

List of Acronyms

AAS	American Astronomical Society
ACF	AutoCorrelation Function
ACU	Antenna Control Unit
ADB	Analog to Digital Board
ADC	Analog to Digital Converter
AER	Atmospheric and Environmental Research, Inc. (USA)
AES	Advanced Engineering Services Co., Ltd (Japan)
AGN	Active Galactic Nuclei
AIPS	Astronomical Image Processing System
AOG	Auxilliary Output Generator
APSG	Asia-Pacific Space Geodynamics program
APT	Asia Pacific Telescope
ARIES	Astronomical Radio Interferometric Earth Surveying program
ASI	Agenzia Spaziale Italiana (Italian Space Agency) (Italy)
ATM	Asynchronous Transfer Mode
ATNF	Australia Telescope National Facility (Australia)
A-WVR	Advanced Water Vapor Radiometer
BBC	Base Band Converter
BdRAO	Badary Radio Astronomical Observatory (Russia)
BIPM	Bureau International de Poids et Mesures (France)
BKG	Bundesamt für Kartographie und Geodäsie (Germany)
BMC	Basic Module of Correlator
BWG	Beam Waveguide
CARAVAN	Compact Antenna of Radio Astronomy for VLBI Adapted Network (Japan)
CAS	Chinese Academy of Sciences (China)
CAY	Centro Astronómico de Yebes (Spain)
CDDIS	Crustal Dynamics Data Information System (USA)
CDP	Crustal Dynamics Project
CGS	Centro di Geodesia Spaziale (Italy)
CIB	Correlator Interface Board
CIP	Celestial Intermediate Pole
CNES	Centre National d'Etudes Spatiales (France)
CNRS	Centre National de la Recherche Scientifique (France)
CNS	Communication, Navigation and Surveillance systems, Inc. (USA)
CODA	Correlator Output Data Analyzer
CORE	Continuous Observations of the Rotation of the Earth
CPO	Celestial Pole Offset
CRAAE	Centro de Rádio Astronomia e Aplicações Espaciais (Brazil)
CRAAM	Centro de Rádio-Astronomia e Astrofísica Mackenzie (Brazil)
CrAO	Crimean Astrophysical Observatory (Ukraine)
CRESTech	Centre for Research in Earth and Space Technology (Canada)
CRF	Celestial Reference Frame

CRL	Communications Research Laboratory (now NICT) (Japan)
CSA	Canadian Space Agency (Canada)
CSIR	Council for Scientific and Industrial Research (South Africa)
CSRIFS	Combined Square Root Information Filter and Smoother
CTVA	Canadian Transportable VLBI Antenna
DAR	Data Acquisition Rack
DAS	Data Acquisition System
DBBC	Digital Base Band Converter
DBE	Digital BackEnd
Δ DOR	Delta Differenced One-way Range
DGFI	Deutsches Geodätisches ForschungsInstitut (Germany)
DISTART	Dipartimento di Ingegneria delle Strutture, dei Trasporti, delle Acque, del Rilevamento del Territorio (Italy)
DLR	Deutsches Zentrum für Luft- und Raumfahrt (German Aerospace Center)
DOM	Data Output Module
DORIS	Doppler Orbitography by Radiopositioning Integrated on Satellite
DR	Dichroic Reflector
DRAO	Dominion Radio Astrophysical Observatory (Canada)
DSN	Deep Space Network
DSS	Deep Space Station
DVLBI	Differential VLBI
ECMWF	European Centre for Medium-Range Weather Forecasts
EGU	European Geosciences Union
ENVISAT	ENVironmental SATellite
EOP	Earth Orientation Parameters
EOP-PC	Earth Orientation Parameter Product Center (France)
ERP	Earth Rotation Parameters
ETSIT	Escuela Técnica Superior de Ingenieros de Telecomunicación
EUREF	EUropean REFerence Frame
EVGA	European VLBI for Geodesy and Astrometry
EVLA	Expanded Very Large Array
e-VLBI	Electronic VLBI
EVN	European VLBI Network
EXPReS	Express Production Real-time e-VLBI Service
FAGS	Federation of Astronomical and Geophysical data analysis Services
FCN	Free Core Nutation
FESG	Forschungseinrichtung Satellitengeodäsie/Technical University of Munich (Germany)
FFI	Forsvarets ForskningsInstitut (Norwegian Defence Research Establishment) (Norway)
FITS	Flexible Image Transport System
FPDP	Front Panel Data Port
FS	Field System
FTP	File Transfer Protocol
FWF	Fonds zur Förderung der wissenschaftlichen Forschung (Austrian Science Fund)

