

Appendix 5: Acronyms

The following acronyms and other abbreviations are used in this report. For more acronyms related to IERS see <http://www.iers.org/Acronyms>.

2MASS	Two Micron All Sky Survey	BEV	Bundesamt für Eich- und Vermessungswesen
AAM	Atmospheric Angular Momentum	BH	black hole
AC	Analysis Centre	BKG	Bundesamt für Kartographie und Geodäsie
AC	Analysis Coordinator	BPS	GGOS Bureau for Products and Standards
ACC	[IGS] Analysis Center Coordinator	c	century
AGGO	Argentinian-German Geodetic Observatory	C/P	Combination and Prediction
AGN	Active Galactic Nuclei	CA	California, USA
AGU	American Geophysical Union	CATREF	Combination and Analysis of Terrestrial Reference Frames
AllWISE	WISE catalogue	CB	Central Bureau
allWISEagn	AllWISE Catalog of Mid-IR AGNs	CC	Combination Centre
AM	angular momentum	CC	Conventions Centre
AOV	Asia-Oceania VLBI Group for Geodesy and Astrometry	CCD	Charge-Coupled Device
APOLLO	Apache Point Observatory Lunar Laser-ranging Operation	CDDIS	NASA Crustal Dynamics Data Information System
APSG	Asia-Pacific Space Geodynamics	CDS	Centre de Données astronomiques de Strasbourg (formerly: Centre de Données Stellaires)
AR	Annual Report	CERGA	Centre d'Etudes et de Recherches Géodynamiques et Astronomiques
AR	autoregressive	CF	Center of Frame [origin of ITRF]
ASC	Analysis Standing Committee	CfA	Harvard-Smithsonian Center for Astrophysics
ASCII	American Standard Code for Information Interchange	CfP	Call for Participation/Proposals
ASI	Agenzia Spaziale Italiana	CGS	Centro di Geodesia Spaziale, ASI
ATML	atmospheric loading	CIO	Conventional International Origin
AUS	Geoscience Australia	CIP	Celestial Intermediate Pole
AWG	Analysis Working Group	CLS	Collecte, Localisation, Satellites
BAS	British Antarctic Survey		
BAT	Burst Alert Telescope		

CM	instantaneous centre of mass of the whole Earth	Dec, DEC	declination
CN	centre of [observation] network	deg	degree
CNES	Centre National d'Etudes Spatiales	Dep.	Department
CNSA	China National Space Administration	DGFI	Deutsches Geodätisches Forschungsinstitut
CODE	Centre for Orbit Determination in Europe	DGFI-TUM	Deutsches Geodätisches Forschungsinstitut at Technische Universität München
CoM	centre of mass	DGNSS	Differential Global Navigation Satellite Systems
COSMIC	Constellation Observing System for Meteorology, Ionosphere, and Climate	DiFX	Distributed FX
COSPAR	Committee on Space Research	DIODE	Détermination Immédiate d'Orbite par Doris Embarqué
CPC	Climate Prediction Center	DIS	IERS Data and Information System
CPF	Consolidated [Laser Ranging] Prediction Format	DIS	ISO Draft International Standard
CPO	celestial pole offset	DLR	Deutsches Zentrum für Luft- und Raumfahrt
CRD	Consolidated Laser Ranging Data Format	dNEH	delta north, east, hight
CRF	Celestial Reference Frame	doi, DOI	Digital Object Identifier
CSR	Center for Space Research, University of Texas	DOMES	Directory Of MERIT Sites (originally; now of more general use)
CSTG	Commission on International Coordination of Space Techniques for Geodesy and Geodynamics	DORIS	Doppler Orbitography and Radiopositioning Integrated by Satellite (DORIS)
CTIO	Cerro Tololo Inter-American Observatory	DOR-O-T	DORIS Online Tools
CU	[DPAC] Coordination Unit	DPAC	Data Processing and Analysis Consortium [of the Gaia mission]
curl	Client for URLs (or: Curl URL Request Library)	DST	Deep South Telescope
d	day	DTRF	ITRS realization by DGFI
DB	Directing Board	DUT1	= UT1–UTC
DC	Data Center	E	East [position/coordinate/direction]
DC	District of Columbia, USA	EAM	Effective Angular Momentum
		EC	Executive Committee

