

THE NDB LIST ABBREVIATIONS FILE:

Edition 29

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Below is a list of common, and not so commonly used abbreviations, which may be found in postings on the NDB List, DGPS List, DSC List and NAVTEX DX Lists, as well as various aeronautical and maritime publications and charts, and in some radio club bulletins too. This edition only contains a limited number of entries and is only intended for the use mainly of beacon, DGPS, DSC and NAVTEX enthusiasts. If members can contribute any more items for future editions - non-English terms will be especially appreciated - these will be useful to our list members, and to beacon enthusiasts in general. We'll be very happy to receive all contributions, and there's no reason why we can't produce our own original abbreviations as well, after all, if these can help to make postings easier then why shouldn't we?

Some of the terms shown are rarely used, or even outdated, but are shown anyway as they may prove useful someday. Some are taken from 'official' publications, and are often only used by a specific service, but since we've often noticed that these are usually the hardest ones to track down when you do need them, we've decided to include them anyway.

Hopefully this list will now be updated on a regular basis, and it will be available from the NDB List website at: <https://www.ndblistinfo/welcomehtm>

ABBREVIATION:	MEANING OR USAGE:
5m	5 Meter Band (60 MHz) – mainly used in Ireland, but some other propagation Beacons may be found there
6m	6 Meter Band (50 MHz)
8m	8 Meter Band (40 MHz) – mainly just used in Ireland, but some other propagation beacons may be found there
10M	10 Meter Band (28 MHz)
10Mtrs	(As above)
51	Good Luck (Morse Abbreviation)
55	Best Success (Morse Abbreviation)
7030	AOR 7030 receiver
73	Best wishes (Morse Abbreviation used at end of messages)
88	Love & Kisses (Morse Abbreviation used at end of messages to opposite sex)
A1A	On-off keying of the unmodulated carrier - requires BFO to be switched to the 'ON' position all the time (if your receiver doesn't have a BFO it should be switched to the 'CW' position)
A2A	On-off keying of modulating audio frequency during the identification period, when the carrier is either continuous or keyed with an audio frequency and the BFO switched off. There is a modulating audio frequency on the carrier during the DF period, when the BFO may be switched on or off
A3E	Telephony using Amplitude Modulation with Double Sideband
AAF	Army Air Field
AAATS	Australian Advanced Air Traffic Services
AB	Airbase
ABB	Abbreviations
ABn	Aerodrome Beacon
abt	About (Morse Abbreviation)
AC	Alternating Current
ACARS	Aircraft Communications Addressing and Reporting System
ACC	Area Control Centre
acc	Accepted
A/C	Aircraft
ACT	Australia Central Time
A/D	Aerodrome
A/D	Analog/Digital
Addn	Addition
Addr	Address
ADF	Automatic Direction Finder
[ADMIN]	Message relating to the operating of the NDB List or Group
AENA	Aeropuertos Españoles y Navegación Aérea (Spanish Aviation Authority)

AERAD	Flight Information Publication produced by Racal Aerad
AET	Australia Eastern Time
Af	Africa
AF	Audio Frequency
AFAIK	As Far As I Know
AFB	Air Force Base
AFC	Automatic Frequency Control
AFD	Airport Facility Directory
AFIS	Aerodrome Flight Information Service
a fld	Airfield
AFOD	US Army Flight Operations Detachment
AFSK	Audio Frequency Shift Keying - A digital mode of radio communications where the RF carrier stays on the air throughout the transmission and a modulating audio tone is shifted in frequency
AFTN	Aeronautical Fixed Telecommunications Network
A/G	Air/Ground communication station
AGC	Automatic Gain Control
AGL	Above Ground Level
agn	Again
AGT	Argentina Standard Time
AHP	Army Heliport
AIC	Aeronautical Information Circular
AIDU	Aeronautical Information Documents Unit (RAF)
A Index	An average daily measurement of geomagnetic field activity Produced by taking the 3 hourly 'K' index measurements and averaging them
AIP	Aeronautical Information Publication
AIRAC (airac)	Aeronautical Information Regulation and Control
AIS	Aeronautical Information Service
AL2004	'NDB Address List 2004' publication, produced by Malmoe Shortwave Club
ALC	Automatic Level Control (often used with Tape Recorders)
ALRS	Admiralty List of Radio Signals
alt	Alternate/Alternative
AM	Amplitude Modulation
ANARC	Association of North American Radio Clubs
ANG	Air National Guard
ani	Any (Morse Abbreviation)
ant	Antenna
AOC	Area of Coverage
AOPA	Aircraft Owners and Pilots Association
Ap	Planetary 'A' Index
ARB	Air Reserve Base
ARINC	Aeronautical Radio Incorporated
ARNS	Aeronautical Radionavigation Service
ARQ	Automatic Repetition ReQuest (SITOR Mode A)
ARRL	American Radio Relay League
ART	(Arabic) Egypt Standard Time 5/1 ~ 10/1
As	Asia
asap	As Soon As Possible
ASCII	American Standard Code for Information Interchange
ASK	Amplitude Shift Keying
ASL	Above Sea Level
assoc	Association
AST	Alaska Standard Time
ATA	Actual Time of Arrival
ATA	Air Transport Association of America
ATC	Air Traffic Control
ATCC	Air Traffic Control Centre
ATCRBS	Air Traffic Control Radar Beacon System
ATIS	Automatic Terminal Information Service
ATON	Aids To Navigation
ATS	Air Traffic Services
ATTN	Attention
AUW	All Up Weight
AUX	Auxilliary
AV	Audio/Visual
AVC	Automatic Volume Control (often used with Tape Recorders)
Awg	American Wire Gauge
AWOS	Automated Weather Observing System
Awy	Airway
az	Azimuth
AZ	Arizona (USA)