GA	Geoscience Australia (formerly AUSLIG) (Australia)
GAPE	Great Alaska and Pacific Experiment
GARNET	GSI Advanced Radiotelescope NETwork (Japan)
GARS	German Antarctic Receiving Station (Germany)
GEMD	Geospatial and Earth Monitoring Division (Australia)
GeoDAF	Geodetic Data Archiving Facility (Italy)
GEX	Giga-bit series VLBI EXperiment
GFZ	GeoForschungsZentrum (Germany)
GGAO	Goddard Geophysical and Astronomical Observatory (USA)
GGOS	Global Geodetic Observing System
GGP	Global Geodynamics Project
GINS	Géodésie par Intégrations Numériques Simultanées
GISTM	GPS Ionospheric Scintillation and TEC Monitor
GIUB	Geodetic Institute of the University of Bonn (now IGGB) (Germany)
GLONASS	GLOBal NAVigation Satellite System (Russia)
GNSS	Global Navigation Satellite Systems
GPS	Global Positioning System
GREF	German GPS REFerence network
GRGS	Groupe de Recherches de Géodésie Spatiale (France)
GSD	Geodetic Survey Division of Natural Resources Canada (Canada)
GSFC	Goddard Space Flight Center (USA)
GSI	Geographical Survey Institute (Japan)
HEMT	High Electron Mobility Transistor
HPBW	Half Power Beam Width
HSI	High Speed Input bus
HSIR	High Speed Input Replicated bus
HTS	High Temperature Superconductor
HTSI	Honeywell Technology Solutions Incorporated (USA)
IAA	Institute of Applied Astronomy (Russia)
IAG	International Association of Geodesy
IAU	International Astronomical Union
ICRF	International Celestial Reference Frame
IERS	International Earth Rotation and Reference Systems Service
IF	Intermediate Frequency
IGFN	Italian Space Agency GPS Fiducial Network (Italy)
IGG	Institute of Geodesy and Geophysics (Austria)
IGGB	Institut für Geodäsie und Geoinformation der Universität Bonn (Germany)
IGM	Instituto Geográfico Militar (Chile)
IGN	Instituto Geográfico Nacional (Spain)
IGS	International GNSS Service
IISGEO	International Institute for Space Geodesy and Earth Observation
ILRS	International Laser Ranging Service
INAF	Istituto Nazionale di Astrofisica (Italy)
INGV	Institute of Geophysics and Volcanology (Italy)
INPE	Instituto Nacional de Pesquisas Espaciais (Brazil)

IP	Internet Protocol
IRA	Istituto di RadioAstronomia (Italy)
IRIS	International Radio Interferometric Surveying
ISAS	Institute of Space and Astronautical Science (Japan)
ISBN	International Standard Book Number
ISV	Instantaneous State Vector
ITRF	International Terrestrial Reference Frame
IUGG	International Union of Geodesy and Geophysics
IVOA	International Virtual Observatory Alliance
IVS	International VLBI Service for Geodesy and Astrometry
JADE	JApanese DyNamic Earth observation by VLBI
JARE	JApanese AntArctic REsearch Expedition (Japan)
JAXA	JApan Aerospace EXploration Agency (Japan)
JGN	JApan Gigabit Network (Japan)
JIVE	JOint Institute for VLBI in Europe
JLRA	JOint Laboratory for Radio Astronomy (China)
JMA	JApan Meteorological Agency (Japan)
JPL	JEt Propulsion Laboratory (USA)
JSPS	JApanese Society for the Promotion of Science (Japan)
KARAT	KAshima RAy-tracing Tools (Japan)
KASI	KAorea AStronomy and Space Science Institute (Korea)
KAT	KAroo Array Telescope (South Africa)
KPGO	KAokee Park Geophysical Observatory (USA)
KSP	KAyStone Project (Japan)
KSRC	KAshima Space Research Center (Japan)
KVN	KAorean VLBI Network
LBA	LAong BAseline Array (Australia)
LD	LAser Diode
LIEF	LAarge IAInfrastructure and Equipment Funding
LLR	LAunar LAaser Ranging
LNA	LAow NNoise Amplifier
LO	LAocal Oscillator
LOD	LAength Of Day
LSB	LAower Side Band
LSM	LAeast Squares Method
MAO	MAin Astronomical Observatory (Ukraine)
MARBLE	MAultiple Antenna Radio-interferometry for Baseline Length Evaluation
MIT	MAssachusetts Institute of Technology (USA)
MLRO	MAtera LAaser Ranging Observatory (Italy)
MOBLAS	MOBile LASer
MODEST	MODeL and ESTimate
MPI	MAx-Planck-Institute (Germany)
MPIfR	MAx-Planck-Institute for Radioastronomy (Germany)
MTLRS	MOdular TRansportable LAaser Ranging System
NAO	NAtional Astronomical Observatories (China)

