while-logging (adj.)

CY calendar year

-D-**D-O** Dansgaard–Oeschger**dactylitic****Danian (Dan.)****DAPI** 4',6-diamindino-2-phenylindole [science, microbiology]**Darcy's law****darkfield** (adj.)**DART** drilling and reentry template [drilling]**data** (treat as a plural noun)**data set****database****datum****dB** decibel (unit of sound/loudness)**DBD** dry bulk density [science, physical properties]**DC** (1) drill collar [drilling]; (2) direct current [electronics]**DCB** diamond core barrel [drilling]**DC-SQUID** direct-current superconducting quantum interference device [paleomagnetism]**DDW** deionized distilled water**deadline** [drilling]**DEBI** Deep Exploration Biosphere Investigative tool [logging]**DEBI-t** Dark Energy Biosphere Investigation tool**debris flow** (n., adj.)**debrites****declination****décollement****deconvolution****deep-sea** (adj.)**deep-tow** (adj.)**deep water** (n.) **deepwater** (adj.)**demagnetization****densiometer** (use "densitometer")**derrick** [ship]**DES** dual-elevator stool [drilling]**DESCINFO** Descriptive and Interpretive Information Capture**DESClogik** IODP core description application**DEVI** hole deviation (GPIT) [logging]**devitrification**

dextral**DGGE** denaturing gradient gel electrophoresis [science]**DGPS** differential GPS**DHML** Downhole Measurements Laboratory [ship]**DI** deionized water [science, chemistry]**diabase** (U.S. usage; “diorite” in Europe and Japan)**diapir****DIC** (1) dissolved inorganic carbon; (2) drill-in casing [drilling]; (3) differential interference contrast [science, microscopy]**dike** (not “dyke”)**DIL** dual induction log (resistivity) [logging]**dilatancy****dinoflagellate****dip-slip fault****DIS** (1) digital imaging system, (2) ICDP Drilling Information System (ESO)**disconformity****discontinuity****discordance****DIT** Dual Induction Tool [logging]; Phasor Dual Induction-Spherically Focused Resistivity Tool**DLIS** digital log information standard**DLL** Dual Laterolog [logging]**dm** decimeter**DMCG** Data Management Coordination Group**DNA** deoxyribonucleic acid (does not need to be defined in text)**DO** dissolved oxygen**DOC** dissolved organic carbon**Dogtooth****DOI** document object identifier**dolostone****dope** [drilling]**double piston coring** [drilling]**downcore****downcurrent****downcutting****downdepth****downdip****down-dropped****downfan**

downflow

downgoing

downhole

downlap

download

downsection

downslope

downtime

downwelling

DP (1) dynamic positioning [ship]; (2) drill pipe [drilling]

DPS dynamic positioning system [ship]

DQ Dril-Quip [drilling]

drawdown

drawworks [ship]

DRF drilling depth below rig floor

DRH bulk density correction (HLDS) [logging]

DRHO bulk density correction (HLDS) [logging]

drill bit

drill collar (n., adj.)

drill core

driller

drillers depth (no apostrophe)

drill floor (n., adj.) also “rig floor”

drill hole

drill-in casing

drilling (also “washing”)

drilling fluid (n., adj.)

drilling line

drilling mud

drilling parameters

drillover (n.)

drill pipe (n., adj.)

drillship

drill site

drill string (n., adj.)

DRM depositional (or detrital) remanent magnetization [science, paleomagnetism]

dropstone

dry bulk density

dry water content

DSA (1) drill string acceleration tool; (2) downhole seismic array

DSDP Deep Sea Drilling Project

DSF drilling depth below seafloor

DSI Dipole Shear Sonic Imager (also “Dipole Sonic Imager”)

DSOW Denmark Strait Overflow Water

DSS drilling sensor sub; downhole sensor sub [drilling]

DTC (1) digital telemetry cartridge; (2) compressional-wave traveltimes logs [logging]

DTCO compressional wave delay time (DSI) [logging]

DTSM shear wave delay time (DSI) [logging]

DTSR delta-t shear wave traveltimes reconstructed

DTST Stonely wave delay time (DSI) [logging]

dual elevator [drilling]

ductile

D/V Drilling Vessel

DWOB downhole weight on bit [drilling]

dynamic-positioning (adj.)

-E-**E&O** Education and Outreach**EAC** East Antarctic Current**Earth** [used as a planet]**eastern equatorial Pacific****EBSD** electron backscattering diffraction**eccentralizing****eccentricity****ECD** (1) equivalent circulating density [drilling]; (2) electron capture detector**ECGR** environmentally corrected gamma ray (SGT) [logging]**echinoid****echo sounder** (n., adj.)**ECORD** European Consortium for Ocean Research Drilling**EDAX** energy dispersive analysis, X-ray**EDS** energy dispersive spectrometry**EDTA** ethylenediamine tetra-acetic acid; also disodium ethylenediamine tetra-acetate**EDTC** Enhanced Digital Telemetry Cartridge [logging]**EDX** energy dispersive X-ray analyzer**EEOC** Early Eocene Climatic Optimum**Eemian** [time period]**EEZ** Exclusive Economic Zone**EFA** electrofacies [logging]**EGU** European Geosciences Group**Eh** redox (oxygen reduction) potential [science, chemistry]**eigenvalue****EIS** environmental impact statement (or “study”)**electron backscattering diffraction** EBSD**email****emf** (or “EMF”) electromotive force**E-MORB** enriched mid-ocean-ridge basalt**EMPA** electron microprobe analysis**EMS** Environmental Measurement Sonde [logging]**emu** (unit of electromagnetism)**end cap** (n., adj.)**end-member** (n., adj.)**end of hole** EOH**end point** (n., adj.) completion of a process**endpoint** (n.) value at end of a vector [paleomagnetism]

en echelon (not italicized)

ENSO El Niño Southern Oscillation

Eocene (Eoc.)

EOH end of hole

eolian (not “aeolian”)

EOM extractable organic matter [science, chemistry]

EOP end of pipe [logging]

EOT Eocene–Oligocene transition

EPC European Petrophysical Consortium

EPCS extended punch coring system [drilling; CDEX]

epitactic

epm equivalents per million

EPMA electron probe microanalyzer [science, chemistry]

EPR East Pacific Rise

EPSP Environmental Protection and Safety Panel

EPT East Tasman Plateau

equal-area projection

equant

Equator

ERB Editorial Review Board [publications]

ERS Electronic Release System

ESCS extended shoe coring system [drilling; CDEX]

esker (not “eskar”)

ESO ECORD Science Operator

ET electronics technician [IODP ship]

ETA estimated time of arrival

ETBS Elevated Temperature Borehole Sensor

ETD estimated time of departure

ETM Eocene thermal maximum

euheral

eukaryote

eustacy

eustatic

eV electron volt (unit of energy potential)

evaporites (n.)

