

Doc 8400



Procedures for
Air Navigation Services

ICAO Abbreviations and Codes

This edition incorporates all amendments
approved by the Council prior to 24 July 2010
and supersedes, on 18 November 2010,
all previous editions of PANS-ABC (Doc 8400).

Eighth Edition — 2010

International Civil Aviation Organization

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AMENDMENTS

Amendments are announced in the supplements to the *Catalogue of ICAO Publications*; the Catalogue and its supplements are available on the ICAO website at www.icao.int. The space below is provided to keep a record of such amendments.

RECORD OF AMENDMENTS AND CORRIGENDA

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FOREWORD

1. Introduction

This document contains abbreviations and codes approved by the Council of ICAO for worldwide use in the international aeronautical telecommunication service and in aeronautical information documents, as appropriate, uniform abbreviated phraseology for use in pre-flight information bulletins and ATS data link communications, with the status of Procedures for Air Navigation Services (in abbreviated form the PANS-ABC).

This document is the outgrowth of study by the Air Navigation Commission in consultation with States in the matter of controlling and coordinating abbreviations and codes. It brings together all abbreviations and codes for use in aircraft operations with the following exceptions:

- a) *Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services* promulgated in Doc 8585.
- b) Data designators and geographical designators for meteorological bulletins given in the *Manual of Aeronautical Meteorological Practice* (Doc 8896).
- c) Aeronautical meteorological codes given in the *Manual of Aeronautical Meteorological Practice*.
- d) Additional abbreviations for restricted use in aeronautical information services (AIS) documents given in the *Aeronautical Information Services Manual* (Doc 8126).
- e) *Location Indicators* given in Doc 7910.
- f) *Aircraft Type Designators* given in Doc 8643.

Table A shows the origin of each edition of the PANS-ABC issued since 1964 and subsequent amendments thereto, together with a list of the principal subjects involved, the dates on which the amendments were approved by the Council and the dates on which they became applicable.

2. Principles for formulation of abbreviations

The principles applied in the formulation of ICAO abbreviations are:

- a) that allocation of more than one signification to a single abbreviation should be avoided except where it can be reasonably determined that no instances of misinterpretation would arise;
- b) that allocation of more than one abbreviation to the same signification should be avoided even though a different use is prescribed;
- c) that abbreviations should make use of the root word or words and should be derived from words common to the working languages except that where it is impracticable to apply this principle to best advantage, the abbreviation should follow the English text;
- d) that the use of a singular or plural form for the signification of an abbreviation should be selected on the basis of the more common use;

- e) that an abbreviation may represent grammatical variants of the basic signification where such application can be made without risk of confusion and the desired grammatical form can be determined from the context of the message.

With respect to the latter principle, several variants are given for a number of abbreviations where it might not be obvious that the variant is appropriate or acceptable.

3. Specifications governing the use of abbreviations

Specifications governing the use of abbreviations and codes are contained in the following ICAO Annexes and PANS:

- a) use of abbreviations in the aeronautical information service: 3.6.4 of Annex 15;
- b) use of the NOTAM Code: 5.2 of Annex 15;
- c) use of abbreviations and codes in the international aeronautical telecommunications service: 3.7 of Annex 10, Volume II;
- d) use of abbreviations on aeronautical charts: 2.3.3 and 2.9 of Annex 4;
- e) use of abbreviations in plain language meteorological messages: Chapters 3, 4, 6 and 7, Appendices 1, 2 and 5 and Attachment A of Annex 3;
- f) use of abbreviations in air-reports: 4.12 of Chapter 4 and Appendix 1 of PANS-ATM (Doc 4444);
- g) use of abbreviations and designators in flight plans and other air traffic services messages: Chapters 11 and 16 and Appendices 2, 3, 5 and 6 of PANS-ATM (Doc 4444).

4. Status

The Procedures for Air Navigation Services (PANS) do not have the same status as the Standards and Recommended Practices. While the latter are adopted by Council in pursuance of Article 37 of the Convention on International Civil Aviation, subject to the full procedure of Article 90, the PANS are approved by the President of the Council on behalf of the Council and recommended to Contracting States for worldwide application.

5. Implementation

The implementation of ICAO Standards, Recommended Practices and Procedures is the responsibility of Contracting States; they are applied in actual operations only after, and in so far as States have enforced them. However, with a view to facilitating their processing towards implementation by States, this document has been prepared in a manner which will permit direct use by operational personnel.

6. Notification of Differences

The PANS do not carry the status afforded to Standards adopted by the Council as Annexes to the Convention and, therefore, do not come within the obligation imposed by Article 38 of the Convention to notify differences in the event of non-implementation.

The attention of States is, however, drawn to the provision in Annex 15 related to the publication in Aeronautical Information Publications of a list of abbreviations and their respective significations used by the State in its Aeronautical Information Publications and in the dissemination of aeronautical information. Differences from ICAO abbreviations or their significations should be identified.

7. Editorial presentation

For encoding purposes the abbreviations given in this document are divided among a “general” and several specialized categories. For the convenience of the user, there is some duplication among these categories. Nevertheless, it may be necessary to draw on the “general” category of abbreviations when composing messages using one of the specialized categories.

Certain Q Code signals which through constant use have attained plain language status have been placed with their plain language significations in the portion of this document which contains the “general” category abbreviations.

Throughout the document, decode material is printed on white paper, encode material on green paper.

Any errors, omissions or discrepancies should be brought to the attention of the Secretary General of ICAO, 999 University Street, Montréal, Quebec, Canada H3C 5H7.

Table A. Amendments to the PANS-ABC

<i>Amendment</i>	<i>Source(s)</i>	<i>Subject(s)</i>	<i>Approved Applicable</i>
1st Edition (1964)	Air Navigation Commission	Study on the control and coordination of abbreviations and codes.	18 March 1964 1 November 1964
Amendment 1	MET/OPS Meeting (1964); Fifth Meeting of the Panel of Teletypewriter Specialists (1963)	Editorial and consequential amendments emanating from Amendment 44 to Annex 10, Amendment 9 to PANS-MET and Amendment 7 to PANS-RAC; addition and modification of meteorological abbreviations; amendment of abbreviations used on the AFTN.	7 June 1965 10 March 1966
Amendment 2	ICAO Secretariat	Consequential and editorial changes to the Foreword emanating from Air Navigation Commission and Council action on various regulatory and service documents.	25 August 1966
2nd Edition (1967) (includes Amendment 3)	AIS/MAP Divisional Meeting (1966)	Various changes to abbreviations and codes to reflect current operational requirements and practices.	13 June 1967 8 February 1968
Amendment 4	Air Navigation Commission	Consequential changes to abbreviations used for air traffic purposes emanating from Amendment 2 to the Eighth Edition of Doc 4444 (PANS-RAC).	4 April 1968 4 April 1968
Amendment 5	Air Navigation Commission	Consequential changes to abbreviations used for plain language meteorology messages, emanating from Amendment 14 to Doc 7605 (PANS-MET).	28 June 1968 9 January 1969
Amendment 6	Air Navigation Commission	Changes arising from Assembly Resolution A16-19 and Amendment 54 to Annex 3.	23 January 1969 18 September 1969

