

Glossary

$^{21}\text{Ne}/^{22}\text{Ne}$ (low \rightarrow less degassed)

$^3\text{He}/^4\text{He}$ (R/R_a) (high \rightarrow more primitive)

$^{40}\text{Ar}/^{36}\text{Ar}$ (low \rightarrow less degassed)

Ab Initio calculation

Adiabat

Adiabatically

AK135

Amplitude

Andesite

Array seismology

Atmophile

Attenuation

Avalanche

Azimuthal anisotropy

Back-azimuth

Banana-Doughnut kernel

Basalt

Bathymetry

Black body radiation

Boundary layer
Brillouin spectroscopy
Bulk modulus
Bulk Silicate Earth
Bulk sound speed
Carbonaceous chondrite
Chondrite
CI chondrite
Clapeyron slope
Clinopyroxene, Orthopyroxene
CMB – Core Mantle Boundary
Compatible element
Compressional wave
Condensation temperature
Conduction
Convection
Convolution
Critical Rayleigh number
D'' – D-double-prime
Dacite
Degassed Mantle

Depleted Mantle
Depletion
Depth phase
Diamond anvil
Differential travel-time
Diffusion creep
Discontinuity
Discontinuity, 410
Discontinuity, 440
Discontinuity, 520
Discontinuity, 660
Discontinuity, 670
Discontinuity, D''
Dislocation creep
Dome
Dynamic topography
Dynamic, kinematic
Eclogite
Edge-driven convection
Elastic stress
Enriched Mantle

Enstatite meteorite
Entrainment
Equation of state
Equation of state
Eutectic
Focal mechanism
Fréchet kernel
Free-air gravity
Free-slip
Fresnel zone
Fresnel zone
Geochemist
Geodynamicist
Geodynamo
Geoid
Geoid height, anomaly
Geophysicist
Glacial-isostatic adjustment
Gravitational potential
Grey body radiation
HAL – Hot Abyssal Layer

Halfspace cooling
Harmonic degree
Harzburgite
Hashin-Shtrickman bounds
Heat flow paradox
Helium heat paradox
Heterogeneity
Heterogeneous accretion
HIMU, EM-I, EM-II, FOZO, PHEM
Homogeneous accretion
Hot spot
Hugoniot
Hydrostatic geoid
Hydrostatic pressure
IASP91
ICB – Inner Core Boundary
Incompatible element
Internal heating
Inversion
Island arc
Isostasy

Isotope

Isoviscous

JB – Jeffreys-Bullen Earth model

Kernel

Laser heating

Lattice dynamics

Lehmann discontinuity

Liquidus

Lithophile

Lithosphere

Longitudinal wave (P wave)

Love wave

Magnesiowustite

Magnesium number

Major, minor, trace elements

Massif peridotite

Melt depletion

Migration

Missing Argon problem

Moho discontinuity

Molecular dynamics

MORB

Multi-anvil press

Newtonian

Non-hydrostatic pressure

Nusselt number

Olivine

Ophiolite

Ordinary chondrite

Oxygen fugacity

Particle motion

Partition coefficient

Periclase

Peridotite

Perovskite

Phase

Phase change

Phase transition

Pink spectrum

Plume

Plume flux

Plume heat flux

Polarization
Polarization anisotropy
Poloidal
Popping rock
Post-glacial rebound
Post-perovskite phase
Power spectrum
Precursor
PREM – Prelim. Reference Earth Model
Primitive Mantle
Pyrolite
Pyroxenite
Radiation
Radiogenic
Radiogenic ingrowth
Rayleigh number
Rayleigh wave
Rayleigh-Taylor instability
Raytracing
Red spectrum
Reference ellipsoid

Reflection seismology
Refraction seismology
Refractory
Regularization
Reservoir
Resistive heating
Rheology
Rhyolite
Richter roll
Ringwoodite
Scattering
Sectoral spherical harmonic
Seismic anisotropy
Seismicity
Seismologist
Sensitivity kernel
Shear wave
Shear wave speed
Shock melting
Shock wave experiment
Siderophile

Slab graveyard
SNC meteorite
Snell's law
Solid solutions
Solidus
Specific heat
Spectrum
Spherical harmonics
Spinel
Stacking
Static melting
Stealth layer
Strain rate
Stress exponent
Subduction
Synchrotron
Tesseral spherical harmonic
Thermal conductivity
Thermochemical plume
Tomography
Toroidal

Transverse wave (S wave)
Travel-time
Travel-time curve
Travel-time tomography
True polar wander
ULVZ – Ultra-low velocity zone
Variance reduction
Vespagram
Visco-elastic
Viscosity
Viscous stress
Voight-Reuss-Hill average
Volatile
VTI – Vertical Transverse Isotropy
Waveform tomography
White spectrum
Wormogram
Xenolith
X-ray diffraction
Zonal spherical harmonic
I-type granites

S-type granites