EXN extended nose corer [drilling; ESO]

extra- (generally closed up as a prefix)

extraclast

-F-

F (1) Fahrenheit (unit of temperature); (2) farad (unit of capacitance)

f fugacity (followed by chemical subscript)

FA first appearance [science, biostratigraphy]

FAAD first abundant appearance datum [science, biostratigraphy]

facies (singular and plural)

FAD first appearance datum [science, biostratigraphy]

fall-in (n.)

fallout

fast line [drilling]

fast-spreading center

fauna

faunas

FCO (1) first common occurrence [science, biostratigraphy]; (2) first consistent occurrence

FCP fall cone penetrometer [science, physical properties]

Fe oxyhydroxide (no hyphen as adj.)

ferrimagnetic

ferromagnetic

FFF free-fall funnel [drilling]

FFQ ferrosilite-fayalite-quartz (geobarometer)

FH full hole [drilling]

fiber-optic (adj.)

FID flame ionization detector [science, chemistry]

fine-grained clays

fining-downward (adj.)

fining-upward (adj.)

finite-difference method

fish [drilling]

FISH fluorescent in situ hybridization [science, microbiology]

fishing tool [drilling]

***f-k* filter** [science: seismic]

flat lying (adj.)

FlexIT (replaced by Icefield MI-5 tool) [drilling]

floatstone

float valve [drilling]

FLOCS Flow-through Osmo Colonization System [CORKs]

floodplain

flow base

flow-in (n.)

flow line

flowmeter

fluxgate magnetometer

flysh

FMS Formation MicroScanner [logging]

FMS-sonic [logging]

FO first occurrence [science, biostratigraphy]

footwall (n., adj.)

foraminifer(s) use Foraminifera only for the formal taxonomic class

fore arc (n.; not “forearc”) [volume specific] **fore-arc** (adj.)

fore reef (n.) **fore-reef** (adj.)

foreset

foreslope

forward [ship]

FOV field of view [science, microscopy]

framestone

freestone

freeze-dried (n., adj.)

freeze-dry (v.)

freshwater

frequency-domain method

FRIS fayalite-rutile-ilmenite-silica (geobarometer)

FRP fiber-reinforced plastic

FTIR Fourier transform infrared spectroscopy [science, chemistry]

fugacity

FV flapper valve [drilling]

FWHM full width at half maximum

FZ (1) fracture zone; (2) fault zone

-G-

G (1) Giga (SI unit); (2) specific gravity (no unit); (3) gauss (unit for magnetic induction)

g (1) gram (unit of mass); (2) gravity field strength

Ga giga-anum (billions [10^9] of years before the present)

GAD geocentric axial dipole [science, paleomagnetism]

gamma ray [n., adj.]

gAPI American Petroleum Institute gamma radiation units

gas chromatography–mass spectrometry GC-MS [science, chemistry]

gas hydrate (n., adj.) (see “clathrate”)

gasteropod (use “gastropod”)

gauge

Gauss Chron

Gaussian distribution bell curve

GB gigabytes

GBM Goettingen tri-axial borehole magnetometer

GC gas chromatography [science, chemistry]

g/cm³ grams per cubic centimeter (not “cc”) (unit for density)

GCR Gulf Coast Repository (TAMU)

GDGT glycerol dialkyl glycerol tetraethers [science, chemistry]

Gelasian (Gel.)

geo- (generally closed up as a prefix)

geomagnetic field (n., adj.)

GEOMAR (now Helmholtz Centre for Ocean Research Kiel - March 2019) FRG Research Center
for Marine Geosciences

GeoRef geological reference database of the AGI

geotherm

geothermobarometry

geoVISION (logging)

GERM Geochemical Earth Reference Model

GF growth factor [science, core-log-seismic integration]

GFZ Charlie Gibbs Factor Zone

GHSZ gas hydrate stability zone

GI generator-injector

Gilbert Chron

GIS geographic information system(s)

GISP Greenland Ice Sheet Project; also GISP2

glacigenic

glacioeustasy

glacio-eustatic

glaciogenic

glaciomarine

globorotaliid

glomerophyric

glomeroporphyritic

GMBM Gottingen Borehole Magnetometer [logging]

GMT Greenwich Mean Time (replaced by UTC)

GNAIW Glacial North Atlantic Intermediate Water

GNS green nonsulfur bacteria [science, microbiology]

go-devil [logging]

goethite

Gondwana

Gondwanaland

goniometer

GPa gigapascal (unit of pressure)

GPIT General Purpose Inclinometry Tool [logging]

gpm gallons per minute (use “gal/min”)

GPS Global Positioning System [ship] (do not need to define)

GPTS geomagnetic polarity timescale [science, biostratigraphy/magnetostratigraphy]

GR natural gamma ray logging tool [logging]

GRA gamma ray attenuation [core logging]

grain size analyzer

grainstone

gram-negative bacteria [science, microbiology]

gram-positive bacteria [science, microbiology]

granoblastic

GRAPE (replaced by GRA; do not use)

gravel-sized (adj.)

gravity core, gravity coring (n., adj.)

gray (not “grey”)

graystone

graywacke

Greenhouse Earth

greenhouse gas (n., adj.)

Greenland Ice Sheet

greenschist

greigite

GRIP Greenland Ice Core Project

GRM gyroremanent magnetization [science, paleomagnetism]

groundmass

groundtruth

groundwater (n., adj.)

GS overshot [drilling]

GSA Geological Society of America

Gt gigaton

guide base [drilling]

guide horn (n., adj.) [ship]

guyot

GVR geoVISION resistivity tool (at the bit)

Gy gigayears

gyttja [geology]

-H-

half graben (n.) **half-graben** (adj.)

half-life

half-space

halfway

half-width

handheld

hand lens

hanging wall (n., adj.)

hardground

hard rock (n., adj.)

Hauterivian (Haut.)

HAZI hole azimuth (GPIT) [logging]

HBCU Historically Black Colleges and Universities

HC hydrocarbons [science, chemistry]

HCGR computed gamma ray [logging]

HCO highest common occurrence [science, biostratigraphy]

HDPE high-density polyethylene

headspace (n., adj.)

heat flow (n., adj.)

heavy-wall drilling joints [drilling]

Heinrich Event

hemi- (generally closed up as a prefix)

hemipelagic

hertz (Hz) (SI unit of frequency)

heterochthonous

hexametaphosphate

hexapycnometer [science, physical properties]

HF hydrofluoric acid

HFK potassium measurement (HNGS) [logging]

HFS high-frequency depositional sequences

HFSE high field strength elements [science]

HFU heat flow units

HI hydrogen index [science, chemistry]

hiatus

hiatuses

high ground

highstand

HIRM hard isothermal remanent magnetization [science, paleomagnetism]

HKLD hook load [drilling]

HLAPC half-length advanced piston corer

HLDS Hostile Environment Litho-Density Sonde [logging]

HLDT Hostile Environment Litho-Density Tool [logging]

HLQ half-space needle probe [science: phys props]

HNGS Hostile Environment Natural Gamma Ray Sonde [logging]

HO highest occurrence [science, biostratigraphy]

Holocene (Holo.) (not “Recent”)

holohyaline

homogeneous (not “homogenous”)

homolog

hornblende

horst

horst-like

hot plate

hotspot

HPC hydraulic piston corer [drilling; ESO]

