

## Appendix 3: Abbreviations

1hT	One Hectare Telescope: original working title for the Allen Telescope Array (USA)
AIAA	American Institute of Aeronautics and Astronautics
ALCOR	Astronomical Lighting Control Regions (for Observatories)
ALFA	Astronomical Low Frequency Array
ALMA	Atacama Large Millimeter Array
ATN	Automatic Telescope Network
ATNF	Australia Telescope National Facility
AUASS	Arab Union for Astronomy and Space Science
AURA	Association of Universities for Research in Astronomy
BAO	Beijing Astronomical Observatory (China)
BRM	Bureau of Radio Management (China)
BSS	Broadcasting Satellite Service
CCD	Charge Coupled Device
CCIR	Comité Consultatif International des Radiocommunications (ITU)
CEN	European Committee for Standardization
CEPT	Conférence Européen des Postes et des Telecommunications
CIE	Commission Internationale d'Eclairage <a href="http://www.cie.co.at/cie/">http://www.cie.co.at/cie/</a>
COBE	Cosmic Background Explorer (NASA satellite)
CONAMA	Comision Nacional del Medio Ambiente (Chile)
CONICYT	Chilean Science Foundation
COPUOS	Committee on the Peaceful Uses of Outer Space (UN) <a href="http://www.oosa.unvienna.org/COPUOS/copuos.html">http://www.oosa.unvienna.org/COPUOS/copuos.html</a>
CORF	Committee on Radio Frequencies (USA) <a href="http://www.nas.edu/bpa/corf/">http://www.nas.edu/bpa/corf/</a>
COSPAR	Committee on Space Research <a href="http://cospar.itodys.jussieu.fr/">http://cospar.itodys.jussieu.fr/</a>
CRAF	Committee on Radio Astronomy Frequencies (ESF) <a href="http://www.nfra.nl/craf/">http://www.nfra.nl/craf/</a>
CrAO	Crimean Astrophysical Observatory
CTIO	Cerro Tololo Inter-American Observatory (Chile)
DLOR	Downward Light Output Ratio
DLR	German Aerospace Centre (Deutsches Zentrum für Luft- und Raumfahrt)
DMSP	Defence Meteorological Satellite Program
DRAO	Dominion Radio Astrophysical Observatory (Canada)
EAAE	European Association for Astronomy Education
EC	European Commission
EESS	Earth Exploration-Satellite Service
EIRP	Effective Isotropic Radiated Power (radio)
EIS	Environmental Impact Statement
EISCAT	European Incoherent Scatter Scientific Association
EMI	Electro Magnetic Interference
ERC	European Radiocommunications Committee
ERO	European Radiocommunications Office

ESA	European Space Agency
ESF	European Science Foundation
ESO	European Southern Observatory
ETSI	European Telecommunications Standards Institute
FAAQ	Fédération des Astronomes Amateurs du Québec
FAST	Five-hundred-meter Aperture Spherical Telescope (China)
FCC	Federal Communications Commission (USA)
FIRST	Far InfraRed and Submillimetre Telescope
FLWO	F. L. Whipple Observatory (USA)
FFT	Fast Fourier Transform
FSS	Fixed Satellite Service
GBT	Greenbank Telescope (USA)
GEO	Geostationary Orbit
GLONASS	Global Navigation Satellite System (Russia)
GMRT	Giant Metre-wave Radio Telescope (India)
GMS	Geostationary Meteorological Satellite
GMSK	Gaussian-filtered Minimum-Shift Keying (modulation scheme)
GNAT	Global Network of Astronomical Telescopes
GPS	Global Positioning System (USA)
GSM	Grating Scale Monitor
GSO	Geostationary Orbit
HAPS	High Altitude Platform System
HCA	Hungarian Communication Authority
HF	High Frequency (band) 3-30 MHz
HPS	High-Pressure Sodium (lamp)
HSOS	Huairou Solar Observing Station (China)
IAA	International Academy of Astronautics
IADC	Inter-Agency Space Debris Coordinating Committee
IAU	International Astronomical Union <a href="http://www.iau.org/">http://www.iau.org/</a>
ICAO	International Civil Aviation Organization
ICSU	International Council for Science <a href="http://www.icsu.org/">http://www.icsu.org/</a>
IDA	International Dark-Sky Association <a href="http://www.darksky.org/ida/">http://www.darksky.org/ida/</a>
IDMP	International Daylight Measurement Program (CIE, WMO)
IEC	International Electrotechnical Commission <a href="http://www.iec.ch">http://www.iec.ch</a>
IF	Intermediate Frequency (in a radio receiver)
ILE	Institution of Lighting Engineers (UK)
INMARSAT	International Maritime Satellite service
IRA	Institute of Radio Astronomy (Ukraine)
IRAM	Institut de Radio Astronomie Millimetrique
IRQZ	International Radio Quiet Zone
ISO	International Organization for Standardization <a href="http://www.iso.ch">http://www.iso.ch</a>
ITU	International Telecommunication Union
ITU-R	Radiocommunication Sector of ITU
IUCAF	Inter-Union Commission on Frequency Allocation for

