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### Acronyms

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### Notes

## *Acronyms*

AB	Alberta Basement (LITHOPROBE)
ACCRETE	(U.S. experiment in the Canadian Cordillera, 1994)
ACEX	Arctic Coring Expedition (2004)
ACORP	Australian Continental Reflection Profiling Program
ACRUP	Antarctica Crustal Profile (1993–1994)
ADC	ADCOH—Appalachian Ultradeep Core Hole (1985)
ADK	Adirondack reflection survey (COCORP 1980–1981)
AFTAC	Air Force Technical Applications Center
AG	Abitibi—Grenville (LITHOPROBE)
AGSO	Australian Geological Survey Organization
ALP75	Alpine Longitudinal Profile (1975)
AMC reflector	Axial Magma Chamber reflector
AMOCO	(Oil company name, USA)
ANCORP 96	Andean Continental Research Project (1996)
ANU	Australian National University
ARKTIS VV/2	Polish expedition to the Antarktis (1999)
ASFA	Arbeitsgruppe für Seismische Feldmessungen und Auswertung (Working Group for Seismic Fieldwork and Interpretation)
ASPER	Airgun and Sonobuoy Precision Echo Recorder
ASTRA	Anisotropy experiment Voronesh Massif, Russia (1991)
AWI	Alfred-Wegener-Institut, Bremerhaven, Germany
BABEL	Baltic and Bothnian Echoes from the Lithosphere (1989)
BALTIC	Finnish BALTIC shield project (1982)
BASIN	North German BASIN reflection project (1996)
BASIX	Bay Area Seismic Imaging Experiment (1991)
BELCORP	Belgian Continental Reflection Program
BGR	Bundesanstalt fuer Geowissenschaften und Rohstoffe, Hannover, Germany
BIRPS	British Institutions Reflection Profiling Syndicate
BMR	Bureau of Mineral Resources, Canberra, Australia
BOHEMA	Bohemian Massif passive seismic tomography project (2001–2003)
BOLIVAR	Broadband Ocean Land Investigation of Venezuela and the Antilles arc Region (2004)
BPI	Bernhard Price Institute (University of Witwatersrand at Johannesburg, South Africa)
BRIDGE	British Mid-Ocean Ridge Initiative
BS	Bachelor of Science
BUMP	Bass Strait Upper Mantle Project (1966)
CALCRUST	California Consortium for Crustal Studies
CARDEX	Caldera and Rift Deep seismic Experiment (1981)
CCSS	Commission on Controlled Source Seismology
CDP	Common depth point
CD-ROM	Continental Dynamics–Rocky Mountains
CEL	CELEBRATION profile

CELEBRATION 2000	Central European Lithospheric Experiment Based on Refraction (2000)
CESAR	Canadian Expedition to Study the Alpha Ridge (1983)
CHP	Charleston reflection survey (COCORP, 1978, and USGS, 1981)
CINCA 95	Crustal Investigations offshore and onshore Nazca plate/Central Andes 1995
CJES	Canadian Journal of Earth Sciences
CMP	Common midpoint
CMRE	Continental Margin Refraction Experiment (1969)
CNIPSE	Linear broadband array (New Zealand 2001–2002)
CNR	Italian National Research Council
COCORP	Consortium for Continental Reflection Profiling
COCRUST	Consortium of Canadian University and Government Crustal Seismologists
CONDOR	Chilean Offshore Natural Disaster and Ocean Environmental Research
COOLE	Caledonian Onshore Offshore Lithospheric Experiment (1985 ff)
COP	Constant Offset Profile
COTCOR	Comparative Transections in Costa Rica project (1996)
CRC	Collaborative Research Center (German Research Association) = SFB (Sonderforschungsbereich)
CROP	Crosta Profonda (Italian continental reflection seismic program)
CRUMP	Carpentaria Region Upper Mantle Project (1966)
CSB	China Seismological Bureau
CSSP	Caledonian Suture Seismic Project (1982)
DACIA PLAN	Danube and Carpathian Integrated Action on Process in the Lithosphere and Neotectonics (2001)
DEKORP	Deutsches Kontinentales Reflexionsseismisches Programm (German continental reflection seismic program)
DEPAS	Deutscher Pool für Aktive Seismologie
DESERT	Dead Sea Rift Transect (2000)
DESIRE	Dead Sea Integrated Research project (2006)
DFG	Deutsche Forschungs-Gemeinschaft (German Research Association)
DIAS	Dublin Institute for Advanced Studies
DICE THROW	(Code name, Rio Grande rift, 1976)
DOBRE	Donbas Refraction and Reflection (1999, 2005–2006)
DOBS	Digital ocean-bottom seismometer
DRACULA	Deep Reflection Acquisition Constraining Unusual Lithospheric Activity (2004)
DRUM	Deep reflections from the upper mantle (BIRPS, 1984)
DSDP	Deep Sea Drilling Project
DSS	Deep seismic sounding
EAGE	European Association of Geoscientists & Engineers
EAGLE	Ethiopia Afar Geoscientific Lithospheric Experiment (2001)
ECCO	Estudio Cortical de la Cuenca Oriental (2001)
ECOGUAY	Estudios de la Estructura Cortical del Escudo de Guayana (1998)
ECOOE	East Coast Onshore-Offshore Experiment (1965)
ECORS	Etude de la Croûte Continentale et Océanique par Réflexion et Réfraction Sismique
ECRIS	European Cenozoic Rift System
ECSOOT	Eastern Canadian Shield Onshore-Offshore Transect (LITHOPROBE)
EDA	(Company name, Canada)
EDGE	(Pacific Gas & Electric experiment off Morro Bay, California, 1986)
EDGE	(Mid-Atlantic seismic experiment off Virginia, 1990)
EDL	Earth Data Loggers
EDZOE	West-Canadian Upper Mantle Seismic Program (1969)
EEC	East European Craton
EGT	European GeoTraverse
ENEL	(Company name, Italy)

