

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>>.

A&A	Astronomy & Astrophysics	CATREF	Combination and Analysis of Terrestrial Reference Frames
AAC	Associated Analysis Centre	CATS	Create and Analyze Time Series [software]
AAM	Atmospheric Angular Momentum	CB	Central Bureau
AAS	American Astronautical Society	CC	Combination Centre
AC	Analysis Centre	CCD	Charge-Coupled Device
AC	Analysis Coordinator	CDDIS	NASA Crustal Dynamics Data Information System
ACC	[IGS] Analysis Center Coordinator	CDS	Centre de Données astronomiques de Strasbourg
AGGO	Argentinian-German Geodetic Observatory	CERGA	Centre d'Etudes et de Recherches Géodynamiques et Astronomiques
AGN	Active Galactic Nucleus [or Nuclei]	CfA	Harvard-Smithsonian Center for Astrophysics
AGU	American Geophysical Union	CFHT	Canada-France-Hawaii Telescope
AICAS	Astronomical Institute, Academy of Sciences of the Czech Republic	CLS	Collecte Localisation Satellites
AOD	atmospheric and oceanic dealiasing	CMP	Conventional Mean Pole
AOV	Asia-Oceania VLBI Group for Geodesy and Astrometry	CNES	Centre National d'Etude Spatiale
APOD	Atmospheric density Detection and Precise Orbit Determination [satellite]	CODE	Centre for Orbit Determination in Europe
APOLLO	Apache Point Observatory Lunar Laser-ranging Operation	COL	combination at/on the observation level
APSG	Asia-Pacific Space Geodynamics	C/P	Combination and Prediction
AR	[IERS] Annual Report	CPC	Climate Prediction Center
AR	autoregressive	CRF	Celestial Reference Frame
ASCII	American Standard Code for Information Interchange	CSR	Center for Space Research, University of Texas
ASI	Agenzia Spaziale Italiana	CTIO	Cerro Tololo Inter-American Observatory
AUS	= AUSLIG	DB	Directing Board
AUSLIG	Australian Surveying and Land Information Group (now: Geoscience Australia)	DC	District of Columbia, USA
AWG	Analysis Working Group	Dec, DEC	declination
BACC	Beijing Aerospace [Command and] Control Center	deg	degree
BIH	Bureau International de l'Heure	DGFI	Deutsches Geodätisches Forschungsinstitut
BIPM	Bureau International des Poids et Mesures	DiFX	Distributed FX
BKG	Bundesamt für Kartographie und Geodäsie	DIODE	Détermination Immédiate d'Orbite par Doris Embarqué
BVID	Bordeaux VLBI Image Database	DIS	IERS Data and Information System
CA	California, USA	DOI, doi	Digital Object Identifier
Caltech	California Institute of Technology	DOMES	Directory Of MERIT Sites (originally; now of more general use)
		DORIS	Doppler Orbit determination and Radiopositioning Integrated on Satellite
		DOR-O-T	DORIS Online Tools

Appendices

DR	Data Release		
DSS	Digitized Sky Survey	GMES	Global Monitoring of Environment and Security
DTRF	ITRS realization by DGFI		
DUT1	= UT1–UTC	GEST	Goddard Earth Science and Technology Center
E	East [position/coordinate/direction]	GFO	GEOSAT Follow-On [satellite]
EAM	Effective Angular Momentum	GFZ	GeoForschungsZentrum Potsdam
ECCO	Estimating the Circulation and Climate of the Ocean	GGAO	Goddard's Geophysical and Astronomical Observatory
ECMWF	European Center for Medium Range Weather Forecasting	GGFC	Global Geophysical Fluids Centre
EGSG	Extra-Galactic Science with Gaia	GGOS	Global Geodetic Observing System
EGU	European Geosciences Union	GGRF	Global Geodetic Reference Frame
EMR	Energy, Mines and Resources Canada (replaced by NRCan)	GHz	gigahertz
EMRP	European Metrology Research Program[me]	GINS	Geodesy by Simultaneous Digital Integration [software]
ENVISAT	Environmental Satellite	GIOVE	Galileo In-Orbit Validation Element
EO	Earth Orientation	GIQC	Gaia Initial Quasar Catalog[ue]
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]
EOST	École et Observatoire des Science de la Terre		
ERA	ECMWF Reanalysis Data	GLOUP	GLObal Undersea Pressure
ERP	Earth Rotation Parameters	GNSS	Global Navigation Satellite System
ESA	European Space Agency	GOP	Geodetic Observatory Pecny
ESOC	European Space Operations Center, ESA	GPS	Global Positioning System
EUMETSAT	European Organisation for the Exploitation of Meteorological Satellites	GRACE	Gravity Recovery and Climate Experiment
EVGA	European VLBI [Group] for Geodesy and Astrometry	GRASP	Geodetic Reference Antenna in Space
e-VLBI	Electronic transfer VLBI	GRAIL	Gravity Recovery and Interior Laboratory
FedEx	Federal Express Corporation Inc.	GRGS	Groupe de Recherches de Géodésie Spatiale
FNMOC	[US Navy] Fleet Numerical Meteorology and Oceanography Center	GSC	GSFC Analysis Center
frd	femtorad[ian]	GSFC	Goddard Space Flight Center
FTP, ftp	File Transfer Protocol	GSI	Geospatial Information Authority of Japan
GA	General Assembly	HAM	Hydrological Angular Momentum
GA	Geoscience Australia	HEIMDALL	High-End Interface for Monitoring and spatial Data Analysis using L2-Norm
GAGNES	Gaia for AGN and Extragalactic Science	HEO	High Earth Orbiter
Gb	gigabyte	hr	hour, hours
GB	Governing Board	HY	HaiYan / Haiyang [satellite]
GCRF	Gaia Celestial Reference Frame	IAA	Institute of Applied Astronomy, St. Petersburg
GDR	Geophysical Data Record	IAG	International Association of Geodesy
GDSCC	Goldstone Deep Space	IAU	International Astronomical Union

