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
AAC	Associated Analysis Centre
AAM	Atmospheric Angular Momentum
AC	Analysis Centre
AC	Analysis Coordinator
ACC	[IGS] Analysis Center Coordinator
ACES	Atomic Clock Ensemble in Space
ADC	[Gaia] Affiliated Data Center
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
ASC	Analysis Standing Committee
ASI	Agenzia Spaziale Italiana
AWG	Analysis Working Group
BIPM	Bureau International des Poids et Mesures
BKG	Bundesamt für Kartographie und Geodäsie
BOSS	Baryon Oscillation Spectroscopic Survey
c	century
C/P	Combination and Prediction
CA	California, USA
CATREF	Combination and Analysis of Terrestrial Reference Frames
CB	Central Bureau
CC	Combination Centre
CDB	USNO's Celestial Reference Frame Database
CDDIS	NASA Crustal Dynamics Data Information System
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
CMP	Conventional Mean Pole
CNES	Centre National d'Etudes Spatiales
CNSA	China National Space Administration
CODE	Centre for Orbit Determination in Europe
COL	combination at/on the observation level
CoM	centre of mass
CoP	centre of phase
COSMIC	Constellation Observing System for Meteorology, Ionosphere, and Climate

CPC	Climate Prediction Center
CRF	Celestial Reference Frame
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
DB	Directing Board
DC	Data Center
DC	District of Columbia, USA
DE	JPL Development Ephemeris
DE	declination
Dec	declination
DEC	declination
deg	degree
DGFI	Deutsches Geodätisches Forschungsinstitut
DiFX	Distributed FX
DIODE	Détermination Immédiate d'Orbite par Doris Embarqué
DIS	IERS Data and Information System
DOGS	DGFI Orbit & Geodetic Parameter Estimation Software
DOI	Digital Object Identifier
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
DTRF	ITRS realization by DGFI
DUT1	= UT1-UTC
E	East [position/coordinate/direction]
EAM	Effective Angular Momentum
ECCO	Estimating the Circulation and Climate of the Ocean
ECMWF	European Centre for Medium-Range Weather Forecasts
EGU	European Geosciences Union
ELP	Éphéméride Lunaire Parisienne
ELPN	Éphéméride Lunaire Parisienne Numérique
EMRP	European Metrology Research Program[me]
ENVISAT	Environmental Satellite
EO	Earth orientation
EOC	Earth Orientation Centre
EOP	Earth Orientation Parameters
EOST	École et Observatoire des Science de la Terre
EPOS-OC	Earth Parameter and Orbit System - Orbit Computation [software]
Eratosthenes	European Reference Antenna of Space Geodetic Techniques Enhancing Earth Science
ESA	European Space Agency
ESAC	European Space Astronomy Centre

ESOC European Space Operations Center, ESA

ET Epheremis Time

Eumetsat European Organisation for the Exploitation of Meteorological Satellites

EURAMET European Association of National Metrology Institutes

EVGA European VLBI [Group] for Geodesy and Astrometry

eVLBI Electronic transfer VLBI

e-VLBI Electronic transfer VLBI

FL Florida, USA

FNMOC [US Navy] Fleet Numerical Meteorology and Oceanography Center

FTP File Transfer Protocol

ftp File Transfer Protocol

GA General Assembly

GA Geoscience Australia

GB Governing Board

Gb gigabyte

GCRF Gaia Celestial Reference Frame

GDR Geophysical Data Record

GDR1 Gaia Data Release 1

GEO Group on Earth Observations

GEODVEL GEODetic VELocity [model]

GFZ GeoForschungsZentrum Potsdam

GGFC Global Geophysical Fluids Centre

GGIM = UN GGIM

GGOS Global Geodetic Observing System

GGRF Global Geodetic Reference Frame

GHz gigahertz

GINS Geodesy by Simultaneous Digital Integration [software]

GIOVE Galileo In-Orbit Validation Element

GIPSY/OASIS GNSS-Inferred Positioning System and Orbit Analysis Simulation Software

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

GM General Meeting

GMF Global Mapping Function

GNSS Global Navigation Satellite System

GPS Global Positioning System

GPT Global Pressure and Temperature

GRACE Gravity Recovery and Climate Experiment

GRASP Geodetic Reference Antenna in Space

GRGS Groupe de Recherches de Géodésie Spatiale

GSFC Goddard Space Flight Center

GSI Geospatial Information Authority of Japan (formerly: Geographical Survey Institute)

