

Most recent update: 8/2009

ODP/IODP Dictionary: A

Revised 8/2009

A ampere (amp)

Å Angstrom unit (= 10^{-10} m)

A&G-DPG Atolls and Guyots Detailed Planning Group [JOIDES]

a* color reflectance parameter component

A/D analog-to-digital converter [science]

AA atomic absorption

AAAS (1) American Association for the Advancement of Science; (2) American Academy of Arts and Sciences

AABW Antarctic Bottom Water [science]

AACT aluminum activation clay tool

AAG Australo-Antarctic Gulf

AAPG American Association of Petroleum Geologists

AAR accumulation/area ratio

AAS atomic absorption spectroscopy (or spectrometry)

AASC Association for the Advancement of Science in Canada

AASG Association of American State Geologists

AASP American Association of Stratigraphic Palynologists

Ab albite

ABM assigned board member (of the ERB) [publications]

aboard on, onto, or within a ship (but "on board")

ABS American Bureau of Shipping [logistics]

abs. (1) absolute; (2) abstract

abscissa, abscissas (plural)

absolute pollen frequency APF

abyssal plain

AC alternating current

ACAD (or AUTOCAD, CAD, CADD) computer-aided design and/or drafting

ACC Antarctic Circumpolar Current

accumulation/area ratio AAR

ACerS American Ceramic Society (formerly ACS)

ACES Atlantic Coral Ecosystem Study

ACEX Arctic Coring Expedition

ACF diagram three-component triangular diagram used in metamorphic petrology: A = $(Al_2O_3 + Fe_2O_3) - (Na_2O + K_2O)$; C = CaO; F = $(FeO + MgO + MnO)$

ACH Automated Clearing House

ACIC Aeronautical Chart and Information Center

acid-insoluble (adj.)

acknowledgments

acme zone AZ (biostratigraphy)

ACORK advanced circulation obviation retrofit kit

acoustic impedance profile

acoustic impedance [n., adj.]

ACS (1) American Ceramic Society (now ACerS); (2) American Chemical Society; (3) altitude control system

ACSN American Commission on Stratigraphic Nomenclature

ACT Aluminum Clay Tool; neutron porosity (Cf source) logging tool [logging]

AD (1) assistant driller [drilling]; (2) Antarctic Divergence [science]

Adara temperature tool brand name of the temperature tool

ADCB advanced diamond core barrel

ADN Azimuthal Density Neutron tool

adnVISION (Schlumberger logging tool)

ADTIC Arctic, Desert, Tropic Information Center (U.S.)

advanced hydraulic piston corer APC

Advanced Ocean Drilling Program AODP (formerly DSDP and replaced by ODP)

advanced very high resolution radiometer AVHRR

AEC Atomic Energy Commission (U.S.)

AEG (1) Association of Engineering Geologists; (2) Association of Exploration Geochemists

aeolian use eolian

AESTO Advanced Earth Science and Technology Organization

Aeronautical Chart and Information Center ACIC

AES (1) atomic emission spectroscopy; (2) auger electron spectroscopy

AESE Association of Earth Science Editors

AF alternating field (demagnetization) [science]

aff. related to (affinis Latin)

AFM atomic force microscopy

AFM diagram three-component triangular diagram used to show chemical variation trends in magmas: A = (Na₂O + K₂O); F = (FeO + Fe₂O₃ + MnO); M = MgO (weight percentages) or A = Na + K; F = Fe + Mn; and M = Mg (atomic percentages)

AFMAG audio-frequency electromagnetic noise

AFMS American Federation of Mineralogical Societies

A-frame the structural support frame at the top of the derrick; used for servicing the crown block

AFS atomic fluorescence spectroscopy

AFT ash fusion temperature (coal analysis)

AGA American Gas Association

AGC automatic gain control

AGI American Geophysical Institute

AGID Association of Geoscientists for International Development

AGS American Geographical Society

AGU American Geophysical Union

AHC (1) advanced hydraulic corer (also APC); (2) active heave compensator

AI (1) Arctic Institute; (2) artificial intelligence

AIME American Institute of Mining, Metallurgical, and Petroleum Engineers

AINA Arctic Institute of North America

AIP American Institute of Physics

AIPG American Institute of Professional Geologists

air fall [n., adj.]

air gun [n., adj.]

airway bill for air-freight shipments AWB

AIT array induction tool

AJS American Journal of Science

AKF diagram three-component triangular diagram used in metamorphic petrology: $A = (Al_2O_3 + Fe_2O_3) - (Na_2O + K_2O + CaO)$; $K = K_2O$; $F = (FeO + MgO + MnO)$

Alb. Albian

allochthonous of foreign origin

along-slope (vs. "downslope")

ALSEP Apollo Lunar Surface Experimental Package

alt altitude

alternating field [n.] AF (demagnetization); alternating-field [adj.]

altitude control system ACS

Alvin name of a submersible research vessel

Amazon deep-sea fan

Amazon Fan

American Academy of Arts and Sciences AAAS

American Association for the Advancement of Science AAAS

American Association of Petroleum Geologists AAPG

American Association of Stratigraphic Palynologists AASP

American Bureau of Shipping ABS

American Ceramic Society ACerS (formerly ACS)

American Chemical Society ACS

American Commission on Stratigraphic Nomenclature ACSN

American Federation of Mineralogical Societies AFMS

American Gas Association AGA

American Geographical Society AGS

American Geological Institute AGI

American Geophysical Union AGU

American Institute of Mining, Metallurgical, and Petroleum Engineers AIME

American Institute of Physics AIP

American Institute of Professional Geologists AIPG

American Journal of Science AJS

American Museum of Natural History AMNH

American National Standards Institute ANSI (formerly ASA)

American Nuclear Society ANS

American Petroleum Institute API

American Quaternary Association AMQUA

American Society for Photogrammetry and Remote Sensing ASPRS

American Society for Photogrammetry ASP

American Society for Testing and Materials ASTM

American Society of Civil Engineers ASCE

American Society of Limnology and Oceanography ASLO

American Standard Code for Information Interchange ASCII

American Standards Association ASA (replaced by ANSI)

American wire gauge AWG
AMNH American Museum of Natural History
amor. amorphous
AMQUA American Quaternary Association
AMS (1) Army Mapping Service (U.S.); (2) Auxiliary Measurement Sonde (a Schlumberger tool that can be added to any digital string to give temperature and tension measurements) [logging]; (3) anisotropy of magnetic susceptibility [science]; (4) accelerator mass spectrometry (radiocarbon dating); (5) acceleration mass spectrometry
AMST archive multisensor track
AMT audio-magneto-telluric method
AMU atomic mass unit, also amu
Amygdule (not amygdale)
An anorthite
analog
analog-to-digital converter A/D
analysis of variance ANOVA
ANAPS Association of North American Paleontological Societies
anhysteretic remanent magnetization ARM
anisotropy of magnetic susceptibility AMS
ANL Argonne National Laboratory (U.S.)
annular velocity AV
annulus the space between the walls of concentric cylinders; in drilling, the space between the hole wall or casing and the drill string.
Anomaly M0
anorthosite-norite-troctolite suite of rock types ANT
ANOVA analysis of variance
ANS American Nuclear Society
ANSI American National Standards Institute (formerly ASA)
ANT anorthosite-norite-troctolite suite of rock types
Antarctic Bottom Water AABW
Antarctic Circumpolar Current ACC
Antarctic Convergence
Antarctic Divergence
Antarctic Water Mass
AO acridine orange
AODC acridine orange direct count method
AODP Advanced Ocean Drilling Program (formerly DSDP and replaced by ODP)
AOGS Asia-Oceania Geosciences Society
AP arborescent pollen
APC advanced piston corer
APCM advanced piston corer methane tool
APCT advanced piston corer temperature tool
APCT-3 third-generation advanced piston corer temperature tool
APF absolute pollen frequency

API (1) American Petroleum Institute; (2) application programming interface [computers]
API units natural gamma ray units; also gAPI
APLC near array porosity (APS)
Apollo Lunar Surface Experimental Package ALSEP
APP Annual Program Plan
appendixes (not appendices)
AppleCORE software version 8.1m or 8.1p
application programming interface API
APS Accelerator Porosity Sonde (IPLT Sonde)
Apt. Aptian
aq aqueous
arborescent pollen AP
Arctic Institute AI
Arctic Institute of North America AINA
Arctic, Desert, Tropic Information Center ADTIC (U.S.)
ARDRA amplified ribosomal DNA restriction analysis
Argonne National Laboratory ANL (U.S.)
ARI Azimuthal Resistivity Imager
ARM anhysteretic remanent magnetization [science]
ARP Atlantic Regional Panel [JOIDES]
artificial intelligence AI
ASA American Standards Association (now ANSI)
ASCE American Society of Civil Engineers
ASCII American Standard Code for Information Interchange [computers]
ASFE Association of Soil and Foundation Engineers
ash fall [n., adj.]
ash fusion temperature AFT (coal analysis)
ASI Array Sonic Imager
ASK automatic station keeping (see "DPS") [ship]
ASLO American Society of Limnology and Oceanography
ASP (1) American Society for Photogrammetry; (2) Atlantic Slope Project
ASPRS American Society for Photogrammetry and Remote Sensing
assigned board member ABM (of the ERB)
assistant driller AD
Association for the Advancement of Science in Canada AASC
Association for Women Geoscientists AWG
Association of American State Geologists AASG
Association of Earth Science Editors AESE
Association of Engineering Geologists AEG
Association of Exploration Geochemists AEG
Association of Geoscientists for International Development AGID
Association of North American Paleontological Societies ANAPS
Association of Soil and Foundation Engineers ASFE
ASTM American Society for Testing and Materials
at (or AT) assay ton

Atlantic Regional Panel ARP
Atlantic Slope Project ASP
atm. atmosphere
Atolls and Guyots Detailed Planning Group A&G-DPG
atomic absorption spectroscopy AAS (or spectrometry)
atomic emission spectroscopy AES
Atomic Energy Commission AEC (U.S.)
atomic fluorescence spectroscopy AFS
atomic force microscopy AFM
atomic mass unit AMU
ATP adenosine triphosphate
audio-frequency electromagnetic noise AFMAG
audio-magneto-telluric method AMT
audiotapes
auger electron spectroscopy AES
AUTOCAD (or ACAD, CAD, CADD) computer-aided design and/or drafting
autochthonous produced in situ
automatic station keeping ASK (see "DPS")
auxiliary measuring sonde AMS (a Schlumberger tool that can be added to any digital string to give temperature and tension measurements)
AV annular velocity
AV annular velocity
av., avg. average
AVCC average carbonaceous chondrites
avdp avoirdupois
average carbonaceous chondrites AVCC
AVHRR advanced very high resolution radiometer
AWB airway bill for air-freight shipments [logistics]
AWG (1) Association for Women Geoscientists; (2) American wire gauge
AZ acme zone (biostratigraphy) [science]
az azimuth

ODP/IODP Dictionary: B

Revised 8/2009

b barn (= 10^{-28} m²)

b* color reflectance parameter component

b.y. billion years

b/d barrels per day

b/e⁻ (unit of photoelectric effect)

B/L bill of lading for surface (ocean) freight [logistics]

Ba barium

BABI basaltic achondrite best initial (⁸⁶Sr/⁸⁷Sr ratio of primordial mantle)

backarc basin (not back-arc)

backup

back off to unscrew a threaded connection; method of releasing stuck pipe downhole by means of "jarring" a tool joint with a small explosive charge

backflow

backscattering

Bahama Platform

bails also "bail links"; the two heavy rods forged with eyes in each end that connect the upper elevator or the swivel to the traveling block connector

band saw

band-pass filter

bandwidth

banktop

barite (bar) barium sulfate; finely ground barite in suspension used to increase the density of drilling mud

barrel sheet [n.; adj]

Barrem. Barremian

BAS British Antarctic Survey

baseline

basin floor [adj.]

basinward

basinwide

bay section of piperacker or hold where tubulars are stored

Bbbl billion barrels

bbbl 42-gallon barrel (U.S.)

BBS bulletin-board system [computers]

bcc blind courtesy copy

bcf billion cubic feet

bcf/d billion cubic feet per day

BCOM Budget Committee [JOIDES]

BCR (1) Bremen Core Repository, (2) bicenter reamer

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

bentonite (gel) sodium montmorillonite clay; finely ground bentonite mixed with water to impart viscosity to drilling mud used for cleaning hole

Berrias. Berriasian
BF bright field
BGDS bit-guide deployment system [drilling]
BGKT Vertical Seismic Profile Tool
BGR Bundesanstalt für Geowissenschaften und Rohstoffe (Federal Republic of Germany)
BGS British Geological Survey
BHA bottom-hole assembly [drilling]
BHC Borehole Compensated Sonic Tool [logging]
BHGM borehole gravity meter
BHP bottom-hole pressure
BHSIP bottom-hole shut-in pressure
BHT bottom-hole temperature
BHTV Borehole Televiewer tool
BHV Baker Hughes Video
BIF banded iron-formation
biocoenosis
bio-event bioevent
biogenic (not "biogenous")
BIOS basic input/output system [computers]
biozone
bit cutting device at the end of the drill string that advances the hole when rotated
bit deplugger punch-type device resembling heavy-walled pipe that is attached to the bottom of an inner core barrel and pumped down the pipe to clear the bit throat of clay, cuttings, nodules, or other obstructions; similar to the core breaker and center bit
bit sub lowermost drill collar; also houses the float valve (also the lower support bearing in the case of the RCB system)
BLM Bureau of Land Management (U.S.)
blowout preventer BOP
blowout uncontrolled flow of formation fluid to the surface, resulting from loss of contained pressure in the well bore; blowouts can be catastrophic and result in loss of hole, rig, and life
BM bench mark
BMER Board on Minerals and Energy Resources (U.S.) (under National Research Council)
BMR Bureau of Mineral Resources (Australia)
BMS (1) base metal sulfides; (2) British Micropalaeontology Society
BNL Brookhaven National Laboratory (U.S.)
BOD biochemical oxygen demand
BoG Board of Governors
BOMB carbonate analysis (sample designation mostly defunct) [curation]
bomb pressure-measuring device or sample container [science/drilling]
BOP (1) blowout preventer [drilling]; (2) device for sealing either an annular space or the entire well bore against formation pressure to prevent uncontrolled flow to the surface

borehole

BOS back-off sub [drilling]

bottom-hole assembly BHA

bottom water (n., adj.)

bowspring

box female portion of a threaded connection

BP before present (or B.P.)

bp British Petroleum

BPH breakaway piston head (for APC) [drilling]

BPL bone phosphate of lime

breakup

brf below rig floor (as in mbrf, meters below rig floor) [drilling]

BRG Borehole Research Group, Lamont-Doherty Earth Observatory

BRGM Bureau de Recherches Géologiques et Minières (France)

BSE backscattered electron (image)

BSEM backscattering electron microscope

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 [science]

BT bathythermograph (as in XBT, expendable bathythermograph)[science]

btu British thermal unit [science]

bulk density [n., adj.]