<i>Amendment</i>	<i>Source(s)</i>	<i>Subject(s)</i>	<i>Approved Applicable</i>
3rd Edition (1971) (includes Amendments 7 and 8)	Air Navigation Commission	Study of NOTAM composition resulting in expanded use of abbreviations and codes in NOTAM Class I; changes in abbreviations emanating from revised aeronautical meteorological figure codes introduced by WMO; changes introduced as a result of clarification of air traffic control terms contained in ICAO regulatory documents.	19 March 1971 6 January 1972
Amendment 9	Air Navigation Commission	Consequential changes emanating from Amendment 1 to the Tenth Edition of Doc 4444 (PANS-RAC).	24 March 1972 7 December 1972
Amendment 10	Air Navigation Commission; Third Meeting of the Obstacle Clearance Panel (1971)	Consequential amendments to abbreviations and their significations (QFE and QNH); changes to meteorological abbreviations introduced by WMO.	21 March 1973 16 August 1973
Amendment 11	Air Navigation Commission; Seventh Air Navigation Conference (1972)	Addition of abbreviations RNAV and STAR; deletion of abbreviation SIA.	29 May 1973 23 May 1974
Amendment 12	Air Navigation Commission	Inclusion of additional abbreviations for use in the NOTAM Code.	11 December 1974 9 October 1975
Amendment 13	Air Navigation Commission; Eighth Air Navigation Conference (1974)	Additions, deletions and changes in significations of abbreviations mainly emanating from amendments to Annex 3.	8 December 1975 12 August 1976
Amendment 14	Air Navigation Commission; Ninth Air Navigation Conference (1976)	Addition of abbreviations COP, INOP, MRP, RPS and WPT; change in signification of abbreviation ACP as a consequence of Amendment 30 to Annex 14.	9 December 1977 10 August 1978
Amendment 15	Air Navigation Commission	Additions and changes in signification of abbreviations.	26 February 1979 29 November 1979
Amendment 16	Air Navigation Commission	Additions, deletions and changes in signification of abbreviations emanating from a study of abbreviations in common use in States' aeronautical information publications.	11 March 1981 26 November 1981
Amendment 17	Air Navigation Commission	Extensive amendment of abbreviations and codes emanating from a proposal submitted by the United Kingdom.	14 December 1981 9 June 1983
Amendment 18	Air Navigation Commission	Extensive addition of abbreviations and codes consequential to a study of the revision of the NOTAM Code; addition of abbreviations used in Doc 8168 (PANS-OPS).	11 June 1982 9 June 1983
Amendment 19	Air Navigation Commission; Third Meeting of the ATS Data Acquisition, Processing and Transfer (ADAPT) Panel (1981)	Consequential changes emanating from Amendments 64 and 65 to Annex 3, Amendment 14 to Annex 5, Recommendations 1/5 and 3/1 of ADAPT/3, and a new ITU method of designating radio emissions.	15 March 1985 21 November 1985

<i>Amendment</i>	<i>Source(s)</i>	<i>Subject(s)</i>	<i>Approved Applicable</i>
4th Edition (1989) (includes Amendment 20)	Air Navigation Commission	Additions, changes and deletions of abbreviations and codes to reflect the current operational requirements and practices; introduction of new sections for abbreviations used in radiotelephony in a spoken form (Decode, Encode) and for the Procedure signals used in aeronautical telecommunication service (Decode); consequential and editorial amendments.	24 February 1989 16 November 1989
Amendment 21	Air Navigation Commission; Communications/ Meteorology/ Operations (COM/MET/OPS) Divisional Meeting (1990)	Additions, changes and deletions of abbreviations and codes to reflect the current operational requirements and practices; consequential amendments arising from Amendment 69 to Annex 3, Amendment 13 to Annex 5, Amendment 39 to Annex 14, Amendment 27 to Annex 15 and Amendment 13 to PANS-OPS.	2 December 1992 1 July 1993
Amendment 22	Air Navigation Commission	Consequential changes emanating from: Amendment 70 to Annex 3 Amendment 69 to Annex 10 Amendment 15 to Annex 12 Amendment 28 to Annex 15 Amendment 7 to PANS-OPS, Volume I.	30 November 1995 7 November 1996
5th Edition (1999) (includes Amendment 23)	AIS/MAP Divisional Meeting (1998); Air Navigation Commission	Extensive amendments emanating from the AIS/MAP Divisional Meeting (1998) and the Air Navigation Commission, including additions, changes and deletions of abbreviations; addition and deletion of abbreviations and terms transmitted as spoken words; addition of abbreviations and terms transmitted using the individual letters in non-phonetic form; addition of a NOTAM Code for controller-pilot data link communications and automatic dependent surveillance; deletion of Procedure Signals for use in the International Aeronautical Telecommunication Service (Decode and Encode); deletion of the Q-Code (Preface, Decode and Encode).	26 February 1999 4 November 1999
Amendment 24	Air Navigation Commission	Consequential changes emanating from Amendment 71 to Annex 3.	9 June 2000 2 November 2000
Amendment 25	Air Navigation Commission	Consequential changes emanating from Amendment 72 to Annex 3.	10 July 2002 28 November 2002
Amendment 26	Conclusion 40/51 b) of the European Air Navigation Planning Group (EANPG) and the Secretariat	Consequential changes emanating from Amendment 32 to Annex 15.	23 July 2003 27 November 2003
Sixth Edition (2004) (includes Amendment 27)	Global Navigation Satellite System Panel (GNSSP/4); MET Divisional Meeting (2002); Air Navigation Commission	New abbreviations and updated specifications for the NOTAM Code related to GNSS; and consequential changes emanating from Amendment 73 to Annex 3, Amendment 53 to Annex 4 and Amendments 13 and 12 to the PANS-OPS, Volumes I and II, respectively.	6 May 2004 25 November 2004
Seventh Edition (2007) (includes Amendment 28)	Fourteenth Meeting of the Obstacle Clearance Panel (OCP/14); Air Navigation Commission; and the Secretariat	New abbreviations related to updated provisions in the PANS-OPS; the use of ADS-B, ADS-C and RCP in the provision of air traffic services; consequential changes emanating from Amendment 74 to Annex 3 and Amendment 34 to Annex 15; and editorial amendments.	3 August 2007 22 November 2007