NAOJ	National Astronomical Observatory of Japan (Japan)
NASA	National Aeronautics and Space Administration (USA)
NCRIS	National Collaborative Research Infrastructure Strategy (Australia)
NEOS	National Earth Orientation Service (USA)
NetCDF	Network Common Data Form
NGS	National Geodetic Survey (USA)
NICT	National Institute of Information and Communications Technology (Japan)
NIPR	National Institute of Polar Research (Japan)
NMA	Norwegian Mapping Authority (Norway)
NMF	Niell Mapping Function
NNR	No-Net-Rotation
NNT	No-Net-Translation
NOAA	National Oceanic and Atmospheric Administration (USA)
NOFS	U.S. Naval Observatory Flagstaff Station (USA)
NORAD	North American Aerospace Defense Command
NRAO	National Radio Astronomy Observatory (USA)
NRCan	Natural Resources Canada (Canada)
NTT	Nippon Telegraph and Telephone Corporation (Japan)
NVI	NVI, Inc. (USA)
NWP	Numerical Weather Prediction
OAN	Observatorio Astronómico Nacional (Spain)
OCA	Observatoire de la Côte d'Azur (France)
OPAR	Observatoire de Paris (France)
OPC	(IVS) Observing Program Committee
OS	Operating System
OSO	Onsala Space Observatory (Sweden)
PARNASSUS	Processing Application in Reference to NICT's Advanced Set of Softwares Usable for Synchronization
PCAL	Phase CALibration
PFB	Polyphase Filter Bank
PNR	Peak to Noise Ratio
POLARIS	POLar motion Analysis by Radio Interferometric Surveying
PPP	Precise Point Positioning
PRARE	Precise RAnge and Range-rate Equipment
QRHA	Quad-Ridge Horn Antenna
QZSS	Quasi Zenith Satellite System (Japan)
RAS	Russian Academy of Sciences (Russia)
RDV	Research and Development sessions using the VLBA
RFI	Radio Frequency Interference
ROEN	Rádio-Observatório Espacial do Nordeste (Brazil)
RRFID	Radio Reference Frame Image Database
SATA	Serial Advanced Technology Attachment
SDK	Software Development Kit
SDSS	Signal Distribution and Synchronization System
SEFD	System Equivalent Flux Density

SHAO	Shanghai Astronomical Observatory (China)
SINEX	Solution INdependent EXchange format
SKA	Square Kilometer Array
SLR	Satellite Laser Ranging
SPEED	Short Period and Episodic Earth rotation Determination
SRT	Sardinia Radio Telescope (Italy)
SRTM	Shuttle Radar Topography Mission
SSA	Singular Spectrum Analysis
SSAI	Science Systems and Applications, Inc. (USA)
STEREO	Solar TERrestrial RELations Observatory
SvRAO	Svetloe Radio Astronomical Observatory (Russia)
SWT	SW Technology (USA)
TAC	Totally Accurate Clock
TANAMI	Tracking Active galactic Nuclei with Australia Milliarcsecond Interferometry (Australia)
TAO	Telecommunications Advanced Organization (Japan)
TDC	Technology Development Center
TEC	Total Electron Content
TEMPO	Time and Earth Motion Precision Observations
TLE	Two Line Elements
TLRS	Transportable Laser Ranging System
TOW	Technical Operations Workshop
TRF	Terrestrial Reference Frame
TTW	TWIN-Telescope Wettzell (Germany)
UBB	Universidad del Bío Bío (Chile)
UD	Upper Diagonal
UDC	Up-Down Converter
URSI	Union Radio-Scientifique Internationale
USB	Upper Side Band
USNO	United States Naval Observatory (USA)
UT	Universal Time
UT1	Universal Time
UTAS	University of TASmania (Australia)
UTC	Coordinated Universal Time
VC	Video Converter
VCS	VLBA Calibrator Survey
VDBE	VLBA Digital BackEnd
VERA	VLBI Exploration of Radio Astrometry
VLA	Very Large Array (USA)
VLBA	Very Long Baseline Array (USA)
VLBI	Very Long Baseline Interferometry
VMF	Vienna Mapping Functions
VO	Virtual Observatory
VSI	VLBI Standard Interface
VSI-H	VLBI Standard Interface Hardware

VSOP	VLBI Space Observatory Program
VSSP	Versatile Scientific Sampling Processor
VTRF	VLBI Terrestrial Reference Frame
WACO	WashingtON COrrrelator (USA)
WVR	Water Vapor Radiometer
WWW	World Wide Web
XDM	eXperimental Development Model
ZcRAO	Zelenchuiskaya Radio Astronomical Observatory (Russia)
ZTD	Zenith Total Delay
ZWD	Zenith Wet Delay