bulkhead [ship]

bullnose blunt terminal end of a downhole tool; used on logging tools to provide full diameter for opening the lockable float valve (LFV)

bumper sub splined, telescoping section of the BHA used to decouple the ship's heave motion from the bit; largely supplanted by the heave compensator and seldom used in modern operations

burrow-fill structure

BVA ball-valve assembly [drilling]

BW borehole water [drilling]

BWT bottom water temperature

bypass

byproduct

ODP/IODP Dictionary: C

Revised 8/2009

C (1) degrees Celsius (= degrees Centigrade); (2) coulomb; (3) concentration

C/C course change

c/s counts per second [cps is preferred by ODP style]

C₁/C₂ methane/ethane ratio [science]

C₆₊ hexane and higher hydrocarbons [science]

CA Chemical Abstracts

ca. circa; only used with age or time; use "about" with any other unit

cabhead the component that terminates the logging cable and attaches to the various logging tools

CaCO₃ calcium carbonate

CAD computer-aided design and/or drafting (or ACAD, AUTOCAD, CADD)

Cafemic Ca-, Fe-, and Mg-rich

CAI (1) computer-aided instruction; (2) computer-assisted instruction; (3) calcium aluminum inclusion; (4) conodont alteration index

cal calorie

calc-alkaline

CALI caliper logging tool [logging]

Camp. Campanian

CANDEL Canadian Committee on the Dynamics and Evolution of the Lithosphere

CANHIGEO Canadian Committee on History of Geological Sciences

CANMET Canada Centre for Mineral and Energy Technology

CANQUA Canadian Quaternary Association

CAP Canadian Association of Palynologists

CAP-DPG Cascadia Accretionary Prism Detailed Planning Group [JOIDES]

caprock [adj.] (AGI)

CARD-FISH catalyzed reporter deposition-fluorescence in situ hybridization

CAS Chemical Abstracts Registry Service

casing steel pipe used to line a hole against collapse or erosion or to isolate the bore from formation fluid or pressure; casing of various sizes can be set by means of the reentry cone, HRB, or DIC systems; in some modes, the casing can be cemented into place

CASP Cambridge Arctic Shelf Programme

CASSI Chemical Abstracts Service Source Index

catwalk on JOIDES Resolution, the casing-hold hatch cover, but "catwalk" may also be used in reference to the core-handling platform or the area of the piperacker located between the bays and occupied by the skate track

CAVA Central American volcanic arc

CB center bit [drilling]

CBL cement-bond log

CBR California bearing ratio

CB-RMM core barrel–retrievable memory module

CBT cement bonding tool

cc carbon copy; courtesy copy (anachronistic term!)

CC core catcher [n.; adj.]

CCD carbonate compensation depth or calcite compensation depth [science]

CCSF core composite depth below seafloor

CCL casing-collar log

cd candela (luminous intensity)

CDEX Center for Deep Earth Exploration

CDN Compensated Density Neutron tool

cDNA copy deoxyribonucleic acid

CDP (1) common depth point, (2) Complex Drilling Project

CDR Compensated Dual Resistivity tool

CD-ROM compact disc read-only memory [computers]

CDS colleted delivery system [drilling]

CDT Canyon Diablo troilite

CDW Circumpolar Deep Water

cement finely ground Portland cement in a water slurry, used to secure casing strings and to plug holes when they are abandoned; oilfield cement differs from concrete in that no aggregate is used

Genom. Cenomanian

Genoz. Cenozoic

center bit device attached to the bottom of an inner core barrel to blank off the center hole of the core bit in certain drilling situations

CEP circular error probable

CEPAC Central and Eastern Pacific Panel [JOIDES]

CEPDGP Central and Eastern Pacific Detailed Planning Group

CEQ Council on Environmental Quality (U.S.)

CEREGE Centre Européen de Recherche et d'Enseignement des Géosciences de l'Environnement

CESP correlative echo-sounder processor

cf. confer, compare (no comma follows)

CFP Compagnie Française du Pétrole (France)

cg centigram

CGC Canadian Geoscience Council

cgi conglomerate

CGMW Commission for the Geological Map of the World

CGR computed gamma ray

cgs centimeter-gram-second (system of units) [magnetic susceptibility]

CGS Coast and Geodetic Survey (U.S.)

CGU Canadian Geophysical Union

channel-levee [adj.]

Chebychev ["Chebychev's inequality"]

check shot [n., adj.]

CHEMDB database program for carbonate, interstitial water, gas chromatography, and Rock-Eval analysis results

Chikyu

CHL core height logger (electronics unit of SCM system) [drilling]

CHN carbon-hydrogen-nitrogen analyzer [science]
ChRM characteristic remanent magnetization
CI (1) crystallization index; (2) contour interval
ci curie
CIDNP chemically induced dynamic nuclear polarization
CIE carbon isotope excursion
CIM (also CIMM) Canadian Institute of Mining and Metallurgy
CIMP (1) Commission on Metamorphic Petrogenesis; (2) Commission Internationale de Microflore du Paléozoïque
CIPW norm Cross, Iddings, Pirsson, and Washington
circulating head sometimes known as a "poorboy swivel"; a device for attaching a circulating hose directly to the top of the drill string; it saves time over picking up the top drive when circulation is desired without the necessity for rotation
CIS (1) Chemical Information System; (2) Commonwealth of Independent States
clathrate gas hydrates are naturally occurring icelike solids in which water molecules trap gas molecules in a cagelike structure known as a clathrate. Although many gases form hydrates in nature, methane hydrate is by far the most common; methane is the most abundant natural gas. The volume of carbon contained in methane hydrates worldwide is estimated to be twice the amount contained in all fossil fuels on Earth, including coal. Gas hydrate also occurs as nodules, laminae, and veins within sediment and in some cases as a pure gas hydrate layers, meters thick.
clay-sized sediment
claystone
CLDC control length drill collar
close-up (noun)
cm centimeter
cm³ (not "cc")
CMAS same as MCAS
CMC crown-mounted heave compensator
cmcd corrected meters composite depth
CMCR Center for Advanced Marine Core Research
CMD cable-measuring device [drilling]
CMIA Coal Mining Institute of America
CMO Central Management Office
CMP common midpoint
CMS Clay Minerals Society
CN (1) coordination number; (2) chondrite-normalized
CNMMN Commission on New Minerals and Mineral Names (of the IMA)
CNRS Centre Nationale de la Recherche Scientifique (France)
CNS carbon-nitrogen-sulfur analyzer [science]; Cocos-Nazca Spreading center
CNS Cocos-Nazca Spreading Center
CNT Compensated Neutron Tool
CNT-G dual porosity compensated neutron tool
CO Contracts Officer
coarsening-downward sandstone

coarsening-upward coarsening-upward [adj.]
COCORP Consortium for Continental Reflection Profiling
COCRUST Consortium for Continental Reconnaissance Using Seismic Techniques
COD chemical oxygen demand
CODATA Committee on Data for Science and Technology (of ICSU)
COE Corps of Engineers (of U.S. Department of Defense)
coeval same age; contemporary
COGS Computer Oriented Geological Society
COI conflict of interest
cold water [n.]
coldwater [adj.]
Colmek TV underwater television system manufactured by Colmek Systems, Inc., used in conjunction with the scanning sonar for entering boreholes and conducting seafloor surveys
COM Commission on Ore Microscopy (of the IMA)
compressional wave [n., adj.]
compressional wave velocity P-wave velocity; seismic wave
computer-aided design and/or drafting CAD, CADD, ACAD, or AUTOCAD
conc. concentrated
Coniac. Coniacian
contact probe [n., adj.]
core barrel generally, the chamber that receives a core as it is formed; ODP coring systems utilize both outer and inner core barrels
core bit bit especially designed to cut around and form a core for retrieval and sampling; essentially a drill bit with a hole in the center; special features provide for trimming, guiding, and protecting the core as it passes through the bit
core breaker chisel-shaped device similar to a center bit that is attached to an inner core barrel; it is pumped down the drill string to break up and/or dislodge core pieces or other debris that may be obstructing the bit throat
core catcher [n., adj.] one-way device analogous to a check valve that prevents core from falling from the inner core barrel once it has entered. CC
core liner plastic tube inside the inner core barrel in which the core is encased; an ODP core usually is removed from the inner barrel with the liner and remains in that liner for sectioning, splitting, description, sampling, and eventual storage
core scale [n., adj.]
CORELOG database program for core-inventory information [ODP]
C_{org} organic carbon [science]
coring advancing a hole for the purpose of retrieving core
coring line wire rope with which the inner core barrels are retrieved; analogous to the "sand line" of an oil field-drilling rig
coring system combination of bit, BHA components, and retrievable components designed to recover cores under specified conditions and lithologies
coring winch custom-built winch designed for ODP coring and located one level above the drawworks; it features full redundancy (except for the motor), with

coring lines installed on two winch drums so coring need not be interrupted in case of mechanical failure of the winch or coring line

CORK circulation obviation retrofit kit

CORSAIRES Coring Stable and Instable Realms in European Seas

COSOD Conference on Scientific Ocean Drilling

COST Continental Offshore Stratigraphic Test

coverslip

CP cross-polarization

CPA (1) Canadian Petroleum Association; (2) closest point of approach

CPI carbon preference index [science]

CPMAS cross-polarization/magic angle spinning conditions

cps counts per second or cycles per second [science]

CPU central processing unit [computers]

CR color reflectance

CRC concurrent range zone (biostratigraphy) [science]

Cret., K Cretaceous

CRIB Computerized Resources Information Bank (USGS)

criss-crossing

CRM chemical remanent magnetization [science]

cross bar (1) a short, bifurcating 'ridge' of a transverse ripple mark. (2) a low ridge trending across a *blind valley*.

cross section [n.]; cross-section [adj.]

crossbar [n.] the complete skeletal rim on which the fixed edge of the mandible of the avicularium pivots in some cheilostome bryozoans

cross-bedding

crosscorrelation

crosscut [n.] intersecting at an angle to the general direction

crosscutting (verb or adj.)

crossed nicols

crossed polars

crosshole

cross-laminae [n.]

cross-lamination [n.]

cross-latitudinal measurement

cross-line

crossover critical distance

cross-plot [n.]

cross-section [adj.]; cross section [n.]

cross-stratification

cross-strike profile

crown top of the derrick; the crown area is occupied by the "water table" platform and the crown-block assembly crown block array of six drilling-line sheaves that forms the upper end of the rig's hoisting system

CRREL Cold Regions Research and Engineering Laboratory (of COE)

CRT cathode ray tube

cryomag cryogenic magnetometer

CRZ carbonate reduction zone
CSDP Continental Shelf Drilling Program [science]
CSEG Canadian Society of Exploration Geophysicists
CSES conical side-entry sub [drilling]
CSF core depth below seafloor
CSIRO Commonwealth Scientific and Industrial Research Organization (Australia)
CSPG Canadian Society of Petroleum Geologists
CSR color spectral reflectance
CSRS coherent Stokes Raman spectroscopy
CSU cyber service unit [logging]
CT coring technician [drilling]
CTBE Cenomanian/Turonian Boundary Event
CTD concentration/temperature/depth recorder
CUB concentric underreaming bit
CUEA Coastal Upwelling Ecosystems Analysis
curate (a hard rock core) to add dividers (plastic separators) between noncontiguous rock pieces; a curated length is measured after dividers are glued in.
CUSEC Central U.S. Earthquake Consortium
CUSMAP Conterminous U.S. Mineral Assessment Program
cut and slip maintenance/safety operation performed to extend the life of the drilling line; it is necessary to slack the line by hanging it off the traveling block; then the line is "slipped" through the entire system by about 30 m, and that much wire is cut from the end; the action must be done whenever a prescribed number of ton-miles has accrued, and it occasionally interrupts tripping or coring operations for about 1 1/2 hours
cutaway [adj.]
cutoff a boundary
cutting shoe "business" end of an XCB inner core barrel; the cutting shoe extends past the main core bit and actually forms the core
cuttings accumulated fragments of rock or sediment produced by the drilling operation
CVA canonical varieties analysis
CVD chemical vapor deposition
CWA Clean Water Act
cwt hundredweight
CY calendar year

ODP/IODP Dictionary: D

Revised 8/2009

- D** density (specific gravity in some publications) [*Note: density and specific gravity are NOT the same thing but are sometimes confused by nonscientists.*]
- D/O** Dansgaard/Oeschger cycles
- D5BC** radio call sign of *JOIDES Resolution* [ship]
- DAC** digital-to-analog converter [computers]
- DAI** Dissertation Abstracts International (publication of UMI)
- Dan.** Danian
- Dansgaard-Oeschger Events 1–10
- DAPI** 4',6-diamindino-2-phenylindole
- DARPA** Defense Advanced Research Projects Agency (U.S. Navy)
- DART** drilling and reentry template
- DAS** directional acquisition system
- data set**
- database**
- dB** decibel
- DBD** dry bulk density
- DBMI** drill-bit motion indicator [drilling]
- DC** (1) drill collar [drilling]; (2) direct current [electronics]
- dcalc** calculated d-spacing
- DCB** diamond core barrel [drilling]
- DCE** distributed computing environment [computers]
- DCM** deep chlorophyll maximum
- DCP** direct-current plasma spectrometry
- DCS** diamond coring system [drilling]
- DC-SQUID** direct-current superconducting quantum interference device
- DDE** dynamic data exchange [computers]
- dead line** length of nonmoving drilling line that extends from the crown block to an anchor at the drill floor
- debris flow** [n., adj.]
- DEC** Digital Equipment Corporation [computers]
- décollement** a detachment fault
- deep water** [n.]
- deep-sea sediments**
- deep-tow camera**
- deepwater sediments** [adj.]
- derrick** tower of the drilling rig above the drill floor; *JOIDES Resolution*'s derrick is rated at 650 tons' working load and stands about 60 m above the floor
- derrickman** contractor employee whose primary responsibilities are operation and maintenance of the pipe-handling equipment and circulating pumps; his station is on the "monkey board" in the derrick when the BHA or pipe is being racked in the derrick

DES dual-elevator stool on the rig floor (the top of the DES is the point from which drill pipe measurements are made) [drilling]

DESS digiseis enhanced streamer survey

DEVI hole deviation (GPIT) [logging]

DF dark field

df direction-finding (adj.)

DFD data-file documents [science]

DGE Department of Geothermal Energy (of DOE)

DGGE denaturing gradient gel electrophoresis

DHL (1) see "DML;" (2) difficult hole logging

DHML (see "DML")

DI (1) durability index; (2) differentiation index; (3) deionized water

diamond coring system (DCS) complete and separate coring system incorporating the advantages of small-diameter, high-speed, narrow-kerf coring as developed by the mining industry; a small drilling rig is suspended in the derrick of the drillship, and a small-diameter drill string operates inside the standard drill string, which acts as a marine riser; the small-diameter drill string is rotated by a high speed top drive, and core is cut by a diamond core bit; retrieval of the inner barrels is accomplished by a smaller coring winch on the suspended rig; the system is designed for hard-rock coring applications in fractured and/or glassy material

diamond saw

diapirs dome-like structures broken out at top from underneath

DI-BHA drill-in bottom-hole assembly [drilling]

DIC (1) drill-in casing [drilling]; (2) differential interference contrast

dike

DIL dual induction log (resistivity) [logging]

dil. dilute

dip-slip fault

DIS (1) digital imaging system, (2) ICDP Drilling Information System

disc used for laser disc, video disc, CD-ROM, or vertebrae

disk used for computer disk

DIT Dual Induction Tool (also DIT-E)

DIT-E Digital Dual Induction Tool model E (resistivity) (a.k.a. phasor induction tool) [logging]

DITE-SFL phasor dual induction–spherically focused resistivity tool

DLIS digital log information standard

DLL Dual Laterolog (resistivity) [logging]

dm decimeter

DMATC Defense Mapping Agency Topographic Center (U.S.) ???