HPCS hydraulic piston coring system [drilling; CDEX]

HPLC high-pressure liquid chromatography [science, chemistry]

HQ mining-style core barrel [drilling; ESO]

HREE heavy rare earth element(s) [science, chemistry]

HRLA High-Resolution Laterolog Array [logging]

HRRS hard rock reentry system [drilling]; replaced by HRT

HRT hydraulic release tool [drilling]; replaced HRRS

HRVCD hard rock visual core description

HS headspace sampling

HSE health, safety, and environment

HSGR total spectral gamma ray [logging]

HST highstand systems tract

HTHO thorium measurement (HNGS) [logging]

HURA uranium measurement (HNGS) [logging]

HYACE hydrate autoclave coring equipment

hyaloclastite

hyalocrystalline

hyalophitic

hyalopilitic

hypabyssal

hyper- (generally closed up as a prefix)

hyperthermal

hypo- (generally closed up as a prefix)

hypocrystalline

hypohyaline

hysteresis

-I-

IAPSO International Association for the Physical Sciences of the Oceans

IC (1) inorganic carbon; (2) ion chromatography

ICBN International Code of Botanical Nomenclature

ICDP International Continental Scientific Drilling Program

ice sheet (n., adj.)

Icefield MI-5 core orientation tool [downhole measurements]

icehouse

Icehouse Earth

Iceland-Greenland Ridge

ice-rafted (adj.)

ice-rafted debris IRD

IC (1) inorganic carbon; (2) ion chromatograph

ichnofabric

ICP inductively coupled plasma spectroscopy [science, chemistry]

ICP-AES inductively coupled plasma–atomic emission spectroscopy/spectrometry (do not use ICP-OES) [science, chemistry]

ICP-MS inductively coupled plasma–mass spectrometry/spectroscopy [science, chemistry]

ICP-OES inductively coupled plasma–optical emission spectrometry/spectroscopy (use ICP-AES) [science, chemistry]

ICS International Commission on Stratigraphy

ICZN International Commission on Zoological Nomenclature

ID (1) inside/inner diameter; (2) identification

IDEAL integrated drilling evaluation and logging [logging]

IDPH deep induction phasor-processed resistivity (DIT) [logging]

IFREE Institute for Research on Earth Evolution

IGRF International Geomagnetic Reference Field

ILD deep induction resistivity [logging]

illite

illitization

ILM medium induction resistivity [logging]

IMAGES International Marine Past Global Changes Study

IMPH medium induction phasor-processed resistivity (DIT) [logging]

in situ (n., adj.) no italics

INAA instrumental neutron activation analysis

inboard

inc. sed. *incertae sedis* [science, biostratigraphy]

inch “inch(es)” is always spelled out to avoid confusion with the word “in”

indet. Indeterminate [science, biostratigraphy]
index properties (n.) moisture and density analyses (use “MAD”)
index species [science, biostratigraphy]
indexes (in books), but “indices” of refraction index properties
inflow
in-line
impactite
inner core barrel [drilling]
inorganic carbon (n., adj.)
insertion probe (n., adj.)
inter- (generally closed up as a prefix)
interbedded
intercalation
interglacial
InterMARGINS International Margins Program
InterRidge an initiative for international cooperation in ridge-crest studies
interstitial water IW (n., adj.)
interval usually a general term and is not capitalized
intra- (generally closed up as a prefix)
intrareef
IO(s) Implementing Organization(s)
IODP International Ocean Discovery Program (spell out “Integrated Ocean Drilling Program”)
ion-exchange reactions [science, chemistry]
Ionian (replaced with “Middle Pleistocene” in the 2012 timescale)
IPA isopropyl alcohol [science]
IPL intact polar lipid
IR (1) iron roughneck [drilling]; (2) infrared [science]; (3) insoluble residue
IRD ice-rafted debris
IRM isothermal remanent magnetization [science, paleomagnetism]
ISE ion-specific electrode [science, chemistry]
iso- (generally closed up as a prefix)
iso-butane
isotropy
ISOW Iceland Sea Overflow Water
ISP Initial Science Plan
ISSN International Subcommission on Stratigraphic Nomenclature
ITCZ Intertropical Convergence Zone
ITRM inverse thermo-remanent magnetization [science, paleomagnetism]

ITT interval transit time

ITZ imbricate thrust zone

IUGS International Union of Geological Sciences

IW interstitial water (sample designation) [curation]

IWG+ International Working Group Plus

IWS instrumented water sampler

-J-

J joule (unit of work)

JAMSTEC Japan Agency for Marine-Earth Science and Technology

Janus ODP/USIO database system (pre-Expedition 317)

Jaramillo Subchron

jars [drilling]

J-CORES Japanese database system

JD Julian day; the number of a day within a calendar year

J-DESC Japan Drilling Earth Science Consortium

jet in (v.) [drilling]

jet-in (adj.) [drilling]

JFR Juan de Fuca Ridge

JOIDES Resolution or *Resolution*; also “JR”

joint [drilling]

JRSO *JOIDES Resolution* Science Operator

JSPW Japan Sea Proper Water

junk [drilling]

junk basket [drilling]

junk mill [drilling]

junk sub [drilling] (also “boot basket,” “trophy sub,” “skirted sub”)

Jurassic

-K-

K Kelvin degrees (unit of absolute temperature; no degree symbol)

k (1) (lowercase kappa) low-field magnetic susceptibility; (2) SI abbreviation for kilo [10^3]

ka kiloyear; thousands of years before the present (unit of age)

Kaena Subchron**karst**

kb (or kbar) kilobar (unit of pressure)

kcal kilocalorie (unit of energy)

KCC Kochi Core Center

kelly [drilling]

kerf [drilling]

K-feldspar

KFZ Kane Fracture Zone

kg kilogram (unit of mass)

kHz kilohertz (unit of frequency)

KIGAM Korea Institute of Geoscience and Mineral Resources

Kimmeridgian

Kinley wireline cutter and crimper [drilling]

kips kilopounds (do not use; convert to pounds [lb] by multiplying by 1000)

kJ kilojoule (unit of work)

km kilometer (unit of length)

km/s kilometers per second (unit of speed)

knobby joints [drilling]

Koenigsberger ratio (Q) [paleomagnetism]

K/P usually Cretaceous/Paleogene; see below

kPa kilopascal (unit of pressure)

K/Pc Cretaceous/Paleocene

K/Pg Cretaceous/Paleogene

K/T Cretaceous/Tertiary boundary (outdated; see "K/P," "K/Pc," "K/Pg")

kt knot(s); nautical miles/hour

Kuroshio Current**kurtosis**

Kuster FTS Kuster Flow Through Sampler

kV kilovolt (unit of potential energy)

ky thousand years (unit of time duration)

-L-

L liter (unit of volume)

L* lightness; color reflectance (no unit)

LA last appearance, also lowest appearance [science, biostratigraphy]

LAAD last abundant appearance datum [science, biostratigraphy]

L*a*b* color reflectance color space

Labstack [ship]

LAC linear attenuation coefficient

LAD last appearance datum, also lowest appearance datum [science, biostratigraphy]

LA-ICP-MS laser ablation-inductively coupled plasma-mass spectrometry [science, chemistry]

landmass (n.)

