GEN 2.2 ABBREVIATIONS USED IN AIS PUBLICATIONS

Abbreviations marked by asterisks (*) are either different from or not contained in ICAO DOC 8400.

.	
... C	Centre (preceded by runway designation number to identify a parallel runway)
... L	Left (preceded by runway designation number to identify a parallel runway)
... R	Right (preceded by runway designation number to identify a parallel runway)
4	
4D/15 *	Four dimensional (latitude, longitude, altitude, time) position information at 15 minutes interval
A	
A/A	Air-to-air
A/G	Air-to-ground
AAIM	Aircraft autonomous integrity monitoring
AAL	Above aerodrome level
AAR	Air to air refuelling
ABM	Abeam
ABN	Aerodrome beacon
ABV	Above
ACAS	Airborne collision avoidance system
ACC	Area control centre or area control
ACCID	Notification of an aircraft accident
ACFT	Aircraft
ACK	Acknowledge
ACL	Altimeter check location
ACPT	Accept or accepted
ACT	Active or activated or activity
AD	Aerodrome
ADA	Advisory area
ADC	Aerodrome Chart
ADDN	Addition or additional
ADF	Automatic direction finding equipment
ADIZ	Air defence identification zone
ADJ	Adjacent
ADR	Advisory route
ADS-B	Automatic dependent surveillance-broadcast
ADS-C	Automatic dependent surveillance-contract
ADZ	Advise
AFIS	Aerodrome flight information service
AFS	Aeronautical fixed service
AFT	After...(time or place)
AFTN	Aeronautical fixed telecommunication network
AGL	Above ground level
AIC	Aeronautical information circular
AIDC	Air traffic services interfacility data communications
AIM	Aeronautical information management
AIP	Aeronautical information publication
AIRAC	Aeronautical information regulation and control
AIREP	Air-report
AIS	Aeronautical information services
ALERFA	Alert phase
ALRS	Alerting service
ALS	Approach lighting system
ALT	Altitude
AMA	Area minimum altitude
AMDT	Amendment (AIP amendment)
AMSL	Above mean sea level
ANSP *	Air Navigation Service Provider
AO	Aircraft operator
AOC	Aerodrome obstacle chart (followed by type and name/title)
AP	Airport
APCH	Approach
APN	Apron
APP	Approach control office or approach control or approach control service
APR	April
APRX	Approximate or approximately
APU	Auxiliary power unit
APV	Approach procedure with vertical guidance
ARC	Area Chart
ARO	Air traffic services reporting office
ARP	Aerodrome reference point
ARR	Arrive or arrival or Arrival (message type designator)
ASC	Ascend to or ascending to
ASDA	Accelerate-stop distance available
ASPH	Asphalt
ASTO *	Aeroshell turbine oil
ATA	Actual time of arrival
ATC	Air traffic control (in general)
ATD	Actual time of departure
ATFM	Air traffic flow management
ATIS	Automatic terminal information service
ATM	Air Traffic Management
ATN	Aeronautical telecommunication network
ATS	Air traffic services
ATTN	Attention
ATZ	Aerodrome traffic zone
AUG	August
AUTO	Automatic
AUW	All up weight
AUX	Auxiliary
AVBL	Available or availability
AVGAS	Aviation gasoline
AWOS	Automated Weather Observation System
AWY	Airway
AZM	Azimuth
B	
BA	Braking action
BAROVNAV	Barometric vertical navigation
BCN	Beacon (Aeronautical ground light)
BCST	Broadcast
BDRY	Boundary
BLDG	Building
BLW	Below ...
