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.

AAM	Atmospheric Angular Momentum
AC	Analysis Centre
AC	Analysis Coordinator
ACC	[IGS] Analysis Center Coordinator
ACES	Atomic Clock Ensemble in Space
AGN	Active Galactic Nuclei
AGU	American Geophysical Union
AJ	Astronomical Journal
AM	angular momentum
AOV	Asia-Oceania VLBI Group for Geodesy and Astrometry
APOLLO	Apache Point Observatory Lunar Laser-ranging Operation
APSG	Asia-Pacific Space Geodynamics
AR	Annual Report
AR	autoregressive
AR	Argentina
ASC	Analysis Standing Committee
ASI	Agenzia Spaziale Italiana
AUS	Geoscience Australia
AWG	Analysis Working Group
BEV	Bundesamt für Eich- und Vermessungswesen
BIPM	Bureau International des Poids et Mesures
BKG	Bundesamt für Kartographie und Geodäsie
BPS	GGOS Bureau for Products and Standards
C/P	Combination and Prediction
CA	California, USA
Caltech	California Institute of Technology
CATREF	Combination and Analysis of Terrestrial Reference Frames
CB	Central Bureau
CB	Coordinating Board
CC	Combination Centre
CCD	Charge-Coupled Device
CDDIS	NASA Crustal Dynamics Data Information System
CDS	Centre de Données astronomiques de Strasbourg (formerly: Centre de Données Stellaire)
CERGA	Centre d'Etudes et de Recherches Géodynamiques et Astronomiques
CfA	Harvard-Smithsonian Center for Astrophysics
CfP	Call for Participation/Proposals
CIO	Conventional International Origin
CIP	Celestial Intermediate Pole
CLS	Collecte, Localisation, Satellites
CM	instantaneous centre of mass of the whole Earth
CMP	Conventional Mean Pole
CN	centre of [observation] network
CN	China
CNES	Centre National d'Etudes Spatiales
CNSA	China National Space Administration

CoM	centre of mass
CONT	continuous VLBI session/campaign
COSMIC	Constellation Observing System for Meteorology, Ionosphere, and Climate
COSPAR	Committee on Space Research
CPC	Climate Prediction Center
CPO	celestial pole offset
CRF	Celestial Reference Frame
CRS	Celestial Reference System
CSR	Center for Space Research, University of Texas
CSTG	Commission on International Coordination of Space Techniques for Geodesy and Geodynamics
CTIO	Cerro Tololo Inter-American Observatory
d	day
DB	Directing Board
DC	District of Columbia, USA
Dec	declination
deg	degree
Dep.	Department
DFG	Deutsche Forschungsgemeinschaft (German Research Foundation)
DGFI	= DGFI-TUM
DGFI-TUM	Deutsches Geodätisches Forschungsinstitut at Technische Universität München
DiFX	Distributed FX
DIODE	Détermination Immédiate d'Orbite par Doris Embarqué
DIS	IERS Data and Information System
doi	Digital Object Identifier
DOMES	Directory Of MERIT Sites (originally; now of more general use)
DORIS	Doppler Orbitography and Radiopositioning Integrated by Satellite (DORIS)
DOR-O-T	DORIS Online Tools
DPAC	Data Processing and Analysis Consortium
DPOD	DORIS extension of the ITRF for Precise Orbit Determination
DR	Data Release
DSS	Digitized Sky Survey
DTRF	ITRS realization by DGFI
DUT	Delft University of Technology
DUT1	= UT1-UTC
EAM	Effective Angular Momentum
EC	Executive Committee
ECCO	Estimating the Circulation and Climate of the Ocean
ECMWF	European Centre for Medium-Range Weather Forecasts
EEMA	error ellipse major axis
EGU	European Geosciences Union
EMB	Earth-Moon Barycentre
ENVISAT	Environmental Satellite
EO	Earth orientation
EOC	Earth Orientation Centre
EOP	Earth Orientation Parameters
EOST	École et Observatoire des Science de la Terre
ERP	Earth Rotation Parameters
ESA	European Space Agency