B	Beam
B ₁	First character (B1) = station ID (used in Navtex broadcasts)
B ₂	Second character (B2) = message content (subject indicator characters)
B ₃	Message Serial Number
B ₄	Message Serial Number
b4	Before (Morse Abbreviation)
BAA	British Airports Authority
Baken	German and Dutch name for Beacon
Balise	French name for Beacon
Baud	Digital Mode Signalling Speed
BBC	British Broadcasting Corporation
BBCM	BBC Monitoring Service
BC	Broadcast
BCB	Broadcast Band
BCD	Binary Coded Decimal
BCI	Broadcast Interference
BCL	Broadcast Listener
bcns	Beacons
bcnu	Be Seeing You (Morse Abbreviation)
BCS	Beacon Control System
bcst	Broadcast
Bd	Baud
BDXC	Benelux DX Club
BDXC	British DX Club (UK)
Beaconeer	Person who monitors radiobeacons
BET	Brazil Eastern Time
BFO	Beat Frequency Oscillator
Big Donut	The Auroral ring caused by the geomagnetic field which appears over the North and South Poles
Birdie	Spurious signal internally generated within a radio receiver
bit	A single unit in Binary Data
bk	Break (Morse Abbreviation)
BNC	Bayonet Niell-Concelman - Bayonet describes the coupling mechanism, Neill and Concelman were the inventors of the N and C coax connectors
Boat Anchor	Antique ham radio equipment Usually so named because of weight and size
BPF	Band Pass Filter
BPM	Callsign of the Chinese Time Signal Station
bps	Bits Per Second
brg	Bearing
BST	British Summer Time
BST	Bangladesh Standard Time
btw	By The Way (Morse Abbreviation, also used in e-mail)
byte	Eight Bits of Binary Information
buro	QSL Bureau (Morse Abbreviation)
C	Continuously running radiobeacon
C	Celsius/Centigrade (degrees)
c/a	Central Address
CAA	Civil Aviation Authority (UK)
CAA	Civil Aviation Administration (Finland)
Cal	Calibration Beacon/Station
Cans	Headphones
CAM	Central America/Caribbean
Carrier	Unmodulated output of a radio transmitter
CAT	Central African Time
CAT	Category
CCIR	International Radio Consultative Committee
CCIT	International Telegraph and Telephone Consultative Committee
cct	Circuit (Morse Abbreviation)
CCW	Coherent CW
CCW	Coded Continuous Wave
cd	Card (QSL)
CENA	Centred' Études de la Navigation Aérienne (France)
CET	Central European Time
CF	Centre Frequency
cfm	Confirm (Morse Abbreviation)
CG	Coast Guard
Ch	Channel
Chan	Channel
Chirp	Changes in the carrier frequency of a Morse code transmitter, usually caused by power supply problems

chk	Check (Morse Abbreviation)
CHU	Canadian Time Signal Station
CIL	Commissioners of Irish Lights
CIO	Carrier Insertion Oscillator
CIS	Commonwealth of Independent States
civ	Civilian Airport Beacon
clbr	Calibration
cld	Called (Morse Abbreviation)
CLE	Co-ordinated Listening Event
CLNC	Clearance
clsd	Closed
CLWSU	Canadian Long Wave Searchable Database
clg	Calling (Morse Abbreviation)
CMB	Continuous Marine Broadcast
CME	Coronal Mass Ejection
CMOS	Complementary-symmetry Metal-Oxide Semiconductor
CNS	Communication, Navigation and Surveillance
CNT	Canada Newfoundland Time
Co	County
COAA	Centro de Observação Astronómica no Algarve
com	Communication
COMSAR	The Sub-Committee on Radiocommunications and Search and Rescue
Comsn	Commissioned
CON	Consol Beacon
condx	Conditions (Morse Abbreviation)
cont	Continuous
CONUS	Continental United States
condx	Conditions(Morse Abbreviation)
CORS	Continuously Operating Reference Stations
CPFSK	Continuous Phase Frequency Shift keying
cpi	Copy (Morse Abbreviation)
cps	Cycles Per Second
CPU	Central Processing Unit
cpy	Copy (Morse Abbreviation)
CQ	General Call (Morse & Telephony Abbreviation)
CRC	Cyclic Redundancy Check
CROSS	Centres Régionaux Opérationnels de Surveillance et de Sauvetage
CRS	Coastal Radio Station
CRT	Cathode Ray Tube
c/s	Callsign
CST	Central Standard Time
CTT	China Taiwan Time
cu	See You (Morse Abbreviation)
cu agn	See You Again (Morse Abbreviation)
cud	Could (Morse Abbreviation)
cul	See You later (Morse Abbreviation)
CW	Continuous Wave (Morse Code)

D	Dipole
DAB	Digital Audio Broadcasting
DAID	Dash After ID
DARC	Deutscher Amateur Radio Club
DAT	Digital Audio Tape
daylt	Daylight
DBID	Dash Before ID
dB	Decibel (1/10 of a Bel); unit for the ratio of two power measurements
dBc	In terms of RF signals, dBc is Decibels relative to the carrier level
dBd	Decibels above or below a dipole antenna
dB _i	Decibels above or below an isotropic antenna
DBW	Decibels, Watt
dc	Direct Current
DC	District of Columbia (e.g. Washington DC)
dd	Used to signify 'day' in two digit format e.g. dd = 12 or 06 (12th or 6th)
de	From (Morse Abbreviation)
DE	Delaware (USA)
decom	Decommissioned
Deg	Degrees
DERA	Defence Evaluation and Research Agency (UK)
DFC77	Callsign of the German Time Signal Station on 775 kHz
D/F	Direction Finding
DFS	Deutsche Flugsicherung (German Civil Aviation Organisation)