BOBCAT *	Bay of Bengal Cooperative Air Traffic Flow Management Advisory System
BRG	Bearing
BRKG	Braking
BTN	Between
C	
C	Degrees Celsius (Centigrade)
CAAS *	Civil Aviation Authority of Singapore
CAFHI *	Changi Airport Fuel Hydrant Installation
CAT	Clear air turbulence
CAVOK	(to be pronounced "KAV-OH-KAY") visibility, cloud and present weather better than prescribed values or conditions
CCO	Continuous climb operations
CDO	Continuous descent operations
CDR	Conditional route
CH	Channel
CHG	Modification (message type designator)
CIV	Civil

CL	Centre line
CLBR	Calibration
CLSD	Close or closed or closing
CMB	Climb to or climbing to
CMPL	Completion or completed or complete
CNL	Cancel or cancelled or flight plan cancellation (message type designator)
CNS	Communications, Navigation and Surveillance
COM	Communications
CONC	Concrete
COND	Condition
CONST	Construction or constructed
CONT	Continue(s) or continued
COOR	Coordinate or coordination
COORD	Coordinates
COP	Change-over point
CPDLC	Controller-pilot data link communications
CPL	Current flight plan (message type designator)
CRC	Cyclic redundancy check
CRP	Compulsory reporting point
CS	Call sign
CTA	Control area
CTC	Contact
CTL	Control
CTN	Caution
CTO *	Calculated Time-Over
CTOT *	Calculated Take-off Time
CTR	Control zone
CUST	Customs
CWY	Clearway
D	
D ...	Danger area (followed by identification)
DA	Decision altitude
DCKG	Docking
DCPC	Direct controller-pilot communications
DCT	Direct (in relation to flight plan clearances and type of approach)
DEC	December
DEG	Degrees
DEP	Depart or departure or Departure (message type designator)
DER	Departure end of the runway
DES	Descend to or descending to
DEST	Destination
DETRESFA	Distress phase
DEV	Deviation or deviating
DFTI	Distances from touch down indicator
DH	Decision height
DIST	Distance
DLA	Delay or delayed or Delay (message type designator)
DLY	Daily
DME	Distance measuring equipment
DNG	Danger or dangerous
DOF	Date of flight
DPT	Depth
DR	Dead reckoning
DRG	During
DTG	Date-time group
DTHR	Displaced runway threshold
DUR	Duration
DVOR	Doppler VOR
E	
E ...	East or eastern longitude
EAT	Expected approach time
EET	Estimated elapsed time
ELBA	Emergency location beacon-aircraft
ELEV	Elevation
ELT	Emergency locator transmitter
EM	Emission
EMERG	Emergency
ENG	Engine
ENR	Enroute
ENRC	Enroute Chart (followed by name/title)
EOBT	Estimated off-block time
EQPT	Equipment
EST	Estimate or estimated or estimate (as message type designator)
ETA	Estimated time of arrival or estimating arrival
ETD	Estimated time of departure or estimating departure
ETO	Estimated time over significant point
EV	Every
EXC	Except
EXER	Exercises or exercising or to exercise
EXP	Expect or expected or expecting
EXTD	Extend or extending or Extended
F	
FAC	Facilities
FAF	Final approach fix
FAP	Final approach point
FATO	Final approach and take-off area
FAX	Facsimile transmission
FCST	Forecast
FCT	Friction coefficient
FDPS	Flight data processing system
FEB	February
FIC	Flight information centre
FIR	Flight information region
FIS	Flight information service
FL	Flight level
FLG	Flashing
FLR	Flares
FLT	Flight
FLTCK	Flight check
FLUC	Fluctuating or fluctuation or fluctuated
FLW	Follow(s) or following
FLY	Fly or flying
FM	Course from a fix to manual termination (used in navigation database coding)
FMS	Flight management system
FMU	Flow management unit
FNA	Final approach
FOD *	Foreign object damage
FPL	Flight Plan
FREQ	Frequency
FRI	Friday
FRNG	Firing
FSL	Full stop landing
FST	First
FT	Feet (dimensional unit)
G	
G/A	Ground-to-air
GA	General Aviation
GCA	Ground controlled approach system or ground controlled approach
GEN	General
GEO	Geographic or true
GLD	Glider
GLONASS	Global orbiting navigation satellite system
GND	Ground
GNDCK	Ground check

GNSS	Global navigation satellite system
GOV	Government
GP	Glide path
GPA	Glide path angle
GPS	Global positioning system
GRASS	Grass landing area
GS	Ground speed
GUND	Geoid undulation
H	
H+ *	Hours plus.....minutes past the hour