Langhian (Lang.)

lapillistone

Laschamp Event

Layer 3 (lower crust/gabbro)

lb pound (unit of mass; use only for drilling)

LCAL caliper [logging]

LCD large-diameter coring

LCM lost circulation material [drilling]

LCO (1) last common occurrence; (2) lowest consistent occurrence [science, biostratigraphy]

L-CORK lateral CORK

LDC low detrital carbonate (events)

LDEO Lamont-Doherty Earth Observatory

LDEO-BRG Lamont-Doherty Earth Observatory Borehole Research Group

LDRZ landward-dipping reflector zone

LDVT linear voltage displacement transformer

LDW Lower Deep Water

least-square

left-coiling (adj.)

LEH logging equipment head [logging]

LEH-MT logging equipment head-mud temperature [logging]

LEH-QT logging equipment head-Q tension [logging]

leucocratic

LFV lockable float valve [drilling]

LGH lower guide horn [ship]

LGM Last Glacial Maximum

lherzolite

LILE large ion lithophile element [science, chemistry]

LIMS Laboratory Information Management System

linescan

LIP large igneous province

LIS Laurentide Ice Sheet

LLSVP large low shear-wave velocity province

LMWFA low molecular weight fatty acids

LO (1) laboratory officer; (2) last (lowest) occurrence [science, biostratigraphy]

logging while coring (n.) LWC

logging while drilling (n.) LWD

logging-while-coring (adj.) LWC

logging-while-drilling (adj.) LWD

LOI loss on ignition [science]

long-core measurements

low latitude (n.)

low-latitude (adj.)

lowstand

LPTM Late Paleocene Thermal Maximum (also Paleocene/Eocene Thermal Maximum [PETM])

LREE light rare earth element(s) [science, chemistry]

LRF LWD depth below rig floor

LSF LWD depth below seafloor

LSR linear sedimentation rate [science]

LSS Long Spacing Sonic [logging]

LST lowstand systems tract

LSW Labrador Sea Water

LTSZ large thrust slice zone

Lutetian (Lut.)

LWC logging while coring (n.); logging-while-coring (adj.)

LWD logging while drilling (n.); logging-while-drilling (adj.)

LWG laboratory working groups

-M-

M (1) molar; (2) SI prefix for mega (10^6)

m (1) SI prefix for milli (10^{-3}); (2) meter (SI unit for length)

MΩ megaohm (unit of electrical resistance) [science, chemistry]

mA milliampere (unit of electrical current)

Ma mega annum (millions of years before the present)

Maastrichtian (Maast.) (not “Maestrichtian”)

MABS muscovite-almandine-biotite-sillimanite (geobarometer)

macro- (generally closed up as a prefix)

macroquartz

MAD (1) moisture and density; (2) mean angular deviation; (3) mean angular dispersion; (4) maximum angular deviation

mafic

magnesian

magnetic field (n., adj.)

magnetic hysteresis

magnetic susceptibility (n., adj.)

magnetometer

magnetotelluric

major element (n., adj.)

Mammoth Subchron

mantle

MAR (1) Mid-Atlantic Ridge; (2) mass accumulation rate

MarE3 Institute for Marine-Earth Exploration and Engineering (replaced **CDEX** in 2019)

MARK Mid-Atlantic Ridge Kane Fracture Zone

Marshall Paraconformity

MARUM Center for Marine Environmental Sciences

massif

MAT (1) Middle America Trench, (2) Mid-Atlantic Transect

matrix

matrixes

matrix-supported (adj.)

Matuyama Chron

MAXIS multi-tasking acquisition and imaging system [logging]

Mb megabit

MB megabyte

mb millibar (unit of pressure)

Mba megabar (unit of pressure)
MBIO microbiology sample [curation]
MBR mechanical bit release [drilling]
mbrf meters below rig floor [drilling]
mbsf meters below seafloor
mbsl meters below sea level
mcd meters composite depth
MCG Miscellaneous Crenarchaeotal Group (bacterial group)
MCM Schlumberger Minimum Configuration MAXIS
MCR methyl coenzyme-M reductase [science, microbiology]
MCS multichannel seismic
MDCB motor-driven core barrel [drilling]
MDF median destructive field
measurement while coring MWC (n.)
measurement-while-coring MWC (adj.)
measurement while drilling MWD (n.)
measurement-while-drilling MWD (adj.)
MECO Middle Eocene Climatic Optimum
mega- (generally closed up as a prefix)
megablock
megabreccia
megasplay
megathrust
meltwater
Mesozoic (Mesoz.)
Messinian (Mess.)
meta- (generally closed up as a prefix)
MeV mega electron volts (unit of energy)
MEXT Ministry of Education, Culture, Sports, Science, and Technology (Japan)
MFTM Multifunction Telemetry Module [logging]
MFS maximum flooding surface
mg milligram (unit of mass)
MGT Multi-Senor Spectral Gamma Ray Tool [logging]
MDHDS motion decoupled hydraulic delivery system
mho (unit of conductance)
MHz megahertz (unit of frequency)
mHz millihertz (unit of frequency)
mi² square miles

micro SI prefix for 10^{-6}

micro- (generally closed up as a prefix)

microbreccia

microcore

microcross-lamination

microcycles

microfault

microfaulting

microfauna

microflaser

microfossils

microfractures

microgranular

micron (μm); use SI unit “micrometers” instead

micronodules

microresistivity

microslumps

microtectonic

microunits

mid- (generally closed up as a prefix)

midcontinental

middepth

Middle America Trench

midlatitude

mid-ocean

mid-oceanic

mid-ocean-ridge basalt (MORB)

midpoint

midslope

Milankovitch cyclicity

mill [drilling]

milli SI prefix for 10^{-3}

milliolid

min minute(s)

mini- (generally closed up as a prefix)

minicore

minicube

minitron

minor element (n., adj.)

Miocene (Mio.)

MIS marine isotope stage

mL milliliter (unit of volume)

MM scale-modified Mercalli scale (earthquake characterization)

mM millimolar; millimoles/liter (unit of concentration in aqueous matrix) [science, chemistry]

mm millimeter (unit of length)

MMM multisensor magnetometer module

mmol millimoles (unit of amount of chemical substance) [science: chem]

m/my meters per million years (sedimentation rate)

modeling (not modelling)

MoES Ministry of Earth Sciences (India)

Moho Mohorovicic seismic discontinuity [science]

Mohorovicic seismic discontinuity (Moho) at the Layer 2/3 boundary

mol mole (unit of amount of chemical substance) [science, chemistry]

mol% molar percent

molluscan (adj.)

mollusk (n.)

moonpool [ship]

MOR mid-ocean ridge

MORB mid-ocean-ridge basalt

MOST Ministry of Science and Technology (PR China)

MOU Memorandum of Understanding

mousse-like

moveout [logging]

MPa megapascal (unit of pressure)

MPN most probable number method [science: microbio]