<i>Amendment</i>	<i>Source(s)</i>	<i>Subject(s)</i>	<i>Approved Applicable</i>
Amendment 29	First working group of the whole meeting of the Instrument Flight Procedures Panel (IFPP/WG/WHL/1); Secretariat, with the assistance of the Required Navigation Performance and Special Operational Requirements Study Group (RNPSORSG), concerning PBN terminology	New abbreviations related to updated provisions in the PANS-OPS with regard to the performance-based navigation (PBN) concept and ground-based augmentation system (GBAS) landing system.	7 October 2008 20 November 2008
Eighth Edition (2010) (includes Amendment 30)	Ninth meeting of the Operations Panel Working Group of the Whole (OPSP/WG-WHL/9); sixth meeting of the Operations Panel (OPSP/6); and the Secretariat with the assistance of the Aeronautical Information Management Study Group (AIS-AIMSG/1), International Airways Volcano Watch Operations Group (IAVWOPSG/4), Meteorological Warnings Study Group (METWSG/2), and Aerodrome Meteorological Observation and Forecast Study Group (AMOFSG/7).	New abbreviations related to cockpit displays, unmanned aircraft, volcanic ash information provided by volcanic ash advisory centres (VAAC), the elimination of routine voice reports, completion of tropical cyclone advisories in graphical format and the use of data link for meteorological information, aerodrome observations and forecasts. Update of the NOTAM code.	23 July 2010 18 November 2010

ABBREVIATIONS

DECODE

A

A	Amber
AAA	(or AAB, AAC . . . etc., in sequence) Amended meteorological message (message type designator)
A/A	Air-to-air
AAD	Assigned altitude deviation
AAIM	Aircraft autonomous integrity monitoring
AAL	Above aerodrome level
ABI	Advance boundary information
ABM	Abeam
ABN	Aerodrome beacon
ABT	About
ABV	Above
AC	Altocumulus
ACARS†	(to be pronounced “AY-CARS”) Aircraft communication addressing and reporting system
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
ACN	Aircraft classification number
ACP	Acceptance (message type designator)
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†	(to be pronounced “AY-DIZ”) Air defence identification zone
ADJ	Adjacent
ADO	Aerodrome office (specify service)

ADR	Advisory route
ADS*	The address (when this abbreviation is used to request a repetition, the question mark (IMI) precedes the abbreviation, e.g. IMI ADS) (to be used in AFS as a procedure signal)
ADS-B‡	Automatic dependent surveillance — broadcast
ADS-C‡	Automatic dependent surveillance — contract
ADSU	Automatic dependent surveillance unit
ADVS	Advisory service
ADZ	Advise
AES	Aircraft earth station
AFIL	Flight plan filed in the air
AFIS	Aerodrome flight information service
AFM	Yes or affirm or affirmative or that is correct
AFS	Aeronautical fixed service
AFT . . .	After . . . (time or place)
AFTN‡	Aeronautical fixed telecommunication network
A/G	Air-to-ground
AGA	Aerodromes, air routes and ground aids
AGL	Above ground level
AGN	Again
AIC	Aeronautical information circular
AIDC	Air traffic services interfacility data communications
AIP	Aeronautical information publication
AIRAC	Aeronautical information regulation and control
AIREP†	Air-report
AIRMET†	Information concerning en-route weather phenomena which may affect the safety of low-level aircraft operations
AIS	Aeronautical information services
ALA	Alighting area

† When radiotelephony is used, the abbreviations and terms are transmitted as spoken words.

‡ When radiotelephony is used, the abbreviations and terms are transmitted using the individual letters in non-phonetic form.

* Signal is also available for use in communicating with stations of the maritime mobile service.

Signal for use in the teletypewriter service only.

ALERFA†	Alert phase	ARS	Special air-report (<i>message type designator</i>)
ALR	Alerting (<i>message type designator</i>)	ARST	Arresting (<i>specify (part of) aircraft arresting equipment</i>)
ALRS	Alerting service	AS	Altostratus
ALS	Approach lighting system	ASC	Ascend to <i>or</i> ascending to
ALT	Altitude	ASDA	Accelerate-stop distance available
ALTN	Alternate <i>or</i> alternating (<i>light alternates in colour</i>)	ASE	Altimetry system error
ALTN	Alternate (<i>aerodrome</i>)	ASHTAM	Special series NOTAM notifying, by means of a specific format, change in activity of a volcano, a volcanic eruption and/or volcanic ash cloud that is of significance to aircraft operations
AMA	Area minimum altitude	ASPH	Asphalt
AMD	Amend <i>or</i> amended (<i>used to indicate amended meteorological message; message type designator</i>)	AT . . .	At (<i>followed by time at which weather change is forecast to occur</i>)
AMDT	Amendment (<i>AIP Amendment</i>)	ATA‡	Actual time of arrival
AMS	Aeronautical mobile service	ATC‡	Air traffic control (<i>in general</i>)
AMSL	Above mean sea level	ATCSMAC . . .	Air traffic control surveillance minimum altitude chart (<i>followed by name/title</i>)
AMSS	Aeronautical mobile satellite service	ATD‡	Actual time of departure
ANC . . .	Aeronautical chart — 1:500 000 (<i>followed by name/title</i>)	ATFM	Air traffic flow management
ANCS . . .	Aeronautical navigation chart — small scale (<i>followed by name/title and scale</i>)	ATIS†	Automatic terminal information service
ANS	Answer	ATM	Air traffic management
AOC . . .	Aerodrome obstacle chart (<i>followed by type and name/title</i>)	ATN	Aeronautical telecommunication network
AP	Airport	ATP . . .	At . . . (<i>time or place</i>)
APAPI†	(<i>to be pronounced “AY-PAPI”</i>) Abbreviated precision approach path indicator	ATS	Air traffic services
APCH	Approach	ATTN	Attention
APDC . . .	Aircraft parking/docking chart (<i>followed by name/title</i>)	AT-VASIS†	(<i>to be pronounced “AY-TEE-VASIS”</i>) Abbreviated T visual approach slope indicator system
APN	Apron	ATZ	Aerodrome traffic zone
APP	Approach control office <i>or</i> approach control <i>or</i> approach control service	AUG	August
APR	April	AUTH	Authorized <i>or</i> authorization
APRX	Approximate <i>or</i> approximately	AUW	All up weight
APSG	After passing	AUX	Auxiliary
APV	Approve <i>or</i> approved <i>or</i> approval	AVBL	Available <i>or</i> availability
ARC	Area chart	AVG	Average
ARNG	Arrange	AVGAS†	Aviation gasoline
ARO	Air traffic services reporting office	AWTA	Advise at what time able
ARP	Aerodrome reference point	AWY	Airway
ARP	Air-report (<i>message type designator</i>)	AZM	Azimuth
ARQ	Automatic error correction		
ARR	Arrival (<i>message type designator</i>)		
ARR	Arrive <i>or</i> arrival		

† When radiotelephony is used, the abbreviations and terms are transmitted as spoken words.