H24	Continuous day and night service
HBN	Hazard beacon
HDG	Heading
HEL	Helicopter
HEL-H *	Heavy helicopter (radius of action, for rescue purposes, more than 370km (200NM) and capacity of evacuating more than 15 persons)
HEL-L *	Light helicopter (radius of action, for rescue purposes, up to 185km (100NM) and capacity of evacuating 1-5 persons)
HEL-M *	Medium helicopter (radius of action, for rescue purposes, 185-370km (100- 200NM) and capacity of evacuating 6-15 persons)
HF	High frequency (3 000 to 30 000kHz)
HGT	Height or height above
HJ	Sunrise to sunset
HLDG	Holding
HN	Sunset to sunrise
HO	Service available to meet operational requirements
HOL	Holiday
HOSP	Hospital aircraft
HPA	Hectopascal
HQ *	Headquarters
HR	Hours
HS	Service available during hours of scheduled operations
HUM	Humanitarian
HX	No specific working hours
HZ	Haze or Hertz (cycle per second)
I	
IAC	Instrument approach chart (followed by name/title)
IAF	Initial approach fix
IAP	Instrument approach procedure
IAR	Intersection of air routes
IAS	Indicated airspeed
IBN	Identification beacon
ICAO	International Civil Aviation Organisation
ID	Identifier or identify
IDENT	Identification
IF	Intermediate approach fix
IFR	Instrument flight rules
ILS	Instrument landing system
IM	Inner marker
IMC	Instrument meteorological conditions
INA	Initial approach
INBD	Inbound
INCERFA	Uncertainty phase
INCORP	Incorporated
INFO	Information
INOP	Inoperative
INPR	In progress
INS	Inertial navigation system
INSTL	Install or installed or installation
INSTR	Instrument
INT	Intersection
INTL	International
INTRG	Interrogator
INTRP	Interrupt or interruption or interrupted
INTST	Intensity
IRS	Inertial reference system
ISA	International standard atmosphere
J	
JAN	January
JUL	July
JUN	June
K	
KG	Kilograms
KHZ	Kilohertz
KM	Kilometres
KMH	Kilometres per hour
KPA	Kilopascal
KT	Knots
KW	Kilowatts
L	
L	Locator (see LM, LO)
LAT	Latitude
LDA	Landing distance available
LDAH	Landing distance available, helicopter
LDG	Landing
LDI	Landing direction indicator
LEN	Length
LGT	Light or lighting
LGTD	Lighted
LIH	Light intensity high
LIL	Light intensity low
LIM	Light intensity medium
LLZ	Localizer
LM	Locator middle
LNAV	Lateral navigation
LO	Locator, outer
LONG	Longitude
LORAN	LORAN (Long range air navigation system)
LRG	Long range
LT *	Local time
LTD	Limited
LVL	Level
LVP	Low visibility procedures
M	
M	Mach number (followed by figures) or Metres (preceded by figures)
MAD *	Maximum Acceptable Delay
MAG	Magnetic
MAINT	Maintenance
MAP	Aeronautical maps and charts
MAPT	Missed approach point
MAR	March
MAX	Maximum
MAY	May
MCA	Minimum crossing altitude
MDA	Minimum descent altitude
MDH	Minimum descent height
MEA	Minimum en-route altitude
MEDEVAC	Medical evacuation flight
MEHT	Minimum eye height over threshold (for visual approach slope indicator systems)
MET	Meteorological or meteorology
METAR	Aerodrome routine meteorological report (in meteorological code)
MHA	Minimum holding altitude
MHZ	Megahertz
MID	Mid-point (related to RVR)

MIL	Military
MIN	Minutes
MINDEF *	Ministry of Defence
MLS	Microwave landing system
MM	Middle marker
MNM	Minimum
MNPS	Minimum navigation performance specifications
MNT	Monitor or monitoring or monitored
MNTN	Maintain
MOA	Military operating area
MOC	Minimum obstacle clearance (required)
MOCA	Minimum obstacle clearance altitude
MON	Monday
MOPS	Minimum operational performance standards
MOV	Move or moving or movement
MPS	Metres per second
MSA	Minimum sector altitude
MSAW	Minimum safe altitude warning
MSG	Message
MSL	Mean sea level
MWO	Meteorological watch office
N	
N	North or northern latitude
NAV	Navigation
NAVAID	Navigation aid
NC	No change
NDB	Non-directional radio beacon
NGT	Night
NM	Nautical miles
NML	Normal
NOF	International NOTAM Office
NONSTD	Non-standard
NOSIG	No significant change (used in trend-type landing forecasts)
NOTAM	A notice distributed by means of telecommunication containing information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations
NOV	November
NR	Number
O	
O/R	On request