DGAC	La Direction de l'Aviation Civile (French Civil Aviation Authority)
DGPS	Differential Global Positioning System
dip	Dipole
dist	Distance
D-layer:	Lowest region of the ionosphere found approximately 25 to 55 miles above the Earth
DM	Deutsche Mark (former German currency)
DME	Distance Measuring Equipment
dn	Down (Morse Abbreviation)
DND	Department of National Defence (Canada)
DoD	US Department of Defense
DOI	Department of the Interior (US)
DOT	Department of Transportation (US)
dp	Dipole
DPSK	Differential Phase Shift Keying; a form of BPSK where only data transitions are transmitted
Drift:	Slow, gradual change in the frequency of a transmitter or receiver
dr	Dear (Morse Abbreviation)
DRM	Digital Radio Mondiale (new digital BC system for MW & SW)
drms	Distance Root Mean Squared
DSB	Double Side Band
DSC	Digital Selective Calling
DSP	Digital Signal Processing
Dst	Disturbance Storm Time Index
DST	Daylight Saving Time
DSWCI	Danish Short Wave Club International
DT	Daylight Saving Time
DTL	Delta Loop
DVD	Digital Versatile Disc
DVM	Digital Volt Meter
dVOR	Doppler VOR
DX	Term used to describe a signal received from a long distance, or from a rarely heard station
DXLD	DX-Listening Digest (newsletter)
(e)	If this letter is heard after an ident ,it often means there is a problem with the transmitter This extra (e) will alert the beacon operators to the problem, and inform users that the NDB is operating on its 'emergency', or back up transmitter
E	East
EAT	Eastern African Time
EAWRC	East & West Radio Club (Germany)
ECC	Error Correction Code
ECSSB	Exalted-Carrier Single Sideband
ECT	European Central Time
EDXC	European DX Council
EE	English Language
EET	Eastern European Time
EIRP	Effective Isotropic Radiated Power
el	Element (Morse Abbreviation)
E-Layer:	Region of the ionosphere found approximately 55 to 90 miles above Earth
elev	Elevation
ELF	Extremely Low Frequencies (3 to 30 kHz)
Elmer	A mentor, an experienced operator who tutors newer operators
ELT	Emergency Locator Transmitter
EMC	Electro Magnetic Compatibility
EMF	Electro Motive Force
EMI	Electro Magnetic Interference
EMP	Electro Magnetic Pulse An extremely high-energy magnetic field
EMWG	Euro-African Medium Wave Guide (sadly no longer published)
ENDBH	European NDB Handbook (book)
ENE	East North East
enrt	En-route
enuf	Enough (Morse Abbreviation)
EPIRB	Emergency Position Indicating Radio Beacon
eqpt	Equipment
e-QSL	Electronic QSL
ERC	European Radiocommunications Committee
erp	Effective Radiated Power
emrp	Effective Monopole Radiated Power
enr	En Route Beacon

es	'and' (Morse Abbreviation)
ESA	European Space Agency
ESE	east South East
est	Estimated
EST	Eastern Standard Time
ETA	Estimated Time of Arrival
ETD	Estimated Time of Departure
Eu	Europe
EUM	European Mediterranean Region
EUNL	European Utility Newsletter (no longer published, now the EUNL Reflector)
EUR	Europe
EURO	New European currency used by many EC countries
eve	Evening (Morse Abbreviation)
f	Folder (QSL)
F	Fahrenheit (degrees)
F1B	Radioteletype - Mode used for Navtex Broadcasts
F2B	Data Transmission using Frequency Modulation for automatic reception
F3E	Telephony, Frequency Modulation
F3C	Facsimile, by direct modulation of carrier frequency
FAA	Federal Aviation Administration
Fah	Fahrenheit
FANS	Future Air Navigation System
FAQ	Frequently Asked Questions
Fax	Facsimile
fb	Fine Business (Morse Abbreviation)
fcst	Forecast
F/D	Full Data (Full Detailed)
F/DL	Full Data Letter
FEC	Forward Error Correction
FEMA	Federal Emergency Management Agency
fer	For (Morse Abbreviation)
FET	Field Effect Transistor
FF	French Language
FFT	Fast Fourier Transform
FIH	Flight Information Handbook
FIR	Flight Information Region
FIS	Flight Information Service
F-Layer:	Region of the ionosphere found approximately 90 to 400 miles above Earth
FL	Flight Level
FLIP	Flight Information Publication
FLO	Forsvarets Logistikkorganisasjon
FM	Frequency Modulation
FM	Fan marker
fm	From (Morse Abbreviation)
fo	Foto (photo)
FONE	Phone (Telephony - Morse Abbreviation)
FPSO	Floating Production, Storage and Offloading system
freq	Frequency
Fri	Friday
FRP	Federal Radionavigation Plan
FRS	Federal Radionavigation Systems
FSK	Frequency Shift Keying
FSL	Ferrite Sleeve Loop
FSS	Flight Service Station
ft	Feet
FTP	File Transfer Protocol
F/UP	Follow Up
FWIW	For What it's Worth
FWL	Full Wave Loop
FYI	For Your Information
G1D	Phase Modulation with data transmission (e.g. DGPS)
G3E	Telephony, Frequency Modulation (Phase Modulation)
ga	Go Ahead (Morse Abbreviation)
ga	Good Afternoon (Morse Abbreviation)
Gas	Gas Platform Beacon
GaAs	Gallium Arsenide The material used in high-speed semiconductors
gb	Good-Bye (Morse Abbreviation)
GB	Great Britain

GBP	UK Pounds Sterling
gd	Good (Morse Abbreviation)
gd	Good Day (Morse Abbreviation)
ge	Good Evening (Morse Abbreviation)
GEO	Geostationary Earth Orbit
GEO	Group for Earth Observation
[GEN]	General information (used in NDB List Subject headers)
GES	Ground Earth Station
GG	German Language
GHz	Gigahertz
GLA	General Lighthouse Authority
gld	Glad (Morse Abbreviation)
GLONASS	Global Navigation Satellite System (Russia)
gm	Good Morning (Morse Abbreviation)
GMDSS	Global Maritime Distress and Safety
GMT	Greenwich Mean Time (almost identical to UTC)
gn	Good Night (Morse Abbreviation)
gnd	Ground (earth)
GNSS	Global Navigation Satellite System (ICAO)
GOES	Geostationary Operational Environmental Satellites
govt	Government
GP	Ground Plane
GP	Glide Path
GPS	Global Positioning System
Green Stamp	Slang term used to denote a dollar bill when sent with a QSL card or report
G/S	Glide Slope
gud	Good (Morse Abbreviation)
GWEN	Ground Wave Emergency Network