‡ When radiotelephony is used, the abbreviations and terms are transmitted using the individual letters in non-phonetic form.

* Signal is also available for use in communicating with stations of the maritime mobile service.

Signal for use in the teletypewriter service only.

B

B	Blue
BA	Braking action
BARO-VNAV†	(to be pronounced “BAA-RO-VEE-NAV”) Barometric vertical navigation
BASE†	Cloud base
BCFG	Fog patches
BCN	Beacon (<i>aeronautical ground light</i>)
BCST	Broadcast
BDRY	Boundary
BECMG	Becoming
BFR	Before
BKN	Broken
BL . . .	Blowing (<i>followed by DU = dust, SA = sand or SN = snow</i>)
BLDG	Building
BLO	Below clouds
BLW . . .	Below . . .
BOMB	Bombing
BR	Mist
BRF	Short (<i>used to indicate the type of approach desired or required</i>)
BRG	Bearing
BRKG	Braking
BS	Commercial broadcasting station
BTL	Between layers
BTN	Between
BUFR	Binary universal form for the representation of meteorological data

C

. . . C	Centre (<i>preceded by runway designation number to identify a parallel runway</i>)
C	Degrees Celsius (<i>Centigrade</i>)
CA	Course to an altitude
CAT	Category
CAT	Clear air turbulence

CAVOK†	(to be pronounced “KAV-OH-KAY”) Visibility, cloud and present weather better than prescribed values or conditions
CB‡	(to be pronounced “CEE BEE”) Cumulonimbus
CC	Cirrocumulus
CCA	(or CCB, CCC . . . etc., in sequence) Corrected meteorological message (<i>message type designator</i>)
CD	Candela
CDN	Coordination (<i>message type designator</i>)
CF	Change frequency to . . .
CF	Course to a fix
CFM*	Confirm or I confirm (<i>to be used in AFS as a procedure signal</i>)
CGL	Circling guidance light(s)
CH	Channel
CH#	This is a channel-continuity-check of transmission to permit comparison of your record of channel-sequence numbers of messages received on the channel (<i>to be used in AFS as a procedure signal</i>)
CHEM	Chemical
CHG	Modification (<i>message type designator</i>)
CI	Cirrus
CIDIN†	Common ICAO data interchange network
CIT	Near or over large towns
CIV	Civil
CK	Check
CL	Centre line
CLA	Clear type of ice formation
CLBR	Calibration
CLD	Cloud
CLG	Calling
CLIMB-OUT	Climb-out area
CLR	Clear(s) or cleared to . . . or clearance
CLRD	Runway(s) cleared (<i>used in METAR/SPECI</i>)
CLSD	Close or closed or closing
CM	Centimetre
CMB	Climb to or climbing to

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Signal for use in the teletypewriter service only.

CMPL	Completion <i>or</i> completed <i>or</i> complete	D	
CNL	Cancel <i>or</i> cancelled	D	Downward (<i>tendency in RVR during previous 10 minutes</i>)
CNL	Flight plan cancellation (<i>message type designator</i>)	D . . .	Danger area (<i>followed by identification</i>)
CNS	Communications, navigation and surveillance	DA	Decision altitude
COM	Communications	D-ATIS [†]	(<i>to be pronounced "DEE-ATIS"</i>) Data link automatic terminal information service
CONC	Concrete	DCD	Double channel duplex
COND	Condition	CKG	Docking
CONS	Continuous	DCP	Datum crossing point
CONST	Construction <i>or</i> constructed	DCPC	Direct controller-pilot communications
CONT	Continue(s) <i>or</i> continued	DCS	Double channel simplex
COOR	Coordinate <i>or</i> coordination	DCT	Direct (<i>in relation to flight plan clearances and type of approach</i>)
COORD	Coordinates	DE*	From (<i>used to precede the call sign of the calling station</i>) (<i>to be used in AFS as a procedure signal</i>)
COP	Change-over point	DEC	December
COR	Correct <i>or</i> correction <i>or</i> corrected (<i>used to indicate corrected meteorological message; message type designator</i>)	DEG	Degrees
COT	At the coast	DEP	Depart <i>or</i> departure
COV	Cover <i>or</i> covered <i>or</i> covering	DEP	Departure (<i>message type designator</i>)
CPDLC [‡]	Controller-pilot data link communications	DEPO	Deposition
CPL	Current flight plan (<i>message type designator</i>)	DER	Departure end of the runway
CRC	Cyclic redundancy check	DES	Descend <i>to or</i> descending <i>to</i>
CRM	Collision risk model	DEST	Destination
CRZ	Cruise	DETRESFA [†]	Distress phase
CS	Call sign	DEV	Deviation <i>or</i> deviating
CS	Cirrostratus	DF	Direction finding
CTA	Control area	DFDR	Digital flight data recorder
CTAM	Climb to and maintain	DFTI	Distance from touchdown indicator
CTC	Contact	DH	Decision height
CTL	Control	DIF	Diffuse
CTN	Caution	DIST	Distance
CTR	Control zone	DIV	Divert <i>or</i> diverting
CU	Cumulus	DLA	Delay <i>or</i> delayed
CUF	Cumuliform	DLA	Delay (<i>message type designator</i>)
CUST	Customs	DLIC	Data link initiation capability
CVR	Cockpit voice recorder	DLY	Daily
CW	Continuous wave	DME [‡]	Distance measuring equipment
CWY	Clearway	DNG	Danger <i>or</i> dangerous
		DOM	Domestic
		DP	Dew point temperature