MPS monopole P-wave/S-wave [logging]

MPT mid-Pleistocene transition

MREE middle rare earth elements [science: chem]

MREFC Major Research Equipment and Facilities Construction [NSF]

MRU motion reference unit

MS (1) mass spectrometry/spectroscopy; (2) magnetic susceptibility

ms milliseconds (e.g., msbsf)

msb meters subbasement

MSCL multisensor core logger (core logging; CDEX)

MSCL-W whole-round multisensor core logger (core logging; CDEX)

MSDS Material Safety Data Sheet [OSHA]

MSL magnetic susceptibility loop, loop magnetic susceptibility

msl mean sea level (also “MSL”)

MSP (1) point magnetic susceptibility [half-core logging]; (2) mission-specific platform

MSS Magnetic Susceptibility Sonde

MST (1) multisensor track [whole-core logging] [ODP, ESO, CDEX; replaced by WRMSL in IODP]

mT millitesla (unit of magnetism)

MTD mass transport deposit

MTF multiple toolface

MTFS Multi-Temperature Fluid Sampler

MTL miniaturized temperature data logger [logging]

MTT Modular Temperature Tool [logging]

mud drilling mud [drilling]

mudflow

mud clast (n., adj.)

mud motor [drilling]

mud sweep [drilling]

mudline (n., adj.) [drilling]

multi- (generally closed as a prefix, except when i is doubled)

multichannel

multilog

multisensor track MST [ODP, CDEX, ESO; replaced with WRMSL in IODP]

multishot [drilling]

multispectral

Munsell color system

MWC measurement while coring (n.); measurement-while-coring (adj.) [drilling]

MWD measurement while drilling (n.); measurement-while-drilling (adj.) [drilling]

MWP meltwater pulse

My million years (unit of duration)

Mylar (trademarked)

-N-

n newton (unit of force)

N number

n SI abbreviation for nano (10^{-9})

n. gen. new genus (also Latin *gen. nov.*) [science, biostratigraphy]

n. sp. new species (also Latin *sp. nov.*) [science, biostratigraphy]

NAD nonaxial-dipole [science, paleomagnetism]

NAIW North Atlantic Intermediate Water

NAA neutron activation analysis [science, chemistry]

NAC network admission control

NACSN North American Commission on Stratigraphic Nomenclature

NAD North American datum

NADW North Atlantic Deep Water

Nankai Trough Seismogenic Zone Experiment (NanTroSEIZE)

nannofossil ooze

nannoplankton

nanopure water

NanTroSEIZE Nankai Trough Seismogenic Zone Experiment

NAS network attached storage

natural gamma radiation/ray NGR

***n*-butane** normal isomer of butane (C_4)

NCR noncontact resistivity [core logging]

near-infrared (n., adj.)

nearshore

near-surface (adj.)

needle probe (n., adj.)

Neogene (Neog.)

neoglaciation

NERC Natural Environment Research Council (U.K.)

NGA natural gas analyzer [science: gas safety]

NGDC National Geophysical Data Center (of NOAA)

NGR natural gamma radiation/ray [whole-core logging; downhole logging]

NGRL Natural Gamma Radiation Logger [whole-core logging]

NGT Natural Gamma Ray Spectrometry Tool [logging]

NHG Northern Hemisphere glaciation

NIST National Institute of Standards and Technology

nm nanometer (unit of length)

NMDC nonmagnetic (stainless steel) drill collar [drilling]
nmi nautical mile [ship]
NMO normal moveout [logging]
N-MORB normal mid-ocean-ridge basalt
NMR nuclear magnetic resonance [science: paleomag]
NOAA National Oceanic and Atmospheric Administration
non- (generally closed up as a prefix)
nonbiogenic
nondeposition
nonindurated
norm normative analysis (calculated)
normal mid-ocean-ridge basalt (N-MORB)
North American plate
North Atlantic Ocean
North Indian Intermediate Water
North Pacific Ocean
Northern Hemisphere
NorthGRIP
NPD North Pacific Diatom (Zone) [science, biostratigraphy]
NPIW North Pacific Intermediate Water
NPDW North Pacific Deep Water
NPHI neutron porosity log [logging]
NRM natural remanent magnetization [science, paleomagnetism]
NSF National Science Foundation
NSOW Norwegian Sea Overflow Water [science]
NTD Neogene tropical diatom (zonation)
Nunivak Subchron

-O-

OAE oceanic anoxic event (general); Oceanic Anoxic Event (followed by a number/letter combination)

OBH (1) ocean borehole seismometer; also OBHS; (2) ocean-bottom hydrophones

OBI optical borehole image [logging]

obliquity

OBS ocean-bottom seismometer

OCB outer core barrel [drilling]

OCC oceanic core complex

occipital

ocean floor (n., adj.)

OCR overconsolidation ratio

OD outside/outer diameter

ODF orientation distribution function

ODL Overseas Drilling Limited

ODP Ocean Drilling Program

Oe oersted (unit of magnetic field)

off shore (adv.)

offlap

offset

offshore (adj.)

ohm (Ω) (unit of resistance)

ohm-meter (Ωm) (unit of resistivity)

OI oxygen index [science]

OIB ocean-island basalt; also oceanic island basalt

oikocryst

Olduvai Subchron

Oligocene (Oligo.)

OM organic matter [science]

OMHC offshore modular HELP Cab

OMZ oxygen minimum zone

on board (n.) not “onboard”; thus, “aboard ship,” not “onboard ship”

onboard (adj.) “an onboard computer”

onlap

onloading

onset

onshore (adj.)

on-site (adj.)

on site (prep.)

oid

oolitic

OOST out-of-sequence thrust zone

opal-A

opal-CT

open hole [drilling]

open-marine (adj.)

open-ocean (adj.)

Operations Superintendent [ship]

OPIC other program integration costs

organic carbon (n., adj.)

organic matter (n., adj.)

organic-rich

OsmoSampler

OSN Ocean Seismic Network

OSP onshore science party (ESO)

ostracod

outcrop

outflow

out-of-sequence thrust (OOST)

over- (generally closed up as a prefix)

overconsolidation

overdrill(ed, ing)

overload

overpressure

overpull

overshot (n.) [drilling]

-P-

P pressure

p pico (SI abbreviation for 10^{-12})

Pa pascal (unit of stress/pressure = 1 newton/meter² [1 N/m²])

PAC paleointensity-assisted chronology

packer [drilling]

pack off (v.) [drilling]

pack-off (n.) [drilling]

pahoehoe lava

palagonitization

paleo- (generally closed up as a prefix)

paleoceanography

Paleocene (Paleoc.)

paleoclimatology

paleodepth

paleoequator

paleoequatorial

Paleogene (Paleog.)

paleolatitude

paleomagnetic

paleomagnetism

paleome

paleopole

paleoposition

paleoshoreline

paleoslope

paleostress

paleotemperature

paleowater depth

Paleozoic (Paleoz.)

palynology

PANGAEA Publishing Network for Geoscientific and Environmental Data

paraconformity

PBS phosphate-buffered saline [science, microbiology]

PCA principal component analysis [science, paleomagnetism]