DMI desktop-management interface [computers]

DML downhole measurements laboratory aboard *JOIDES Resolution* (a.k.a. "DHML" and "DHL") [logging]

DMP Downhole Measurements Panel [JOIDES]

DMS Data Management Specialist

DMT drop-modulated technology (color scanner); Deutsche Montan Technologie GmbH

DMV deep margin velocity

DNA deoxyribonucleic acid

DNAG Decade of North American Geology

DNL dual-energy neutron log

DO dissolved oxygen

dobs observed d-spacing

DOC dissolved organic carbon

DOE (1) Department of Energy (U.S.) (formerly ERDA, AEC); (2) Department of the Environment (Canada)

dolerite

DOMES Deep Ocean Mining Environmental Study

dope thread lubricant for drilling tubulars; usually consists of grease with a high concentration of lead, zinc, or copper particles

Doppler

DOS Disk Operating System [computers]

DOSECC Deep Observation and Sampling of the Earth's Continental Crust

DOT internal drilling operations team

double piston coring taking duplicate piston cores at adjacent sites only a few meters apart

double two joints of drill pipe made up together to form a length of about 19 m

downcore

downcurrent

downdepth

downdip

down-dropped

downfan

downflow

downgoing

downhole

downlap

download

downsection

downslope

downtime

DP (1) dynamic positioning [ship]; (2) drill pipe [drilling]; (3) data processing [computer]

DPG Detailed Planning Group [JOIDES]

DPM drill pipe measurement [drilling]

DPO dynamic-positioning operator [ship]

DPP differential pulse polarography

DPS dynamic positioning system [ship]

DPT deep propagation tool

DQ Dril-Quip, manufacturer of casing-running tools [drilling]

DR dead reckoning [ship]

dr dram

drawworks main hoisting winch of the drilling rig

DRB DCS retractable bit system [drilling]

DRE dense rock equivalent

DRF drillers depth below rig floor

DRH bulk density correction (HLDS) [logging]

DRHO bulk density correction (HLDS) [logging]

dri

drift shot measurement to determine deviation of the hole from vertical; usually does not give azimuth

drill bit bit designed for making hole without coring; usually of tri-cone construction; drilling is more efficient with a drill bit, but coring is not an option with a drill bit

drill collar [n., adj.] heavy-walled tubular, which is the principal BHA component; the main purpose of drill collars is to provide weight on bit (WOB) for the drilling/coring operation; in addition, the lowermost drill collar is modified to serve as the outer core barrel in ODP coring BHAs

drill core

drill floor [n., adj.] also "rig floor" or "floor"; the main work platform of the drilling rig; location of the rotary table, iron roughneck, dual elevator system, tuggers, etc.

drill hole

drill pipe [n., adj.] relatively thin-walled tubular that is the main component of the drill string; to maximize depth capability, tensile strength of the drill string is maximized relative to its weight; for that reason, ODP drill pipe is special high-strength heat-treated steel, and a tapered drill string is used, with larger pipe at the top; drill pipe is always run in tension, or it will twist off; therefore all bit weight is supplied by drill collars

drill site

drill string [n., adj.] entire drilling assembly supported by the hoisting system extending from the top drive or kelly to the bit

driller contractor employee in charge of actual drilling/coring operation; operates the hoisting equipment and supervises the drill crew; reports to the pusher

drillers depth (no apostrophe)

drill-in casing an experimental system of implanting casing while the hole is being drilled rather than setting casing as a secondary operation. The casing does not have to be hung from the surface with a reentry cone.

drilling advancing a hole without retrieving or attempting to recover core; sometimes referred to as "washing"

drilling fluid [n., adj.] fluid medium required for rotary drilling to remove cuttings, cool and lubricate the bit, condition the hole, control formation pressure, etc.; in ODP operations, it is seawater with occasional "slugs" of drilling mud; in other operations, it may be drilling mud, fresh water, air, gas, foam, or mist

drilling line heavy wire cable of the hoisting system

drilling parameters measures of the drilling operation, such as bit weight, rotary rpm, circulation rate, circulation pressure, penetration rate, torque, etc.

drilling recorder instrumentation for recording drilling parameters as measured by various sensors on the rig; some parameters, such as penetration rate vs. depth, are useful in scientific investigation

drillover [n.]

drillship

drill-stem test

DRM depositional (or detrital) remanent magnetization

drop point

dropstones

dry bulk [n., adj.]

dry bulk density

dry water content

DS drilling superintendent [drilling]

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

DSAG Deep Sea Archaeological Group

DSC differential scanning calorimetry

DSDP Deep Sea Drilling Project

DSF drillers depth below seafloor

DSI Dipole Sonic Imager

DSOW Denmark Strait Overflow Water

DSP downhole sensor package

DSRV deep submersible research vessel

DSS (1) deep sound (sonic) source, [drilling]; (2) drilling sensor sub

DST drill-stem test [drilling] OR internal Downhole Systems Team

DSV digital signal velocimeter

DT differential transformer; compressional wave delay time (BHC) [logging]

DTA (or dta) differential thermal analysis

DTC (1) digital telemetry cartridge; (2) compressional-wave traveltime logs

DTCO compressional wave delay time (DSI) [logging]

DTD document-type definition [computers]

DTG differential thermogravimetry

DTL detection threshold limit

DTSM shear wave delay time (DSI) [logging]

DTSR delta-t shearwave traveltime reconstructed

DTST Stonely wave delay time (DSI) [logging]

dual elevator handler pneumatic device that positions and retracts pipe elevators as drill string connections are made; located just forward of the rotary table

dual elevator system pipe-handling system modified for use with high-strength pipe that substitutes a second elevator set for slips when the drill string is landed at the drill floor

dual-element packer

DVTP Davis-Villinger Temperature Probe

DVTPP Davis-Villinger Temperature-Pressure Probe

DW drawworks [drilling]

DWOB downhole weight on bit

dynamic-positioning thrusters

ODP/IODP Dictionary: E

Revised 8/2009

E&O Education and Outreach

EAC East Antarctic Current

EAR Eastern American Realm (paleogeography)

Earth [used as a planet]

EASE European Association of Science Editors

East Coast passive continental margin

East Greenland Current

East Greenland Margin

East Greenland Shelf

East Pacific Rise

ECD equivalent circulating density

ECGR environmentally corrected gamma ray (SGT) [logging]

echinoid

echo sounder [n., adj.]

ECOD European Science Foundation (ESF) Consortium for the Ocean Drilling Program

ECOMOUND Environmental Controls on Mound Formation along the European Margin

ECORD European Consortium for Ocean Research Drilling

ECORD-net E.C. Research Network

ECR (1) East Coast Repository at LDEO [ODP]; (2) ship's engine-control room [ship]

EDAX energy dispersive analysis, X-ray

EDI electronic data interchange [computers]

EDM electronic distance-measuring instrument

EDO EDO-Western, manufacturer of reentry sonar system and seismic recorders

EDP Engineering Development Panel

EDP-XRF energy dispersion polarization X-ray fluorescence

EDS (1) energy dispersive spectrometry; (2) Environmental Data Service (of NOAA)

EDX energy dispersive X-ray analyzer

EELS electron energy-loss spectroscopy

Eemian

EEZ Exclusive Economic Zone

EGA evolved gas analysis

EGS European Geophysical Society

EGU European Geosciences Group

Eh redox (oxygen reduction) potential

EI (1) energy index; (2) electronic imaging [computers]

EIA (1) environmental impact assessment; (2) enterprise information architecture [computers]

EIS environmental impact statement (or study)

Ekman transport

elevator device that locks around the drill pipe tube to support the pipe when the larger diameter of the tool joint rests upon the smaller diameter of the latched elevator

EM electromagnetic

EMA ECORD Management Agency

e-mail electronic mail [computers]

EMCO ESF Management Committee for the ODP

EMD electromotive diesel (engines and electric motors) [ship]

emf (or EMF) electromotive force

E-MORB enriched midocean ridge basalt

EMPA electron microprobe analysis

EMPSA Electro-resistance Multichannel Particle-Size Analyzer

EMR (1) Department of Energy, Mines and Resources (Canada); (2) electromagnetic radiation

EMS electronic multishot instrument [drilling], Environmental Measurement Sonde

emu electromagnetic unit(s)

En enstatite

en echelon

end cap [n., adj.]

end point [n., adj]

end-member [n., adj.]

ENDOR electron nuclear double resonance

endorheic

endpoint-vectors

engineer generally believed to be a mythical creature who knows all the secrets of the universe and who frequently speaks in foreign tongues

ENSO El Niño Southern Oscillation

Eoc. Eocene

Eocene Impact (NP21) Evidence exists to support the occurrence of at least two large closely spaced extraterrestrial impact events on Earth during early late Eocene time. In particular, two large craters (order ~100 km diameter; Chesapeake Bay, North America, and Popigai, Northern Siberia) have been proposed to explain impact-ejecta strewn fields that are documented in deep-sea sediments from around the world.

Eocene–Oligocene Boundary The Eocene–Oligocene transition of 34 million years ago was a critical turning point in Earth's climatic history when the warm, high-diversity "greenhouse" world of the early Eocene ceded to the glacial, "icehouse" conditions of the early Oligocene.

eolian also aeolian; eolian preferred

EOM extractable organic matter [science]

EOP end of pipe

EOR Expedition Objective Research

EOS Earth Observing System (of NASA)

Eos Weekly publication of American Geophysical Union; named for Greek goddess of the dawn

EPA Environmental Protection Agency (U.S.)
EPC European Petrophysical Consortium
epm equivalents per million
EPMA electron probe microanalyzer
EPR (1) electron paramagnetic resonance; (2) East Pacific Rise
EPR-DPG East Pacific Rise Detailed Planning Group [JOIDES]
EPS encapsulated PostScript [computers]
EPSP Environmental Protection and Safety Panel
EPT East Tasman Plateau
equi-ripple
ERB Editorial Review Board [publications]
ERDA Energy Research and Development Administration (formerly AEC; now DOE) (U.S.)
ERL Earth Resources Laboratory (Stennis Space Center)
EROS Earth Resources Observation Systems (includes Landsat)
ERTS Earth Resource Technology Satellite
ESA (1) Endangered Species Act; (2) European Space Agency
ESCA electron spectroscopy (chemical analysis)
ESCO ESF Scientific Committee for ODP
ESCS extended shoe coring system
esd estimated standard deviation
ESDD Earth Science Data Directory (of USGS)
ESF (1) European Science Foundation (in terms of ODP, the European Science Foundation Consortium for the Ocean Drilling Program (Belgium, Denmark, Finland, Iceland, Ireland, Italy, The Netherlands, Norway, Portugal, Spain, Sweden, and Switzerland) [*current as of 12/2001*] (2) European Social Fund
ESO ECORD Science Operator
ESR (also esr) electron spin resonance
ESSA Environmental Science Services Administration (now NOAA) (U.S.)
ESSAC ECORD Science Support and Advisory Committee
ESSEP Environmental Science Steering and Evaluation Panel
ET electronics technician [ODP]
ETA estimated time of arrival
ETD estimated time of departure
ETF Engineering Task Force
ETH Eidgenössische Technische Hochschule (Switzerland)
ETM Energie Thermique des Mers
ETS electron transmission spectroscopy
EUB eccentric underreaming bit
EUSIDIC European Association of Information Services
eV electron volt
evaporates rock composed of minerals precipitated from solutions concentrated by evaporation (halite = NaCl, gypsum = CaSO₄ 2H₂O [hydrous calcium sulfate], and anhydrite = CaSO₄ [calcium sulfate, i.e., gypsum without water]).
EX extinction [science]
EXAFS extended X-ray absorption fine structure

EXCOM Executive Committee [JOIDES]

ODP/IODP Dictionary: F

Revised 6/2008

F (1) Fahrenheit; (2) farad; (3) fusibility

f fugacity (followed by chemical subscript)

Fa fault

FA first appearance (biostratigraphy)

FAAD first abundant appearance datum

FAD first-appearance datum (biostratigraphy) [science]

Faeroe-Iceland Ridge

Faeroe-Iceland-Greenland Ridge

FAGS (1) ferrosilite-anorthite-garnet-silica (geobarometer); (2) Federation of Astronomical and Geophysical Services (of ICSU)

fallout

FAMOUS Franco-American Mid-Ocean Undersea Study [science]

fast line length of drilling line extending from the drawworks drum to the first sheave in the crown block; it travels faster than any other line

fast-spreading center

fath fathom

faunas (pl.)

FC fall cone

Fc fracture cleavage

F_{calc} calculated structure factor

fcc face-centered cubic

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

FCSP final cruise sampling program (end-of-cruise summary of each sample request for a leg; included in Hole Summary) [curation]

Fe oxide

Fe oxyhydroxide

FEA finite-element (stress) analysis

feather edge

FERC Federal Energy Regulatory Commission (U.S.)