ESOC	European Space Operations Center, ESA
Eumetsat	European Organisation for the Exploitation of Meteorological Satellites
EVGA	European VLBI [Group] for Geodesy and Astrometry
e-VLBI	Electronic transfer VLBI
FR	full rate
FTP, ftp	File Transfer Protocol
GA	General Assembly
GA	Geoscience Australia
GB	Governing Board
Gb	gigabit
GDR	Gaia Data Release
GDR	Geophysical Data Record
GEO	Group on Earth Observations
GFZ	GeoForschungsZentrum Potsdam
GGAO	Goddard Geophysical and Astronomical Observatory
GGFC	Global Geophysical Fluids Centre
GGIM	= UN GGIM
GGOS	Global Geodetic Observing System
GIA	glacial isostatic adjustment
GIOVE	Galileo In-Orbit Validation Element
GIQC	Gaia Initial Quasar Catalog[ue]
GLDAS	NASA's Global Land Data Assimilation System
GLONASS	GLObal'naya NAvigatisionnay Sputnikovaya Sistema [Global Orbiting Navigation Satellite System, Russia]
GLOUP	GLObal Undersea Pressure
GNSS	Global Navigation Satellite System
GOCE	Gravity field and Ocean Circulation Explorer
GPS	Global Positioning System
GRACE	Gravity Recovery and Climate Experiment
GSFC	Goddard Space Flight Center
GSI	Geospatial Information Authority of Japan (formerly: Geographical Survey Institute)
HartRAO	Hartebeesthoek Radio Astronomy Observatory
HEO	High Earth Orbiter
HF-EOP	High Frequency EOP
hr, hrs	hour, hours
HTTPS	Hypertext Transfer Protocol Secure
HY	HaiYan / Haiyang / Hai Yang [satellite]
IAA	Institute of Applied Astronomy, St. Petersburg
IAG	International Association of Geodesy
IASPEI	International Association of Seismology and Physics of the Earth's Interior
IAU	International Astronomical Union
ICESat	Ice, Cloud, and land Elevation Satellite
ICG	International Committee on Global Navigation Satellite Systems
ICRF	International Celestial Reference Frame
ICRS	International Celestial Reference System
ICSU	International Council for Science
ID	Identification/Identifier

IDS	International DORIS Service
IERS	International Earth Rotation and Reference Systems Service (formerly: International Earth Rotation Service)
IfE	Institut für Erdmessung [Institute of Geodesy], University of Hannover
IGFS	International Gravity Field Service
IGG	Institute of Geodesy and Geoinformation of the University of Bonn
IGMA	ICG Monitoring and Assessment Task Force
IGN	Institut National de l'Information Géographique et Forestière (formerly: Institut Géographique National)
IGS	International GNSS Service (formerly: International GPS Service)
IGS-RTS	IGS Real-Time Service
IHRS	International Height Reference System
IIUL	integrated IGS Ultra LODs
ILRS	International Laser Ranging Service
ILRSA	ILRS official solution
INFN	Istituto Nazionale di Fisica Nucleare [National Institute for Nuclear Physics]
INT, Int.	Intensive [VLBI session]
Int.	International
IPGS	Institut de Physique du Globe de Strasbourg
IR	infrared
IRIS	International Radio Interferometric Surveying
IRNSS	Indian Regional Navigation Satellite System
ISBN	International Standard Book Number
ISO	International Organization for Standardization
ITRF	International Terrestrial Reference Frame
ITRS	International Terrestrial Reference System
ITU	International Telecommunication Union
ITU-R	ITU Radiocommunication Sector
IUGG	International Union of Geodesy and Geophysics
IVS	International VLBI Service for Geodesy and Astrometry
Jason-CS	Jason Continuity of Service [mission]
JCET	Joint Center for Earth Systems Technology, GSFC
JGR	Journal of Geophysical Research
JMA	Japan Meteorological Agency
JPL	Jet Propulsion Laboratory
JTRF	ITRS realization by JPL
KALREF	Kalman filter for Reference frames
kHz	kilohertz
LAGEOS	Laser Geodynamics Satellite
LAREG	Laboratoire de Recherches en Géodésie
LARES	Laser Relativity Satellite
LARGE	Laser Ranging to GNSS s/c Experiment
lat	latitude
LBA	Australian Long Baseline Array