H+	Hours Plus (minutes)
H3E	Single Sideband Full Carrier (Radiotelephony)
H24	Beacon Operational 24 Hours a day
HADGPS	High Accuracy Global Differential System
HAND	Have A Nice Day
HCDX	Hard Core DX Club
HDOP	Horizontal Dilution Of Precision
HDSDR	High Definition Software Defined Radio
HF	High Frequency (Short Wave Band 3000 to 30,000 kHz)
HFBC	High Frequency Broadcast
Hi	Laughter (Morse Abbreviation)
HI	High (Morse Abbreviation)
HiFER	Low power 'experimenters' beacon band around 13 MHz)
HJ	Sunrise to Sunset
hms	Hours, minutes, seconds
HN	Sunset to Sunrise
HO	Service available to meet operational requirements
H/P	Heliport
hpe	Hope (Morse Abbreviation)
HPF	High Pass Filter
HQ	Headquarters
Hr	Hour
hr	Here (Morse Abbreviation)
hr	Hear (Morse Abbreviation)
hrd	Heard (Morse Abbreviation)
HRD	Ham Radio Deluxe
Hrs	Hours
HST	Hawaii Standard Time
HT	High Tension (power)
HTML	Hyper Text Mark up Language (used to write web pages)
HU	Hours Unknown
hv	Have (Morse Abbreviation)
HV	Hours Variable
hw	How (Morse Abbreviation)
HWV	Half Wave Vertical
HX	No specific operating hours
Hz	Hertz (cycles per second)

i	Information
IAA	Irish Aviation Authority
IALA	International Association of Lighthouse Authorities

IARU	International Amateur Radio Union
IBcn	Ident Beacon
IBC	International Broadcasting Convention
IBP	International Beacon Project
IC	Integrated Circuit
ICAO	International Civil Aviation Organisation
ID	Ident
ID	Identifier
Ident	Identification signal/Callsign, or 'Identifier'
ie	That Is
IET	Indiana Eastern Standard Time
IF	Intermediate Frequency (e.g. IF Filter)
IFR	Instrument Flight Rules
IFRB	International Frequency Registration Board
IF Shift	Another form of passband tuning
IGFET	Insulated Gate Field Effect Transistor
IHO	International Hydrographic Organisation
II	Italian Language
ILS	Instrument Landing System
IM	Inner Marker
IM	Intermodulation
IMHO	In My Humble (Honest) Opinion
IMO	International Maritime Organisation IMO International Maritime Organisation
IMO	International Money Order
INRAD	International Radio Corporation (US Company which manufactures IF Filters)
Info	Information
INMARSAT	International Maritime Satellite Organization
INT	International
Intl	International
Inv	Inverted Keying
INV	Inverted Vee Antenna
IOC 576	Index of Cooperation - the total line length and the number of lines per unit divided by π (pi)
IoM	Isle of Man
IR	Infra Red
IRC	International Reply Coupon
IRCA	International Radio Club of America (covers MW Broadcasts)
irr	Irregular
Is	Isle or Island(s)
Isl	Isle or Island(s)
IST	India Standard Time
ISTR	I Seem To Recall
ISWL	International Short Wave League
ITU	International Telecommunications Union
IW	International Waters
J3C	Facsimilie – Single Sideband Suppressed Carrier
J3E	Single Sideband
JARL	Japan Amateur Radio League
JFET	Junction Field Effect Transistor
JJ	Japanese Language
joi	Joint Civil/Military beacon
JST	Japan Standard Time
k	Invitation to Transmit (Morse Abbreviation)
K	Ship Calibrating Radiobeacon
Kc/s	Kilocycles per second (old name for kHz)
Kg	Kilogram
kHz	KiloHertz (thousands of cycles per second)
K Index	A 3 hourly measurement of geomagnetic field activity
km	Kilometre
KST	Korea Standard Time
Kts	Knots
kw	Kilowatts
KY	Kentucky (USA)
K9AY	Special directional type of antenna designed by K9AY
L	Compass Locator
L	Unit of Inductance

LADGPS	Local Area Differential Global Positioning System
LAN	Local Area Network
Lat	Latitude
LC	Inductance & Capacitance (LC Circuit etc.)
LCD	Liquid Crystal Display
Lctr	Locator (NDB)
LDGPS	Local DGPS
LED	Light Emitting Diode
LF	Low Frequency (30 to 300 kHz)
LFR	Low Frequency Radio Range
LH	Lighthouse
Lid	Bad Operator (Morse Abbreviation)
LLA	Local Lighthouse Authority
LLZ	ILS Localiser
LMM	Compass Locator at the Middle Marker ILS
LMT	Local Mean Time
Lng	Long (Morse Abbreviation)
LOC	Locator Beacon (NDB having instrument approach procedure published)
LOC	Localizer (for instrument approach procedures only)
LOC	Grid Locator Square (used by many Amateur Radio Beacon Lists)
lol	Laughs Out Loud (used in e-mails)
LOM	Compass Locator situated at the Outer Marker ILS
Long	Longitude
Loop	Type of 'directional' Aerial used by many beacon DXers
LORAN	Long Range Air Navigation System
LORAN-C	Long Range Air Navigation System, Version-C
LOWDOWN	Monthly publication of LWCA
LOWFER	Low Power Experimental Band in the USA
LP	Long Path
LPF	Low Pass Filter
LPM	Lines Per Minute
LSB	Lower Side Band
Lsn	Listen (Morse Abbreviation)
LST	Local Standard Time
lt	Letter
LT	Low Tension (power)
Lt	Light (House)
LtHo	Lighthouse
Ltr	Later (Morse Abbreviation)
LtV	Light Vessel (or Light Ship)
LUF	Lowest Usable Frequency
LW	Long Wave
LW	Long Wire
LWBC	Long Wave Broadcast
LWCA	Long Wave Club of America
M	Magnetic
m	Miles
Ma	Milliamperes
mag	Magnetic
mag brg	Magnetic Bearing
mar	Maritime Beacon
MARAD	Maritime Administration
MARKER	Repetitive Signal sent to keep a channel active
MARS	Maritime Mobile Access and Retrieval System
MATZ	Military Air Traffic Zone
mb	Millibars (barometric pressure reading measurement system)
Mb	Megabyte
MCA	Maritime & Coastguard Agency (UK)
Mc/s	Megacycles per second (old name for Megahertz)
MCS	GPS Master Control Station
MCTS	Marine Communications and Traffic Services Centre
MCW	Modulated Continuous Wave A fixed audio tone which modulates a carrier, this was an older method of sending Morse code
MD	Minidisc (recordable disc)
MDGPS	Maritime Differential GPS Service
ME	Middle East
MEDFER	Low Power Experimental Band below the MW BC Band in the USA
MET	Middle East Time
METAREA	METEorological AREA
MF	Medium Frequency (300 to 3000 kHz)

