

## Appendix 5: Acronyms

AAM	Atmospheric Angular Momentum		
AAS	American Astronomical Society	CEDR	Center for Earth Dynamics Research
AC	Analysis Centre	CERGA	Centre d'Etudes et de Recherches Géodynamiques et Astronomiques
AC	Analysis Coordinator		
AGN	Active Galactic Nucleus [or Nuclei]	CfP	Call for Participation/Proposals
AGU	American Geophysical Union	CGS	Centro di Geodesia Spatiale, ASI
ANDE-		CICGE	Centro de Investigação em Ciências Geo-Espaciais
RRA	Atmospheric Neutral Density Experiment Risk Reduction - Active [component]	CIP	Celestial Intermediate Pole
		CLS	Collecte Localisation Satellites
ANDE-		CMS	Content Management System
RRP	Atmospheric Neutral Density Experiment Risk Reduction – Passive [component]	CNES	Centre National d'Etude Spatiale
		CODATA	Committee on Data for Science and Technology
AOD	atmospheric and oceanic dealiasing	CODE	Centre for Orbit Determination in Europe
APC	associated product center		
APKIM	Actual Plate Kinematic and crustal deformation Model	CoG	center of gravity to effective reflection surface
		CONT	continuous VLBI session
APSG	Asia-Pacific Space Geodynamics	COSPAR	Committee on Space Research
AR	autoregressive	CPP	IERS Combination Pilot Project
ASI	Agenzia Spaziale Italiana	CRC	Combination Research Centre
AUS	= AUSLIG	CRD	Consolidated Laser Ranging Data Format
AUSLIG	Australian Surveying and Land Information Group (now: Geoscience Australia )	CRD	CRF deepsouth [sessions]
		CRF	Celestial Reference Frame
AWG	Analysis Working Group	CRMS	CRF mediansouth [sessions]
BIH	Bureau International de l'Heure	CSR	Center for Space Research, University of Texas
BIPM	Bureau International des Poids et Mesures		
		DB	Directing Board
BKG	Bundesamt für Kartographie und Geodäsie	DBBC	Digital Base Band Converter
		DBE	digital backend
BLITS	Ball Lens In The Space [spacecraft]	DDA	AAS Division on Dynamical Astronomy
BMBF	Bundesministerium für Bildung und Forschung, Germany	DE	JPL Development Ephemeris
		DE, DEC	declination
BNC	[GGOS] Bureau on Networks and Communication	Dept.	Department
		DGFI	Deutsches Geodätisches Forschungsinstitut
BVID	Bordeaux VLBI Image Database		
CATREF	Combination and Analysis of Terrestrial Reference Frames	DIS	IERS Data and Information System
		DOGS	DGFI Orbit & Geodetic Parameter Estimation Software
CB	Central Bureau		
CC	Combination Centre	DOMES	Directory Of MERIT Sites (originally; now of more general use)
CCD	Charge-Coupled Device		
CDAS	Chinese VLBI Data Acquisition System	DORIS	Doppler Orbit determination and Radi-
CDDIS	NASA Crustal Dynamics Data Informa-		

## Appendices

	opositioning Integrated on Satellite	GEOSS	Global Earth Observation System of Systems
DSS	Digitized Sky Survey	GFZ	GeoForschungsZentrum Potsdam
DUT1	= UT1–UTC	GGF	global geophysical fluids
ECCO	Estimating the Circulation and Climate of the Ocean	GGFC	Global Geophysical Fluids Centre
ECMWF	European Center for Medium Range Weather Forecasting	GGFC-OC	GGFC Operational Component
EDC	EUROLAS Data Center	GGFC-	
EGU	European Geosciences Union	SSC	GGFC Science Support Component
ELP	Ephemeride Lunaire Parisienne	GGOS	Global Geodetic Observing System
EMR	Energy, Mines and Resources Canada (replaced by NRCan)	GGOS-D	GGOS – Deutschland (Germany)
ENSG	Ecole Nationale de Sciences Geographiques	GINS	Geodesy by Simultaneous Digital Integration [software]
EO	Earth orientation	GIQC	Gaia Initial Quasar Catalogue
EOC	Earth Orientation Centre	GLDAS	NASA's Global Land Data Assimilation System
EOP	Earth Orientation Parameters	GLONASS	GLObal'naya NAVigatsionnay Sputnikovaya Sistema [Global Orbiting Navigation Satellite System, Russia]
ERIS	Earth Rotation Information System	GMF	Global Mapping Function
ERP	Earth Rotation Parameters	GNAAC	Global Network Associates Analysis Center
ESA	European Space Agency	GNSS	Global Navigation Satellite System
ESOC	European Space Operations Center, ESA	GNU	GNU's Not Unix
EVGA	European VLBI Group for Geodesy and Astrometry	GOCE	Gravity field and Ocean Circulation Explorer
e-VLBI	Electronic transfer VLBI	GOP	Geodetic Observatory Pecny
EVN	European VLBI Network	GPS	Global Positioning System
FAGS	Federation of Astronomical and Geophysical Data Analysis Services	GPT	Global Pressure and Temperature
FCUP	Faculdade de Ciências da Universidade do Porto	GRACE	Gravity Recovery and Climate Experiment
FESG	Forschungseinrichtung Satellitengeodäsie, Technical University of Munich	GRGS	Groupe de Recherches de Géodésie Spatiale
FFI	Forsvarets forskningsinstitut	GSC	GSFC Analysis Center
FFT	Fast Fourier Transformation	GSC2.3	[HST] Guide Star Catalog 2.3
FIR	finite impulse response	GSFC	Goddard Space Flight Center
FSUE	[Russian] Federal State Unitary Enterprise	GSI	Geographical Survey Institute
FTLRS	French Transportable Laser Ranging Station	HEO	High Earth Orbiter
FTP, ftp	File Transfer Protocol	HPF	GOCE High-Level Processing Facility
GA	General Assembly	HST	Hubble Space Telescope
GA	Geoscience Australia	h/v	hight/vertical
GAOUA	Main Astronomical Observatory of the Ukrainian Academy of Sciences	IAA	Institute of Applied Astronomy, St. Petersburg
GCRS	Geocentric Celestial Reference System	IAG	International Association of Geodesy
GEO	Group on Earth Observations	IAS	International Altimetry Service
		IAU	International Astronomical Union
		ICESat	Ice, Cloud, and land Elevation Satellite