OAC	Oceanic area control centre
OAS	Obstacle assessment surface
OBS	Observe or observed or observation
OBST	Obstacle
OCA	Obstacle clearance altitude
OCC	Occulting (light)
OCH	Obstacle clearance height
OCNL	Occasional or occasionally
OCS	Obstacle clearance surface
OCT	October
OFZ	Obstacle free zone
OHD	Overhead
OM	Out marker
OPMET	Operational meteorological (information)
OPR	Operator or operate or operative or operating or operational
OPS	Operations
OTP	On top
OTS	Organized track system
OUBD	Outbound
P	
P ...	Prohibited area (followed by identification)
PA	Precision approach
PALS	Precision approach lighting system (specify category)
PANS	Procedures for air navigation services
PAPI	Precision approach path indicator
PAR	Precision approach radar
PARA *	Paragraph
PARL	Parallel
PAX	Passenger(s)
PBC	Performance-based communication
PBN	Performance-based navigation
PBS	Performance-based surveillance
PCD	Proceed or proceeding
PCL	Pilot-controlled lighting
PCN	Pavement classification number
PDC	Pre-departure clearance
PER	Performance
PERM	Permanent
PIB	Pre-flight information bulletin
PJE	Parachute jumping exercise
PLA	Practice low approach
PN	Prior notice required
PNR	Point of no return
POB	Persons on board
PPR	Prior permission required
PRI	Primary
PRKG	Parking
PROC	Procedure
PSN	Position
PSP	Pierced steel plank
PSR	Primary surveillance radar
PT *	Point(s)
PTN	Procedure turn
PVT *	Private
PWR	Power
Q	
QDM	Magnetic heading (zero wind)
QDR	Magnetic bearing
QFE	Atmospheric pressure at aerodrome elevation (or at runway threshold)
QFU	Magnetic orientation of runway
QNH	Altimeter sub-scale setting to obtain elevation when on the ground
QTE	True bearing
QUAD	Quadrant
R	
R ...	Restricted area (followed by identification)
R ...	Radial from VOR (followed by three figures)
RA	Rain
RAD *	Radius
RAF *	Royal Air Force
RAG	Runway arresting gear
RAI	Runway alignment indicator
RAIM	Receiver autonomous integrity monitoring
RB	Rescue boat
RCC	Rescue coordination centre
RCF	Radiocommunication failure (message type designator
RCL	Runway centre line
RCLL	Runway centre line light(s)
RCP	Required communication performance
RDH	Reference datum height
RDL	Radial
RDO	Radio
REC	Receive or receiver
REDL	Runway edge light(s)

REF	Reference to ... or refer to ...
REG	Registration
RENL	Runway end light(s)
REP	Report or reporting or reporting point
REQ	Request or requested
RESA	Runway end safety area
RFC *	Radio facility chart
RFFS	Rescue and fire fighting services
RH *	Rescue helicopter
RHC	Right-hand circuit
RIF	Reclearance in flight
RLLS	Runway lead-in lighting system
RMAF *	Royal Malaysian Air Force
RMK	Remark
RNAV	(to be pronounced "AR-NAV") Area navigation
RNP	Required navigation performance
ROC	Rate of climb
ROD	Rate of descent
RPI	Receiving only
RPLC	Replace or replaced
RPS	Radar position symbol
RQMNTS	Requirements
RQP	Request flight plan (message type designator)
RQS	Request supplementary flight plan (message type designator)
RSAF *	Republic of Singapore Air Force
RSC	Rescue sub-centre
RSCD	Runway surface condition
RSFC *	Republic of Singapore Flying Club
RSP	Required surveillance performance
RSP	Responder beacon
RSR	En-route surveillance radar
RTE	Route
RTF	Radiotelephone
RTHL	Runway threshold light(s)
RTN	Return or returned or returning
RTODAH	Rejected take-off distance available, helicopter
RTT	Radioteletypewriter
RTZL	Runway touchdown zone light(s)
RUT	Standard regional route transmitting frequencies
RV	Rescue vessel
RVA	Radar vectoring area
RVR	Runway visual range
RVSM	Reduced vertical separation minimum (300m(1000ft)) between FL290 and FL410
RWY	Runway
S	
S	South or southern latitude
SAF *	Singapore Armed Forces
SALS	Simple approach lighting system
SAR	Search and rescue
SARPS	Standards and recommended practices (ICAO)
SAT	Saturday
SATCC *	Singapore Air Traffic Control Centre
SATCOM	Satellite communication (used only when referring generally to both voice and data satellite communication or only data satellite communication)