MHz	Megahertz (millions of cycles per second)
mil	Military Airport Beacon
MIT	Midway Islands Time
mkr	Marker
ML	Magnetic Loop
MLS	Microwave Landing System
MM	Middle Marker ILS
mm	Used to signify 'month' in two-digit format e.g. mm = 06 (June)
MMSI	Maritime Mobile Selective – call identity code
mni	Many (Morse Abbreviation)
MoD	Ministry of Defence
Mon	Monday
MOSFET	Metal Oxide Semiconductor Field Effect Transistor
mpeg	type of audio file used by computers)
mp3	mpeg (type of computer audio file)
MRCC	Maritime Rescue Co-ordination Centre
MRSC	Maritime Rescue Co-ordination Sub-Centre
ms	Mint Stamps
MS	Marine Safety
MS	Meteor Scatter
MSF	Callsign of UK Time Signal Station on 60 kHz
msg	Message (Morse Abbreviation)
MSI	Maritime Safety Information
MSK	Minimum Shift Keying
MSL	Mean Sea Level
MST	Mountain Standard Time
MT	Monitoring Times
MTMA	Military Terminal Control Area
Mtrs	Metres (or Meters)
MUF	Maximum Usable Frequency
MUN	Municipal
MV	Magnetic Variation
MWBC	Medium Wave Broadcast
MWC	Medium Wave Circle
MWN	Medium Wave News (monthly publication of MWC)

N	North
N	New - used in NDB List postings to indicate first time reception
n	No (Morse Abbreviation)
N	Nono (10^{-9})
NA (or NA)	North America
NAAS	Naval Auxiliary Air Station
NAD83	North American Datum of 1983
NAF	Naval Air Facility
NAm	North America
NAS	Naval Air Station
NASA	National Aeronautics and Space Administration
NASWA	North American Short-Wave Association
Natl	National
NATS	National Air Traffic Services (UK)
NAT	North Atlantic (ICAO region)
NATO	North Atlantic Treaty Organisation
nav	Navigational
Navaid	Navigation Aid
NAVAREA	NAVigational AREA
NAVSTAR	GPS NAVigation Satellite Timing And Ranging GPS
NAVTEX	Narrow Band Direct Printing telex system for transmission of Navigational and meteorological warnings and broadcasts
NB	Noise Blanker
NBDP	Narrow Band Direct Printing
N/C	No Category
NCDXF	Northern California DX Foundation
ND	North Dakota (USA)
NDB	Non-Directional Radiobeacon
NDBE	Non Directional Beacons of Europe (book)
NDGPS	Nationwide Differential Global Positioning System
N/DL	No Data Letter
NE	North East
neg	Negative Keying
NET	Near East Time
NGR	National Grid Reference

NiCad	Nickel Cadmium Often used when referring to a type of rechargeable battery
nil	Nothing (Morse Abbreviation)
NIMH	Nickel Metal Hydride Often used when referring to a newer type of rechargeable battery
NIST	National Institute of Standards and Technology
nm	Nautical Miles
NM	Notices to Mariners
NNE	North North East
NNNN	End code on Navtex and RTTY broadcasts
NNW	North North West
NOAA	National Oceanic and Atmospheric Administration
Non A1A	Operates in much the same way as A1A (rarely used nowadays!)
Non A2A	Continuous carrier with on-off keying of a modulating audio frequency Similar to A2A mode except that the receiver must have the BFO switched off during the identification period, and on during the DF period
NOTAM	NOTice To AirMen
NPL	National Physical Laboratory (UK)
nr	Near (Morse Abbreviation)
NR	No Reply
NRC	National Radio Club (US MW Broadcast Listeners Club)
NS	North Sea
NS	Naval Station
ns	Nano-Second
NST	New Zealand Standard Time
Null	The point at which the received signal is at its weakest when tuned with a directional aerial such as a Loop
NVIS	Near Vertical Incidence Signal
nw	Now (Morse Abbreviation)
NW	North West
NWS	National Weather Service (USA)
NZMT	New Zealand Mean Time
NZRDXL	New Zealand Radio DX League
O	Ouest (French for West)
Oc	Oceania
ODXA	Ontario DX Association
OFCOM	Office of Communications (UK body in charge of communications)
Offset	The distance that the audible ident is spaced from the carrier
OH	Ohio (USA)
Ohm	Unit of resistance
OIC	Officer-in-Charge
OID	Oidentifierad - Swedish term used to describe UNIDS
Oil	Oil Platform Beacon
OM	Outer Marker
om	Old Man (CW term for male operator)
OMEGA	Very Low Frequency Radio Navigation System
OMN	Omni-directional
ON	Ontario (Canada)
OOS	Out of Service
Op	Operator
Ops	Operations
O/R	On request
OT	Off Topic
OT	Other Times
OT	Old Timer (Often used on Ham Bands)
OTS	Out Of Service
OWF	Optimum Working Frequency
OWS	Ocean Weather Ship
PA	Power Amplifier
PAL	Pacific Asian Log
PB	Private Beacon
PB	Publications
PBS	Passband Shift
PBT	Passband Tuning
PC	Personal Computer
PCB	Printed Circuit Board
PCM	Pulse Code Modulation
P/DL	Partial Data Letter
pep	Peak Envelope Power

PFC	Prepared Form Card
PH	Public Holidays
Pitch	The frequency of the received audio tone
PLB	Personal Locator Beacon
PLC	Power Line Carrier
PLL	Phase Locked Loop
pls	Please (Morse Abbreviation)
PLT	Pakistan Lahore Time
PNT	Phoenix Standard Time
PO	Postal Order
POES	Polar Operational Environmental Satellite
POL	Polarisation
Pooleys	Pooley's Flight Guide
Posn	Position
PP	Portuguese Language
PPC	Pre Prepared Card
ppm	Parts Per Million
pps	Pulse Per Second
pri	Private Airfield Beacon
PROP	Propagation
PRT	Puerto Rico and US Virgin Islands Time
pse	Please (Morse Abbreviation)
PSK	Phase Shift Keying
PSKOV	Impressive NDB enhancement detection software created by Ivan Monogarov
PST	Pacific Standard Time
PSTN	Public Switched Telephone Network
PSU	Power Supply Unit
pvt	Private
PW	Practical Wireless (UK radio magazine)
PWBR	Passport to World Band Radio
pwr	Power(Morse Abbreviation)