## 5 Acronyms

ICGEM	International Centre of Global Earth Models	JADE	Japanese Dynamic Earth observation by VLBI
ICRF	International Celestial Reference Frame	JAXA	Japan Aerospace Exploration Agency
ICRS	International Celestial Reference System	JCET	Joint Center for Earth System Technology, GSFC
ICSU	International Council for Science	J-MAPS	Joint Milli-Arcsecond Pathfinder Survey
IDS	International DORIS Service	JPL	Jet Propulsion Laboratory
IERS	International Earth Rotation and Reference Systems Service (formerly: International Earth Rotation Service)	KASI	Korea Astronomy and Space Science Institute
IGFS	International Gravity Field Service	KEOF	Kalman Earth Orientation Filter
IGGB	Institute of Geodesy and Geoinformation of the University of Bonn	LAREG	Laboratoire de Recherche en Geodesie
IGN	Institut Géographique National	LCA	LEGOS in cooperation with CLS
IGR	IGS rapid (orbit)	LEGOS	Laboratoire d'Etudes en Géophysique et Océanographie Spatiales
IGS	International GNSS Service (formerly: International GPS Service)	LEO	Low Earth Orbit(er)
ILRS	International Laser Ranging Service	LLR	Lunar Laser Ranging
ILRSA	ILRS official solution	LOC	Local Organizing Committee
INA	= INASAN	LOD	Length of Day
INAF	Istituto Nazionale di Astrofisica	LOLA	Lunar Orbiter Laser Altimeter
INASAN	INstitut AStronomii Rossijskoj Akademii Nauk (Institute of Astronomy of the Russian Academy of Sciences)	LPCE	Laboratoire de Physique et Chimie de l'Environnement
INPOP	Intégrateur Numérique Planétaire de l'Observatoire de Paris	LQAC	Large Quasar Astrometric Catalog
IPIE	Institute for Precision Instrument Engineering	LQRF	Large Quasar Reference Frame
IRA	Istituto di Radioastronomia	LR	laser ranging
IRIS	International Radio Interferometric Surveying	LRO	Lunar Reconnaissance Orbiter
ISO	International Organization for Standardization	LS	least-squares
ISO TC	ISO Technical committee	MAG	magnitude
ISO/TS	ISO Technical specification	MAO	= GAOUA
IT	Information Technology	mas	milliarcsecond(s)
ITRF	International Terrestrial Reference Frame	μas	microarcsecond(s)
ITRS	International Terrestrial Reference System	MCC	Russian Mission Control Centre
IUGG	International Union of Geodesy and Geophysics	MCT	Ministério da Ciência e Tecnologia, Brasília
IVP	invariant reference point	MeO	Métrieologie Optique [Grasse SLR /LLR system]
IVS	International VLBI Service for Geodesy and Astrometry	MERIT	Monitoring Earth Rotation and Inter-comparison of Techniques
		MIT	Massachusetts Institute of Technology
		MJD	Modified Julian Day
		MLRO	Matera Laser Ranging Observatory
		MPIfR	Max-Planck-Institut für Radioastronomie / Max Planck Institute for Radio Astronomy
		ms	millisecond(s)
		μs	microsecond(s)
		NASA	U.S. National Aeronautics and Space