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DPT	Depth	EMBD	Embedded in a layer (<i>to indicate cumulonimbus embedded in layers of other clouds</i>)
DR	Dead reckoning	EMERG	Emergency
DR . . .	Low drifting (<i>followed by DU = dust, SA = sand or SN = snow</i>)	END	Stop-end (<i>related to RVR</i>)
DRG	During	ENE	East-north-east
DS	Duststorm	ENG	Engine
DSB	Double sideband	ENR	En route
DTAM	Descend to and maintain	ENRC . . .	Enroute chart (<i>followed by name/title</i>)
DTG	Date-time group	EOBT	Estimated off-block time
DTHR	Displaced runway threshold	EQPT	Equipment
DTRT	Deteriorate <i>or</i> deteriorating	ER*	Here . . . <i>or</i> herewith
DTW	Dual tandem wheels	ESE	East-south-east
DU	Dust	EST	Estimate <i>or</i> estimated <i>or</i> estimation (<i>message type designator</i>)
DUC	Dense upper cloud	ETA*‡	Estimated time of arrival <i>or</i> estimating arrival
DUPE#	This is a duplicate message (<i>to be used in AFS as a procedure signal</i>)	ETD‡	Estimated time of departure <i>or</i> estimating departure
DUR	Duration	ETO	Estimated time over significant point
D-VOLMET	Data link VOLMET	EUR RODEX	European regional OPMET data exchange
DVOR	Doppler VOR	EV	Every
DW	Dual wheels	EVS	Enhanced vision system
DZ	Drizzle	EXC	Except
E		EXER	Exercises <i>or</i> exercising <i>or</i> to exercise
E	East <i>or</i> eastern longitude	EXP	Expect <i>or</i> expected <i>or</i> expecting
EAT	Expected approach time	EXTD	Extend <i>or</i> extending
EB	Eastbound	F	
EDA	Elevation differential area	F	Fixed
EEE#	Error (<i>to be used in AFS as a procedure signal</i>)	FA	Course from a fix to an altitude
EET	Estimated elapsed time	FAC	Facilities
EFC	Expect further clearance	FAF	Final approach fix
EFIS†	(<i>to be pronounced “EE-FIS”</i>) Electronic flight instrument system	FAL	Facilitation of international air transport
EGNOS†	(<i>to be pronounced “EGG-NOS”</i>) European geostationary navigation overlay service	FAP	Final approach point
EHF	Extremely high frequency [30 000 to 300 000 MHz]	FAS	Final approach segment
ELBA†	Emergency location beacon — aircraft	FATO	Final approach and take-off area
ELEV	Elevation	FAX	Facsimile transmission
ELR	Extra long range	FBL	Light (<i>used to indicate the intensity of weather phenomena, interference or static reports, e.g. FBL RA = light rain</i>)
ELT	Emergency locator transmitter		
EM	Emission		

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Signal for use in the teletypewriter service only.

FC	Funnel cloud (<i>tornado or water spout</i>)	FT	Feet (<i>dimensional unit</i>)
FCST	Forecast	FTE	Flight technical error
FCT	Friction coefficient	FTP	Fictitious threshold point
FDPS	Flight data processing system	FTT	Flight technical tolerance
FEB	February	FU	Smoke
FEW	Few	FZ	Freezing
FG	Fog	FZDZ	Freezing drizzle
FIC	Flight information centre	FZFG	Freezing fog
FIR‡	Flight information region	FZRA	Freezing rain
FIS	Flight information service		
FISA	Automated flight information service		
FL	Flight level	G	
FLD	Field	G	Green
FLG	Flashing	G . . .	Variations from the mean wind speed (gusts) (<i>followed by figures in METAR/SPECI and TAF</i>)
FLR	Flares	GA	Go ahead, resume sending (<i>to be used in AFS as a procedure signal</i>)
FLT	Flight	G/A	Ground-to-air
FLTCK	Flight check	G/A/G	Ground-to-air and air-to-ground
FLUC	Fluctuating or fluctuation or fluctuated	GAGAN†	GPS and geostationary earth orbit augmented navigation
FLW	Follow(s) or following	GAIN	Airspeed or headwind gain
FLY	Fly or flying	GAMET	Area forecast for low-level flights
FM	Course from a fix to manual termination (<i>used in navigation database coding</i>)	GARP	GBAS azimuth reference point
FM	From	GBAS†	(<i>to be pronounced “GEE-BAS”</i>) Ground-based augmentation system
FM . . .	From (<i>followed by time weather change is forecast to begin</i>)	GCA‡	Ground controlled approach system or ground controlled approach
FMC	Flight management computer	GEN	General
FMS‡	Flight management system	GEO	Geographic or true
FMU	Flow management unit	GES	Ground earth station
FNA	Final approach	GLD	Glider
FPAP	Flight path alignment point	GLONASS†	(<i>to be pronounced “GLO-NAS”</i>) Global orbiting navigation satellite system
FPL	Filed flight plan (<i>message type designator</i>)	GLS‡	GBAS landing system
FPM	Feet per minute	GMC . . .	Ground movement chart (<i>followed by name/title</i>)
FPR	Flight plan route	GND	Ground
FR	Fuel remaining	GNDCK	Ground check
FREQ	Frequency	GNSS‡	Global navigation satellite system
FRI	Friday	GP	Glide path
FRNG	Firing	GPA	Glide path angle
FRONT†	Front (<i>relating to weather</i>)		
FROST†	Frost (<i>used in aerodrome warnings</i>)		
FRQ	Frequent		
FSL	Full stop landing		
FSS	Flight service station		
FST	First		

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Signal for use in the teletypewriter service only.

GPIP	Glide path intercept point	HVDF	High and very high frequency direction-finding stations (<i>at the same location</i>)
GPS‡	Global positioning system	HVY	Heavy
GPWS‡	Ground proximity warning system	HVY	Heavy (<i>used to indicate the intensity of weather phenomena, e.g. HVY RA = heavy rain</i>)
GR	Hail	HX	No specific working hours
GRAS†	(<i>to be pronounced “GRASS”</i>) Ground-based regional augmentation system	HYR	Higher
GRASS	Grass landing area	HZ	Haze
GRIB	Processed meteorological data in the form of grid point values expressed in binary form (<i>meteorological code</i>)	HZ	Hertz (<i>cycle per second</i>)
GRVL	Gravel	I	
GS	Ground speed	IAC . . .	Instrument approach chart (<i>followed by name/title</i>)
GS	Small hail and/or snow pellets	IAF	Initial approach fix
GUND	Geoid undulation	IAO	In and out of clouds
H		IAP	Instrument approach procedure
H	High pressure area <i>or</i> the centre of high pressure	IAR	Intersection of air routes
H24	Continuous day and night service	IAS	Indicated airspeed
HA	Holding/racetrack to an altitude	IBN	Identification beacon
HAPI	Helicopter approach path indicator	IC	Ice crystals (<i>very small ice crystals in suspension, also known as diamond dust</i>)
HBN	Hazard beacon	ICE	Icing
HDF	High frequency direction-finding station	ID	Identifier <i>or</i> identify
HDG	Heading	IDENT†	Identification
HEL	Helicopter	IF	Intermediate approach fix
HF‡	High frequency [3 000 to 30 000 kHz]	IFF	Identification friend/foe
HF	Holding/racetrack to a fix	IFR‡	Instrument flight rules
HGT	Height <i>or</i> height above	IGA	International general aviation
HJ	Sunrise to sunset	ILS‡	Instrument landing system
HLDG	Holding	IM	Inner marker
HM	Holding/racetrack to a manual termination	IMC‡	Instrument meteorological conditions
HN	Sunset to sunrise	IMG	Immigration
HO	Service available to meet operational requirements	IMI*	Interrogation sign (question mark) (<i>to be used in AFS as a procedure signal</i>)
HOL	Holiday	IMPR	Improve <i>or</i> improving
HOSP	Hospital aircraft	IMT	Immediate <i>or</i> immediately
HPA	Hectopascal	INA	Initial approach
HR	Hours	INBD	Inbound
HS	Service available during hours of scheduled operations	INC	In cloud
HUD	Head-up display	INCERFA†	Uncertainty phase
HURCN	Hurricane	INFO†	Information
		INOP	Inoperative