FFF free-fall funnel (a.k.a. minicone) [drilling]

FFI free-fluid index log

FFQ ferrosilite-fayalite-quartz (geobarometer)

FH full hole [drilling]

FI felsic index

FIA fluorescent indication analysis

fiber-optic cable

FID (1) free induction decay; (2) flame ionization detector

Fig. (in parentheses)

Figure (write out in text)

Figure F1A

fine silt fraction

fine-grained clays

fining upward (v.) fining-upward (adj.) or up and fining (adj.)

fining-downward layers

finite-difference method

first-appearance datum FAD

fish any object remaining in a hole that is not attached to the drill string and needs to be removed

FISH fluorescent in situ hybridization

FISH-DC fluorescent in situ hybridization-direct count

fishing the art/skill of removing a fish from the hole, either in one piece or in fragments

fishing tool any device, such as an overshot, spear, or mill, that is used to break up a fish or to remove it from a hole

f-k filter

flat lying (adj.)

float valve check valve in the drill string, usually just above the bit, that permits the circulation of drilling fluid down the pipe but prevents backflow of fluid and cuttings into the drill string

floatstone

floe (as in ice floe)

floorman contractor employee who works on the drill floor; roughneck

flow base

flow line

flow-in (n.)

flowmeter

fluxgate magnetometer

fm formation

FMA ($\text{FeO} + \text{Fe}_2\text{O}_3$) + MgO + ($\text{Na}_2\text{O} + \text{K}_2\text{O}$) triangular plot

FMD first-motion detector

FMQ fayalite-magnetite-quartz buffer

FMS Formation MicroScanner logging tool [logging]

FO first occurrence (biostratigraphy) [science]

F_{obs} observed structure factor

Footwall [n., adj.]

foraminifers (not foraminifera), but note Foraminifera for the Order

forearc

formation driller's term for the rock or sediment being drilled; not used in the geological sense to identify a unit or grouping of specific age and lithology

Formation MicroScanner FMS [logging]

formulas

forward front of ship [shipboard]

fossil-rich

FPAPWG Fluid Processes in Accretionary Prisms Working Group [JOIDES]

FPGA field programmable gate array

free space [n.]; free-space [adj.]

free-fall funnel FFF

free-space [adj.]; free space [n.]

freeze-dried (n., adj.)

freeze-dry (v.)

freshwater

frequency-domain method

FRG Federal Republic of Germany

FRIS fayalite-rutile-ilmenite-silica (geobarometer)

FRP fiber-reinforced plastic

Fs ferrosilite

ft foot or feet

FT Fourier-transform techniques

FTIR Fourier transform infrared spectroscopy

FTP file-transfer protocol [computers]

FV flapper valve

FWHM full width at half maximum

FY fiscal year

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

ODP/IODP Dictionary G

Revised 4/2008

G (1) specific gravity; (2) gauss; (3) Gibbs free energy
g gram
g gravity field strength
g. (or gen.) genus
G.y. gigayears
g/cm³ grams per cubic centimeter unit for density (do not use cc)
Ga billions of years before the present
GAC Geological Association of Canada
GAD geomagnetic axial dipole
GADS garnet-anorthite-diopside-silica (geobarometer)
GAES garnet-anorthite-enstatite-silica (geobarometer)
GAf garnet-anorthite-fayalite (geobarometer)
GAfS garnet-anorthite-ferrosilite-silica (geobarometer)
GAHS garnet-anorthite-hedenbergite-silica (geobarometer)
gamma ray [n., adj.]
Ganges fan
gAPI American Petroleum Institute gamma ray units
gas chromatography mass spectrometry GCMS or GC-MS
gas hydrate [n., adj.] (see clathrate)
GASP garnet-aluminosilicate-silica-plagioclase (geobarometer)
gauge
GB gigabytes
GC (1) gas chromatography [science]; (2) Glomar Challenger [DSDP]
GCAGS Gulf Coast Association of Geological Societies
GCR Gulf Coast Repository at TAMU [ODP]
GDGT glycerol dialkyl glycerol tetraethers
GEBCO General Bathymetric Chart of the Oceans
GEK geomagnetic electrokinetograph
GEMS Global Environmental Monitoring System (of United Nations)
geomagnetic field [n., adj.]
GEOMAR FRG Research Center for Marine Geosciences
GEOMOUND The Mound Factory—Internal Controls
GEOPROPS geophysical properties tool
GeoRef geological reference database of the American Geological Institute
geotherm
geoVISION (Schlumberge logging tool)
GER Geriatric Core Study [curation]
GERM Geochemical Earth Reference Model
GF growth factor
GFDL Geophysics Fluid Dynamics Laboratory (Princeton)
GFZ Charlie Gibbs Factor Zone
GHMT Geologic High-Resolution Magnetic Tool

GHOST global horizontal sounding technique
GHSZ gas hydrate stability zone
GI gun generator-injector gun
GIA Gemological Institute of America
GIS (1) Geoscience Information Society; (2) geographic information system(s)
GISP2 Greenland Summit ice core
glacio-eustatic
glaciogenic
glaciomarine
globorotaliid
GLT geochemical tool string
G-M counter Geiger-Müller counter
GM Geiger-Müller (better spelled out in isolated or infrequent occurrences)
GMBM Gottingen Borehole Magnetometer
GMWL global meteoric water line
GMR grain/micrite ratio
GMT Greenwich Mean Time (replaced by UTC) – generic mapping tools
GNAIW Glacial North Atlantic Intermediate Water
GNP gross national product
GNS green nonsulfur bacteria
GOBO Geophysical Ocean-Bottom Observatory
go-devil a tool that free-falls down the drill pipe [logging]
gooseneck the curved upper termination of the standpipe, where the kelly hose attaches
GOR gas/oil ratio
GPa gigapascal
GPIT General Purpose Inclinator Tool
gpm gallons per minute (or gal/min) [GPM in Stone Soup]
GPS Global Positioning System (satellite navigation system) [ship]
GPTS geomagnetic polarity time scale
GQL graphical query language [computers]
GR natural gamma ray logging tool [logging]
gr. group
GRA gamma ray attenuation
GRAIL garnet-rutile-alumino-silicate-ilmenite (geobarometer)
grain size analyzer
gram-negative bacteria
gram-positive bacteria
GRAPE (1) gamma ray attenuation porosity evaluator (bulk-density analyzer) [science]; (2) GRAPE gamma ray attenuation porosity evaluator (shipboard physical properties measurement) (replaced by GRA bulk density)
gravel-sized
gravity flow unit
gray not grey
GRC Geothermal Resources Council
Great Isaac 1 well

greenhouse gas [n., adj.]

Greenland Ice Sheet

GRIP Greenland Summit ice core

GRIPS garnet-rutile-ilmenite-plagioclase-silica (geobarometer)

groundmass

groundwater [n., adj.]

GRS Geodetic Reference System

GS (1) Geochemical Society; (2) overshot for wireline coring [drilling]

GS pulling tool device attached to the coring line that is used to engage and retrieve inner core barrels and other downhole tools

GS pulling tool device attached to the coring line that is used to engage and retrieve inner core barrels and other downhole tools

GSA Geological Society of America

GSC (1) Geological Survey of Canada; (2) gas-solid chromatography

GSGP Global Sedimentary Geology Program [JOIDES]

GSL Geological Society of London

GST induced gamma ray spectroscopy logging tool [logging]

GSTA gamma ray spectrometry tool

Gt gigaton

GTS geological timescale

guide base (see "HRGB")

guide horn [n., adj.] (also "guide shoe"); structure extending from the keel to the drill floor that provides a 350-ft (107 m) bending radius to reduce bending stresses in the drill string

Gulf of Mexico Basin

Gulf Stream

GURC Gulf Universities Research Consortium

GVR geoVISION resistivity tool (at the bit)

ODP/IODP Dictionary: H

Revised 8/2009

H (1) hardness; (2) enthalpy

H wave hydrodynamic wave

ha hectare

half graben [n.]

half-graben [adj.]

half-life

half-space

halfway

Halliburton unit system for mixing and pumping cement slurry down a hole; it consists of dual pumps, water tanks, and a continuous mixing subsystem and is manufactured by the Halliburton Oil Well Cementing Company

ham hypothetical ancestral mollusk

Hamilton Frame device that measures *P*-wave velocity

hand crew member; helper

hand lens

hand specimen [n., adj.]

handheld

hanging wall [n., adj.]

HAR high-amplitude reflection

hard rock [n., adj.] igneous or metamorphic rock. Volcaniclastics are not considered hard rock. They are handled as other sediment cores (i.e., they do not get piece numbers).

hardground

Haut. Hauterivian

HAZI hole azimuth (GPIT) [logging]

HBR hydraulic bit release (obsolete) [drilling]

HC (1) heave compensator [drilling]; (2) hydrocarbons [science]

HCGR computed gamma ray

HDM humic degradation matter

HDPE high-density polyethylene or high-density plastic elastomer

HDR hot dry rock

HDS hammer drilling system

HE horizontal equivalent

headspace

headspace gas [n., adj.]

heat flow [n., adj.]

heavy-wall drilling joints (see "knobby joints")

HEE high-energy engineering (pipe-severing system) [drilling]

hemipelagic

HESS History of Earth Sciences Society

hex. (or hexag) hexagonal

HF (1) heat flow [science]; (2) high frequency; (3) hydrofluoric acid

HFK potassium measurement (HNGS) [logging]
HFS high-frequency depositional sequences
HFSE high-field-strength elements [science]
HFU heat flow units
HGU heat-generation unit
HI hydrogen index [science]
hiatus, hiatuses
HIG Hawaii Institute of Geophysics (University of Hawaii)
high ground
highstand
HIRM hard isothermal remanent magnetization
HLDS Hostile Environment Litho-Density Sonde
HLDT Hostile Environment Litho-Density Tool
HNGS spectral gamma ray; Hostile Environment Gamma Ray Sonde
hom. homonym
homolog
horizontal error bars
horstlike
hot plate
hotspot
HP Hewlett-Packard
HPC hydraulic piston corer (replaced by the advanced hydraulic piston corer, APC)
[drilling]
HPCS hydraulic piston coring system (CDEX)
hr hour
HRB hard rock base [drilling]
HREE heavy rare earth element(s) [science]
HRELS high-resolution electron loss spectroscopy
HRGB hard rock guide base [drilling]
HRO hard rock orientation [drilling]
HRP horseradish peroxidase
HRRS hard rock reentry system
HRTEM high-resolution transmission electron microscopy
HRTHIN database program for hard-rock thin-section descriptions [ODP]
HRV hard rock visual core description
HRVCD hard rock visual core description
HS (1) horizontal scale; (2) head sub [drilling]; (3) headspace sampling
HSDP Hawaiian Scientific Drilling Project
HSE Health, Safety, and Environment
HSGR total spectral gamma ray
HTHO thorium measurement (HNGS) [logging]
HURA uranium measurement (HNGS) [logging]
HV high velocity
HVDYN heave dynamics drill-string program [drilling]
HW high water
HWDJ heavy-wall drilling joint [drilling]

HYACE Hydrate Autoclave Coring Equipment

hyalo-ophitic (not hyalophitic)

hydrogen sulfide (H₂S) Low levels of H₂S gas may be encountered in cores in which microbial sulfate reduction is occurring or in cores from hydrothermal vent areas in which seawater sulfate has reacted with high-temperature intrusions. H₂S is a highly reactive and toxic gas which is normally maintained at negligible concentrations by rapid reaction with iron or other metals present in the sediment. In some cases, such as iron-deficient carbonate sediments and where gas hydrates or sulfate-rich brines are present, H₂S concentrations may be sufficient to cause a toxic gas breathing hazard, especially when cores are being handled in confined or poorly ventilated areas. In these situations, the *JOIDES Resolution* is equipped with H₂S sensors on the rig floor, the core receiving platform, and in the interior core-handling areas. H₂S levels of 10–20 ppm should activate audible and visual alarms and bring about an H₂S alert. H₂S odor is apparent at levels below those detectable by sensors or analytical instruments. If H₂S presence is suspected, the hydrocarbon monitoring techniques should include analysis by thermal conductivity detector gas chromatography (NGA) to provide information on concentration levels and any trends of H₂S occurrence in cores.

hypocenter

ODP/IODP Dictionary: I

Revised 8/2009

IAB International Abstracting Board (of ICSU)
IADC International Association of Drilling Contractors (formerly American Association of Oilwell Drilling Contractors)
IAEA International Atomic Energy Agency
IAEG International Association of Engineering Geology
IAG International Association of Geodesy
IAGA International Association of Geomagnetism and Aeronomy
IAGC International Association of Geochemistry and Cosmochemistry
IAGOD International Association on the Genesis of Ore Deposits
IAH International Association of Hydrogeologists
IAHR International Association for Hydraulic Research
IAHS International Association for Hydrological Sciences
IAMAP International Association of Meteorology and Atmospheric Physics
IAMG International Association for Mathematical Geology
IAP International Association of Planetology
IAPO International Association of Physical Oceanography
IAPSO (1) International Association for the Physical Sciences of the Ocean (provides bottled standard seawater for analytical calibrations);
IAS International Association of Sedimentologists; (2) International Association of Physical Sciences Organization
IASH International Association of Scientific Hydrology
IASPEI International Association of Seismology and Physics of the Earth's Interior
IASY international active sun years
IAU International Astronomical Society
IAVCEI International Association of Volcanology and Chemistry of the Earth's Interior
IAWPR International Association on Water Pollution Research
IAWPRC International Association on Water Pollution Research and Control
IBM International Business Machines (used generically as a term to describe personal computers)
IBOP inline blow-out preventer
IC (1) inorganic carbon; (2) ion chromatography
ICBN International Code of Botanical Nomenclature
ICC International Carboniferous Congress
ICCP International Committee for Coal Petrology
ICDP International Continental Scientific Drilling Program
ice sheet [n., adj.]
Iceland-Greenland Ridge
ice-rafted debris IRD
ICL Inter-Union Commission on the Lithosphere
ICP inductively coupled plasma spectroscopy [science]
ICP-AES inductively coupled plasma–atomic emission spectroscopy

ICP-MS inductively coupled plasma–mass spectrometry
ICP-OES inductively coupled plasma–optical emission spectrometry
ICR ion cyclotron resonance
ICS International Commission on Stratigraphy
ICSU International Council of Scientific Unions
ICT international critical tables
ICZN International Commission on Zoological Nomenclature
ID (1) inside diameter; (2) identification
IDAS isothermal decompression analysis system
IDEAL integrated drilling evaluation and logging
IDPH deep induction phasor-processed resistivity (DIT, DIT-E) [logging]
IDSS instrumented drill-string sub [drilling]
IDW (1) integrated depth wheel [drilling]; (2) Indian Deep Water [science]
I-ES induction-electric survey
IFP Institut Français du Pétrole (France)
IFPS International Federation of Palynological Societies
IFREE Institute for Frontier Research on Earth Evolution
IFREMER Institut Français de Recherche pour l'Exploitation de la Mer (France)
IGC International Geological Congress
IGCP International Geological Correlation Programme
IGES International Geochemical Exploration Symposium
IGRF International Geomagnetic Reference Field
IGS International Glaciological Society
IGU International Geographical Union
IGY International Geophysical Year
IHP Information Handling Panel [JOIDES]
ILD deep induction resistivity [logging]
ILM medium induction resistivity [logging]
ILP (1) International Lithosphere Program [JOIDES], (2) Industry Liaison Panel
ILS-PPG Industry-IODP Science Program Planning Group
ILW international low water
IMA International Mineralogical Association
IMC International Map Committee
IMCO Intergovernmental Maritime Consultative Organization
IMPH medium induction phasor-processed resistivity (DIT, DIT-E) [logging]
IMW international map of the world
inch The unit “inch(es)” is always spelled out to avoid confusion with the word “in”
in situ [n., adj.]
INAA instrumental neutron activation analysis
inboard
inc. sed. incertae sedis
indet. indeterminate
index properties [n.] moisture and density analyses; index-properties [adj.]
index species
indexes (in books), but indices of refraction index properties
inland

in-line

inner core barrel steel tube fitted with core catchers and (usually) a plastic core liner, in which the core is retained and transported to the drill floor; ODP inner core barrels for all coring systems are retrievable through the drill string by means of a wireline

inorganic carbon [n., adj.]

INQUA International Union for Quaternary Research

insertion probe [n., adj.]

interbedded

interglacial

interstitial water IW; [n., adj.]

interval usually a general term and should not be capped

IO(s) Implementing Organization(s)

IOC Intergovernmental Oceanographic Commission

IODP Integrated Ocean Drilling Program

IODP-MI Integrated Ocean Drilling Program Management International, Inc.

