
Appendix: NanTroSEIZE acronyms¹

Expedition 319 Scientists²

AAI: angular acceleration index
AB: acme beginning
A/D: analog-to-digital
AE: acme end
AF: alternating field
AIST: National Institute of Advanced Industrial Science and Technology
AMO: anaerobic methane oxidation
AMS: anisotropy of magnetic susceptibility
APRS: average annular pressure measurement
APC: advanced piston coring
APCT-3: advanced piston coring temperature tool
APWD: annular pressure while drilling
ARC: Array Resistivity Compensated (tool)
ARM: anhysteretic remanent magnetization
ASR: anelastic strain recovery
AVS: acid volatile sulfide
BBOBS: broadband ocean-bottom seismometer
BGO: bismuth germanate
BHA: bottom-hole assembly
BOP: blowout preventer
bps: bits per second
BSR: bottom-simulating reflector
CARD-FISH: catalyzed reporter deposition–fluorescence in situ hybridization
CBL: cement-bond log
CCD: carbonate compensation depth
CDEX: Center for Deep Earth Exploration
CDP: complex drilling project
CDS: colleted delivery system
CGG: Compagnie Générale de Géophysique
CHNS: carbon-hydrogen-nitrogen-sulfur analyzer
CHNS/O: carbon-hydrogen-nitrogen-sulfur/oxygen analyzer
ChRM: characteristic remanent magnetization
CLSI: core-log-seismic integration
CMC: crown-mounted motion compensator
CMP: common midpoint
CMS: corrected volume magnetic susceptibility
CORK: circulation obviation retrofit kit
CPOs: crystallographic preferred orientations
cps: counts per second
CQG: crystal quartz gauge

¹Expedition 319 Scientists, 2010. Appendix: NanTroSEIZE acronyms. In Saffer, D., McNeill, L., Byrne, T., Araki, E., Toczko, S., Eguchi, N., Takahashi, K., and the Expedition 319 Scientists, *Proc. IODP, 319: Tokyo* (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.319.app.2010
²[Expedition 319 Scientists' addresses.](#)

CT: computed tomography	HNGC: Hostile Natural Gamma Ray Spectrometry Cartridge
DAT: drilling ahead tool	HNGS: Hostile Environment Natural Gamma Ray Sonde
DCS: Data Consulting Services	HPCS: hydraulic piston coring system
DC-SQUID: direct-current superconducting quantum interference device	HRDD: High-Resolution Density Device
DDW: distilled deionized water	HRLA: High-Resolution Laterolog Array
DIC: dissolved inorganic carbon	HRLT: High Resolution Laterolog Array Tool
DICOM: Digital Imaging and Communication in Medicine	HRMS: High-Resolution Mechanical Sonde
DIRM: drilling-induced remanent magnetization	HU: Hounsfield units
DITF: drilling-induced tensile fractures	IAPSO: International Association of Physical Sciences of the Oceans
DLIS: digital logging interchange standard (file format)	IBOP: inline blowout preventer
DNA: deoxyribonucleic acid	IC: ion chromatography
DONET: Dense Oceanfloor Network System for Earthquakes and Tsunamis	ICP-AES: inductively coupled plasma-atomic emission spectroscopy
DP: dynamic positioning	ICP-MS: inductively coupled plasma-mass spectrometry
DPS: dynamic positioning system	ICS: International Commission on Stratigraphy
DSI: Dipole Sonic Imager	ID: inside diameter
DTCO: compressional wave delay time	IDEAL: integrated drilling evaluation and logging
DVTP: Davis-Villinger Temperature Probe	IFREE: Institute for Research on Earth Evolution
DVTPP: Davis-Villinger Temperature-Pressure Probe	IGRF: International Geomagnetic Reference Field
ECD: equivalent circulating density	IL: in-line
EDS: energy dispersive spectrometry	IPL: intact polar lipid
EDTC: Enhanced Digital Telemetry Cartridge	IR: infrared
EMI: electromagnetic interference	IRM: isothermal remanent magnetization
EMS: Environmental Measurement Sonde	ISIP: instantaneous shut in pressure
EMW: equivalent mud weight	JAMSTEC: Japan Agency for Marine-Earth Science and Technology
EPSP: Environmental Protection and Safety Panel	JST: Japan Standard Time
ESCS: extended shoe coring system	KCC: Kochi Core Center
EUE: external upset end	LAC: linear attenuation coefficient
FCO: first consistent occurrence	LAS: log ASCII standard (file format)
FFF: free-fall funnel	LCM: lost circulation material
FID: flame ionization detector	LCO: last consistent occurrence
FISH: fluorescence in situ hybridization	LILE: large ion lithophile elements
FMI: Formation MicroImager	LO: last occurrence
FMS: Formation MicroScanner	LOI: loss on ignition
FO: first occurrence	LOT: leak-off test
FOV: field of view	LWD: logging while drilling (n.), logging-while-drilling (adj.)
FWHM: full widths half maximum	MAD: moisture and density
GC: gas chromatograph	MAXIS: Multitask Acquisition Imaging System
GFZ: GeoForschungsZentrum	mbsf: meters below seafloor
GHSZ: gas hydrate stability zone	MCFL: Mirco-Cylindrically Focused Log
GMI: Geomechanics International	MCS: multichannel seismic
GPIT: General Purpose Inclinometry Tool	MDT: Modular Formation Dynamics Tester
GPS: Global Positioning System	MDT modules:
GPTS: geomagnetic polarity timescale	MRPO: pumpout module
GR: gamma ray (only in figures)	MRPA: dual packer module
GRA: gamma ray attenuation	MRFC: flow control module
GSJ: Geological Survey of Japan	MMS: mass magnetic susceptibility
GVR: geoVISION resistivity tool	MP: mixed processing
HDPE: high-density polyethylene	MPS: monopole <i>P</i> -wave/ <i>S</i> -wave-wide (sonicVISION data filtering sequence; also MP)
HGNS: Highly Integrated Gamma Ray Neutron Sonde	
HLDS: Hostile Environment Litho-Density Sonde	