Note# Q Codes are allocated in the following groups: QAA – QNZ = Aeronautical use, QOA – QQZ = Maritime use, QRA – QUZ = All services, QZA – QZZ Other services Only the most commonly used ones are shown here, as many are quite obscure, and wouldn't be relevant to most users A full list showing every single Q Code should be obtainable on the Internet

QDM	The Magnetic Heading for is
QFE	If the altimeter subscale is set to read millibars the instrument will indicate height above aerodrome elevation (above threshold runway number)
QLD	Queensland (Australia)
QNH	If the altimeter subscale is set to read millibars, the instrument will indicate elevation if on the ground at that station
QRL	Is the frequency busy?
QSB	Fading, or disturbance to propagation
QRA	Location
QRA Locator	Method of dividing the world into identifiable squares
QRG	Frequency
QRM	Normally used when referring to 'man made' interference
QRN	Normally used when referring to static or 'natural' interference
QRP	Low power
QRQ	Send faster
QRS	Send more slowly
QRT	Stop Sending
QRU	Do you have anything more for me?/I have nothing for you
QRX	Wait/call me again.....
QSB	Fading, used when describing effect on incoming signal
QSL	Verification of Reception
QSW	I am going to send on this frequency...
QSX	Will you listen for me on..... (frequency)
QSY	Change frequency
QTH	Location or Headquarters
QTR	Exact Time

r	Received (Morse Abbreviation)
R	Route Tuned Navaid
RA	Radiocommunications Agency (UK)
RAC	Radio Amateurs of Canada
RACON	Radar Beacon
RADAR	Radio Detection & Ranging

Radiofari	Radio Beacon (Italian lang)
RAF	Royal Air Force (UK)
RAM	Random Access Memory (Computer Term)
RBI	Relative Bearing Indicator
RBU	Russian Time Signal Station on 66666 kHz
RBW	Resolution Bandwidth
RC	Non-Directional Radiobeacon (as marked on Maritime and Aero charts)
RCAF	Royal Canadian Air Force
RCC	Rescue Co-ordination Centre
rcpt	Reception
rcvr	Receiver (Morse Abbreviation)
RD	Directional Radiobeacon
RDF	Radio Direction Finder
rdo	Radio
RDSS	Radiodetermination-Satellite Service
ref	Reference
REG	Regional
REU	NDBs Received in Europe (database)
RF	Radio Frequencies
RFI	Radio Frequency Interference
RIS	Radio Investigation Service (UK - Interference Investigators)
RIT	Receiver Incremental Tuning
RMI	Radio Magnetic Indicators
RMS	Root Mean Square
RN	Royal Navy (UK)
RNA	NDBs Received in North America (database)
RNAV	Area Navigation (generic acronym for any device capable of aircraft guidance between pilot-defined waypoints)
ROBN	Radio Beacon
ROM	Read Only Memory (Computer Term)
ROTFL	Rolls On The Floor Laughing
Rot Lt	Rotating Light or Beacon
rp	Return Postage
rpt	Report (Morse Abbreviation)
rprt	Report (Morse Abbreviation)
rqst	Request
RR	Russian Language
RR	Radio Regulation (number)
RS	Reference Station
RSGB	Radio Society of Great Britain
RST	Readability, Signal strength, Tone - system of measuring signal quality
R/T	Radio Telephony
RTCA	Radio Technical Commission for Aeronautical Services
RTCM	Radio Technical Commission for Maritime Services
rtn	Return
RTTY	Radio Teletype
RW	Rotating Pattern Radiobeacon
R/W	Runway
RWM	Callsign of the Moscow based Russian Time Signal Station
RWW	Received World-Wide (database of world HF Beacons)
RWY	Runway
RX	Receiver
ry	Test message used by Teletype/RTTY stations

S	South
S	Sequenced Radio Beacon
(S)	Summer
SA (or SA)	South America
SAm	South America
SAR	Search & Rescue
SASE	Self Addressed Stamped Envelope
Sat	Saturday
SC	Ship Control
SCC	Seasonal Canadian Challenge
SD	Sloping Dipole
SDR	Software Defined Radio
SE	South East
SEC	Space Environment Centre
SELCAL	Selective Calling System
SF	Solar Flux
SFI	Solar Flux Index

SID	Sudden Ionospheric Disturbance
SIGINT	Signal Intelligence
SINAD	Signal to noise and distortion ratio
SINPO	(code for: Signal, Interference, Noise, Propagation and Overall
SIR	Signal to Interference Ratio
SITA	Société Internationale Télécommuniqué Aéronautique
SITOR	Mode used for Navtex - (e.g. SITOR Mode B)
SK	Silent Key (deceased - Morse Abbreviation)
sked	Schedule
SLB	Single Letter Beacons
SLHFB	Single Letter High Frequency Beacon
SLHFM	Single Letter High Frequency Marker
SLM	Single Letter Markers
SMD	Surface Mount Device
S/N	Signal to Noise
SN	Sunspot Number
SNAFU	Situation Normal All Fouled Up (<i>the clean version</i>)
SNR	Signal to Noise Ratio
SoCal	Southern California
SOLAS	Safety Of Life At Sea
SP	Short Path
SPB	Sea Plane Base
SPDT	Single Pole Double Throw (switch)
SPe	Sporadic E
Sprog (Sproggie)	Slang title commonly used to describe a spurious signal, or unwanted harmonic or product
SPST	Single Pole Single Throw (switch)
SQL	Squelch
SR	Sunrise
sri	Sorry (Morse Abbreviation)
SS	Sunset
SS	Spanish Language
SS	Ship/Shore
SSB	Single Sideband
SSE	South South East
SSN	Sunspot Number
SST	Solomon Standard Time
SSW	South South West
STD	Stacked Turnstile Dipole
sti	Sticker
STN	Station
Sun	Sunday
SW	South West
swg	Standard Wire Gauge
SWL	Short Wave Listener
SWM	Short Wave Magazine
SWR	Standing Wave Ratio
SYNOP	Synoptic
TACAN	Tactical Air Navigation Equipment
T/A	Trans Atlantic
TAS	Tasmania (Australia)
TCP/IP	Terminal Control Protocol/Internet Protocol
TCXO	Temperature Compensated Crystal (X-tal) Oscillator
TD	Turnstile Dipole
[TECH]	Technical – (subject header used in NDB List postings)
T/E	Trans Equatorial
temp	Temperature
temp	Temporary
TEST	Testing (Morse Abbreviation)
TEST	Contest (Morse Abbreviation)
tfc	Traffic
TFT	Thinner, Flatter Tube
THLS	Trinity House Lighthouse Service
Thru	Through
Thu	Thursday
T/I	Trans Indian Ocean
tk	Thanks (Morse Abbreviation)
T/P	Trans Pacific
TIA	Thanks In Advance
TMA	Terminal Control Area