ECCO	Estimating the Circulation and Climate of the Ocean	ftp, FTP	File Transfer Protocol
ECMWF	European Centre for Medium-Range Weather Forecasts	GA	General Assembly
EDC	EUROLAS Data Center	GA	Geoscience Australia
EGU	European Geosciences Union	GaiaNIR	Gaia Near Infra-Red [mission]
EGV	Essential Geodetic Variable(s)	GB	Governing Board
EMPIR	European Metrology Programme for Innovation and Research	Gb	gigabit
EMR	Energy, Mines and Resources Canada (replaced by NRCan)	GDR	Gaia Data Release
ENVISAT	Environmental Satellite	GfZ	GeoForschungsZentrum Potsdam
EO	Earth orientation	GGFC	Global Geophysical Fluids Centre
EOC	Earth Orientation Centre	GGIM	= UN GGIM
EOP	Earth Orientation Parameters	GGOS	Global Geodetic Observing System
EOST	École et Observatoire des Science de la Terre	GHz	gigahertz
ESA	European Space Agency	GIOVE	Galileo In-Orbit Validation Element
ESOC	European Space Operations Center, ESA	GIQC	Gaia Initial Quasar Catalog[ue]
Eumetsat	European Organisation for the Exploitation of Meteorological Satellites	GLDAS	NASA's Global Land Data Assimilation System
EVGA	European VLBI [Group] for Geodesy and Astrometry	GLONASS	GLObal'naya NAvigatsionnaya Sputnikovaya Sistema [Global Orbiting Navigation Satellite System, Russia]
e-VLBI	Electronic transfer VLBI	GLOUP	GLObal Undersea Pressure
FFT	Fast Fourier Transformation	GM	General Meeting
FNMOCC	[US Navy] Fleet Numerical Meteorology and Oceanography Center	GNSS	Global Navigation Satellite System
FP	fundamental plane	GOP	Geodetic Observatory Pecny
FR	full rate	GP	Galactic plane
FRAMEx	Fundamental Reference AGN Monitoring Experiment	GPS	Global Positioning System
		GRACE	Gravity Recovery and Climate Experiment
		GRACE-FO	GRACE Follow-On
		GRAIL	Gravity Recovery and Interior Laboratory
		GRG	DORIS Analysis Center at CNES/CLS (formerly LCA)

GRGS	Groupe de Recherches de Géodésie Spatiale	IERS	International Earth Rotation and Reference Systems Service (formerly: International Earth Rotation Service)
GSC	GSFC Analysis Center		
GSFC	Goddard Space Flight Center	IfE	Institut für Erdmessung [Institute of Geodesy], University of Hannover
GSJ	Geospatial Information Authority of Japan (formerly: Geographical Survey Institute)	IGMA	ICG Monitoring and Assessment Task Force
HartRAO	Hartebeesthoek Radio Astronomy Observatory	IGN	Institut National de l'Information Géographique et Forestière (formerly: Institut Géographique National)
HEO	High Earth Orbiter		
HF-EOP	High Frequency EOP	IGR	IGS rapid [products / satellite orbits]
hr	hour, hours	IGS	International GNSS Service (formerly: International GPS Service)
HTTPS	Hypertext Transfer Protocol Secure		
HY	HaiYan / Haiyang / Hai Yang [satellite]	IGS-RTS	IGS Real-Time Service
IAA	Institute of Applied Astronomy, St. Petersburg	IIUL	integrated IGS Ultra LODs
IAG	International Association of Geodesy	ILRS	International Laser Ranging Service
IAU	International Astronomical Union	INA	(Institute of Astronomy of the Russian Academy of Sciences)
ICD	Interface Control Document	INASAN	(Institute of Astronomy of the Russian Academy of Sciences)
ICESat	Ice, Cloud, and land Elevation Satellite	INFN	Istituto Nazionale di Fisica Nucleare [National Institute for Nuclear Physics]
ICG	International Committee on Global Navigation Satellite Systems	Int.	Intensive [VLBI session]
ICRF	International Celestial Reference Frame	IPGS	Institut de Physique du Globe de Strasbourg
ICRS	International Celestial Reference System	IR	infrared
ICSU	International Council for Science	IRIS	International Radio Interferometric Surveying
ID	Identification/Identifier	IRNSS	Indian Regional Navigation Satellite System
IDF	International DOI Foundation		
IDS	International DORIS Service	ISBN	International Standard Book Number