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Signal for use in the teletypewriter service only.

INP	If not possible	LAM	Logical acknowledgement (<i>message type designator</i>)
INPR	In progress	LAN	Inland
INS	Inertial navigation system	LAT	Latitude
INSTL	Install <i>or</i> installed <i>or</i> installation	LCA	Local <i>or</i> locally <i>or</i> location <i>or</i> located
INSTR	Instrument	LDA	Landing distance available
INT	Intersection	LDAH	Landing distance available, helicopter
INTL	International	LDG	Landing
INTRG	Interrogator	LDI	Landing direction indicator
INTRP	Interrupt <i>or</i> interruption <i>or</i> interrupted	LEN	Length
INTSF	Intensify <i>or</i> intensifying	LF	Low frequency [30 to 300 kHz]
INTST	Intensity	LGT	Light <i>or</i> lighting
IR	Ice on runway	LGTD	Lighted
IRS	Inertial reference system	LIH	Light intensity high
ISA	International standard atmosphere	LIL	Light intensity low
ISB	Independent sideband	LIM	Light intensity medium
ISOL	Isolated	LINE	Line (<i>used in SIGMET</i>)
J		LM	Locator, middle
JAN	January	LMT	Local mean time
JTST	Jet stream	LNAV†	(<i>to be pronounced “EL-NAV”</i>) Lateral navigation
JUL	July	LNG	Long (<i>used to indicate the type of approach desired or required</i>)
JUN	June	LO	Locator, outer
K		LOC	Localizer
KG	Kilograms	LONG	Longitude
KHZ	Kilohertz	LORAN‡	LORAN (<i>long range air navigation system</i>)
KIAS	Knots indicated airspeed	LOSS	Airspeed or headwind loss
KM	Kilometres	LPV	Localizer performance with vertical guidance
KMH	Kilometres per hour	LR	The last message received by me was . . . (<i>to be used in AFS as a procedure signal</i>)
KPA	Kilopascal	LRG	Long range
KT	Knots	LS	The last message sent by me was . . . <i>or</i> Last message was . . . (<i>to be used in AFS as a procedure signal</i>)
KW	Kilowatts	LTD	Limited
L		LTP	Landing threshold point
. . . L	Left (<i>preceded by runway designation number to identify a parallel runway</i>)	LTT	Landline teletypewriter
L	Locator (<i>see LM, LO</i>)	LV	Light and variable (<i>relating to wind</i>)
L	Low pressure area <i>or</i> the centre of low pressure	LVE	Leave <i>or</i> leaving
		LVL	Level
		LVP	Low visibility procedures
		LYR	Layer <i>or</i> layered

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Signal for use in the teletypewriter service only.

M

... M	Metres (<i>preceded by figures</i>)
M...	Mach number (<i>followed by figures</i>)
M...	Minimum value of runway visual range (<i>followed by figures in METAR/SPECI</i>)
MAA	Maximum authorized altitude
MAG	Magnetic
MAHF	Missed approach holding fix
MAINT	Maintenance
MAP	Aeronautical maps and charts
MAPT	Missed approach point
MAR	At sea
MAR	March
MAS	Manual A1 simplex
MATF	Missed approach turning fix
MAX	Maximum
MAY	May
MBST	Microburst
MCA	Minimum crossing altitude
MCW	Modulated continuous wave
MDA	Minimum descent altitude
MDF	Medium frequency direction-finding station
MDH	Minimum descent height
MEA	Minimum en-route altitude
MEHT	Minimum eye height over threshold (<i>for visual approach slope indicator systems</i>)
MET†	Meteorological <i>or</i> meteorology
METAR†	Aerodrome routine meteorological report (<i>in meteorological code</i>)
MET REPORT	Local routine meteorological report (<i>in abbreviated plain language</i>)
MF	Medium frequency [300 to 3 000 kHz]
MHDF	Medium and high frequency direction-finding stations (<i>at the same location</i>)
MHVDF	Medium, high and very high frequency direction-finding stations (<i>at the same location</i>)
MHZ	Megahertz
MID	Mid-point (<i>related to RVR</i>)
MIFG	Shallow fog
MIL	Military

MIN*	Minutes
MIS	Missing . . . (<i>transmission identification to be used in AFS as a procedure signal</i>)
MKR	Marker radio beacon
MLS‡	Microwave landing system
MM	Middle marker
MNM	Minimum
MNPS	Minimum navigation performance specifications
MNT	Monitor <i>or</i> monitoring <i>or</i> monitored
MNTN	Maintain
MOA	Military operating area
MOC	Minimum obstacle clearance (<i>required</i>)
MOCA	Minimum obstacle clearance altitude
MOD	Moderate (<i>used to indicate the intensity of weather phenomena, interference or static reports, e.g. MODRA = moderate rain</i>)
MON	Above mountains
MON	Monday
MOPS†	Minimum operational performance standards
MOV	Move <i>or</i> moving <i>or</i> movement
MPS	Metres per second
MRA	Minimum reception altitude
MRG	Medium range
MRP	ATS/MET reporting point
MS	Minus
MSA	Minimum sector altitude
MSAS†	(<i>to be pronounced “EM-SAS”</i>) Multi-functional transport satellite (MTSAT) satellite-based augmentation system
MSAW	Minimum safe altitude warning
MSG	Message
MSL	Mean sea level
MSR#	Message . . . (<i>transmission identification has been misrouted to be used in AFS as a procedure signal</i>)
MSSR	Monopulse secondary surveillance radar
MT	Mountain
MTU	Metric units
MTW	Mountain waves
MVDF	Medium and very high frequency direction-finding stations (<i>at the same location</i>)

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Signal for use in the teletypewriter service only.