## Appendices

	Administration	ppb	parts per billion ( $10^{-9}$ )
NCEP	U.S. National Centers for Environmental Prediction	PSF	point spread function
NCL	University of Newcastle upon Tyne	PSR	pulsar(s)
NEQ	normal equation	PZT	Photographic Zenith Tube [or Telescope]
NERC	Natural Environment Research Council, UK	QSO	Quasi-Stellar Object [quasar]
NGS	U.S. National Geodetic Survey	RA, R.A.	right ascension
NGSLR	[NASA's] Next Generation SLR	RC	Research Centre
NMF	Niell Mapping Function	R&D	Research and Development
N.N.	Nomen Nominandum [vacant, to be nominated]	RDV	Research and Development (sessions) with the VLBA
NOAA	U.S. National Oceanic and Atmospheric Administration	RFI	radio frequency interference
NOFS	USNO Flagstaff Station	rms, RMS	Root Mean Square
NOGAPS	[U.S.] Navy's Operational Global Atmospheric Prediction System	RRFID	USNO Radio Reference Frame Image Database
NPM	Lick Northern Proper Motion Program	RSC	Radio Source Coordinates
NRAO	[U.S.] National Radio Astronomy Observatory	RS/PC	IERS Rapid Service/Prediction Center
NRCan	Natural Resources, Canada (formerly: EMR)	RT e-VLBI	Rapid turn-around e-VLBI
NRL	Naval Research Laboratory	SAI	Sternberg Astronomical Institute
NRT	Nançay Radio Telescope	SB	Special Bureau
ns	nanosecond(s)	SBA	Special Bureau for the Atmosphere
NSGF	NERC Space Geodesy Facility	SBC	Special Bureau for the Core
OAM	oceanic angular momentum	SBCP	Special Bureau for Combined Products
OATo	Osservatorio Astronomico di Torino	SBH	Special Bureau for Hydrology
Obs.	Observatory, Observatoire	SBO	Special Bureau for the Oceans
OCA	Observatoire de la Côte d'Azur	SCCID	Strategic Coordinating Committee for Information and Data
OICETS	Optical Inter-Orbit Communications Engineering Test Satellite	SCID	Strategic Committee on Information and Data
ON/MCT	Observatório Nacional, Ministério da Ciência e Tecnologia	SDSS	Sloan Digital Sky Survey
OP, OPA	Observatoire de Paris	SDSS DR	SDSS Data Release
OS	Observing System	SIM	NASA's Space Interferometry Mission
OV/UFRJ	Observatório do Valongo, UFRJ	SINEX	Solution (Software/technique) INdependent EXchange Format
PC	Product Centre	SIO	Scripps Institution of Oceanography
PCV	Phase-Center Variations	SLR	Satellite Laser Ranging
PDR	Potsdam Dresden Reprocessing / GeoForschungsZentrum Potsdam & Technical University of Dresden	SOC	Scientific Organizing Committee
PM	Polar Motion	SOFA	Standards Of Fundamental Astronomy
POD	Precise [or Precision] Orbit Determination	SPBU	St Petersburg University
PP	Pilot Project	SPM	Yale/San Juan Southern Proper Motion Program
		SYRTE	(Laboratoire) Systèmes de Référence Temps-Espace
		TAI	Temps Atomique International (International Atomic Time)
		TC	Technique Centre

## 5 Acronyms

TDB	Barycentric Dynamical Time	UT, UT0,
TEMPO	Time and Earth Motion Precision Observations	UT1,
TIGA	Tide Gauge Benchmark Monitoring	UT1R
TN	[IERS] Technical Note	UTAAM
TOA	time of arrival	UTC
ToR	Terms of Reference	UTGPS
TRF	Terrestrial Reference Frame	
TT	Terrestrial Time	V2C
TU	Technical University	V2PEG
TUM	Technical University of Munich	VDIF
TWV	total water vapor / tropospheric water vapor	VEX
U.	University	VLA
UCAC	USNO CCD Astrograph Catalog	VLBA
UEZO/RJ	Centro Universitário Estadual da Zona Oeste, Rio de Janeiro	VLBI
UFRJ	Universidade Federal do Rio de Janeiro	VMF,
UKMO	United Kingdom Meteorological Office	VMF1
ULR	University of La Rochelle, France	WDC
UNAVCO	University Navstar Consortium	WDS
UNESCO	United Nations Educational, Scientific and Cultural Organization	WDSSC
Univ.	University	WDS-TT
URAT	USNO Robotic Astrometric Telescope	WG
URL	Uniform Resource Locator	WGP
USNO	United States Naval Observatory	Wks
		WRMS
		XML
		yr
		ZD
		Universal Time
		NOAA AAM analysis and forecast data
		Coordinated Universal Time
		Universal Time-like quantity using Global Position System
		VLBI2010 Committee
		VLBI2010 Project Executive Group
		VLBI Data Interchange Format
		VLBI Experiment Documentation
		Very Large Array
		Very Long Baseline Array, NRAO
		Very Long Baseline Interferometry
		Vienna Mapping Function
		World Data Centre(s)
		ICSU World Data System
		WDS Scientific Committee
		World Data System Transition Team
		working group
		IERS Working Group on Prediction
		weeks
		Weighted Root Mean Square
		eXtensible Markup Language
		year
		zenith delay(s)