	Radio Astronomy and Space Science <a href="http://www.mpifr-bonn.mpg.de/staff/kruf/iucaf/">http://www.mpifr-bonn.mpg.de/staff/kruf/iucaf/</a>
IUGG	International Union of Geodesy and Geophysics
JAC	Joint Astronomy Centre (Hawaii, USA)
JIVE	Joint Institute for VLBI in Europe
KARST	Kilometer-square Area Radio Synthesis Telescope (China)
KPNO	Kitt Peak National Observatory (USA)
LDEF	Long Duration Exposure Facility (NASA)
LED	Light emitting diode
LEO	Low Earth Orbit
LO	Local Oscillator (in a radio receiver)
LOFAR	Low Frequency Array (Netherlands and USA)
LPS	Low-Pressure Sodium (lamp)
LSB	Lower Sideband (radio receiver)
MAO	Main Astronomical Observatory (Kiev, Ukraine)
MASTER	Millimetre-wave Acquisitions for Stratosphere-Troposphere Exchanges Research (ESA)
MH	Metal halide (lamp)
MLS	Microwave Landing System
MLS	Microwave Limb Sounder (EESS)
MMDS	Multichannel Microwave Distribution System (China)
MSRT	Miyun Synthesis Radio Telescope (China)
MSS	Mobile Satellite Service
MU	Mobile User (INMARSAT)
NASA	National Aeronautics and Space Administration (USA)
NATO	North Atlantic Treaty Organization
NFRA	Netherlands Foundation for Research in Astronomy
NGDC	National Geophysics Data Center (USA)
NGSO	Non Geo Stationary Orbit (satellite system)
NOA	National Observatory of Athens (Greece)
NOAA	National Oceanographic and Atmospheric Administration (USA)
NOAO	National Optical Astronomy Observatories (USA)
NRAO	National Radio Astronomy Observatory (USA)
NRO	Nobeyama Radio Observatory (Japan)
NSA	Nançay Surveillance Antenna (France)
NSB	Night sky brightness
OCS	Observatory Control System
OECD	Organization for Economic Cooperation and Development
OLC	Outdoor Lighting Code (USA)
OLS	Operational Linescan System (of the DMSP satellites)
PEDAS	Potentially Environmentally Detrimental Activities in Space (COSPAR Panel)
PMO	Purple Mountain Observatory (China)
PMT	Photo Multiplier Tube
PVS	Polynesian Voyaging Society
RCT	Remotely Controlled Telescope (USA)
RFI	Radio Frequency Interference
RQZ	Radio Quiet Zone

RSA	Russian Space Agency
SAWF	Surface-Acoustic-Wave Filter (radio)
SAIt	Italian Astronomical Society
SCOPE	Standing Committee on the Problems of the Environment
SERNATUR	Servicio Nacional de Turismo (Chile)
SEST	Swedish ESO Submillimetre Telescope (Chile)
SETI	Search for Extra-Terrestrial Intelligence
SHAO	Shanghai Astronomical Observatory (China)
SIS	Superconductor-Insulator-Superconductor (mixer device)
SKA	Square Kilometer Array
SOAR	Southern Observatory for Astrophysical Research
SOC	Scientific Organizing Committee
SOFIA	Stratospheric Observatory for Infrared Astronomy
SOPRANO	Sub-mm Observation of Processes in the Atmosphere Noteworthy for Ozone (ESA)
SS	Space Station (INMARSAT)
SSB	Single Sideband (radio receiver)
SVLBI	Space Very Long Baseline Interferometry
TC	Technical Committee (of the CIE)
TCS	Telescope Control System
TDRSS	Tracking and Data Relay Satellite System
TG	Task Group (of the ITU)
TÜBİTAK	Scientific and Technical Research Council of Turkey
UAO	Urumqi Astronomical Observatory (China)
ULOR	Upward Light Output Ratio
UN	United Nations
UNESCO	United Nations Educational, Scientific and Cultural Organization
UN-OOSA	UN Office for Outer Space Affairs
URSI	Union Radio-Scientifique International <a href="http://www.intec.rug.ac.be/ursi/">http://www.intec.rug.ac.be/ursi/</a>
ULOR	Upward Light Output Ratio
USB	Upper Sideband (radio receiver)
UWLR	Upward Waste Light Ratio
VHF	Very High Frequency (band) 30-300 MHz
VLA	Very Large Array (USA)
VLBI	Very Long Baseline Interferometry
VLT	Very Large Telescope (European Southern Observatory)
VMM	Vlaamse Mileu Maatschappij (Belgium)
VSOP	VLBI Space Observatory Programme
VST	VLT Survey Telescope (European Southern Observatory)
WARC	World Administrative Radio Conference (ITU)
WEBT	Whole Earth Blazar Telescope
WMO	World Meteorological Union
WRC	World Radio Conference (ITU)
YAO	Yunnan Astronomical Observatory (China)