MWO	Meteorological watch office	NOTAM†	A notice distributed by means of telecommuni-cation 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
MX	Mixed type of ice formation (<i>white and clear</i>)		
N			
N	No distinct tendency (<i>in RVR during previous 10 minutes</i>)		
N	North <i>or</i> northern latitude	NOV	November
NADP	Noise abatement departure procedure	NOZ‡	Normal operating zone
NASC†	National AIS system centre	NPA	Non-precision approach
NAT	North Atlantic	NR	Number
NAV	Navigation	NRH	No reply heard
NB	Northbound	NS	Nimbostratus
NBFR	Not before	NSC	Nil significant cloud
NC	No change	NSE	Navigation system error
NCD	No cloud detected (<i>used in automated METAR/SPECI</i>)	NSW	Nil significant weather
NDB‡	Non-directional radio beacon	NTL	National
NDV	No directional variations available (<i>used in automated METAR/SPECI</i>)	NTZ‡	No transgression zone
NE	North-east	NW	North-west
NEB	North-eastbound	NWB	North-westbound
NEG	No <i>or</i> negative <i>or</i> permission not granted <i>or</i> that is not correct	NXT	Next
O			
NGT	Night	OAC	Oceanic area control centre
NIL*†	None <i>or</i> I have nothing to send to you	OAS	Obstacle assessment surface
NM	Nautical miles	OBS	Observe <i>or</i> observed <i>or</i> observation
NML	Normal	OBSC	Obscure <i>or</i> obscured <i>or</i> obscuring
NN	No name, unnamed	OBST	Obstacle
NNE	North-north-east	OCA	Obstacle clearance altitude
NNW	North-north-west	OCA	Oceanic control area
NO	No (negative) (<i>to be used in AFS as a procedure signal</i>)	OCC	Occluding (<i>light</i>)
NOF	International NOTAM office	OCH	Obstacle clearance height
NOSIG†	No significant change (<i>used in trend-type landing forecasts</i>)	OCNL	Occasional <i>or</i> occasionally
		OCS	Obstacle clearance surface
		OCT	October
		OFZ	Obstacle free zone
		OGN	Originate (<i>to be used in AFS as a procedure signal</i>)
		OHD	Overhead
		OIS	Obstacle identification surface
		OK*	We agree <i>or</i> It is correct (<i>to be used in AFS as a procedure signal</i>)

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OLDI†	On-line data interchange
OM	Outer marker
OPA	Opaque, white type of ice formation
OPC	Control indicated is operational control
OPMET†	Operational meteorological (<i>information</i>)
OPN	Open <i>or</i> opening <i>or</i> opened
OPR	Operator <i>or</i> operate <i>or</i> operative <i>or</i> operating <i>or</i> operational
OPS†	Operations
O/R	On request
ORD	Order
OSV	Ocean station vessel
OTP	On top
OTS	Organized track system
OUBD	Outbound
OVC	Overcast

P

P . . .	Maximum value of wind speed or runway visual range (<i>followed by figures in METAR/SPECI and TAF</i>)
P . . .	Prohibited area (<i>followed by identification</i>)
PA	Precision approach
PALS	Precision approach lighting system (<i>specify category</i>)
PANS	Procedures for air navigation services
PAPI†	Precision approach path indicator
PAR‡	Precision approach radar
PARL	Parallel
PATC . . .	Precision approach terrain chart (<i>followed by name/title</i>)
PAX	Passenger(s)
PBN	Performance-based navigation
PCD	Proceed <i>or</i> proceeding
PCL	Pilot-controlled lighting
PCN	Pavement classification number
PDC‡	Pre-departure clearance
PDG	Procedure design gradient
PER	Performance
PERM	Permanent
PIB	Pre-flight information bulletin
PJE	Parachute jumping exercise
PL	Ice pellets
PLA	Practice low approach

PLN	Flight plan
PLVL	Present level
PN	Prior notice required
PNR	Point of no return
PO	Dust/sand whirls (<i>dust devils</i>)
POB	Persons on board
POSS	Possible
PPI	Plan position indicator
PPR	Prior permission required
PPSN	Present position
PRFG	Aerodrome partially covered by fog
PRI	Primary
PRKG	Parking
PROB†	Probability
PROC	Procedure
PROV	Provisional
PRP	Point-in-space reference point
PS	Plus
PSG	Passing
PSN	Position
PSP	Pierced steel plank
PSR‡	Primary surveillance radar
PSYS	Pressure system(s)
PTN	Procedure turn
PTS	Polar track structure
PWR	Power

Q

QD	Do you intend to ask me for a series of bearings? <i>or</i> I intend to ask you for a series of bearings (<i>to be used in radiotelegraphy as a Q Code</i>)
QDM‡	Magnetic heading (<i>zero wind</i>)
QDR	Magnetic bearing
QFE‡	Atmospheric pressure at aerodrome elevation (<i>or at runway threshold</i>)
QFU	Magnetic orientation of runway
QGE	What is my distance to your station? <i>or</i> Your distance to my station is (<i>distance figures and units</i>) (<i>to be used in radiotelegraphy as a Q Code</i>)
QJH	Shall I run my test tape/a test sentence? <i>or</i> Run your test tape/a test sentence (<i>to be used in AFS as a Q Code</i>)

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Signal for use in the teletypewriter service only.