ION International Ocean Network

ion-exchange reactions

IOP (1) International Organization of Paleobotany; (2) Indian Ocean Panel [JOIDES]

IP (1) induced polarization; (2) initial production; (3) index properties

IPA (1) International Palaeontological Association; (2) isopropyl alcohol [science]

IPAA Independent Petroleum Association of America

IPG Institut de Physique du Globe (France)

IPLT integrated porosity-lithology tool string

IPOD International Phase of Ocean Drilling

IQSY international years of the quiet sun

IR (1) iron roughneck [drilling]; (2) infrared [science]; (3) insoluble residue; (4) *Initial Reports of the Proceedings of ODP* [publications]

IRD (1) ice-rafted debris; (2) Institut de Recherche pour le Developpment

IRIS infrared interferometer spectrometer

IRM isothermal remanent magnetization [science]

IS information system(s) [computers]

ISA (1) Instrument Society of America; (2) infrared spectrometric sulfur analyzer

iSAS Interim Science Advisory Structure

ISBN International Standard Book Number (see also "ISSN"-#1)

ISC Information Service Center

ISD Information Services Department [ODP]

ISEE International Society for Environmental Education

ISG International Stratigraphic Guide

iso... isobutane, isopentane, etc.

ISONIC IDEAL Sonic-While-Drilling tool

ISOW Iceland Sea Overflow Water

ISP Initial Science Plan

ISRM International Society for Rock Mechanics

ISS ion-scattering spectrometry [science]

ISSEP Interior Science Steering and Evaluation Panel

ISSN (1) International Standard Serial Number (see also "ISBN"); (2) International Subcommission on Stratigraphic Nomenclature

IT information technology [computers]

ITCZ Intertropical Convergence Zone

ITRM inverse thermo-remanent magnetization

ITT interval transit time

ITZ imbricate thrust zone

IUCr International Union of Crystallography

IUGG International Union of Geodesy and Geophysics

IUGS International Union of Geological Sciences

IUHPS International Union of the History and Philosophy of Science

IW interstitial water (sample designation) [curation]

ODP/IODP Dictionary: J

Revised 8/2009

J joule

JAMSTEC Japan Agency for Marine-Earth Science and Technology

Janus USIO database system (pre-Expedition 320)

jars any downhole device that imparts a "jar" or blow to a stuck drill-string or wireline component

J-CORES Japanese database system

JCPDS Joint Committee on [X-ray] Powder Diffraction Standards

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

J-DESC Japan Drilling Earth Science Consortium

Jean Charcot French research vessel

jet in [v.] to advance a hole without rotation and by means of fluid circulation only; used to set reentry-cone/conductor-casing strings because rotation would damage the large, heavy reentry-cone assembly

jet-in [adj.] a jet-in test is conducted at the exploratory hole for each reentry site

JFR Juan de Fuca Ridge

JOI Joint Oceanographic Institutions, Inc.

JOI Alliance USIO (JOI, LDEO, and TAMU)

JOI-BoG JOI Board of Governors [JOIDES]

JOIDES Joint Oceanographic Institutions for Deep Earth Sampling

JOIDES Resolution or *Resolution*

joint length of pipe, usually 20-45 ft (6-14 m) in length; lengths of drill pipe or tubing less than 20 ft are known as pup joints

JPIO Japan Implementing Organization

JPL Jet Propulsion Laboratory

junk any unwanted object or material, usually metal, in a hole; junk is a hazard to drilling and coring tools and often must be fished

junk basket device for fishing small pieces of junk

junk mill (see "mill")

junk sub (also "boot basket", "trophy sub", "skirted sub"); a sub located just above the bit and designed with side pockets to catch small bits of junk during the drilling/coring operation

Jur. Jurassic

ODP/IODP Dictionary: K

Revised 8/2009

K (1) Kelvin; (2) potassium

k low-field magnetic susceptibility

k.y. thousand years; used to express duration or interval of time

K/T Cretaceous/Tertiary boundary [science]; also K/P: Cretaceous/Paleogene

ka thousands of years before the present

KB (1) kelly bushing [drilling]; (2) kilobyte

kb (or kbar) kilobar

kcal kilocalorie

KCC Kochi Core Center Repository

KCN K₂O-CaO-Na₂O triangular plot

KE kinetic energy

Kelly hose length of flexible hose that extends from the gooseneck to the swivel for circulation of the drilling fluid

kelly in conventional rotary drilling, the uppermost component of the drill string; the kelly is an extra-heavy joint of pipe with flat or fluted sides that is free to move vertically through a "kelly bushing" in the rotary table; the kelly bushing imparts torque to the kelly and thereby the drill string is rotated; on *JOIDES Resolution*, the kelly is replaced by the top drive and a length of "knobby" drill pipe

kerf in coring, the "wall" of the core bit between its outside diameter and the core diameter

KFZ Kane Fracture Zone [science]

kg kilogram

kHz kilohertz

KIGAM Korea Institute of Geoscience and Mineral Resources

Kimm. Kimmeridgian

Kinley wireline cutter and crimper devices to cut and/or crimp coring or logging line downhole if tools become stuck

kips kilopounds

kJ kilojoule

km kilometer

km/s kilometers per second

knobby joints (also "heavy-wall drilling joints") special drill-pipe joints machined from drill collar stock; 8-in. hubs are spaced at 5-ft intervals to distribute bending stresses as the pipe is bent through the guide horn when the vessel rolls or is displaced off the hole

Koenigsberger ratio The ratio of the remanent magnetization to magnetization induced by the Earth's field. Its symbol is Q.

kPa kilopascal unit of pressure

KREEP Lunar rock type high in potassium (K), rare-earth elements (REE), and phosphorus (P)

kt knot(s) nautical speed unit

KTB German continental deep-drilling project

kV kilovolt

KWG Kerguelen Working Group [JOIDES]

ODP/IODP Dictionary: L

Revised 8/2009

L liter

L* lightness factor; color reflectance parameter

LA last appearance (biostratigraphy)

LAAD last abundant appearance datum

labstack

LAD last-appearance datum (biostratigraphy) [science]

LA-ICP-MS laser ablation-inductively coupled plasma-mass spectrometry

LAMMA laser microprobe mass analysis

LAN local-area network [computers]

landmass (n.)

LANDSAT (usually "Landsat") land satellite

LANL Los Alamos National Laboratory (U.S.)

LAS (1) laboratory automation system [science]; (2) log ASCII standard [file format]

LASER light amplification through stimulated emission response

LAST lateral-stress tool [logging]

lay down LD (also "lay out") take out of service; stop using

layer-cake geology

lb pound

LBL Lawrence Berkeley Laboratory (U.S.)

LCAL caliper (HLDS, borehole diameter measurement) [logging]

LCD liquid crystal display [computers]

LCO (1) last common occurrence; (2) last consistent occurrence

LD lay down [drilling]

LDC low detrital carbonate (events)

LDEO Lamont-Doherty Earth Observatory (formerly LDGO)

LDEO-BRG Lamont-Doherty Earth Observatory Borehole Research Group

LDGO Lamont-Doherty Geological Observatory (now LDEO)

LDO laminated diatom ooze

LDRZ landward-dipping reflector zone

LDT lithodensity logging tool [logging]

LDW Lower Deep Water

LECO brand name of the carbon/carbonate analyzer

LED light emitting diode

LEED low-energy electron diffraction

left-coiling (adj.)

LEGS database program to write reports with leg, site, hole, and core-recovery information [ODP]

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

LEL lower expansive limit [safety]

LENAD feldspathoidal "standard" minerals (leucite and nepheline)

LFV lockable float valve [drilling]

LGH lower guide horn

LGHF Laboratoire de Géophysique et Hydrodynamique en Forage
LGM Last Glacial Maximum
L-group low Fe-content chondrite
LH left hand [drilling]
LIF laser-induced fluorescence
LILE large ion lithophile element [science]
LIP large igneous province
LIS (1) log information standard; (2) Laurentide Ice Sheet
lithologic Units I and II
LITHP Lithosphere Panel [JOIDES]
LLD deep laterolog [logging]
LL-group low total Fe- and low metallic Fe-content chondrite
LLS shallow laterolog [logging]
LMWFA low molecular weight fatty acids
LO (1) laboratory officer [ODP]; (2) last occurrence (biostratigraphy) [science]
log-core correlation tool
logging-while-drilling LWD
LOI loss on ignition
long-core measurements
loran long-range navigation (a radio position-fixing system)
low latitude (n.); low-latitude (adj.)
lowstand
LPG liquefied petroleum gas
LPI Lunar and Planetary Institute (U.S.)
LPTM The Late Paleocene Thermal Maximum (also called the Paleocene/Eocene Thermal Maximum [PETM])
LREE light rare-earth element(s) [science]
LRF LWD depth below rig floor
LRL Lawrence Radiation Laboratory (U.S.)
LRP long-range plan [JOIDES]
ls limestone
LSB lower support bearing [drilling]
LSF LWD depth below seafloor
LSR linear sedimentation rate
LSS Long Spacing Sonic tool
LSW Labrador Sea Water
LTBMS Long-Term Borehole Monitoring System
LTSZ large thrust slice zone
LUBR Leicester University Borehole Research
LV left valve
LVL low-velocity layer
LVZ low-velocity zone
LW low water
L-wave long (surface) wave
LWC logging while coring; logging-while-coring (adj. only)
LWD logging while drilling; logging-while-drilling (adj. only)

ODP/IODP Dictionary: M

Revised 8/2009

M molar (also the SI prefix for mega; thus 10⁶ yr, for example, may be preferable in some instances to avoid confusion)

m.y. million years; used to express duration

m/m.y. meters per million years (accumulation rate)

mA milliampere

Ma millions of years before the present

Maast. Maastrichtian

MABS muscovite-almandine-biotite-sillimanite (geobarometer)

Mac Apple Macintosh computer [computers]

MAC Mineralogical Association of Canada

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

mafic Mg- and Fe-rich

magnaflux trade name for electromagnetic inspection given to BHA connections at least once per leg to check for fatigue cracks and other flaws in the threaded areas make up to screw a threaded connection together; to assemble

magnetic field [n., adj.]

magnetic susceptibility [n., adj.]

major element [n., adj.]

MAK Makanchi seismic array

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

MARE Marine Environmental Sciences

MARK Mid-Atlantic Ridge Kane Fracture Zone [science]

MARUM Center for Marine Environmental Sciences

MAS magic-angle spinning

MASCON mass concentration (a large-scale high-density lunar mass)

MASH MgO-Al₂O₃-SiO₂-H₂O system

mass flow

mass-gravity flow deposits

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

MATMAN ODP (materials management) inventory database system [logistics]

matrices

matrix-supported

MAXIS multi-tasking acquisition and imaging system [logging]

Mb megabit

MB megabyte

mb millibar

Mba megabar

MBR mechanical bit release [drilling]

mbr member (stratigraphy)

mbrf meters below rig floor [drilling]

mbsf meters below seafloor [science]

mbsl meters below sea level [science]
MCAS MgO-CaO-Al₂O₃-SiO₂ system
MCD caliper tool; measures hole diameter [logging]
mcd meters composite depth
Mcf thousand cubic feet
MCG Miscellaneous Crenarchaeotal Group
MCM Schlumberger Minimum Configuration Maxix
MCR methyl coenzyme-M reductase
MCS (1) multichannel seismic [science]; (2) multichannel sonic (12-channel) logging tool [logging]
MCT motor-control transformer [drilling]
M-D Martin-Decker rig-weight indicator [drilling]
md millidarcy
MDCB motor-driven core barrel (replaces NCB) [drilling]
MDF median destructive field
MEG multiple-access expandable gateway
meltwater
MEM maximum entropy method
mesotech sonar scanning sonar system manufactured by Mesotech, Ltd.; used on the VIT in conjunction with the Colmek TV for reentry and seafloor survey purposes
Mesoz. Mesozoic
MESTB micro-electrical scanner tool
METS marine emergency technical squad
MEXT Ministry of Education, Culture, Sports, Science, and Technology (Japan)
MF (1) molecular formula; (2) metal factor
MG marin gräns (maximum stand of sea)
mg milligram
mGal milligal
mgd million gallons per day: rate of water flow
MGT Multi-Senor Spectral Gamma Ray Tool
MGUS Mathematical Geologists of the United States
MH Fe₃O₄-Fe₂O₃ buffer
MHHW mean higher high water
MHS message-handling system [computers]
MHW mean high water
MHWN mean high-water neap
MHWS mean high-water spring
MHz megahertz
mHz millihertz
MI mafic index
mi² square miles
MIB management information base [computers]
microbreccia
microcomputer
microcore

microcross-lamination

microcycles

microfault(ing)

microfauna

microflaser

microfossils

microfractures

micron micrometers (μm)

micronodules

microresistivity

microslumps

microtectonic

microunits

midcontinental

Middle America Trench

midlatitude

mid-ocean, mid-oceanic

midpoint

midslope

Milankovitch cyclicity

mill (also "junk mill"); cutting device, usually faced with tungsten carbide, used to reduce junk or a fish to small particles that can be removed from the hole by fluid circulation

MIMS magnetic ion mass spectrometer

min minute(s)

mine riser pipe structure, usually with some self buoyancy, suspended below the rig and connected to the wellhead, effectively extending the casing string to the rig for purposes of fluid circulation and reentry into the wellbore

minicore

minor element [n., adj.]