PCD polycrystalline diamond [drilling]; also PDC

pcf pounds per cubic foot

PCG IODP-MI Paleontology Coordination Group

PCR polymerase chain reaction [science, microbiology]

PCS pressure core sampler [drilling]

PDB Peedee belemnite [science, isotopes]

PDC polycrystalline diamond compact [drilling]; also PCD

PDCM positive displacement coring motor [drilling]

PDM positive displacement motor [drilling]

PDR precision depth recorder [science]

PDRM postdepositional remanent magnetization [science, paleomagnetism]

PEAT Pacific Equatorial Age Transect

PEF photoelectric effect; also PEFL [logging]

pegmatitic

PEIS Programmatic Environmental Impact Statement

pentapycnometer

peri- (generally closed up as a prefix)

periplatform

perireef

PETM Paleocene/Eocene Thermal Maximum (also Late Paleogene Thermal Maximum [LPTM])

PEX Platform Express [logging]

PFMD perfluoromethyldecalin (tracer) [science, microbiology]

PFT perfluorocarbon tracer [science, microbiology]

pH (no unit)

phaneritic

photomicrograph (not microphotograph)

physical properties (n., adj.)

physical property (n., adj.)

PI (1) principal (primary) investigator [ODP]; (2) production index [science, chemistry]

Piacenzian (Piac.)

PICAT Petrographic Image Capture and Archiving Tool

pico (p) SI abbreviation for 10^{-12}

pig [drilling]

pill [drilling]

pilotoxic

pin [drilling]

pinch out (v.)

pinch-out (n.)

pipe tally [drilling]

piperacker [drilling]

piston core, piston coring (n., adj.)

plane-polarized light [science, microscopy]

planktonic (not “planktic”)

Planolites

plate tectonic (n., adj.)

Pleistocene

PLFA phospholipid fatty acid analysis

Pliocene

Pliocene–Pleistocene, Pliocene/Pleistocene (never Plio-Pleistocene, etc.)

PMAG paleomagnetism

PMCH perfluoromethylcyclohexane (tracer) [science, microbiology]

PMO Program Member Offices

PMT (1) Project Management Team; (2) photomultiplier

poikilitic

poikilotopic

Polar Front

polar wander

POOH pull out of hole [drilling]

pore fluid (n., adj.)

pore water (n., adj.)

porcellanite (not “porcelanite”)

porphyritic

porphyroclastic

porphyry

port call (n., adj.)

post- (generally closed up as a prefix)

postcruise

postdate

postdepositional

postglacial

postrift

PP physical properties (a.k.a. “fizz props” or “fish pops”) [science]

ppb parts per billion (unit of concentration)

ppg pounds per gallon (use “lb/gal”)

ppm parts per million (unit of concentration)

PPM Project Portfolio Management

ppmv parts per million by volume (unit of concentration, usually in headspace gas)

ppt (1) parts per thousand; use “‰” [permil]; (2) parts per trillion; (3) precipitate

PPT Pliocene–Pleistocene transition

pre- (generally closed up when used as a prefix)

precruise

predate

predominant (adj.)

predominate (v.)

pre-evaporitic deposits

pre-rift

present-day (adj.)

prestack

pseudo- (generally closed up as a prefix)

pseudotachylytic

Priabonian (Priab.)

print out (v.)

printout (n.)

protodécollement

protomylonitic

PSB Porcupine Seabight

PSD (1) pseudosingle-domain (adj.); pseudosingle domain (n.) [science, paleomagnetism]; (2)
power spectral density

psi pounds per square inch (unit of pressure)

PSV paleosecular variation [paleomagnetism]

PTFE polytetrafluoroethylene (generic name for Teflon)

PTRM partial thermoremanent magnetization (science, paleomagnetism)

PTZ protothrust zone

PUPPIs pop-up pore pressure instruments [logging]

pusher [drilling]

PVC polyvinyl chloride

PVT pressure-volume-temperature

***P*-wave** primary seismic or compressional wave [science]

PWB *P*-wave velocity (discrete, measured by bayonet)

PWC *P*-wave velocity (discrete, measured by caliper)

PWL *P*-wave logger [whole-core logging, physical properties]

PWL-D *P*-wave logger for discrete samples (CDEX)

PWV *P*-wave velocity

pXRF portable X-ray fluorescence spectrometer (or spectrometry)

pyrometamorphic

pyrrhotite

-Q-

Q ratio Koenigsberger ratio

QA quality assurance

QA/QC quality assurance/quality control

QC quality control

QLM quartz-feldspathoid-olivine and ore minerals plot

qPCR quantitative polymerase chain reaction [science, microbiology]

quadrupole

quartzofeldspathic

quasistatic

Quaternary (Quat.)

-R-

R multivariate correlation coefficient (also R^2 and r ; electrical resistance)

R^2 coefficient of determination (not “ r^2 ”)

r bivariate correlation coefficient

RAB resistivity-at-the-bit tool [logging]

rabbit [drilling]

radial

radiolarian (not “Radiolaria”)

rare earth element (n., adj.)

rathole [drilling]

RBI Rock Bit International (drill-bit manufacturer) [drilling]

RCB rotary core barrel [drilling]

RDNA ribosomal DNA

real time (n.)

real-time (adj.)

Recent/Modern use “Holocene”

re- (generally closed up when used as a prefix)

redeposited

REE rare earth element(s) [science]

reef front (n., adj.)

reefer refrigerated core/sample storage area [curation]

reentrant

reentry cone [drilling]

reentry [drilling]

relic (n.)

relict (adj.)

reoriented

resistivity at the bit (RAB) (n.)

resistivity-at-the-bit (RAB) (adj.)

reticulate

reverse fault (seismics, structural geology)

reverse grading (use “inverse grading”)

reversed gradient

reversed polarity

Reunion Subchron

RFP request for proposals

RFQ request for quotations

RGB red-green-blue color space [half-core logging/imaging]
Rhizon (trademarked) [science, chemistry]
RHOB bulk density measurement (HLDT) [logging]
RHOM bulk density [logging]
RI (1) refractive index; (2) reduction index
ridgetop
rig down (v.)
rig floor (n., adj.)
rig up (v.)
rigup (n.)
RIH run in hole [drilling]
rip-up clasts
RIS Rig Instrumentation System [drilling]
riser [drilling]
riserless (not “non-riser”) [drilling]
RITF Regional Integration Test Facility
RMM Remote Memory Module
RMS root mean square (e.g., in seismic velocities) [science]
RNA ribonucleic acid
Rock-Eval (not used during IODP)
rock saw
roller-cone bit [drilling]
ROP rate of penetration [drilling]
rotary shifting tool RST [drilling]
roughneck [drilling]
round trip [drilling]
roustabout [drilling]
ROV remotely operated vehicle [science]
rpm revolutions per minute
rRNA ribosomal ribonucleic acid (ribosomal RNA)
RS overshoot [drilling]
RSC reflectance spectroscopy and colorimetry
RSD relative standard deviation (%)
RSMAS Rosenstiel School of Marine and Atmospheric Science (University of Miami)
RST rotary shifting tool [drilling]
RT (1) rotary table [drilling]; (2) round trip of the drill string (= POOH + bit change + RIH)
RTD resistance-temperature device
Rupelian (Rup.)