MS: magnetic susceptibility	SAS: Science Advisory Structure
MSCL: multisensor core logger	SD: standard deviation
MSCL-C: color spectroscopy logger	SEGY: Society of Exploration Geophysicists standard (file format "Y")
MSCL-I: photo image logger	SEM: scanning electron microscope
MSCL-W: whole-round multisensor core logger	SET: sediment temperature
MSPI: multishot shear parametric inversion	SET-P: sediment temperature-pressure
MTL: miniature temperature logger	SFA: slowness frequency analysis
MWD: measurement while drilling (n.), measurement-while-drilling (adj.)	SG: specific gravity
NanTroSEIZE: Nankai Trough Seismogenic Zone Experiment	SMT: sulfate-methane transition (preferred term, replaces SMI; as per G. Wheat, 3/25/08)
NGA: natural gas analyzer	SP: spontaneous potential
NGR: natural gamma ray	SPT: single probe test
NMO: normal moveout	SQUID: superconducting quantum interference device
NRM: natural remanent magnetization	SRM: superconducting rock magnetometer
NT-PMT: NanTroSEIZE Project Management Team	SSE: slow slip events
NVT: nonvolcanic tremor	STC: slowness time coherence
OBS: ocean-bottom seismometer	STP: Science and Technology Panel
OD: outside diameter	SVD: singular value decomposition
OOST: out-of-sequence thrust	SWD: seismic while drilling (n.), seismic-while-drilling (adj.)
OSI: Operations Superintendent	TAB: time after bit
PB: paracme beginning	TC: total carbon
PBS: phosphate-buffered saline	TCD: thermal conductivity detector
PDS: picture description standard (file format)	TD: total depth
PE: paracme end	TEM: transmission electron microscopy
PEF: photoelectric effect	TLD: Three-Detector Lithology Density [tool]
PEX: Platform Express	TN: total nitrogen
PFC: perfluorocarbon	TOC: total organic carbon
PGS: Petroleum Geo-Services	TS: total sulfur
PI: principal investigator	UTC: Universal Time Coordinated
PNMDC: pony nonmagnetic drill collar	UV: ultraviolet
ppb: parts per billion	VAM: Vallourec and Mannesmann
PPC: Power Positioning Device and Caliper Tool	VCD: visual core description
ppmv: parts per million by volume	VE: vertical exaggeration
PSD: power spectral density	VHF: very high frequency
PSDM: prestack depth migration	VIV: vortex-induced vibration
psi: pounds per square inch	VLF: very low frequency
PSTM: prestack time migration	VRM: viscous remanent magnetization
P-T: pressure-temperature	VSI: Versatile Seismic Imager
PTFE: polytetrafluoroethylene	VSP: vertical seismic profile
PWL-D: <i>P</i> -wave logger for discrete samples	WOB: weight on bit
QA: quality assurance	WOW: wait on weather
QC: quality control	XCB: extended core barrel
QMS: quadrupole mass spectrometer	XL: cross-line
RAB: resistivity-at-the-bit (adj.)	XRD: X-ray diffraction
RARS: Riser Antirecoil System	XRF: X-ray fluorescence
RCB: rotary core barrel	
RCP: reducing compound photometer	
RE: reentrance	
RNA: ribonucleic acid	
ROP: rate of penetration	
ROV: remotely operated vehicle	
rpm: rotations per minute	
RSD: relative standard deviation	
SAC: Sample Allocation Committee	
SAFOD: San Andreas Fault Observatory at Depth	

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