ENI-AGIP	(Company name, Italy)
EPLAC	(Brazilian Continental Margin Project, 1992)
ESC	European Seismological Commission
ESCI	Estructura Sismica de la Corteza Iberica (1990s)
ESCIN	Estructura Sismica de la Corteza Iberica Norte (1990s)
ESF	European Science Foundation
ESP	Expanding spread profile
ESTRID	Explosion Seismic Transects around a Rift in Denmark (2004)
ESRU	EUROPROBE Seismic Reflection profiling in the Urals (1993–2003)
ETH	Eidgenössische Technische Hochschule
EUGEMI	European Geotraverse middle part
EUGENO-S	European GeoTraverse North—Southern extension
EUROBRIDGE	(East European craton seismic traverse, 1995, 1996, 1997)
EUROPROBE	European research program, 1990 ff
EXCO	Exchange between Crust and Ocean (1995)
FAMOUS	Franco-American Mid-Ocean Undersea Study
FAST	Geo-Prakla profile across Faeroe-Shetland Trough (1990s)
FENNOLORA	Fennoscandian Long-Range project
FIRE	Faeroe-Iceland Ridge Experiment (1994)
FIRE	Finland deep seismic reflection survey (2001–2003)
FKPE	Forschungs-Kollegium für die Physik des Erdkörpers (Research Consortium for the Physics of the Earth)
FLARE	Geo-Prakla profile across Faeroe-Shetland Trough (1990s)
FSH Hispanoil	(Company name, Spain)
FRUMP	Fremantle Region Upper Mantle Project (1967)
GAA + GAB + GAC	Southern Appalachians reflection (COCORP, 1978, 1979; USGS, 1981)
GEDEPTH	German Deep Profiling of Tibet and the Himalaya (1994)
GEOS	(Company name, USA)
GFT	Georgia-Florida Transect (COCORP, 1983–1985)
GFZ	GeoForschungsZentrum (GeoScienceCenter), Potsdam, Germany
GLIMPCE experiment	Great Lakes International Multidisciplinary Program on Crustal Evolution (1986)
GMM	Gulf of Maine marine reflection (USGS, 1985)
GMP	Grandfather Mountain Profile (USGS, 1979)
G-PRIME	Galapagos marine survey (2000)
GRANIT	Russian Platform seismic transect (1991, Ukraine to Siberia)
GRANU-95	Saxonian Granulite Mountain metamorphic core complex project (1995)
GRAP-88	Ontario–New York refraction experiment (1988)
GRC	Geophysical Research Corporation (U.S. company founded in 1925)
GRID	GRID lines north of Scotland (BIRPS, 1986–1987)
GSC	Geological Survey of Canada
GSC	Global Seismic profiles catalog (computer database/master catalog of 1-D global crustal and mantle structures profiles)
GSI	Geophysical Service Incorporated (U.S. company founded in 1930)
GSN	Global Seismic Network (USA)
GTT	Goettingen seismic station (Germany)
GURALP	Trade name, digital seismic instrumentation
GVR	Great Valley wide angle reflection survey (Princeton, 1982–1984)
HADES	Hatton Deep Seismic project (2002)
HIMPROBE	Himalaya Project from India to Tibet (1990s)
HRC	Hardeman Basin (COCORP, 1975)
HVO	Hawaiian Volcano Observatory
Hz	Cycles per second
IAM	Iberian Atlantic Margins European project (1993)
IASPEI	International Association for Seismology and Physics of the Earth