R-wave Rayleigh wave

RZ range zone [science, biostratigraphy]

-S-

S (1) entropy; (2) siemen (unit of conductivity)

s second

SAC Sample Allocation Committee

SAFOD San Andreas Fault Observatory at Depth

SAGMEG South African Goldmine Euryarchaeotal Group [science, microbiology]

saltwater

SAN storage area network

sand line [drilling]

sand-sized (adj.)

Santonian (Sant.)

sapropel [science]

SAS Science Advisory Structure (IODP)

saussurite

saussuritization

saver sub [drilling]

sawtooth

SBDC seal bore drill collar [drilling]

sbsf seconds below seafloor (seismic)

SBTF Simulated Borehole Test Facility

SCBA self-contained breathing apparatus [safety]

SCIMPI Simple Cabled Instrument for Measuring Parameters In Situ

SCS single-channel seismic [science]

SD (or "sd") standard deviation

SDRM Sample and Data Request Management System

SDRS seaward-dipping reflector sequence

Sea Beam 2000 (type of seismic equipment)

sea bottom

sea grass

sea ice (n., adj.)

sea level (n., adj.)

SeaBeam (name of company) [seismic]

seabed

seafloor

seafloor-spreading center

sea-going

sea ice (n., adj.)

sea level (n., adj.)

seamount

Seasat sea satellite

sea-surface temperature (SST)

seaward

seawater

seaway

Secci

sediment accumulation (n., adj.)

sediment accumulation rate (SAR)

SEGY Society of Exploration Geophysicists (file format “Y”)

SEIR Southeast Indian Ridge

Selandian (Selan.)

self-potential

self-reversal

seismic reflection (n., adj.)

seismic stratigraphic (n., adj.)

seismicVISION (Schlumberger logging tool)

seismic wave (n., adj.)

SEM scanning electron microscope [science, microscopy]

semi- (generally closed as a prefix unless the vowel is doubled [exception: semiinfinite])

semiquantitatively

serpentinization

Serravallian (Serrav.)

SES sidewall-entry sub [drilling]

SET2 Sediment Temperature 2 [drilling]

SET Sediment Temperature Tool [drilling]

set back [drilling]

setup (n.)

SETP sediment temperature pressure tool [drilling]

severing [drilling]

SFL spherically focused log [logging]

SFLU spherically focused resistivity (DIT) [logging]

SFR spherically focused resistivity (DIT) [logging]

SFZ silica-free zone

SG specific gravity

SGR standard gamma ray [logging]

shallow-marine (adj.)

shallow-water (adj.)

shatterbox [science]
shear pin [drilling]
shear wave (n., adj.)
sheave [drilling]
shelf break (n., adj.)
shelf edge (n., adj.)
shelf slope (n.)
shelf-slope (adj.)
shelly
SHIL Section Half Imaging Logger
shipboard
shiptime
SHMG Section Half Measurement Gantry
SHMSL Section Half Multisensor Logger
shore based (n.)
shore-based (adj.)
shoreface
shoreline
short trip [drilling]
shotpoint [seismic]
SHRIMP sensitive high-mass resolution ion microprobe [logging]
SHRIMPI Short Instrument Modular Probe Installation [logging]
shuck [drilling]
SI international system of units (Système International d' Unités)
side-scan sonar
sidewall
Sidufjall Subchron
signal-to-noise (adj.)
silica (H_4SiO_4 ; also silicate; not "silicon")
siliceous
sill-sediment complex
silt-sized (adj.)
SIMS secondary-ion mass spectrometry [science, chemistry]
single [drilling]
single-bit [drilling]
sinker bar [drilling]
SIO Scripps Institution of Oceanography
SIRM saturation remanent magnetization [science, paleomagnetism]

site survey (n., adj.)

skate [drilling]

Skolithos

s.l. sensu lato (no italic), broadly defined [science, biostratigraphy]

slim-hole logging tools

slips [drilling]

slope-apron (adj.)

slug [drilling]

SMDC short monel drill collar (nonmagnetic) [drilling]

SMCS Sample Materials Curation Management System

smear slide (n., adj.)

SMI sulfate/methane interface

SMOW standard mean ocean water [science]

SMT sulfate–methane transition

SMTZ sulfate–methane transition zone

S/N signal-to-noise ratio

SOEST School of Ocean and Earth Science and Technology (University of Hawaii)

soft-sediment (adj.)

solid-phase (adj.)

sonic-induction tool [logging]

sonicVISION [logging]

SOP standard operating procedure

source rock (n., adj.) [science, hydrocarbon maturity]

Southern Hemisphere

Southern Ocean

SOW statement of work

SP (1) shotpoint [seismic]; (2) spontaneous potential [logging]; (3) superparamagnetic [science, paleomagnetism]

sp. species [science, biostratigraphy]

space-out (n.) [logging]

SPC Science Planning Committee

spear [drilling]

spherulitic

spm strokes per minute (use “strokes/min”) [drilling]

SPO shape-preferred orientation

spud-in [drilling]

squeeze cake (n., adj.)

SQUID superconducting quantum interference device [science, paleomagnetism]

SRA source rock analyzer [science, hydrocarbon maturity]

SRM (1) standard reference material; (2) superconducting rock magnetometer [science: paleomagnetism]

SRZ sulfate reduction zone

SS smear slide

s.s. sensu stricto (no italic), narrowly defined [science, biostratigraphy]

SSDB Site Survey Databank

SSP Site Survey Panel

ssp. subspecies [science, biostratigraphy]

SSR subsea release cementing system [drilling]

SSS sea-surface salinity

SST sea-surface temperature

SSW surface seawater

stabber [drilling]

stainless steel (n., adj.)

stand [drilling]

standpipe [drilling]

stationkeeping [ship]

STEM scanning transmission electron microscope

stick-slip [logging]

stillstand (n.)

STMSL Special Task Multisensor Logger

stoichiometry

stoped (step-like excavation)

STP standard temperature and pressure

STR South Tasman Rise

strap [drilling]

strike-slip (adj.)