HartRAO Hartebeesthoek Radio Astronomy Observatory

HEO High Earth Orbiter

hr hour, hours

HRAO	Hartebeesthoek Radio Astronomy Observatory
HVAC	Heating, Ventilation and Air Conditioning
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
IGG	Institute of Geodesy and Geoinformation of the University of Bonn (formerly: GIUB)
IGGB	Institute of Geodesy and Geoinformation of the University of Bonn (formerly: GIUB)
iGMAS	International GNSS Monitoring and Assessment System
IGN	Institut National de l'Information Géographique et Forestière (formerly: Institut Géographique National)
IGS	International GNSS Service (formerly: International GPS Service)
IIUL	integrated IGS Ultra LODs
ILRS	International Laser Ranging Service
ILRSA	ILRS official solution
INASAN	(Institute of Astronomy of the Russian Academy of Sciences)
INFN	Istituto Nazionale di Fisica Nucleare [National Institute for Nuclear Physics]
Int.	International
IP	Internet Protocol
IPGP	Institut de Physique du Globe de Paris
IPGS	Institut de Physique du Globe de Strasbourg
IR	infrared
IRIS	International Radio Interferometric Surveying
IRNSS	Indian Regional Navigation Satellite System
ISA	IAG Service Assessment
ISBN	International Standard Book Number
ISO	International Organization for Standardization
IT	Information Technology
ITRF	International Terrestrial Reference Frame

ITRS	International Terrestrial Reference System
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
JISDM	Joint International Symposium on Deformation Monitoring
JMA	Japan Meteorological Agency
JPL	Jet Propulsion Laboratory
JTRF	ITRS realization by JPL
JWG	Joint Working Group
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
LBO	Long Baseline Observatory
LDAS	Land Data Assimilation System
LEO	Low Earth Orbit(er)
LFOA	Leopold-Figl-Observatorium für Astrophysik
LLR	Lunar Laser Ranging
LoD	Length of Day
LOD	Length of Day
lon	longitude
LQAC	Large Quasar Astrometric Catalog[ue]
LS	least-squares
LSST	Large Synoptic Survey Telescope
MA	Massachusetts, USA
MA	moving average
mas	milliarcsecond(s)
masec	milliarcseconds
MCC	Russian Mission Control Centre
MD	Maryland, USA
MeO	Métrologie Optique [Grasse SLR/LLR system]
MGEX	Multi-GNSS [Global] Experiment, Multi-GNSS Extension
MIRAGN	mid-IR AGNs
MIT	Massachusetts Institute of Technology
MJD	Modified Julian Day
MLRO	Matera Laser Ranging Observatory
MLRS	McDonald Observatory Laser Ranging Station
MORVEL	mid-ocean ridge velocities [model]
MPIfR	Max-Planck-Institut für Radioastronomie / Max Planck Institute for Radio Astronomy
msec	milliseconds
N	number
N	North [position/coordinate/direction]
NAPEOS	NAvigation Package for Earth Orbiting Satellites
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

NEQ normal equation

NGS U.S. National Geodetic Survey

NISAR NASA-ISRO Synthetic Aperture Radar [satellite]

NIST [U.S.] National Institute of Standards and Technology

NMA Norwegian Mapping Authority [Statens kartverk / Kartverket]

NNR No-net-rotation, No Net Rotation

NNT No-net-translation, No Net Translation

No. Number, Numbers

Nos. Number, Numbers

NOAA U.S. National Oceanic and Atmospheric Administration

NP SLR normal point(s)

NRAO U.S. National Radio Astronomy Observatory

ns nanosecond(s)

NSOAS National Satellite Ocean Application Service

NTP Network Time Protocol

OAM Oceanic Angular Momentum

Obs. Observatory, Observatoire, Observatório

OC Organizing Committee

O–C observed – calculated

OCA Observatoire de la Côte d'Azur

OCARS Optical Characteristics of Astrometric Radio Sources

OHIG O'Higgins [station]