ISC	International Science Council (formerly ICSU)	LDAS	Land Data Assimilation System
ISO	International Organization for Standardization	LEO	Low Earth Orbit(er)
ITRF	International Terrestrial Reference Frame	LLR	Lunar Laser Ranging
ITRS	International Terrestrial Reference System	LoD, LOD	Length of Day
ITU	International Telecommunication Union	lon	longitude
IUGG	International Union of Geodesy and Geophysics	LQAC	Large Quasar Astrometric Catalog[ue]
IVS	International VLBI Service for Geodesy and Astrometry	LRO	Lunar Reconnaissance Orbiter
IWLR	International Workshop on Laser Ranging	LS	least-squares
Jason-CS	Jason Continuity of Service [mission]	LSDM	Land Surface Discharge Model
JCET	Joint Center for Earth Systems Technology, GSFC	LT	local tie
JMA	Japan Meteorological Agency	MA	Massachusetts, USA
JPL	Jet Propulsion Laboratory	mag	magnitude
JTRF	ITRS realization by JPL	mas	milliarcsecond(s)
KALREF	Kalman filter for Reference frames	Mb	megabit
keV	kiloelectronvolt	MCC	Russian Mission Control Centre
kHz	kilohertz	MD	Maryland, USA
LAGEOS	Laser Geodynamics Satellite	MeO, MEO	Métrieologie Optique [Grasse SLR/LLR system]
LAREG	Laboratoire de Recherches en Géodésie	MGEX	Multi-GNSS [Global] Experiment, Multi-GNSS Extension
LARES	Laser Relativity Satellite	MilliQuas	Million Quasars Catalog
LARGE	Laser Ranging to GNSS s/c Experiment	MIT	Massachusetts Institute of Technology
lat	latitude	MJD	Modified Julian Day
LBO	Long Baseline Observatory	MLRO	Matera Laser Ranging Observatory
		Mpc	megaparsec
		MPIfR	Max-Planck-Institut für Radioastronomie / Max Planck Institute for Radio Astronomy
		ms	millisecond(s)
		msec	milliseconds
		N	number

N	North [position/coordinate/direction]	NSOAS	National Satellite Ocean Application Service
N, E	north, east	NT	non-tidal
NASA	U.S. National Aeronautics and Space Administration	NT-AL	non-tidal atmospheric loading
NAVDEM	[U.S.] Navy Global Environmental Model	NT-ATML	non-tidal atmospheric loading
NCAR	U.S. National Center for Atmospheric Research	NT-L	non-tidal loading
NCEP	U.S. National Centers for Environmental Prediction	OAM	Oceanic Angular Momentum
NGEO	National Geophysical Observatory for Geoscience	Obs.	Observatory, Observatoire, Observatório
NGS	U.S. National Geodetic Survey	OC	Organizing Committee
NICT	National Institute of Information and Communications Technology (formerly: CRL)	OCA	Observatoire de la Côte d'Azur
NIR	near-infrared	OHIG	O'Higgins [station]
NISAR	NASA-ISRO Synthetic Aperture Radar [satellite]	OOC	IVS Office for Outreach and Communication
NNR	No-net-rotation, No Net Rotation	OP, OPA	Observatoire de Paris
No., Nos.	Number, Numbers	OS	operating system
NOAA	U.S. National Oceanic and Atmospheric Administration	OSTST	Ocean Surface Topography Science Team
NOFS	[U.S.] Naval Observatory Flagstaff Station	PC	Product Centre
NP	SLR normal point(s)	PI	Principal Investigator
NRAO	U.S. National Radio Astronomy Observatory	PLATO	Performance Simulations & Architectural Trade-Offs
NRCan	Natural Resources, Canada (formerly: EMR)	PM	Polar Motion
NRT	Near Real-Time (products)	PNT	positioning, navigation and timing
ns	nanosecond(s)	POD	Precise [or Precision] Orbit Determination
NSF	US National Science Foundation	POE	Precise Orbit Comparison
		POLAC	Paris Observatory Lunar Analysis Center
		PP	Pilot Project
		ppb	parts per billion (10 ⁻⁹)
		PPP	Precise Point Positioning