IBERSEIS	Iberian Massif seismic reflection transect (2001)
ICDP	International Continental Scientific Drilling Program
ICSSP	Irish Caledonian Suture Seismic Project (1982)
IFREMER	Institut Français de Recherche et d'Exploitation de la Mer
IGES	Imperial Geophysical Experimental Survey (Australia, firm name)
IGS	Institute of Geological Sciences, U.K.
IGY	International Geophysical Year (1957)
ILIHA	Iberian Lithosphere Heterogeneity and Anisotropy (1989)
ILP	International Lithosphere Program
INAG	Institut National d'Astronomie et de Géophysique, Paris
INDEPTH	International Deep Profiling of Tibet and the Himalaya (1992 ff)
IODP	Integrated Ocean Drilling Project
IPOD	International Phase of Oceanic Drilling
IRIS	Incorporated Research Institutions for Seismology
ISLE	Irish Seismological Lithospheric Experiment (2002–2003)
ISSA	Integrated Seismological experiment in the Southern Andes (2000)
ISZ	Iapetus Suture Zone
IUGG.	International Union for Geodesy and Geophysics
JAMSTEC	Japan Marine Science and Technology Center
JEDS	Japanese Deep Sea Expedition
JOIDES	Joint Oceanographic Institutions for Deep Earth Sampling
JRC	James River Corridor, Virginia (USGS, 1980–1981)
JTEX	Jemez Tomography Experiment (1993 and 1995)
KAN	Kansas reflection survey (COCORP, 1981)
KIMBA	Kimberley Array, NW Australia (1993–1996)
KMFZ	Killarney-Mallow Fault Zone, Ireland
KRISP	Kenya Rift International Seismic Project (1985, 1990, 1994)
KTB	Kontinentale Tief-Bohrung (Continental Deep Drillhole)
LARSE	Los Angeles Region Seismic Experiment (1994, 1999)
LASA	Large Aperture Seismic Array (1966, 1968)
LASE	Large Aperture Seismic Experiment (1981)
LE	LITHOPROBE East (1988 and 1991)
LEGS	Leinster Granite Seismics (1999)
LIP	Long Island Platform marine survey (USGS, 1979)
LISA	Ligurian Sardinian margins project (1995)
LISPB	Lithospheric Seismic Profile through Britain (1974)
LITHOPROBE	Probing the Earth's Lithosphere (Canadian Research Program)
LOBS	Land-ocean-bottom seismometers
LUST	Lewisian Units Seismic Traverse (NW Scotland, 1976)
MAGMA	East Pacific Rise seismic refraction (1982)
MAMBA	Geophysical Measurements across the Continental Margin of Namibia experiment (1995)
MAMUT	Makran-Murray Traverse (1997)
MARBE	Mid-Atlantic Ridge Bull's Eye (1996)
MARS-66	Magnetband-Apparatur (= Magnetic Tape Recorder) for Refraction-Seismics)
MAVIS	Midland Valley Investigation by Seismology (central Scotland, 1984)
MBA	Michigan reflection survey (COCORP, 1978)
MCS	Multichannel seismic
MELT	Mantle Electromagnetic and Tomography experiment (1996)
MEMSAC	Mega Earth Mobile Seismic Array Consortium
MIN	Minnesota reflection survey (COCORP, 1979)
MIS	Mississippi embayment reflection survey (USGS, 1978–1979)
MOBIL	Measurements over Basins to Image Lithosphere (BIRPS, 1987)
MOIST lines	Moine and Outer Isles Seismic Traverse (BIRPS, 1981)