LBO	Long Baseline Observatory
LDAS	Land Data Assimilation System
LEO	Low Earth Orbit(er)
LLR	Lunar Laser Ranging
LoD	Length of Day
LOD	Length of Day
lon	longitude
LQAC	Large Quasar Astrometric Catalog[ue]
LS	least-squares
MA	Massachusetts, USA
mag	magnitude
mas	milliarcsecond(s)
masec	milliarcseconds
Mb	megabit
MCC	Russian Mission Control Centre
MD	Maryland, USA
MeO	Métrologie Optique [Grasse SLR/LLR system]
MGEX	Multi-GNSS [Global] Experiment, Multi-GNSS Extension
MilliQuas	Million Quasars Catalog
MIT	Massachusetts Institute of Technology
MJD	Modified Julian Day
MLRO	Matera Laser Ranging Observatory
MOBLAS	Mobile Laser Ranging System
MPIfR	Max-Planck-Institut für Radioastronomie / Max Planck Institute for Radio Astronomy
ms	millisecond(s)
msec	milliseconds
MX	Mexico
N	number
N, E	north, east
NASA	U.S. National Aeronautics and Space Administration
NAVGEM	[U.S.] Navy Global Environmental Model
NCAR	U.S. National Center for Atmospheric Research
NCEP	U.S. National Centers for Environmental Prediction
ND	neutral density
NERS	Network Earth Rotation Service
NEU	North, East, Up [position/coordinates/directions]
NGA	National Geospatial-Intelligence Agency
NGS	U.S. National Geodetic Survey
NIR	near-infrared
NISAR	NASA-ISRO Synthetic Aperture Radar [satellite]
NIST	[U.S.] National Institute of Standards and Technology
No., Nos.	Number, Numbers
NOAA	U.S. National Oceanic and Atmospheric Administration
NP	SLR normal point(s)
NRT	Near Real-Time (products)
ns	nanosecond(s)
NSF	US National Science Foundation
NSOAS	National Satellite Ocean Application Service
NTL	non-tidal loading
NTP	Network Time Protocol

NTT	Ny-Ålesund Twin [Radio] Telescope
OAM	Oceanic Angular Momentum
Obs.	Observatory, Observatoire, Observatório
OHIG	O'Higgins [station]
OP	Observatoire de Paris
ORBEX	orbits exchange in SINEX-like format
OTT	Onsala Twin [Radio] Telescope
PANDOR	Pré traitement et ANalyse des mesures DORis
PC	Product Centre
PDF	Portable Document Format
PLATO	Performance Simulations & Architectural Trade-Offs
PM	Polar Motion
PMM	Plate Motion Model
POD	Precise [or Precision] Orbit Determination
POLAC	Paris Observatory Lunar Analysis Center
PP	Pilot Project
ppb	parts per billion (10-9)
PPP	Precise Point Positioning
ps	picosecond(s)
PSD	post-seismic deformation
PSMSL	Permanent Service for Mean Sea Level
PZT	Photographic Zenith Tube [or Telescope]
QC	quality control
QCB	Quality Control Board
QSO	Quasi-Stellar Object [quasar]
QZSS	Quasi-Zenith Satellite System
RA	radio astronomy
RA	right ascension
RAEGE	Red Atlantica de Estaciones Geodinamicas y Espaciales
REFAG	[Symposium on] Reference Frames for Applications in Geosciences
RF	radio frequency
RFI	radio frequency interference
RINEX	Receiver INdependent EXchange format
RMS	Root Mean Square
RRFID	USNO Radio Reference Frame Image Database
RS/PC	IERS Rapid Service/Prediction Center
RT	real-time
RT-AC	Real-Time Analysis Center
RT-CC	Real-Time Combination Center
RTCM	Radio Technical Commission for Maritime Services
RTS	IGS Real-Time Service
s/c	spacecraft
SAA	South Atlantic Anomaly
SARAL	Satellite with ARGOS and ALTIKA
Sat.	satellite
SB	Special Bureau
SBA	Special Bureau for the Atmosphere
SBCP	Special Bureau for Combined Products / Special Bureau for the Combination Products
SBH	Special Bureau for Hydrology
SBO	Special Bureau for the Oceans