Mio. Miocene

MIR subsensibile

MIS (1) management information system(s) [computers]; (2) marine oxygen isotope stage; (3) marine isotope stage

ML microlog [logging]

mL milliliter (use instead of cc)

MLLW mean lower low water

MLW mean low water

MLWN mean low-water neap

MLWS mean low-water spring

mm millimeter

mM millimole/liter

MM scale modified Mercalli scale (earthquake characterization)

MMcf/d million cubic feet per day

mmol millimoles

MMS Minerals Management Service (of U.S. Department of the Interior)

Mn (1) mean range (between mean high and mean low water); (2) symbol for manganese

MN magnetic north

MOCNESS multiple opening/closing net and environmental sensing system

modeling

MODU Mobile Offshore Drilling Unit

MOHO Mohorovicic seismic discontinuity [science]

Mohole a hypothetical drill hole that was to penetrate the Moho

Mohorovicic

mol mole

mol% molar percent

molluscan (adj.)

mollusk (noun)

Molspin spinner magnetometer (MSM)

MOM Transocean Sedco Forex's Marine Operations Manual [ship]

monkey board small work platform in the derrick occupied by the derrickman when drill collars or other tubulars are being set back vertically in the derrick

moonpool circular opening through the center of the drillship, extending from the main deck through the keel, through which the drill string passes

MOR mid-ocean ridge

MORB mid-ocean-ridge basalt [science]

MOSFET metal oxide silicon field effect transistor

MOST Ministry of Science and Technology (PR China)

MOU Memorandum of Understanding

mousehole temporary holding tube located just to port of the rotary table; the mousehole is used to hold one or more joints of drill pipe while a joint is made up to or disconnected from the top drive

MP melting point

MPa megapascal

MPN most probable number method

MREE middle rare earth elements

MRM magnetometric resistivity method

MRT maximum-reading thermometer [science]

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

ms bsf milliseconds below seafloor

MSA Mineralogical Society of America

msb meters subbasement

MSCL multisensor core logger

MSDC Mass Spectrometry Data Centre

MSDS (1) Marine Science and Development Shop (SIO) [logistics]; (2) Material Safety Data Sheet [OSHA]

MSIS mass spectrometer incoherent scatter

MSL magnetic susceptibility logger

msl mean sea level (also MSL)

MSM (1) Molspin spinner magnetometer; (2) magnetic susceptibility meter

MSP (1) point magnetic susceptibility; (2) master sampling plan (defunct term, replaced by FCSP) [curation]; (3) Mission Specific Plan

MSS minimum signal strength

MSS multispectral scanner

MST multisensor track [science] OR Material Services team

MT (1) marine technician [ODP]; (2) empty

mT millitesla (unit of magnetism)

MTF multiple toolface

MTL (1) mean tide level; (2) median tectonic line; (3) miniaturized temperature data logger

MU make up [drilling]

mud clast [n., adj.]

mud drilling mud; a fluid, either water- or oil-based, used in drilling operations, with clay, polymer, barite, or a variety of other substances added to alter its physical and/or chemical properties

mud motor also Positive Displacement Motor (PDM), Navidrill, Dynadrill, etc.; a downhole motor operated by pumping drilling mud or water through it; mud motors are used for applications in which it is not desirable to rotate the entire drill string

mud sweep (also "pill" or "slug"); a small batch of high-viscosity drilling mud circulated through the hole/drill-string annulus to clean cuttings and debris from the hole

mudline [n., adj.]

multi- all multi combinations are not hyphenated, except when i is doubled

multichannel

multilog

multisensor track MST

multishot (also "Eastman Multishot"); mechanical magnetic orientation device used in the sinker bar assembly of the coring line to collect orientation data for APC cores and for drift shots during deeper coring/drilling operations

MW molecular weight

MWC measurement while coring [drilling]

MWD measurement while drilling [drilling]

MWL mean water level

ODP/IODP Dictionary: N

Revised 8/2009

NAD nonaxial-dipole

NAIW North Atlantic Intermediate Water

N newton (unit of force)

N number

n. gen. new genus (also *gen. nov.* ‹Latin)

n. sp. new species (also *sp. nov.* ‹Latin)

NAA neutron activation analysis

NAAG-DPG North Atlantic-Arctic Gateways Detailed Planning Group [JOIDES]

NACSN North American Commission on Stratigraphic Nomenclature

NAD North American datum

NADW North Atlantic Deep Water [science]

NAEP National Association of Environmental Professionals

NAGT National Association of Geology Teachers

NAMOC Northwest Atlantic Mid-Ocean Canyon [science]

NAMS North American Micropaleontology Section (of SEPM)

nannofossil ooze

nannoplankton

nanopure water

NanTroSEIZE Nankai Trough Seismogenic Zone Experiment

NAP nonarborescent pollen

NAPC North American Paleontology Convention

NARM-DPG North Atlantic Rifted Margins Detailed Planning Group [JOIDES]

NAS National Academy of Science

NASA National Aeronautics and Space Administration

natural gamma ray NGR

naut. nautical

Nautil submersible craft

NBS National Bureau of Standards (now NIST)

n-butane normal isomer of butane

NCB Navidrill core barrel (replaced by MDCB) [drilling]

near-infrared [n.; adj.]

nearshore

near-surface [adj.]

needle probe [n., adj.]

Neog. Neogene

NERC Natural Environment Research Council (U.K.)

NEREID 'neath seafloor equipment for recording Earth's internal deformation

NESTA National Earth Science Teachers Association

NF normal faults

NFG not functioning good; useless

NFS network file system [computers]

NGA natural gas analyzer [science]

NGDC National Geophysical Data Center (of NOAA)
NGR (1) nuclear gamma resonance (= Mössbauer spectroscopy); (2) natural gamma ray
NGRL Natural Gamma Radiation Logger
NGS (1) National Geodetic Survey; (2) Norwegian Greenland Sea
NGT Natural Gamma Ray Spectrometry Tool
NIH National Institutes of Health (U.S.)
nIR near infrared
NIST National Institute of Standards and Technology (U.S.) (formerly NBS)
nm nanometer
NMDC nonmagnetic (stainless steel) drill collar [drilling]
nmi nautical mile [science and boating]
NML nuclear-magnetism log
NMNH National Museum of Natural History (Smithsonian Institution)
NMO normal moveout
N-MORB normal mid-ocean-ridge basalt
NMR (1) Nuclear Magnetic Resonance; (2) natural remanent magnetization
NMRS high-sensitivity magnetic field sensor (scalar magnetometer)
NNO Ni-NiO buffer
NOAA National Oceanic and Atmospheric Administration (U.S.) (formerly ESSA)
nonbiogenic
nondeposition (and most other "non" combinations)
nonindurated
NORDQUA Nordic Association for Quaternary Research
norm normative analysis (calculated)
North American plate
North Atlantic Ocean
North Indian Intermediate Water
North Pacific Ocean
NOS National Ocean Survey (U.S.) (formerly USCGS)
NPD North Pacific Diatom (Zone) (biostratigraphy)
NPDW North Pacific Deep Water
NPHI neutron porosity log
NPS National Park Service (U.S.)
NQR nuclear quadrupole resonance
NRC (1) National Research Council; (2) Nuclear Regulatory Commission; (3) National Referral Center (Library of Congress) (U.S.)
NRL (1) Naval Research Laboratory; (2) National Research Laboratory
NRM natural remanent magnetization [science]
NRMT nuclear resonance magnetometer tool
NSB National Science Board (U.S.)
NSERC Natural Science and Engineering Research Council (of Canada)
NSF National Science Foundation (U.S.)
NSO nitrogen, sulfur, oxygen [science]
NSOW Norwegian Sea Overflow Water [science]
NSRDS National Standard Reference Data System (U.S.)

NSS National Speleological Society (U.S.)
NSSDC National Space Science Data Center (U.S.)
NTP nontree pollen
NTS National Topographic System (U.S.)
NUC not-under-command mode [ship condition]
NURE National Uranium Resource Evaluation (U.S.)
NURP National Undersea Research Program
NWTS National Waste Terminal Storage (U.S.)
NWWA National Water Well Association (U.S.)

ODP/IODP Dictionary: O

Revised 8/2009

OA optic axis
OAE ocean anoxic event
OAP optical axial plane
OBH (1) ocean borehole seismometer; also OBHS; (2) ocean-bottom hydrophones
OBS ocean-bottom seismometer [science]
OCB outer core barrel [drilling]
OCC Oceanic Core Complex
OCLC Online Computer Library Center
OCE Division of Ocean Sciences, NSF
OCR (1) optical character recognition [computers]; (2) overconsolidation ratio
OCS outer continental shelf [science]
OD outside diameter
ODL Overseas Drilling Limited
ODMR optically deflected magnetic resonance
ODP Ocean Drilling Program
ODPC ODP Council
ODWG Offset Drilling Working Group [JOIDES]
Oe oersted
OEC optical/electric conversion unit
off shore (adv.)
offlapping
off-scale [adj.]
offset
offshore (adj., not to be used in an adverbial sense)
OG organic geochemistry (sample designation) [curation]
OHP Ocean History Panel [JOIDES]
OI oxygen index [science]
OIB ocean-island basalt; also oceanic island basalt
oilsaver (also "wireline packoff"); device at the top of the drill string to "squeeze" a wireline and prevent leakage from the drill string around the wire; the oilsaver is used to prevent swabbing water onto the rig floor during wireline trips and to permit fluid circulation while wire is inside the drill string
Oki-Daito Ridge
Olduvai
OLE object linking and embedding [computers]
Oligo. Oligocene
OLTP online transaction processing [computers]
OM organic matter [science]
OMDP Ocean Margin Drilling Program [JOIDES]
OMZ oxygen minimum zone
on board [n.] not "onboard"; thus, "aboard ship", not "onboard ship"
onboard [adj.] "an onboard computer"

ONDO ODP Nankai Downhole Observatory
onlap
onloading
ONR Office of Naval Research (U.S.)
onshore [adj.]
on-site [adj.]; **on site** [prep.]
Ontong Java Plateau
ONWI Office of Nuclear Waste Isolation (U.S.)
OOI Ocean Observing Initiative
OOP (1) object-oriented programming [computers]; (2) out of print
OOST out-of-sequence thrust zone
opal-A
opal-CT
OPCOM Operations Committee (now Operations Task Force)
OPEC Organization of Petroleum Exporting Countries
open hole uncased hole
open-marine [adj.]
open-ocean [adj.]
Operation Superintendent a mere mortal charged with the responsibility of implementing the mystical findings of the engineers and producing results
Or orthoclase
organic carbon [n., adj.]
organic matter [n., adj.]
organic-rich
ORI Ocean Research Institute (Japan)
ORION Ocean Research Interactive Observatory Networks
ORNL Oak Ridge National Laboratory (U.S.)
ORP oxidation-reduction potential
ORS Old Red Sandstone
OS (1) operations superintendent [drilling]; (2) operating system [computers]
OSE oblique seismic experiment [science]
OSHA Occupational Safety and Health Administration (U.S.) (not just a small town in upstate Wisconsin)
OsmoSampler
OSMRE Office of Surface Mining Reclamation and Enforcement (U.S.)
OSN Ocean Seismic Network
OSS open-source spectrometer
ostracode
OSU Oregon State University (rarely, Ohio State University; hardly ever, Oklahoma State University)
OSU-FMEC Offshore Service Unit-F-model Modular Configuration MAXIS Electrical Capstan Capable
OT object technology [computers]
OTC Offshore Technology Conference
OTF Operations Task Force
overload

overpressure (same for "under")

overpull

overshot basic type of fishing or retrieving tool with a down-looking skirt that "swallows" the fish or pulling neck of the object to be recovered

OWR Old World Realm (paleogeography)

OWS Ocean Weather Ship Station

ODP/IODP Dictionary: P

Revised 8/2009

(Pt. 2) Part number in References

P pressure

P/U pick up [drilling]

PA (1) Palaeontology Association (British); (2) public-address system

Pa pascal (= 1 newton/meter²)

PAC paleointensity-assisted chronology

pack off to plug the annular space between tubular components or between the hole wall and the drill string (verb)

packer downhole device for sealing the annulus between drill string and open hole, drill string and casing, tubing and casing, etc.; the packer isolates a section of annulus or hole hydraulically for testing, sampling, or production purposes

pack-off device for sealing an annular space, usually at the surface; the seal usually permits relative motion of the wire, rod, or tube (noun)

Palau-Kyushu Ridge

Paleoc. Paleocene

Paleoceanography

paleoequator

Paleog. Paleogene

paleoslope

paleostress

paleowater depth

PANGAEA Publishing Network for Geoscientific and Environmental Data

Parece Vela Basin

PAT power access terminal

Patton Escarpment

PBM permanent benchmark

PBS phosphate-buffered saline

PC (1) personal computer (as in IBM PC) [computers]; (2) program counter; (3) printed circuit [electronics]

pc photocopy

PCA principal component analysis

PCB (1) pressure core barrel (obsolete DSDP tool) [drilling]; (2) printed circuit board; (3) polychlorinated biphenyl

PCD polycrystalline diamond [drilling]; (also PDC)

pcf pounds per cubic foot

PCOM Planning Committee [JOIDES]; (also Pcom)

PCR polymerase chain reaction

PCS pressure core sampler [drilling]

PCSP preliminary cruise sampling plan (brief outline of each sample request accepted, rejected, or deferred at the beginning of each leg) [curation]

PDB Peedee belemnite, a standard for oxygen- and carbon- isotope analyses (from Peedee Formation of South Carolina) [science]

PDC polycrystalline diamond compact drill bit [drilling]
PDCM positive displacement coring motor [drilling]
PDM (1) positive displacement (drilling) motor [drilling]; (2) power distribution module
PDR precision depth recorder [science]
PDRM postdepositional remanent magnetization [science]
PDS picture description standard [file format]
PEC Performance Evaluation Committee [JOIDES]
PEF photoelectric effect; also PEFL (HLDS)
penta-pyncometer
PERC Preliminary Editorial Review Checklist [publications]
percentage when not preceded by numerals
periplatform
perireef
PETM see LPTM
PFT perfluorocarbon tracer
PGE platinum-group elements
PGM (1) platinum-group minerals; (2) platinum-group metals
pH expression of acidity vs. alkalinity (i.e., effective hydrogen ion concentration)
photomicrograph not microphotograph
physical property [adj.]
PI (1) principal (primary) investigator [ODP]; (2) production index [science]
PICG Programme International de Corrélation Géologique
PIE personal interactive electronics [computers]
pig drill pipe internal rust scraper [drilling]
pill (see "slug")
PIMA (1) pattern-induced multiple sequence alignment; (2) portable infrared mineral analyzer
pin male portion of a threaded connection; also a short, unthreaded piece of rod or wire used to position or restrain parts of a mechanism (e.g., a shear pin)
pinch out [v.]; **pinch-out** [n.]
pipe tally record of lengths of all drill-string components kept on the drill floor by the driller and the AD; the "bottom line" for all depth determinations below the drill floor
piperacker automated pipe-handling and storage system located aft of the drill floor and used to store a "working string" of up to 9100 m of drill pipe horizontally in 29-m stands
PIXE particle-induced X-ray emission
plane-polarized light
planktonic (not "planktic")
planktonic foraminiferal biostratigraphy
plate tectonic [n., adj].
Pleist. Pleistocene
PLFA phospholipid fatty acid analysis
Plio. Pliocene
PLUME
PMAG paleomagnetism

PMO Program Member Offices
PMS (1) power-management system [ship]; (2) preventive- maintenance system
PMT Project Management Team
PNMDC pony nonmagnetic drill collar
POC Platform Operations Costs
polar front
POOH pull out of hole (in reality, lift the bit up off the bottom of the hole, not necessarily clear the mud line) [drilling]
pore fluid [n., adj.]
pore water [n., adj.]
port call [n., adj.]
Port. Portlandian
postcruise
postdate
postdepositional
postglacial
postrift
PP physical properties (a.k.a. "fizz props") [science]
ppb parts per billion [science]
ppg pounds per gallon (or lb/gal)
ppm parts per million [science]
ppmv parts per million by volume
PPSP Pollution Prevention and Safety Panel (a.k.a. "Safety Panel") [JOIDES]
ppt (1) parts per thousand (‰ preferred); (2) parts per trillion; (3) precipitate
Precambrian
precruise
predate
predominant [adj.]
predominate [v.]
pre-evaporitic deposits
pre-rift
present-day (adj.)
presite
pressure MPa or kPa
prestack
printout (noun)
PRISM projection and integrated stand alone monitor [computers]
PRO Digital Equipment Corporation PRO-350 or PRO-380 computer (obsolete)
[computers]
profile ES-05
protodécollement
PRR pervasive radial remagnetization
PS Paleontological Society
PSB Porcupine Seabight
PSD pseudosingle-domain (adj.); pseudosingle domain (n.)
PSDIM Publications, Sample, and Data Integration Manager

pseudosection

PSG Project Scoping Group

psi pounds per square inch [science]

psia pounds per square inch absolute

PTFE polytetra-fluoroethylene (generic name for Teflon) (polytetrafluoroethylene according to IUPAC nomenclature)

PTM pulsed telemetry module

PTRM partial thermoremanent magnetization

PTt pressure-temperature-time

PTX pressure-temperature-composition

P-T-X-T pressure-temperature-composition-time

PTZ protothrust zone

PUPPIs pop-up pore pressure instruments

pusher (also " tool pusher", "night pusher", "day pusher", "drilling foreman"); the contractor employee in charge of the entire rig operation at any given time

PVC polyvinyl chloride [logistics]

PVT pressure-volume-temperature

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

PWL *P*-wave logger

PWS (1) pore water sampler [science]; (2) discrete *P*-wave velocity (V_p) sensors PWS1, PWS2, PWS3 on the Hamilton frame probe

ODP/IODP Dictionary: Q

Revised 8/2009

Q ratio Koenigsberger ratio

QA quality assurance

QAIT SlimXtreme Array Induction Tool [logging]

QA/QC quality assurance/quality control

QC quality control

QCC quadrupole coupling constant

QLM quartz-feldspathoid-olivine and ore minerals plot

QSC Quesada sharp contortion

QSST Inline Check Shot Tool

qte quartzite

quad combo string of logging tools, including dual induction, litho- density, neutron, natural gamma ray, sonic [logging]

Quat. Q Quaternary

ODP/IODP Dictionary: R

Revised 8/2009

R correlation coefficient (also R^2 and r)

R/D rig down [drilling]

R/E reentry [drilling]

RAB Resistivity-at-the-Bit tool

rabbit small piece of bar or tubing of known diameter that is passed through tubulars to ensure that they are free of obstructions or diameter restrictions

RAD resistivity attenuation deep measurement

radii plural of "radius"

radio location [n.]; radio-location [adj.]

radio positioning[n.]; radio-positioning [adj.]

radio-location [adj.]; radio location [n.]

radio-positioning[adj.]; radio positioning [n.]