5 Acronyms

IB	Inverted Barometer	IUGG	International Union of Geodesy and Geophysics
ICRF	International Celestial Reference Frame	IVOA	International Virtual Observatory Alliance
ICRS	International Celestial Reference System	IVS	International VLBI Service for Geodesy and Astrometry
ICSU	International Council for Science	JADE	JAPANESE Dynamic Earth observation by VLBI
IDS	International DORIS Service	Jason-CS	Jason Continuity of Service [mission]
IERS	International Earth Rotation and Reference Systems Service	JMA	Japan Meteorological Agency
IfE	Institut für Erdmessung [Institute of Geodesy], University of Hannover	JPL	Jet Propulsion Laboratory
IGG, IGGB	Institute of Geodesy and Geoinformation of the University of Bonn	JTRF	ITRS realization by JPL
iGMAS	International GNSS Monitoring and Assessment System	JSON	JavaScript Object Notation
IGN	Institut National de l'Information Géographique et Forestière (formerly: Institut Géographique National)	KALREF	Kalman filter for Reference frames
IGR	IGS rapid [products / satellite orbits]	LAREG	Laboratoire de Recherche en Géodésie
IGS	International GNSS Service	LARGE	Laser Ranging to GNSS s/c Experiment
ILRS	International Laser Ranging Service	lat	latitude
ILW	International Workshop on Laser Ranging	LDAS	Land Data Assimilation System
IMCCE	Institut de Mécanique Céleste et de Calcul des Éphémérides	LEO	Low Earth Orbit(er)
INASAN	INstitut ASTRonomii Rossijskoj Akademii Nauk (Institute of Astronomy of the Russian Academy of Sciences)	LFOA	Leopold-Figl-Observatorium für Astrophysik
INFN	Istituto Nazionale di Fisica Nucleare [National Institute for Nuclear Physics]	LLR	Lunar Laser Ranging
Int.	International	LOD	Length of Day
INT, Int.	Intensive [VLBI session]	lon	longitude
IP	Internet Protocol	LQAC	Large Quasar Astrometric Catalog[ue]
IPGP	Institut de Physique du Globe de Paris	LQRF	Large Quasar Reference Frame
IPGS	Institut de Physique du Globe de Strasbourg	LRO	Lunar Reconnaissance Orbiter
IRAF	Image Reduction and Analysis Facility	LS	least-squares
IRIS	International Radio Interferometric Surveying	LSDM	Land Surface Discharge Model
IRNSS	Indian Regional Navigation Satellite System	MA	Massachusetts, USA
ISO	International Organization for Standardization	mas	milliarcsecond(s)
ITRF	International Terrestrial Reference Frame	μas	microarcsecond(s)
ITRS	International Terrestrial Reference System	MCC	Russian Mission Control Centre
		MD	Maryland, USA
		MeO	Métrie Optique [Grasse SLR /LLR system]
		MERIT	Monitoring Earth Rotation and Inter-comparison of Techniques
		MGEX	Multi-GNSS Experiment
		MIT	Massachusetts Institute of Technology
		MJD	Modified Julian Day
		MLRS	McDonald Observatory Laser Ranging Station
		MOE	Medium Orbit Ephemeris
		MOG2D	two-dimensional barotropic gravity wave ocean model