SC	Special Committee
SDev	standard deviation
SDSS	Sloan Digital Sky Survey
SDSS DR	SDSS Data Release
sec	second(s) [of time]
SGP	Space Geodesy Project
SGSLR	Space Geodesy SLR [system]
SIC	Satellite Identification Code
SINEX	Solution (Software/technique) INdependent EXchange Format
SIRGAS	Sistema de Referencia Geocéntrico para Las Américas
SLR	Satellite Laser Ranging
SLRF	ITRS realization by ILRS
SNSPD	Super-Conducting Nanowire Single Photon Detector
SOFA	Standards Of Fundamental Astronomy
SOKENDAI	Graduate University for Advanced Studies
SOS-W	Satellite Observing System-Wettzell
SpinSat	Special Purpose Inexpensive Satellite
SPOT	Satellite Pour l'Observation de la Terre
SRP	solar radiation pressure
SSALTO	Segment Sol multi-mission d'ALTimétrie, d'Orbitographie et de localisation précise
SSEM	Station Systematic Error Monitoring
STD	standard deviation
SWOT	Surface Water Ocean Topography [mission]
SyRTE	Systèmes de Référence Temps-Espace [department]
T2L2	Time Transfer by Laser Link
TAI	Temps Atomique International (International Atomic Time)
TAROT	Télescopes à Action Rapide pour les Objets Transitoires
Tb	terabit
TBD	to be defined
TC	Technique Centre
TEC	Total Electron Content (Total Electron Count)
TECU	TEC Unit
TGAS	Tycho Gaia Astrometric Solution
TIO	terrestrial intermediate origin
TN	IERS Technical Note
ToR	Terms of Reference
TRF	Terrestrial Reference Frame
TRS	Terrestrial Reference System
TT	Terrestrial Time
TTW	Twin [Radio] Telescope at Wettzell
TU	Technical University
TUM	Technische Universität München (Technical University of Munich)
TWS	terrestrial water storage
TX	Texas, USA
U	University
UAW	GGOS Unified Analysis Workshop
UBAD	USNO Bright-Star Astrometric Database
UCAC	USNO CCD Astrograph Catalog
UCL	University College London
UK	United Kingdom

UKMO Met Office (formerly: UK Meteorological Office)

UMBC University of Maryland, Baltimore County

UN United Nations

UNAVCO University Navstar Consortium

UNB University of New Brunswick

UN-GGIM Global Geospatial Information Management Initiative of the UN

UPC URAT Parallax Catalog

URAT USNO Robotic Astrometric Telescope

URL Uniform Resource Locator

US, U.S. United States

USNO United States Naval Observatory

USO Ultra Stable Oscillator

UT University of Texas

UT, UT0, UT1 Universal Time

UT2R Universal Time

UTAAM NCEP [or NOAA] AAM analysis and forecast data

UTC Coordinated Universal Time

UTGPS Universal Time-like quantity using Global Position System

VCS VLBA Calibrator Survey

VEX VLBI Experiment Documentation

VGOS VLBI Global Observing System

VLBA Very Long Baseline Array, NRAO

VLBI Very Long Baseline Interferometry

VSH vector spherical harmonics

VTRF VLBI terrestrial reference frame

VTS [Gaia] Validation Test Specification

w.r.t. with respect to

WDS ICSU World Data System

WG working group

WISE Wide-field Infrared Survey Explorer

WRMS, wrms Weighted Root Mean Square

WSCS weighted smoothing cubic spline

yr year

ZPD zenith path delay