RAM random-access memory [computers]

rare earth [n., adj.]

rare earth element [n., adj.]

rathole temporary holding tube for the kelly/swivel assembly during pipe trips on rigs that are so equipped; on a land rig, a special hole must be drilled for that purpose

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

RBS Rutherford backscattering spectroscopy

RCB rotary core barrel [drilling]

RCOM Research Center for Ocean Margins

RDNA ribosomal DNA

RDX explosive used in pipe-severing system [drilling]

RE rare earth

real time (n.); **real-time** (adj.)

Recent/Modern use "Holocene"

redeposited (and other re-compounds where the vowel is not doubled)

REE rare earth element(s) [science]

reef front [n., adj.]

reefer refrigerated core/sample storage area [curation]

reentrant

reentry cone large (12 ft. diameter) funnel-shaped installation that is anchored in the seafloor by conductor casing on reentry sites. It serves as a conduit for reentry and wellhead for landing and supporting the surface-casing string

reentry the procedure of relocating a previously drilled hole and reinserting the drill string into it

relic [n.]

relict [adj.]

REMPT resonance-enhanced multi-photon ionization spectroscopy

REO rare earth oxide

reoriented

REPSAM repository sampling computer program [curation]
resistivity at the bit (n.); **resistivity-at-the-bit** (adj.) RAB
Reykjanes Ridge
RF (1) representative fraction; (2) radio frequency; (3) reverse fault
RFP request for proposals [ODP]
RFQ request for quotations [ODP]
RFT retrievable formation tester (water sampler) [drilling]
RGB red-green-blue
RHEED reflection high-energy electron diffraction
RHOB bulk density measurement (HLDT) [logging]
RHOM bulk density
RI (1) refractive index; (2) reduction index
ridgetop
rig down [v.]
rig floor [n., adj.]
rig up [v.]
RIH run in hole (actually, lower drill string below the rig floor, not necessarily below the mud line) [drilling]
RIS Rig Instrumentation System
RISC reduced instruction set computing [computers]
riserless vessel (not non-riser)
RK radial coefficient
RKB rotary kelly bushing [drilling]
RM remanent magnetism
RMM retrievable memory module
RMGS low-resolution susceptibility
rms root mean square (e.g., in seismic velocities) [science]
RNA ribonucleic acid
RNAA radiochemical neutron activation analysis
rock saw
Rock-Eval pyrolysis instrument for evaluating source character and maturity of organic matter in rock samples
ROD rich-oil demethanizer
roller-cone bit
ROM (1) read-only memory [computers]; (2) Royal Ontario Museum
ROP rate of penetration in drilling or coring [drilling]
ropesocket means of attaching a cable to its termination
rotary shifting tool actuating tool run on the coring line to shift an internal sleeve in a downhole tool, such as the MBR, DIC, or casing-running tool
roughneck crew member who works on the drill floor; "floorman"
round trip complete operation of tripping the drill string into the hole and back out again (or vice versa)
roustabout crew member who works around the rig but not on the drill floor, usually on maintenance and general labor
ROV remotely operated vehicle [science]
RP rock pressure

RPD redox potential discontinuity

rpm revolutions per minute

rps resistivity phase shift

rRNA (1) ribosomal ribonucleic acid; (2) ribosomal RNA

RS pulling tool overshot device run on the coring line to engage and retrieve inner core barrels and downhole tools; for most applications, it has been replaced by the GS pulling tool

RSA rapid sediment analyzer

RSD relative standard deviation (%)

RSI ripple symmetry index

RSMAS Rosenstiel School of Marine and Atmospheric Science (University of Miami)

RSME root-mean-square errors

RSS regional stratigraphic scale

RST rotary shifting tool [drilling]

RSWG Red Sea Working Group [JOIDES]

RT (1) rotary table [drilling]; (2) round trip of the drill string (= POOH + bit change + RIH)

RTD resistance-temperature device

RU rig up [drilling]

rubber rubber "knot" attached to the drill pipe to provide a "standoff" and protect the pipe by reducing bending stresses when the pipe is positioned in the guide horn

RV (1) right valve; (2) revised version; (3) recreation vehicle

R-wave Rayleigh wave

RZ range zone (biostratigraphy) [science]

ODP/IODP Dictionary: S

Revised 8/2009

S (1) entropy; (2) sieman

s second

s.l. *sensu lato*, broadly defined

s.s. *sensu stricto*, narrowly defined

S/B set back [drilling]

S/N signal-to-noise ratio

SAC Sample Allocation Committee

SAGMEG South African Goldmine Euryarchaeotal Group

salic Si- and Al-rich

SAM (1) shipboard sampling computer program [curation]; (2) scanning Auger microscopy; (3) storage acquisition module

SAMUTL curation program to edit sample databases and write sample reports [ODP]

sand line wireline installed on an auxiliary winch on the drawworks of an oilfield rig; analagous to coring line in ODP operations

sand-sized (adj.)

Sant. Santonian

sapropel an aquatic ooze rich in organic matter believed to be source material for petroleum and natural gas.

SAR sediment-accumulation rate

SAS Science Advisory Structure

SASEC SAS Executive Committee

saver sub very short tubular component made up to and having the same thread as a longer or more valuable component that is connected/disconnected frequently

sawtooth

SBA shipboard analysis (sample designation) [curation]

SBDC seal bore drill collar [drilling]

sbsf seconds below seafloor (amplitude reflection)

SCADA Supervisory Control And Data Acquisition system used with the J/R heave compensator

SCBA self-contained breathing apparatus [safety]

SCCS Subcommission on Carboniferous Stratigraphy

scf/d standard cubic feet per day

SciMP Scientific Measurements Panel (ODP)

SCM sonic core monitor [drilling]

SCR silicon control rectifier [electronics]

SCS single-channel seismic [science]

SCSI small computer system interface [computers]

SCUBA self-contained underwater breathing apparatus [safety]

SCuM sonic core motor

sd sand

SD standard deviation
SDP Sample Distribution Policy [curation]
SDRS seaward-dipping reflector sequence
SDSC San Diego Super Computer Center
SDT Digital Sonic Tool
Sea Beam 2000 (type of equipment)
sea bottom
sea grass
sea ice [n., adj.]
sea level [n., adj.]
SeaBeam (name of company)
seabed
SEDIS Scientific Earth Drilling Information System
seafloor
seafloor-spreading center
seagoing
SeaMARC
seamount
SeaPERC
Seasat sea satellite
sea-surface temperature SST
seaward
seawater
seaway
SECTIONLOG curatorial database for individual core-section histories [ODP]
SEDCO/BP 471 previous registered name of drilling vessel used by ODP; (a.k.a. *JOIDES Resolution*) [ship]
Sediment accumulation [n., adj.]
Sediment accumulation rate SAR
SEG (1) Society of Exploration Geophysicists; (2) Society of Economic Geologists
SEG Y Society of Exploration Geophysicists (file format "Y")
SEIR Southeast Indian Ridge
seismic reflection [n., adj.]
seismic stratigraphic [n., adj.]
seismic stratigraphic log
seismicVISION (Schlumberger logging tool)
seismic wave [n., adj.]
SEM scanning electron microscope [science]
SEM/EDA scanning electron microscope/energy dispersive analysis [science]
semi- (compounds should be closed up unless the vowel is doubled [exception: semiinfinite])
semiinfinite
SEMS seafloor earthquake measurement system
SEPM Society of Economic Paleontologists and Mineralogists (now called Society for Sedimentary Geology)
SERS surface-enhanced Raman spectroscopy

SES sidewall-entry sub (inserted in the drill string when logging) [drilling]
set back to take out of service, stop using; (same as "lay down")
severing operation involved in parting the drill string by means of explosives
SEXAFS surface-extended X-ray absorption fine structure
SF (1) surface freight [logistics]; (2) satellite fix [ship]
SFL spherically focused log (tool name, probably older one) [logging]
SFLU spherically focused resistivity (DIT, DIT-E) [logging]
SFR spherically focused resistivity (DIT-E) [logging]
SG (1) specific gravity (or "sp. gr."); (2) sea ground
SGA Society of Geology Applied to Mineral Deposits
SGCS standard global stratigraphic scale
SGML Standard Generalized Markup Language [computers]
SGPP Sedimentary and Geochemical Processes Panel [JOIDES]
SGR standard gamma ray
SGT Scintillation Gamma Ray Tool
sh shale
shallow-water environment
shatterbox
shear pin a pin, usually metal, designed to fail under a given shear stress for a specific purpose
shear wave [n., adj.]
sheave pulley
SHEED scanning high-energy electron diffraction
shelf edge [n., adj.]
shelf slope [n.] **shelf-slope** [adj.]
shelf-slope break
SHIL Section Half Imaging Logger
shipboard
shiptime
SHMSL Section Half Multisensor Logger
SHOM Service Hydrographique et Océanographique de la Marine
shoran short-range navigation (an electronic position-fixing system)
shore based [n.]; **shore-based** [adj.]
shoreline
short trip any pipe trip short of a round trip; may be done for purposes of checking hole conditions, clearing obstructions from the hole, repositioning the pipe for logging, etc.; (see "wiper trip")
shotpoint
SHRIMP sensitive high-mass resolution ion microprobe
shuck handling/storage scabbard for inner core barrels and other long, cylindrical tools; may be filled with fluid for preservation of tools
SHVG Section Half Velocity Gantry
SI (1) international system of units (Système International d' Unités); (2) Smithsonian Institution; (3) solidification index; (4) saturation index
SIAL silica- and alumina-rich portion of Earth's crust
SID sample investigations computer database [curation]

side-scan sonar

sidewall

SIGF formation capture cross-section (APS)

sill-sediment complex

silt-sized (adj.)

SIMA silica- and magnesium-rich portion of Earth's crust

SIMS secondary-ion mass spectrometry

single single joint of drill pipe or tubing; used to differentiate from a "double" or a "stand," which are two and three joints, respectively

single-bit hole any borehole not planned for reentry and equipped with a reentry-cone installation

single-channel data

sinker bar heavy bar run at the end of a wireline to help keep the slack out and to provide jarring action

SIO Scripps Institution of Oceanography (University of California, San Diego)

SIOSEIS SIO's seismic software

SIPES Society of Independent Professional Earth Scientists

SIR shuttle-imaging radar

SIRM saturation remanent magnetization

SISMITA Sismique Haut Resolution, Bathymetrie et Dragages sure les Pentes
Externes des Recifs de Tahiti

SIT Systems Integrated Training

site survey [n., adj.]

site-approach-survey track chart-

skate wheeled vehicle that runs forward and aft in the track of the piperacker carrying the pin end of a stand of pipe as it is handled in or out of the racker

SLAR side-looking airborne radar

SLIDES database program for smear-slide descriptions [ODP]

slim-hole logging tools

slips tapered segmented bushing with hardened steel teeth for holding the weight of the drill string when it is set down on the rotary table

SLM steel-line measurement (measurement of drill string and BHA with steel measuring tape) [drilling]

slope-apron [adj.]

slts siltstone

slug small batch of mud or drilling fluid; a "pill"

slug the pipe to introduce an amount of weighted mud sufficient to overbalance the system hydrostatically and stop the flow of fluid up the pipe from the borehole

SLWG Sea Level Working Group [JOIDES]

SMDC short monel drill collar (nonmagnetic) [drilling]

SMCS Sample Materials Curation Management System

SME Society of Mining Engineers (of AIME)

smear slide [n., adj.]