MONA LISA	Marine and Onshore North Sea Acquisition for Lithospheric Seismic Analysis (1993)
MOOSE	Marlborough Onshore Offshore Seismic Experiment (1994, New Zealand)
MRP	Maine refraction survey (USGS, 1985)
MVE-90	Muenchberg-Vogtland-Erzgebirge seismic reflection experiment (1990, East Germany)
NARS	Network of Autonomously Recording Stations (European GeoTraverse)
NASP	North Atlantic Seismic Project (1972)
NBT	Newark Basin rift Tectonics (USGS, 1984)
NCSN	Northern California Seismic Network
NEC	New Hampshire reflection survey (COCORP, 1980–1981)
NEC	North East Coast line (BIRPS, 1985)
NERC	National Environmental Research Council (Great Britain)
NFP 20	Swiss National-Fond Project (1986 and 1988)
NIGHT	North Island Geophysical Transect (New Zealand, 2001)
NORSAR	Norwegian Seismic Array
NPE	Department of Energy's Nuclear Non-Proliferation Experiment (1993)
NSDP	North Sea Deep Profile (BIRPS, 1984)
NSF	U.S. National Science Foundation
NTS	Nevada Test Site
NVI	Near-vertical incidence seismic reflections
OBH	Ocean-bottom hydrophone
OBS	Ocean-bottom seismometer
OBVSA	Ocean-bottom vertical seismometer array
ODP	Ocean Drilling Program
OFR	Open-File Report
OGS	Osservatorio Geofisico Sperimentale
OMEGA	(Trade name)
OSE	Oblique Seismic Experiment (1977, western Pacific)
OU	University of Oklahoma
OUC + OUP	Ouachita seismic transect (COCORP, 1981; PASSCAL, 1986)
PACE	Pacific to Arizona Crustal Experiment (1985, 1987, 1989)
PAGANINI	Panama basin and Galapagos plume—New Investigations of Intraplate Magmatism (1999)
PANCARDI	Pannonian basin—Carpathians—Dinarides
PASSCAL	Program for Array Seismic Studies of the Continental Lithosphere
PCM	Pulse Code Modulation
PDAS	Trade name of digital instrument
PETROBAS	(Company name, Brasilia)
PISCO 94	Proyecto de Investigaciones Sismologicas de la Cordillera Occidental (1994)
PLP	P-wave reflected from lower lithosphere
PMP, PmP, or P <sup>M</sup>	P-wave reflected from Moho
P <sub>n</sub>	P-wave refracted in upper mantle
PNE	Peaceful Nuclear Explosions
POLONAISE	Polish Lithosphere Onsets—An International Seismic Experiment (1997)
PRAKLA	(Company name, Germany)
PRECORP	Pre-Continental Research Project (Andes, 1995)
PRS-1	Portable Refraction Seismograph PRS-1
PSINE	Parkfield Seismic Imaging Ninety Eight (1998)
PUSSES	Pull-up Shallow-water Seismometers
PVF	Potrillo Volcanic Field (2003 experiment)
QMT	Quebec–Maine reflection Transect (USGS, 1984–1985)
RAMESSES	Reykjanes Axial Melt Experiment: Structural Synthesis from Electromagnetics and Seismics (1993)