OP Observatoire de Paris

OPA Observatoire de Paris

OPAR Paris Observatory IVS Analysis Center

PANDOR Pré traitement et ANalyse des mesures DORis

Pan-STARRS Panoramic Survey Telescope And Rapid Response System

PC Product Centre

PLATO Performance Simulations & Architectural Trade-Offs

PM Polar Motion

POD Precise [or Precision] Orbit Determination

POLAC Paris Observatory Lunar Analysis Center

ppb parts per billion (10-9)

PPP Precise Point Positioning

PSD post-seismic deformation

QC quality control

QCB Quality Control Board

QSO Quasi-Stellar Object [quasar]

RA right ascension

RAEGE Red Atlantica de Estaciones Geodinamicas y Espaciales

RF Reference Frame

RINEX Receiver INdependent EXchange format

rms Root Mean Square

RMS Root Mean Square

RMS3D	RMS in three dimensions
RT	real-time
RT-AC	RT Analysis Center
RT-CC	RT Combination Center
RTCM	Radio Technical Commission for Maritime Services
RTS	IGS Real-Time Service
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
SDev	standard deviation
SDSS	Sloan Digital Sky Survey
sec	second(s) [of time]
SERC	STEM [Science, Technology, Engineering and Mathematics] Education Research Centre, University of Canberra
SGP	Space Geodesy Project
SGSLR	Space Geodesy SLR [system]
SI	Système International (International System of Units)
SIC	Satellite Identification Code
SINEX	Solution (Software/technique) INdependent EXchange Format
SLR	Satellite Laser Ranging
SME	Standard-Model Extension
SNAP	SuperNova Acceleration Probe
SOFA	Standards Of Fundamental Astronomy
SOKENDAI	Graduate University for Advanced Studies
SP	SP Technical Research Institute of Sweden [SP Sveriges Tekniska Forskningsinstitut; formerly Statens Provningsanstalt]
SPOT	Satellite Pour l'Observation de la Terre
SSALTO	Segment Sol multi-mission d'ALTimétrie, d'Orbitographie et de localisation précise
SSEM	Station Systematic Error Monitoring
SVN	Apache Subversion [repository]
SWOT	Surface Water Ocean Topography [mission]
SyRTE	Systèmes de Référence Temps-Espace [department]
SYRTE	Systèmes de Référence Temps-Espace [department]
T2L2	Time Transfer by Laser Link
TAI	Temps Atomique International (International Atomic Time)
TAROT	Télescopes ï¿$\frac{1}{2}$ Action Rapide pour les Objets Transitoires
Tb	terabyte
TC	Technique Centre
TEC	Total Electron Content (Total Electron Count), total electron content
TECU	TEC Unit
TGAS	Tycho Gaia Astrometric Solution

TIGO	Transportable Integrated Geodetic Observatory
TIO	terrestrial intermediate origin
TJO	Telescopi Joan Oró
TLS	terrestrial laser scanning
TN	IERS Technical Note
ToR	Terms of Reference
TRF	Terrestrial Reference Frame
TT	Terrestrial Time
TU	Technical University
TUM	Technische Universität München (Technical University of Munich)
TWS	terrestrial water storage
TX	Texas, USA
U	Up [position/coordinate/direction]
UAW	GGOS Unified Analysis Workshop
UBAD	USNO Bright-Star Astrometric Database
UCL	University College London
UK	United Kingdom
UKMO	U.K. Meteorological Office
UMBC	University of Maryland, Baltimore County
UN	United Nations
UNAVCO	University Navstar Consortium
UNB	University of New Brunswick
UPC	URAT Parallax Catalog
URAT	USNO Robotic Astrometric Telescope
URL	Uniform Resource Locator
US	United States
USNO	United States Naval Observatory
USO	Ultra Stable Oscillator
UT	University of Texas
UT	Universal Time
UT0	Universal Time
UT1	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
VGOS	VLBI Global Observing System
VLBA	Very Long Baseline Array, NRAO
VLBI	Very Long Baseline Interferometry
VM	virtual machine
VTS	[Gaia] Validation Test Specification
VTS	Visualization Tool for Space Data
w.r.t.	with respect to
WDS	ICSU World Data System
WG	working group
WISE	Wide-field Infrared Survey Explorer
WRMS	Weighted Root Mean Square
wrms	Weighted Root Mean Square
XML	eXtensible Markup Language
yr	year
ZA	South Africa
ZPD	zenith path delay