Appendices

MPIfR	Max-Planck-Institut für Radioastronomie / Max Planck Institute for Radio Astronomy	OP, OPA	Observatoire de Paris
ms	millisecond(s)	ORB	Observatoire Royal de Belgique
μs	microsecond(s)	PBO	Plate Boundary Observatory
N	North [position/coordinate/direction]	PC	Product Centre
N	number	PCO	phase center offset
N/A	not available	PM	Polar Motion
NASA	U.S. National Aeronautics and Space Administration	POC	point of contact
Nat.	National, Nacional	POD	Precise [or Precision] Orbit Determination
NATML	non-tidal atmospheric pressure loading	POLAC	Paris Observatory Lunar Analysis Center
NAVGEN	[U.S.] Navy Global Environmental Model	PPP	Precise Point Positioning
NCEP	U.S. National Centers for Environmental Prediction	PSD	post-seismic deformation
NEQ	normal equation	PSF	point spread function
NEU	North, East, Up [position/coordinates/directions]	PUL	Pulkovo Observatory
NGL	Nevada Geodetic Laboratory	PZT	Photographic Zenith Tube [or Telescope]
NIST	[U.S.] National Institute of Standards and Technology	QSO	Quasi-Stellar Object [or quasar]
NMA	Norwegian Mapping Authority	RA	right ascension
NMC	National Meteorological Center (replaced by NCEP)	RAEGE	Red Atlantica de Estaciones Geodinamicas y Espaciales
NNR	No-net-rotation	R&D	Research and Development
No.	Number	REFAG	[Symposium on] Reference Frames for Applications in Geosciences
NOAA	U.S. National Oceanic and Atmospheric Administration	REGINA	Regional glacial isostatic adjustment and CryoSat elevation rate corrections in Antarctica
NOFS	[U.S.] Naval Observatory Flagstaff Station	RINEX	Receiver INdependent EXchange format
NORAD	North American Aerospace Defense Command	RMS	Root Mean Square
NP	SLR normal point(s)	RRFID	USNO Radio Reference Frame Image Database
NRAO	[U.S.] National Radio Astronomy Observatory	RS/PC	IERS Rapid Service/Prediction Center
NRCan	Natural Resources, Canada (formerly: EMR)	RF	radio frequency
nrd	nanorad[ian]	RT	radio telescope
NTP	Network Time Protocol	RT	real-time
OAM	Oceanic Angular Momentum	RTCM	Radio Technical Commission for Maritime Services
OBP	Ocean Bottom Pressure	RTS	IGS Real-Time Service
Obs.	Observatory, Observatoire	SAA	South Atlantic Anomaly
OCARS	Optical Characteristics of Astrometric Radio Sources	SARAL	Satellite with ARGOS and ALTIKA
OHIG	O'Higgins [station]	SB	Special Bureau
		SBA	GGFC Special Bureau for the Atmosphere
		SBCP	GGFC Special Bureau for the Combination Products

5 Acronyms

SBH	GGFC Special Bureau for Hydrology	TRF	Terrestrial Reference Frame
SBO	GGFC Special Bureau for the Oceans	TT	Terrestrial Time
s/c	spacecraft	TU	Technical University
SDSS	Sloan Digital Sky Survey	TUM	Technical University of Munich
sec	second(s) [of time]	TUW	Technische Universität Wien (Vienna University of Technology)
SG	space-geodetic	TV	television
SGP	Space Geodesy Project	TWS	terrestrial water storage
SGSLR	Space Geodesy SLR [system]	UAW	Unified Analysis Workshop
SHAO	Shanghai Observatory	UBAD	USNO Bright-Star Astrometric Database
SIC	Satellite Identification Code	UCAC	USNO CCD Astrograph Catalog
SINEX	Solution (Software/technique) INdependent EXchange Format	UCL	University College London
SIO	Scripps Institution of Oceanography	UK, U.K.	United Kingdom
SLR	Satellite Laser Ranging	UKMO	U.K. Meteorological Office
SNR	signal-to-noise ratio	ULR	University of La Rochelle
SOFA	Standards Of Fundamental Astronomy	UMBC	University of Maryland, Baltimore County
SOKENDAI	Graduate University for Advanced Studies	UN	United Nations
SONEL	Système d'Observation du Niveau des Eaux Littorales	UNB	University of New Brunswick
SOPAC	Scripps Orbit and Permanent Array Center	UNAVCO	University Navstar Consortium
SPOT	Satellite Pour l'Observation de la Terre	UN-GGIM	Global Geospatial Information Management Initiative of the UN
SSALTO	Segment Sol multi-mission d'ALTimétrie, d'Orbitographie et de localisation précise	Uni, Univ.	University
STCD	STation Coordinates Difference	URAT	USNO Robotic Astrometric Telescope
SWOT	Surface Water Ocean Topography [mission]	URL	Uniform Resource Locator
SYRTE	(Laboratoire) Systèmes de Référence Temps-Espace	US, U.S.	United States
TAI	Temps Atomique International (International Atomic Time)	USNO	United States Naval Observatory
TAROT	Télescopes à Action Rapide pour les Objets Transitoires	USO	Ultra-Stable Oscillator
TB	terabyte	UT	University of Texas
TBC	to be confirmed	UT, UT0, UT1,	
TC	Technique Centre	UT2R	Universal Time
TE	Temps des éphémérides / Ephemeris time	UTAAM	NOAA AAM analysis and forecast data
TIGO	Transportable Integrated Geodetic Observatory	UTC	Coordinated Universal Time
TJO	Telescopi Joan Oró	VCS	VLBA Calibrator Survey
TN	[IERS] Technical Note	VEX	VLBI Experiment Documentation
ToR	Terms of Reference	VGOS	VLBI Global Observing System
		VLBA	Very Long Baseline Array, NRAO
		VLBI	Very Long Baseline Interferometry
		VO	Virtual Observatory
		WDS	ICSU World Data System
		WG	working group
		WRMS	Weighted Root Mean Square
		XML	eXtensible Markup Language
		yr	year