RAPIDS	Rockall and Porcupine Irish Deep Seismic project (1988, 1990, 1999, 2002)
RCEG	Research Center of Exploration Geophysics, China
RefTek	(Company name, USA)
RGVE	Romanian Group for Vrancea strong Earthquakes
ROSE	Rivera Ocean Seismic Experiment (1979)
RRISP	Reykjanes Ridge Seismic Project (1977)
SAF	San Andreas Fault
SAFOD	San Andreas Fault Observatory at Depth
SALIERI	South American Lithosphere transects across volcanic Ridges (2001)
SALT	Zechstein SALT profile (BIRPS, 1983)
SALT95	Southern Alberta Lithospheric Transect (Canada, 1995)
SAPSE	Southern Alps Passive Seismic Experiment (1995–1996)
SAREX	South Alberta seismic Refraction Experiment (1995)
SCAS	Southwest Center for Advanced Studies, Dallas, Texas
SCoRE	Southern Cordillera Refraction Experiment (1989–1990)
SCORD9	Southern Cordillera refraction experiment
SCR	Seismic Cassette Recorders
SCREECH	Study of Continental Rifting and Extension on the Eastern Canadian Shelf (2000)
SEISGRECE	French-Greek seismic project (Ionian Sea, 1997)
SEISMARMARA	Seismic marine project in MARMARA Sea (2001)
SEISMOS	(Company name, Germany)
SERIS	Seismic Experiment Ross Ice Shelf (1990–1991)
SFB	SonderForschungsBereich (CRC—Collaborative Research Center of German Research Association)
SGR	Seismic Group Recorders
SHET	Shetland survey (BIRPS, 1984)
SHIPS	Seismic Hazards Investigation of Puget Sound (1998, 1999, 2000, 2002)
SIE	(Company name, USA)
SIGHT	South Island Geophysical Transect (1995–1996)
SIGMA	Seismic Investigation of the Greenland Margin (1996)
SISSE	South Irish Sea Seismic Experiment (1977)
SKIPPY	12-station mobile array in Australia (1993–1996)
SLAVE	Synthetic Large Aperture Velocity Experiment (BIRPS, 1987)
SNORCLE	Slave Northern Cordillera Lithospheric Evolution (LITHOPROBE, 1997)
SNST	Southern North Sea Tie (BIRPS, 1983)
SOHMA	Servicio de Oceanografía, Hidrografía y Meteorología da la Armada, Uruguay
SPOC	Subduction Processes off Chile (2001)
SRGE	Special Regional Geophysical Expedition, Russia
SRI	Stanford Research Institute
SSCD	Southern Sierra Continental Dynamics (1993)
STREAMERS	French marine field project between Italy and Greece (1993)
SUDETES	International seismic project centered on the Sudetes Mountains, Czech Republic-Hungary-Poland (2003)
SVEKA	Finnish field project (1981)
SVEKALAPKO	Svecofennian-Karelian-Lapland-Kola Transect project (1998–1999)
SWAT profiles	Southwest Approaches Traverse (BIRPS and ECORS, 1983)
SWESE	SW England Seismic Experiment (1979)
TACT	Trans-Alaska Crustal Transect project (1984–1990)
TAICRUST	marine seismic project off Taiwan (1995)
TASS	Trans-Australia Seismic Survey (1972)
TASYO	Spanish marine seismic project Gulf of Cadiz (2001)
TCXO	Temperature-compensated oscillator
TECALB	Spanish marine seismic project Alboran Sea (2004)
TESZ	Trans-European Suture Zone

TEXAN	1-component digital instrument
THORE	Trans-Hudson Orogen seismic-refraction experiment (1993)
THOT	Trans-Hudson Orogen Transect (LITHOPROBE, 1991–1994)
TICOSECT	Trans Isthmus Costa Rica Scientific Exploration of a Crustal Transect project (1995)
TIPTEQ	The incoming plate to mega-thrust earthquake processes (2004–2005)
TOR	Teleseismic Tomography Tornquist project (1996–1997)
TRANSALP	Trans-Alpine seismic traverse through Eastern Alps (1998–2001)
TTZ	Tornquist-Teyssere Zone
TXCO	Temperature-compensated internal oscillator
TWT	Two-way travelttime
TVZ	Taupo Volcanic Zone, New Zealand
UNST	Geo-Prakla profile across Faeroe-Shetland Trough (1990s)
URSEIS	Urals Seismic project (1995)
USGS	U.S. Geological Survey
UTEP	University of Texas at El Paso
UWARS	Urals Wide Angle Reflection Seismic experiment (1990s)
VALSIS	Valencia trough marine seismic profiles (early 1990s)
VARNET	Variscan Front Network (1996)
VAULT	Vibroseis augmented listen time (Canada, 1995)
VCO	Voltage-controlled oscillator
VHF	Very high frequency
VOLTAIRE	Spanish marine seismic project Gulf of Cadiz (2002)
VRANCEA	Seismic profiles through seismogenic Vrancea area, Romania (1999–2001)
WAM line	Western Approaches Margin (BIRPS and ECORS, 1985)
WHOI	Woods Hole Oceanographic Institution, USA
WHUMP	Wellington-Hikurangi Upper Mantle Profile (1979)
WINCH lines	Western Isles and North Channel traverse (BIRPS, 1982)
WIRELINES	West of Ireland LINES (BIRPS, 1987)
WISE	Western Isles Seismic Experiment (western Scotland, 1979 and 1981)
WISPA	Weardale Integrated S- and P-wave Analysis (BIRPS, 1988)
WMT	Wichita Mountains reflection survey (COCORP, 1979–1980)
WRAMP	Warramunga Seismic Array Mantle Projects (1966)
WS	Western Superior (LITHOPROBE, 1996)
WWII	World War II
WWV	(National Bureau of Standards Radio Station's time signal, USA)