TN	True North
tnx	Thanks (Morse Abbreviation)
T/R	Transmit/Receive
trbl	Trouble (Morse Abbreviation)
TRL	Triangular Loop
TRX	Transceiver (Morse Abbreviation)
TS	Time Signals
TST	Call letters often sent by an NDB on TEST
TU	Thank You (Morse Abbreviation)
TU	Terminal Unit
Tu	Tuesday
tu	To You
Tube	US term for a vacuum tube (usually referred to as a 'valve' in Europe)
Tue	Tuesday
Turm	Tower (German)
TVI	Television Interference
TVOR	Terminal VOR (low power)
TWEB	Transcribed Weather Broadcast
TWR	Tower Control
TX	Transmitter
u/c	Under Construction
UDRE	User Differential Range Error
UEDD	Utilitaires En Dessous De 1600 kHz (book)
ufb	Ultra Fine Business (Morse Abbreviation)
UFN	Until Further Notice
UHF	Ultra High Frequency
UK	United Kingdom of Great Britain & Northern Ireland
UKHO	United Kingdom Hydrographic Office
uknw	Unknown
UKP	UK Pound
UKSMG	United Kingdom Six Metre Group
ULF	Ultra Low Frequencies (300 Hz to 3 kHz)
Ultralight	Simple compact receivers like the Tecsun/Sony etc
UN	United Nations
UNDAY	United Nations Day
UNID	Unidentified Beacon
ur	Your (Morse Abbreviation)
u/s	Unserviceable
US	United States
u/s	Unservicable
USA	United States of America
USAF	United States Air Force
USB	Upper Side Band
USB	Universal Serial Bus
USCG	United States Coast Guard
USD	US Dollar
USMC	United States Marine Corps
USN	United States Navy
UT	Universal Time (utc)
UT0	Uncorrected Universal Time
UT1	UT0 corrected for polar variation
UT2	UT0 corrected for polar and seasonal variations
UTC	Co-ordinated Universal Time
uV	Microvolt
V	Vertical
VA	Volt Amperes - a measure of apparent power
VAC	Volts Alternating Current
vc	Viewcard
VCC	Supply Voltage (positive)
VD	Vertical Dipole
VDF	VHF Direction Finding
VERON	Vereniging voor Experimenteel Radio Onderzoek in Nederland
Vert	Vertical Antenna
vfb	Very Fine Business (Morse Abbreviation)
VFO	Variable Frequency Oscillator
VFR	Visual Flight Rules
VHF	Very High Frequency
VLF	Very Low Frequency (3 to 30 kHz)

VMOS	Vertical Metal Oxide Semiconductor
VOR	VHF Omni-directional Radio Range
VORTAC	VOR & TACAN (co-located)
VOT	VOR Receiver Test facility
VRB	Voice Rotating Beacon
v/s	Verification Signer
VST	Vietnam Standard Time
VTS	Vessel Traffic Service
vy	Very (Morse Abbreviation)
w	Watts
W	West
(W)	Winter
W	Windom
WAAS	Wide Area Augmentation System
WADGPS	Wide Area Differential Global Positioning System
W & G	Wandel & Goltermann (German Instrument Makers)
Waypoint	Position in space usually on aircraft's flight plan
WDXC	World DX Club
WebSDR	Online SDRs that are made available for other listeners to use
Wed	Wednesday
WEF	With Effect From
WGS84	World Geodetic System 1984
wid	'with' (Morse Abbreviation)
wkd	Worked (Morse Abbreviation)
wkg	Working (Morse Abbreviation)
WMO	World Meteorological Organisation
WMS	Wide Area Master Stations
WNTM	Weekly Notices To Mariners
WNW	West North West
WP	Waypoint
wpm	Words Per Minute
WPT	Waypoint
wrd	Word (Morse Abbreviation)
WRTH	World Radio TV Handbook
WSW	West South West
W/T	Wireless Telegraphy
WUN	World Utility Network (the premier internet utility radio club)
WWNWS	World-Wide Navigational Warning Service
WWSU	World-Wide Search Utility (Navaid Database search software by Alex Wiecek VE3GOP)
WWV	US Time Signal Station located in Colorado
WWVH	NIST radio station (broadcasts time signals from Hawaii)
www	World Wide Web (internet)
WX	Weather
XCVR	Transceiver
XFMR	Transformer
XMTR	Transmitter
XTAL	Crystal
XYL	Ex-Young Lady (Wife)
Y	Yagi
YaND	Yet Another NAVTEX Decoder
Yds	Yards
YF	Wife (Morse Abbreviation)
YL	Young Lady
yr	Year (Morse Abbreviation)
yy	Used to signify 'year' in two-digit format e.g. yy = 99 0r 01 (1999 or 2001)
yyyy	Used to signify 'year' in four-digit format e.g. yyyy = 1999 or 2001
Z	VHF station marker at NDB
Z or 'zulu'	UTC (Universal Time Coordinated)
ZCZC	Start code at beginning of Navtex Broadcasts
Zero Beat	This is the point at which the heterodyne, or tone becomes almost inaudible when tuning an AM carrier with the receiver switched to the SSB or CW positions (and also allows you to hear any weaker stations which may also be operating on the same channel!) It can usually be found when tuned onto the carrier frequency, e.g. between the upper and lower sidebands

PROVINCE & STATE ABBREVIATIONS:

Below is a list of commonly used state abbreviations These lists were obtained from the US and Canadian Post Office sites so should be reasonably accurate Since we now have many members in these countries it seemed worthwhile including them here, so that other members could quickly make a check of loggings to see which state a particular logging was from I'm sure that many other countries use similar types of state abbreviations, and if your country has them but is not included below, we would love to hear from you so that we can include them in future versions of this publication

Note# These state and province abbreviations should not be confused with ITU Country codes which are listed in a different publication

AUSTRALIA:

AT	-	Australian Capital Territory (Canberra)
NW	-	New South Wales
NN	-	Northern Territory
QD	-	Queensland
SA	-	South Australia
TA	-	Tasmania
VI	-	Victoria
WE	-	Western Australia

CANADA:

AB	-	Alberta
BC	-	British Columbia
MB	-	Manitoba
NB	-	New Brunswick
NL	-	Newfoundland & Labrador
NS	-	Nova Scotia
NT	-	Northwest Territories
NU	-	Nunavut
ON	-	Ontario
PE	-	Prince Edward Island
QC	-	Quebec
SK	-	Saskatchewan
YT	-	Yukon

UNITED STATES & US OVERSEAS POSSESSIONS:

AL	-	Alabama	MP	-	Northern Mariana Islands
AK	-	Alaska	OH	-	Ohio
AS	-	American Samoa	OR	-	Oregon
AZ	-	Arizona	PW	-	Palau
AR	-	Arkansas	PA	-	Pennsylvania
CA	-	California	PR	-	Puerto Rico
CO	-	Colorado	RI	-	Rhode Island
CT	-	Connecticut	SC	-	South Carolina
DE	-	Delaware	SD	-	South Dakota
DC	-	District of Columbia	TN	-	Tennessee
FM	-	Federated States of Micronesia	TX	-	Texas
FL	-	Florida	UT	-	Utah
GA	-	Georgia	VA	-	Virginia
GU	-	Guam	VI	-	Virgin Islands
HI	-	Hawaii	VT	-	Vermont
ID	-	Idaho	WA	-	Washington
IL	-	Illinois	WV	-	West Virginia
IN	-	Indiana	WI	-	Wisconsin
IA	-	Iowa	WY	-	Wyoming
KS	-	Kansas			
KY	-	Kentucky			
LA	-	Louisiana			
ME	-	Maine			
MI	-	Michigan			
MN	-	Minnesota			
MS	-	Mississippi			
MO	-	Missouri			
MT	-	Montana			
NE	-	Nebraska			
NV	-	Nevada			
NH	-	New Hampshire			
NJ	-	New Jersey			
NM	-	New Mexico			
NY	-	New York			
NC	-	North Carolina			
ND	-	North Dakota			

INTERNATIONAL NAVTEX SUBJECT INDICATOR CODES: [B2]

LETTER	MESSAGE TYPE:
A	= Navigational Warnings (cannot be rejected by the receiver)
B	= Meteorological Warnings (cannot be rejected by the receiver)
C	= Ice Reports
D	= Search & Rescue Information (cannot be rejected by the receiver)
E	= Meteorological Forecasts
F	= Pilot Service Messages
G	= DECCA Messages
H	= LORAN Messages
I	= OMEGA Messages
J	= SATNAV Messages
K	= Other Electronic Navaid Messages (messages concerning radio navigation services)
L	= Navigational Warnings – additional to Letter A (should not be rejected by receiver)
V	= Special services – Trial Allocation
W	= Special services – Trial Allocation
X	= Special services – Trial Allocation
Y	= Special services – Trial Allocation
Z	= No messages on hand

The US Coast Guard also use:

V	=	Notice to Fishermen
W	=	Environmental

UNITED KINGDOM NAVTEX SUBJECT INDICATOR CODES:

LETTER	MESSAGE TYPE:
A	= Navigational Warnings including Mobile Drilling Rig Movements (cannot be rejected by the receiver)
B	= Meteorological Warnings (cannot be rejected by the receiver)
C	= Ice Reports
D	= Search & Rescue Information including piracy and armed robbery warnings (cannot be rejected by the receiver)
E	= Meteorological Forecasts
F	= Pilot Service Messages
G	= DECCA Messages
H	= LORAN Messages
I	= OMEGA Messages
J	= SATNAV Messages
K	= Other Electronic Navaid Messages (messages concerning radio navigation services)
L	= Subfacts/Gunfacts Warnings (should not be rejected by receiver)
M to U	= Reserved
V	= Amplifying Navigational Warning information initially announced under A
W	= Special services – Trial Allocation
X	= Special services – Trial Allocation
Y	= Special services – Trial Allocation
Z	= No messages on hand

INTERNET ETIQUETTE: (NETIQUETTE)

Since 'smileys' tend to pop up frequently in postings to e-mail reflectors, and because I've had a number of queries about them, on this page you will find a list of 'smiley faces' or 'Netiquette' (Internet Etiquette) "emoticon" icons. Some of these are used frequently, but others are very obscure and I've never seen half of them in a mail, but if you're a 'newbie' to the Internet, or want to know what they mean (or if they're rude) These should help a little:

:)	--	Smiling face (sometimes shown as: :-) or ☺
:(--	Sad face
;) 	--	Winking
:o	--	Shocked("ooh!")
:O	--	Very shocked
:D	--	Laughing or grinning
:P	--	Sticking out tongue
>:)	--	Devilish (smiling)
O:)	--	Angelic (smiling)
:-*	--	Kiss
:-&	--	Angry
~:-)	--	A baby
[:)	--	A skinhead
{{{:-)	--	A beehive hairdo
\$:-)	--	Mr Quiff
(:-)	--	Baldy
c :-)	--	City gent
#:-)	--	Kevin, the scruffy teenager (UK TV comedy character used to send up teenagers- worth including for that reason alone!)
=:-)	--	Mohican
?:-)	--	Mr Quiff II
+(-:-)	--	Alien
 x :-)	--	Ninja
[o]:-)	--	Kamikaze
@:-)	--	Doctor saying "open wide"
3:-)	--	Werewolf or Devil

If you tilt your head to the left all should become clear!

CREDITS:

A big thank you to all the members of the NDB List reflector who contributed many the above abbreviations. If you have any more of your own that you think should be included in the next edition, please be sure to send them to us for inclusion abbreviations 'at' ndblistinfo (you will need to replace the 'at' with an @ symbol).

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