S_u undrained shear strength

sub [drilling]

sub- (generally open as a prefix)

subaerial

subangular

subbasement

subbasin

subbottom

subchron

subhedral

subjacent
subophitic
subrounded
subsea
subseafloor
subsequence
Subtropical Divergence
sucrosic
suevitic
sulfate reduction (n., adj.)
sulphate (use “sulfate”)
sulphur (use “sulfur”)
super- (generally closed up as a prefix)
superposition
supra- (generally closed up as a prefix)
surface water (n., adj.)
surface-seawater (adj.)
SVD singular value decomposition [science, XRD]
SW sea (salt) water [drilling]
swab cup [drilling]
swab [drilling]
S-wave secondary/shear wave [science]
SWD sonic while drilling (n.); sonic-while-drilling (adj.)
swivel [drilling]
symplectic
syn- (generally closed up as a prefix)
syndepositional
synrift
syndimentary

-T-

T (1) ton; (2) tesla [unit of magnetism]
t (1) time; (2) tonne
T2P temperature dual pressure probe [drilling]
TAB time-after-bit (adj.), time after bit (n.)
tachylytic
TAG Trans-Atlantic Geotraverse
TAI thermal alteration index [science]
TAMRF Texas A&M Research Foundation
TAMU Texas A&M University
TAP Temperature/Acceleration/Pressure tool [logging]
TAZ taphronomically active zone (actively rifting zone)
TC total carbon
TCD thermal conductivity detector [science, chemistry]
TCI tungsten carbide inserts [drilling]
TCP/IP networking protocol available on the ship [computers]
TD total depth of a hole [drilling]
TDC tapered drill collar [drilling]
TDS total dissolved solids
tectono-eustacy
Teflon (trademarked; use “polytetrafluoroethylene”)
TEM transmission electron microscopy
tephrochronology
terrane
terrigenous matter (n., adj.)
Tethys
TFZ Tasman Fracture Zone
TGGE temperature gradient gel electrophoresis [science]
Thanetian (Than.)
thermal conductivity (n.)
thermal-conductivity (adj.)
thermochronology
thin section (n., adj.)
tholeiite
tholeiitic
Thvera Subchron
tie point
TIFF tagged image file format [computers]

time-rock unit

timescale (n., adj.)

TIMS thermal ionization mass spectrometry [science, chemistry]

TLC thin-layer chromatography [science]

T_{max} [science: hydrocarbon maturity]

TN total nitrogen

TOB torque on bit [drilling]

TOBI towed ocean bottom instrument

TOC total organic carbon [science]

toe-of-slope (n., adj.)

toesets

topset

tongs [drilling]

tool joint [drilling]

tool string (n., adj.)

toolpusher [drilling]

top drive [drilling]

Tortonian (Tort.)

tortuosity

total inorganic carbon (n., adj.)

total organic carbon

TP-Fit (software used with the APCT-3)

TPW true polar wander [science, paleomagnetism]

trace element (n., adj.)

track line

trachyandesite

trachybasalt

trachytic

trade-off

traveling block [drilling]

traveltime

trench-wedge (adj.)

T-RFLP terminal-restriction fragment length polymorphism [science, microbiology]

tri- (generally closed up as a prefix)

Triassic

trip [drilling]

triple combination (n., adj.); also “triple combo” [logging]

TRM thermal remanent magnetization [science, paleomagnetism]

trondhjemite

TS (1) top sub [drilling]; (2) IODP code for thin section [curation]

TSB thin-section billet (sample designation) [curation]

TST transgressive systems tract

TTL transistor-transistor logic [logging]

tugger [drilling]

turnaround

Turonian (Tur.)

TWT two-way traveltime (not TWTT) [seismic]

Tyvek

-U-

UBI Ultrasonic Borehole Imager [logging]

UGH upper guide horn [drilling]

UHF ultrahigh frequency (n.); ultrahigh-frequency (adj.)

ultra- (generally closed up as a prefix)

un- (generally closed up as a prefix)

unconformably

unconformity

under- (generally closed up as a prefix)

underconsolidation

underpressured

underreamer

underway (adj.)

under way (adv.)

undulating

Universal Time Coordinated (UTC)

up- (generally closed up as a prefix)

upcore

upcurrent

updip

upgoing

uphole

upload

upper slope (n., adj.)

upsection

upslope

upward-coarsening use coarsening-upward instead (adj.)

upward-fining use fining-upward instead (adj.)

USAC United States Advisory Committee for Scientific Ocean Drilling

USGS United States Geological Survey

UTC Universal Time Coordinated (use in place of "GMT" or "Z"; first-use definition not required)

UTM projection universal transverse Mercator projection

UV ultraviolet

UWG underway geophysics laboratory [ship]

-V-

V (1) volume; (2) volt
VAC void gas sample [curation]
Vacutainer (trademarked)
Valanginian (Val.)
variolitic
VCD visual core description form
V-CDT vs. Canyon Diablo troilite [science, isotopes]
VDN Vision Density Neutron [logging]
V-door [drilling]
VE vertical exaggeration [seismics]
Vertical Seismic Profile VSP [logging]
VFA volatile fatty acids [science, chemistry]
VGP virtual geomagnetic pole [science, paleomagnetism]
VHF very high frequency
VIT vibration isolated television [drilling]
vitricification
VLP viruslike particle [science, microbiology]
VLQ full-space needle probe [science, physical properties]
 V_{\max} maximum velocity
 V_p compressional wave velocity
VMS volcanogenic massive sulfides
vol% volume percent
volcanic glass
volcaniclastic
volcanogenic
volcano-tectonic (adj.)
VPC vibra-percussive corer [drilling]
VPDB Vienna Peedee belemnite [science, isotopes]
VRM viscous remanent magnetization [science, paleomagnetism]
VSAT very small aperture terminal
VSP vertical seismic profile [logging/seismic]
VSI Versatile Seismic Imager
VSMOW Vienna standard mean ocean water [science, isotopes]

-W-

W (1) watt; (2) IODP core-type letter indicating a wash core

wacke

wackestone

WAGS wollastonite-anorthite-garnet-silica (geobarometer)

wall rock (n., adj.)

wash core [drilling]

wash [drilling]

washout (n., adj.)

water column (n., adj.)

water depth (n., adj.)

water gun

water table (n., adj.)

water mass (n.) [GOG5]

wave stack

wavefield

waveform

wavefront

waveguide

wavelength

wavenumber

waveshape

wavetrain

WBUC Western Boundary Undercurrent

WD water depth [ship]

WDC World Data Center

website

Weddell Gyre

Weichselian (time period)

well log

wellbore

wellhead

well-preserved (adj.)

wet bulk (n., adj.) density

WGC West Greenland Current

WHC wireline heave compensator [logging]

Whirl-Pak (trademarked)

WHOI Woods Hole Oceanographic Institution

whole space

whole-core (adj.)

whole-round (adj.)

whorl

wideband

WinFrog

wiper trip [drilling]

wireline [drilling]

wireline trip [drilling]

WOB weight on bit (n.), weight-on-bit (adj.)

WOW waiting on weather (suspended operations) [drilling]

WPWP Western Pacific Warm Pool

WRMSL Whole-Round Multisensor Logger

WST-3 Three-component Well Seismic Tool [logging]

WSTP water sampler temperature probe [logging]

wt% weight percent

WVSP walkaway vertical seismic profile [logging]

-X-

XCB extended core barrel [drilling]

xenocryst

XO crossover (connecting pipe) [drilling]

X-ray diffraction

X-ray fluorescence

XRD X-ray diffraction [science]

XRF X-ray fluorescence [science]

XRI X-Ray Imager

-Y and Z-

y year

YD Younger Dryas Event

younging

Ypresian (Ypres.)

yttrium

Z (or “z”) atomic number

Zanclean (Zan.)

z-axis

zeolite

zeolitization

zigzag (n., adj.)

zoisite

zoobenthos

Zoophycos

zooplankton