

GEN 2.2 ABBREVIATIONS USED IN AIS PUBLICATIONS

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

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

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

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

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

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

TLOF	Touchdown and lift-off area	WDI	Wind direction indicator
TMA	Terminal control area	WED	Wednesday
TOC	Top of climb	WEF	With effect from or effective from
TODA	Take-off distance available	WGS-84	World Geodetic System - 1984
TODAH	Take-off distance available, helicopter	WI	Within
TOP	Cloud top	WID	Width or wide
TORA	Take-off run available	WIE	With immediate effect or effective immediately
TP	Turning point	WIP	Work in progress
TR	Track	WPT	Way-point
TRA	Temporary reserved airspace	WRNG	Warning
TRANS	Transmits or transmitter	WS	Wind shear
TRG	Training	WSPD	Wind speed
TRL	Transition level	WT	Weight
TT	Teletypewriter	WUT *	Wheels Up Time
TUE	Tuesday	WX	Weather
TURB	Turbulence	WXR	Weather radar
T-VASIS	T visual approach slope indicator system	X	
TWR	Aerodrome control tower or aerodrome control	XBAR	Crossbar (of approach lighting system)
TWY	Taxiway	XNG	Crossing
TXL	Taxilane	Y	
TYP	Type of aircraft	YCZ	Yellow caution zone (runway lighting)
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		