SATVOICE	Satellite voice communication
SDBY	Stand by
SDF	Step down fix
SEC	Seconds
SELCAL	Selective calling system
SEP	September
SER	Service or servicing or served
SFC	Surface
SFL *	Sequenced flashing light
SGL	Signal
SIA *	Singapore Airlines Limited
SID	Standard instrument departure
SIG	Significant
SIGMET	Information concerning en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations
SIMUL	Simultaneous or simultaneously
SKED	Schedule or scheduled
SMC	Surface movement control
SMR	Surface movement radar
SOC	Start of climb
SPECI	Aerodrome special meteorological report (in meteorological code)
SPECIAL	Local special meteorological report (in abbreviated plain language)
SPL	Supplementary flight plan (message type designator)
SPOT	Spot wind
SQ	Squall
SR	Sunrise
SRA	Surveillance radar approach
SRE	Surveillance radar element of precision approach radar system
SRR	Search and rescue region
SRY	Secondary
SS	Sunset
SSR	Secondary surveillance radar
STA	Straight-in approach
STAR	Standard instrument arrival
STD	Standard
STN	Station
STOL	Short take-off and landing
STS	Status
STT *	Standard Taxi Time
STWL	Stopway light(s)
SUBJ	Subject to
SUN	Sunday
SUP	Supplement (AIP Supplement)
SUPPS	Regional supplementary procedures
SVCBL	Serviceable
SWY	Stopway
T	
TA	Traffic advisory
TAA	Terminal arrival altitude
TACAN	UHF tactical air navigation aid
TAF	Aerodrome forecast (in meteorological code)
TAIL	Tail wind
TAR	Terminal area surveillance radar
TAS	True airspeed
TAX	Taxiing or taxi
TCAS RA	Traffic alert and collision avoidance system resolution advisory
TCH	Threshold crossing height
TDZ	Touchdown zone
TECR	Technical reason
TEL	Telephone
TEMPO	Temporary or temporarily
TFC	Traffic
TGL	Touch-and-go landing
TGS	Taxiing guidance system
THR	Threshold
THRU	Through
THU	Thursday
TIBA	Traffic information broadcast by aircraft
TIL	Until
TKOF	Take off

TLOF	Touchdown and lift-off area
TMA	Terminal control area
TOC	Top of climb
TODA	Take-off distance available
TODAH	Take-off distance available, helicopter
TOP	Cloud top
TORA	Take-off run available
TP	Turning point
TR	Track
TRA	Temporary reserved airspace
TRANS	Transmits or transmitter
TRG	Training
TRL	Transition level
TT	Teletypewriter
TUE	Tuesday
TURB	Turbulence
T-VASIS	T visual approach slope indicator system
TWR	Aerodrome control tower or aerodrome control
TWY	Taxiway
TXL	Taxilane
TYP	Type of aircraft
TYPH	Typhoon
U	
U/S	Unserviceable
UAC	Upper area control centre
UAR	Upper air route
UFN	Until further notice
UHF	Ultra high frequency (300 to 3 000 MHz)
UIC	Upper information centre
UIR	Upper flight information region
ULM	Ultra light motorized aircraft
UNL	Unlimited
UNREL	Unreliable
UTA	Upper control area
UTC	Coordinated universal time
V	
VA	Volcanic ash
VAAC	Volcanic ash advisory centre
VAC	Visual approach chart (followed by name/title)
VAR	Magnetic variation
VASIS	Visual approach slope indicator system
VCY	Vicinity
VER	Vertical
VFR	Visual flight rules
VHF	Very high frequency (30 to 300 MHz)
VIP	Very important person
VIS	Visibility
VLR	Very long range
VMC	Visual meteorological conditions
VNAV	Vertical navigation
VOLMET	Meteorological information for aircraft in flight
VOR	VHF omnidirectional radio range
VORTAC	VOR and TACAN combination
VOT	VOR airborne equipment test facility
VRB	Variable
VSA	By visual reference to the ground
VSP	Vertical speed
VTOL	Vertical take-off and landing
VVIP *	Very, very important person
W	
W	West or western longitude or White
WAAS	Wide area augmentation system
WAC	World Aeronautical Chart - ICAO 1:1 000 000 (followed by name/title)
WBAR	Wing bar lights
WDI	Wind direction indicator
WED	Wednesday
WEF	With effect from or effective from
WGS-84	World Geodetic System - 1984
WI	Within
WID	Width or wide
WIE	With immediate effect or effective immediately
WIP	Work in progress
WPT	Way-point
WRNG	Warning
WS	Wind shear
WSPD	Wind speed
WT	Weight
WUT *	Wheels Up Time
WX	Weather
WXR	Weather radar
X	
XBAR	Crossbar (of approach lighting system)
XNG	Crossing
Y	
YCZ	Yellow caution zone (runway lighting)