PPP-AR	Precise Point Positioning with ambiguity resolution	SB	Special Bureau
ps	picosecond(s)	SBA	Special Bureau for the Atmosphere
PSMSL	Permanent Service for Mean Sea Level	SBCP	Special Bureau for Combined Products / Special Bureau for the Combination Products
PT	Project Team	SBH	Special Bureau for Hydrology
PUL	Pulkovo Observatory	SBO	Special Bureau for the Oceans
QC	quality control	SC	Special Committee
QCB	Quality Control Board	SDev	standard deviation
QSO	Quasi-Stellar Object [quasar]	SDSS	Sloan Digital Sky Survey
QZSS	Quasi-Zenith Satellite System	sec	second(s) [of time]
RA	right ascension	SHOM	Service hydrographique et océanographique de la Marine [Naval Hydrographic and Oceanographic Service]
RB	range bias	SIC	Satellite Identification Code
RDV	Research and Development (sessions) with the VLBA	SINEX	Solution (Software/technique) INdependent EXchange Format
RINEX	Receiver INdependent EXchange format	SIO	Scripps Institution of Oceanography
RMS	Root Mean Square	SIRGAS	Sistema de Referencia Geocéntrico para Las Américas
RRFID	USNO Radio Reference Frame Image Database	SLR	Satellite Laser Ranging
RS/PC	IERS Rapid Service/Prediction Center	SOFA	Standards Of Fundamental Astronomy
RT	real-time	SOKENDAI	Graduate University for Advanced Studies
RT-AC	Real-Time Analysis Center	SPOT	Satellite Pour l'Observation de la Terre
RT-CC	Real-Time Combination Center	SRIF	Square Root Information Filter array
RTCM	Radio Technical Commission for Maritime Services	SRP	solar radiation pressure
RTS	IGS Real-Time Service	SSALTO	Segment Sol multi-mission d'ALTimétrie, d'Orbitographie et de localisation précise
s/c	spacecraft	SSEM	Station Systematic Error Monitoring
SAA	South Atlantic Anomaly	STD	standard deviation
SARAL	Satellite with ARGOS and ALTIKA		
Sat.	satellite		

STM	Science Team Meeting	UAW	GGOS Unified Analysis Workshop
SWOT	Strengths, Weaknesses, Opportunities, and Threats [analysis]	UBAD	USNO Bright-Star Astrometric Database
SWOT	Surface Water Ocean Topography [mission]	UCAC	USNO CCD Astrograph Catalog
SYRTE	Systèmes de Référence Temps-Espace [department]	UCAR	University Corporation for Atmospheric Research
T2L2	Time Transfer by Laser Link	UH	University of Hawaii
TAI	Temps Atomique International (International Atomic Time)	UK	United Kingdom
Tb	terabyte	UKIDSS	UKIRT Infrared Deep Sky Survey
TB	time bias	UKIRT	United Kingdom Infrared Telescope
TBD	to be defined	UKMO	Met Office (formerly: UK Meteorological Office)
TC	Technique Centre	UMBC	University of Maryland, Baltimore County
TEC	Total Electron Content (Total Electron Count)	UN	United Nations
TECU	TEC Unit	UNAVCO	University Navstar Consortium
TIGO	Transportable Integrated Geodetic Observatory	UNB	University of New Brunswick
TIO	terrestrial intermediate origin	UN-GGIM	Global Geospatial Information Management Initiative of the UN
TN	IERS Technical Note	unWISE	unofficial, unblurred coadds of the WISE imaging
ToR	Terms of Reference	URAT	USNO Robotic Astrometric Telescope
TOW	Technical Operations Workshop	URL	Uniform Resource Locator
TRF	Terrestrial Reference Frame	US, U.S.	United States
TT	Terrestrial Time	USGS	U.S. Geological Survey
TU	Technical University	USNO	United States Naval Observatory
TUM	Technische Universität München (Technical University of Munich)	USO	Ultra Stable Oscillator
TVG	time-variable gravity	UT, UT0, UT1	Universal Time
TWS	terrestrial water storage	UTAAM	NCEP [or NOAA] AAM analysis and forecast data
TX	Texas, USA	UTC	Coordinated Universal Time
U	Up [position/coordinate/direction]		