SMF standard message format [computers]

SMI sulfate/methane interface

SMOOTH shipboard navigation-plotting program [ODP]

SMOW standard mean ocean water [science]
SMP Shipboard Measurements Panel [JOIDES]
SMS storage-management system [computers]
SMT sulfate-methane transition
SN satellite navigation [ship]
SOC Science Operating Costs
SODV Scientific Ocean Drilling Vessel
SOE special operating expense [JOIDES]
SOEST School of Ocean and Earth Science and Technology (University of Hawaii)
SOHP Sediments and Ocean History Panel [JOIDES]
sonic-induction tool
sonicVISION (Schlumberger logging tool)
SOP (1) Southern Oceans Panel [JOIDES]; (2) standard operating procedure [general]
source rock [n., adj.]
South Florida Basin
Southern Ocean
SOW statement of work [JOIDES]
SP (1) shotpoint (on seismic survey lines) (also S.P.) [science]; (2) spontaneous (self) potential [logging]; (3) superparamagnetic [paleomag]
sp. species
SPC Science Planning Committee
SPE Society of Petroleum Engineers (of AIME)
spear fishing or retrieving tool designed to engage the inside of a tubular object; the male equivalent of an overshot
spm strokes per minute [drilling]
SPOT Système Probatoire d'Observation de la Terre
SPPOC Science Planning and Policy Oversight Committee (operated until April, 2006)
SPR software problem report [computers]
spreite ("spreiten", plural)
sps samples per second
spud-in to start a hole; to begin drilling or coring at the seafloor
sq. square
squeeze cake [n., adj.]
SQUID super-conducting quantum interference device
SR *Scientific Results of the Proceedings of the Ocean Drilling Program* [publications]
Sr strontium
SR-DPG Sedimented Ridges Detailed Planning Group [JOIDES]
SRM (1) standard reference material; (2) superconducting rock magnetometer
SRZ sulfate reduction zone
SS (1) smear slide; (2) seismic stratigraphy
ss sandstone
SSA Seismological Society of America
SSB spinning sidebands
SSDB Site Survey Databank (at LDEO) [JOIDES]

SSEP Science Steering and Evaluation Panel
SSF strike-slip fault
SSH Shipboard Scientist's Handbook
SSP Site Survey Panel [JOIDES]
SSR subsea release cementing system [drilling]
SSS (1) standard stratigraphic scale; (2) sea-surface salinity
SST sea-surface temperature [science] OR internal Ship Systems Team
SSUrDNA small-subunit ribosomal deoxyribonucleic acid
SSW surface sea water
stabber mechanism between the piperacker and the rotary table that restrains the lower end of a stand of pipe and positions it over the skate or over the top of the drill string (depending whether the stand is being picked up or laid down)
stainless steel [n., adj.]
stand three joints of pipe screwed together; the greatest length of pipe that can be handled above the drill floor by the rig
stationkeeping
STEM scanning transmission electron microscope
STM scanning tunneling microscopy
STMSL Special Task Multisensor Logger
STOF tool standoff (APS)
STP (1) standard temperature and pressure; (2) salinity, temperature, and pressure; (3) Scientific Technology Panel
STR South Tasman Rise
strap to measure the length of drill-string components; (also known as "steel-line measurement") (SLM)
strike-slip [adj.]
S_u undrained shear strength
sub any short tubular component, usually in the drill string
subaerial
subangular
subbasement
subbasin
subbottom
subchron
subhedral
subophitic (and other sub- compounds)
subsea
subseafloor
subsequence
Subtropical Divergence
sulfate reduction [n., adj.]
SUMS susceptometer or susceptibility magnetic sonde
SUMT susceptibility magnetic tool
super- (prefixes are closed up)
surface water [n., adj.]
surface-seawater samples

SUSA Subtropical South Atlantic susceptibility

SUSLOG magnetic susceptibility borehole tool

SVP Society of Vertebrate Paleontology

SW sea (salt) water [drilling]

swab cup device run on a wireline and designed to seal against the inside of the drill string or tubing and lift fluid as it is pulled up the pipe

swab to pull fluid up the pipe or into the hole by the piston action of a moving drill string or wireline; may occur inadvertently if the bit, inner core barrel, or wireline tool is moved too fast

S-wave secondary/shear wave [science]

SWD sonic while drilling [n.]; sonic-while-drilling [adj.]

swivelS assembly immediately above the top drive that supports the entire weight of the drill string, acts as thrust bearing to permit rotation, and provides a rotating packoff and entry point for circulation down the drill string; also any component that provides continuity through a wire, tubular string, rod, or shaft while permitting relative rotation above and below

syn- compounds should be closed up (synrift, synsedimentary, etc.)

syn. (1) synonym; (2) synthetic

syndepositional

synrift

synsedimentary

ODP/IODP Dictionary: T

Revised 8/2009

t (1) time; (2) tonne

T ton

TAB time-after-bit [adj.], time after bit [n.]

TAG Trans-Atlantic Geotraverse [science]

TAI thermal alteration index [science]

TAM International manufacturer of packers used in ODP operations

TAMRF Texas A&M Research Foundation

TAMU Texas A&M University

TAP (1) Temperature/Acceleration/Pressure tool [science], (2) Technology Advice Panel

TAS total alkali vs. silica diagram

TAZ Taphronomically Active Zone (actively rifting zone)

tbg tubing [drilling]

TBM temporary bench mark

TC total carbon

TCC telemetry cartridge

TCCB digital telemetry tool [logging]

TCD thermal conductivity detector [science]

Tcf/d trillion cubic feet per day

TCI tungsten carbide inserts [drilling]

TCP/IP networking protocol available on the ship [computers]

TCPA time of closest point of approach [ship]

TD total depth of a hole [drilling]

T/D top drive [drilling]

TDC tapered drill collar

TDK tension device (Schlumberger) [drilling]

TDP TAM drilling packer (obsolete) [logging]

TDS total dissolved solids

TECP Tectonics Panel [JOIDES]

TEDCOM Technology and Engineering Development Committee [JOIDES]

TEM transmission electron microscopy

tensor tool electronic magnetic orientation device incorporated in the sinker bar assembly of the coring line for collecting orientation data for APC cores

terrain region of the Earth's surface considered as a physical feature, an ecologic environment, or a site of some planned activity of man

terrane region where a particular rock or group of rocks predominates

terrigenous matter [n., adj.]

Tert. (T) Tertiary

TFZ Tasman Fracture Zone

TG thermogravimetry

TGA thermogravimetric analysis

TGB temporary guide base [drilling]

TGGE temperature gradient gel electrophoresis [science]
TGS transcontinental geophysical survey
THDM translucent humic degradation matter
thermal conductivity [n.]; **thermal-conductivity** [adj.]
thin section [n., adj.]
THR Tres Haute Resolution
tie point
TIFF tagged image file format [computers]
TIH trip into hole (lower drill string below the rig floor, not necessarily below the mud line, by adding drill pipe) [drilling]
time-rock unit
timescale [n., adj.]
TIMS thermal ionization mass spectrometry [science]
TL thermoluminescence
TLC thin-layer chromatography
TLT temperature-logging tool [logging]
 T_{\max} maximum temperature of hydrocarbon generation during pyrolysis [science]
TMP temperature measurement (HNCS) [logging]
TN total nitrogen
TOB (1) thrown overboard (float test failure) [ship], (2) torque on bit [drilling]
TOBI towed ocean bottom instrument
TOC total organic carbon [science]
toe-of-slope (n.)
TOH trip out of hole (a.k.a. "POOH") [drilling]
tongs large, jointed "wrenches" used by the rig crew to make and break threaded connections in the drill string; largely replaced by the iron roughneck but still used occasionally
tool joint drill-pipe threaded connection; characterized by diameter larger than the tube diameter and a special "upset" providing a transition to the thinner, more flexible section of the tube
tool string [n., adj.]
toolpusher (see "pusher")
top drive electric or hydraulic motor suspended in the derrick that provides primary rotation of the drill string; replaces the rotary table/kelly bushing/kelly system
total inorganic carbon [n., adj.]
total organic carbon
total-count variability
TOTCO drilling-rig instrumentation company
tr trace
TR transit satellite [ship]
trace element (n., adj.)
track line
trade-off
Trans-Mexican Neovolcanic Belt
traveling block large assembly suspended in the derrick and composed of the lower sheave assembly of the main hoisting system, the movable

piston/cylinder portion of the heave compensator, and the connector subassembly

traveltime

trench-wedge [adj.]

T-RFLP terminal-restriction fragment length polymorphism

trip (or tripping) act of assembling/disassembling the drill string to run drilling tools into the hole or to recover them

triple combination [n., adj.]; also triple combo

TRM thermal remanent magnetization [science]

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

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

TSINFO ODP program to track condition and location of ODP thin sections [curation]

TSOP The Society for Organic Petrology

TSP TAM straddle packer, consisting of two packer elements that can be actuated simultaneously to isolate a limited interval of hole [logging]

TSS traditional stratigraphic scale

TSV total support vessel [ship]

TTL transistor-transistor logic

TTR Training through Research

tu University of Texas at Austin

tugger (also "air tugger"); air-operated hoisting winch used extensively in the drill floor and moonpool areas for rigging, hoisting personnel into the derrick, etc.

Tur. Turonian

turnaround

TWT two-way traveltime [science]

Type IV kerogen

ODP/IODP Dictionary: U

Revised 8/2009

UBG used but good

UBI Ultrasonic Borehole Imager

UCSD University of California, San Diego

UCTU underwater cable termination unit

UDI Underseas Drilling, Inc. (now ODL)

UGH upper guide horn [drilling]

UHF ultrahigh frequency

UHT-MSM Ultra-High Temperature-Multi-Sensor Module

ULSEL ultra-long-spaced electric log

UMBRELLA ODP database containing descriptions of all ODP databases [science]

UMI University Microfilms [of theses and dissertations] International

unconformity surface of erosion or nondeposition that separates younger strata from older rocks and represents a significant hiatus.

underpressured

underway (adj.)

underreamer

under way (adv.)

UNDP United Nations Development Program

UNEP United Nations Environment Programme

UNESCO United Nations Educational Scientific and Cultural Organization

Universal Time Coordinated UTC

UNIX

UNOLS University National Oceanic Laboratory System

upcore

upcurrent

updip

upgoing

uphole

upload

upper slope [n., adj.]

upsection

upslope

upward-coarsening sandstone use coarsening-upward sandstone instead (standard in scientific community)

upward-fining layer use fining-upward layers instead (standard in scientific community) (adj.)

URI University of Rhode Island

USAC United States Advisory Committee for Scientific Ocean Drilling

USAP United States Antarctic Program

USARP United States Antarctic Research Program

USBM United States Bureau of Mines

USCG United States Coast Guard

USCGS United States Coast and Geodetic Survey (now NOS)
USDA United States Department of Agriculture
USDOC United States Department of Commerce
USDOI United States Department of the Interior
USEPA United States Environmental Protection Agency
USFS United States Forest Service
USGS United States Geological Survey
USIO United States (U.S.) Implementing Organization
USNEPEC United States National Earthquake Predictions Evaluation Council
USNO United States Naval Observatory
USSAC United States Science Advisory Committee
USSSP United States Science Support Program
U-stage universal stage
UT University of Texas at Austin
UTC Universal Time Coordinated; (also "Coordinated Universal Time") (used in place of "GMT" or "Z")
UTIG University of Texas Institute for Geophysics
UTM projection universal transverse Mercator projection
uv ultraviolet; also UV

UW (1) University of Washington; (2) (also "U/W", "UW") under way (adv.) [ship];
underway (adj.)
UWG underway geophysics laboratory [ship]

ODP/IODP Dictionary: V

Revised 8/2009

V (1) volume; (2) volt

V/H ratio velocity/height ratio

VABM vertical-angle bench mark

vacutainer

VADM virtual arial geodipole moment

Val. Valanginian

var. variety

VAX Virtual Addressing Extended; the name of the computer used to store ODP data [computers]

VCD visual core-description form; database program for visual core descriptions of sedimentary cores [ODP]

V-CDT vs. Canyon Diablo troilite

VDN Vision Density Neutron (tool)

V-door opening in the side of the derrick at the base, shaped like an inverted "V," through which tubular components are moved to and from the drill floor

VE vertical exaggeration

VGP virtual geomagnetic pole

VHA basalt very high alumina basalt

VHF very high frequency

VHN Vickers hardness number

VI vertical interval

VIT (1) vibration-isolated television [drilling]; (2) vibration isolation tool

VLBI very long baseline interferometry

VLH volatile liquid hydrocarbons

VLHPC variable-length hydraulic piston corer (obsolete) [drilling]

V_{\max} maximum velocity

V_p compressional wave velocity

VMS (1) Virtual Memory System (operating system of the VAX computer) [computers]; (2) volcanogenic massive sulfides

vol% volume percent

volcanic glass

volcaniclastic

volcanogenic

volcano-tectonic [adj.]

VPC vibra-percussive corer [drilling]

VPDB Vienna Peedee belemnite

VP-SO Vice President for Science Operations

VP-SP Vice President for Science Planning

VRM (1) viscous remanent magnetization [science]; volcanic rifted margin

VS syringe samling

VSP vertical seismic profile [science]

VSI Versatile Seismic Imager

VSMOW Vienna standard mean ocean water

ODP/IODP Dictionary: W

Revised 8/2009

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

W/L R/E wireline reentry into a reentry cone without a drill ship [drilling]

W/L, WL wireline [drilling]

WAGS wollastonite-anorthite-garnet-silica (geobarometer)

wall rock [n., adj.]

WAN wide-area network [computers]

wash core sample of sediment or rock recovered from an inner core barrel that was in place during a "washing" operation

wash to drill ahead with a coring assembly, making no attempt to retrieve core barrels or recover core; "drill" is the preferred term

washout

water column [n., adj.]

water depth [n., adj.]

water gun

water table [n., adj.] platform around the crown block at the top of the derrick

watermass [n.]

wave stack

wave test

wave tilt

wavefield

waveform

wavefront

waveguide

wavelength

wavenumber

waveshape

wavetrain

WBE Work Breakdown Elements

WBUC Western Boundary Undercurrent

WCC whole-core cryogenic magnetometer

WCR West Coast Repository at SIO [ODP]

WD water depth [ship]

WDC World Data Center

WDS wavelength-dispersive spectrometry

Web site

Weddell Gyre

wellhead

well bore

well log

well-preserved [adj.]

WES Waterways Experiment Station (of COE)

wet bulk [n., adj.] density

wet/dry weight ratios

WG Working Group [JOIDES]

WGC West Greenland Current

WGS World Geodetic System

WHC wireline heave compensator [logging]

Whirl-Pak

WHOI Woods Hole Oceanographic Institution

whole space

whole-core (adj.)

whole-round samples

wideband

WinFrog

wiper trip short trip of the drill string made for purposes of opening a hole that may be restricted by a swelling formation or (where a circulating mud system is used) "wiping" excess mud filter cake from the borehole wall

wireline

wireline trip procedure of lowering the sinker bars on the coring line to retrieve an inner core barrel or other downhole tool; also the lowering and retrieving of a logging tool through the water column with the logging winch

WLBOP small blowout preventer mounted on the swivel and used to contain drill string pressure in APC coring operations (see "BOP")

WLHC system for removing vessel's heave motion from the logging cable during logging operations

WLP wireline packer [drilling]

WLR wireline reentry [drilling]

WLS wireline logging services [logging]

WM wüstite-magnetite buffer

WO (1) weight on bit [drilling]; (2) waiting on iceberg (suspended operations in high latitudes)

Wo wallastonite

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

WOC waiting on cement (suspended operations) [drilling]

WOCE World Ocean Circulation Experiment

WOR water/oil ratio

WORM "write once, read many" laser disk drive [computers]

WOW waiting on weather (suspended operations) [drilling]

WPAC Western Pacific Panel [JOIDES]

WP-DPG Western Pacific Detailed Planning Group [JOIDES]

WRMSL Whole-Round Multisensor Logger

WST Well Seismic Tool (used in VSP experiments) [logging]

WST-3 Three-component Well Seismic Tool

WSTP water-sampling temperature probe and water-sampling temperature-pressure tool

wt% weight percent

WTRO Wyville Thomson Ridge Overflow

ODP/IODP Dictionary: X

Revised (1/2005)

XANES X-ray absorption near-edge structure

XAS X-ray absorption spectroscopy

XBT expendable bathythermograph [science]

XCB extended core barrel [drilling]

XCB/FC extended core barrel flow-control system [drilling]

xI crystal

xIn crystalline

XO crossover (connecting pipe) [drilling]

XPS X-ray photoelectron spectroscopy

X-ray diffraction

X-ray fluorescence

XRD (1) X-ray diffraction [science]; (2) sample designation (or XD) [curation]

XRF (1) X-ray fluorescence [science]; (2) sample designation (or XF) [curation]

ODP/IODP Dictionary: Y and Z

Revised 6/2008

y year

Z Zulu; (also "GMT") replaced by UTC

Z. zone (biological or paleontological)

ZEPOLYF Zone Economique de Polynésie Française

ZGT-index zircon-garnet-tourmaline index (a maturity index for detrital sediments)

z-plane

ZT-index zircon-tourmaline index (as above)

ZTR-index zircon-tourmaline-rutile index (as above)