QNH‡	Altimeter sub-scale setting to obtain elevation when on the ground	RB	Rescue boat
QSP	Will you relay to . . . free of charge? <i>or</i> I will relay to . . . free of charge <i>(to be used in AFS as a Q Code)</i>	RCA	Reach cruising altitude
QTA	Shall I cancel telegram number . . . ? <i>or</i> Cancel telegram number . . . <i>(to be used in AFS as a Q Code)</i>	RCC	Rescue coordination centre
QTE	True bearing	RCF	Radiocommunication failure <i>(message type designator)</i>
QTF	Will you give me the position of my station according to the bearings taken by the D/F stations which you control? <i>or</i> The position of your station according to the bearings taken by the D/F stations that I control was . . . latitude . . . longitude <i>(or other indication of position)</i> , class . . . at . . . hours <i>(to be used in radiotelegraphy as a Q Code)</i>	RCH	Reach <i>or</i> reaching
QUAD	Quadrant	RCL	Runway centre line
QUJ	Will you indicate the TRUE track to reach you? <i>or</i> The TRUE track to reach me is . . . degrees at . . . hours <i>(to be used in radiotelegraphy as a Q Code)</i>	RCLL	Runway centre line light(s)
R		RCLR	Recleared
. . . R	Right <i>(preceded by runway designation number to identify a parallel runway)</i>	RCP‡	Required communication performance
R	Rate of turn	RDH	Reference datum height
R	Red	RDL	Radial
R . . .	Restricted area <i>(followed by identification)</i>	RDO	Radio
R . . .	Runway <i>(followed by figures in METAR/SPECI)</i>	RE	Recent <i>(used to qualify weather phenomena, e.g. RERA = recent rain)</i>
R*	Received <i>(acknowledgement of receipt) (to be used in AFS as a procedure signal)</i>	REC	Receive <i>or</i> receiver
RA	Rain	REDL	Runway edge light(s)
RA	Resolution advisory	REF	Reference to . . . <i>or</i> refer to . . .
RAC	Rules of the air and air traffic services	REG	Registration
RAG	Ragged	RENL	Runway end light(s)
RAG	Runway arresting gear	REP	Report <i>or</i> reporting <i>or</i> reporting point
RAI	Runway alignment indicator	REQ	Request <i>or</i> requested
RAIM†	Receiver autonomous integrity monitoring	RE RTE	Re-route
RASC†	Regional AIS system centre	RESA	Runway end safety area
RASS	Remote altimeter setting source	RF	Constant radius arc to a fix
		RG	Range <i>(lights)</i>
		RHC	Right-hand circuit
		RIF	Reclearance in flight
		RIME†	Rime <i>(used in aerodrome warnings)</i>
		RITE	Right <i>(direction of turn)</i>
		RL	Report leaving
		RLA	Relay to
		RLCE	Request level change en route
		RLLS	Runway lead-in lighting system
		RLNA	Request level not available
		RMK	Remark
		RNAV†	<i>(to be pronounced “AR-NAV”)</i> Area navigation
		RNG	Radio range
		RNP‡	Required navigation performance
		ROBEX†	Regional OPMET bulletin exchange <i>(scheme)</i>
		ROC	Rate of climb
		ROD	Rate of descent
		RON	Receiving only
		RPDS	Reference path data selector

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Signal for use in the teletypewriter service only.

RPI‡	Radar position indicator	S	
RPL	Repetitive flight plan	S	South <i>or</i> southern latitude
RPLC	Replace <i>or</i> replaced	S . . .	State of the sea (<i>followed by figures in METAR/SPECI</i>)
RPS	Radar position symbol	SA	Sand
RPT*	Repeat <i>or</i> I repeat (<i>to be used in AFS as a procedure signal</i>)	SALS	Simple approach lighting system
RQ*	Request (<i>to be used in AFS as a procedure signal</i>)	SAN	Sanitary
RQMNTS	Requirements	SAP	As soon as possible
RQP	Request flight plan (<i>message type designator</i>)	SAR	Search and rescue
RQS	Request supplementary flight plan (<i>message type designator</i>)	SARPS	Standards and Recommended Practices [ICAO]
RR	Report reaching	SAT	Saturday
RRA	(<i>or RRB, RRC . . . etc., in sequence</i>) Delayed meteorological message (<i>message type designator</i>)	SATCOM†	Satellite communication
RSC	Rescue sub-centre	SB	Southbound
RSCD	Runway surface condition	SBAS†	(<i>to be pronounced “ESS-BAS”</i>) Satellite-based augmentation system
RSP	Responder beacon	SC	Stratocumulus
RSR	En-route surveillance radar	SCT	Scattered
RSS	Root sum square	SD	Standard deviation
RTD	Delayed (<i>used to indicate delayed meteorological message; message type designator</i>)	SDBY	Stand by
RTE	Route	SDF	Step down fix
RTF	Radiotelephone	SE	South-east
RTG	Radiotelegraph	SEA	Sea (<i>used in connection with sea-surface temperature and state of the sea</i>)
RTHL	Runway threshold light(s)	SEB	South-eastbound
RTN	Return <i>or</i> returned <i>or</i> returning	SEC	Seconds
RTODAH	Rejected take-off distance available, helicopter	SECN	Section
RTS	Return to service	SECT	Sector
RTT	Radioteletypewriter	SELCAL†	Selective calling system
RTZL	Runway touchdown zone light(s)	SEP	September
RUT	Standard regional route transmitting frequencies	SER	Service <i>or</i> servicing <i>or</i> served
RV	Rescue vessel	SEV	Severe (<i>used e.g. to qualify icing and turbulence reports</i>)
RVR‡	Runway visual range	SFC	Surface
RVSM‡	Reduced vertical separation minimum (300 m (1 000 ft)) between FL 290 and FL 410	SG	Snow grains
RWY	Runway	SGL	Signal
		SH . . .	Shower (<i>followed by RA = rain, SN = snow, PL = ice pellets, GR = hail, GS = small hail and/or snow pellets or combinations thereof, e.g. SHRASN = showers of rain and snow</i>)
		SHF	Super high frequency [3 000 to 30 000 MHz]
		SI	International system of units
		SID†	Standard instrument departure

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Signal for use in the teletypewriter service only.

SIF	Selective identification feature	SSW	South-south-west
SIG	Significant	ST	Stratus
SIGMET†	Information concerning en-route weather phenomena which may affect the safety of aircraft operations	STA	Straight-in approach
		STAR†	Standard instrument arrival
SIMUL	Simultaneous <i>or</i> simultaneously	STD	Standard
SIWL	Single isolated wheel load	STF	Stratiform
SKED	Schedule <i>or</i> scheduled	STN	Station
SLP	Speed limiting point	STNR	Stationary
SLW	Slow	STOL	Short take-off and landing
SMC	Surface movement control	STS	Status
SMR	Surface movement radar	STWL	Stopway light(s)
SN	Snow	SUBJ	Subject to
SNOCLO	Aerodrome closed due to snow (<i>used in METAR/SPECI</i>)	SUN	Sunday
		SUP	Supplement (<i>AIP Supplement</i>)
SNOWTAM†	Special series NOTAM notifying the presence or removal of hazardous conditions due to snow, ice, slush or standing water associated with snow, slush and ice on the movement area, by means of a specific format	SUPPS	Regional supplementary procedures
		SVC	Service message
SOC	Start of climb	SVCBL	Serviceable
SPECI†	Aerodrome special meteorological report (<i>in meteorological code</i>)	SW	South-west
SPECIAL†	Local special meteorological report (<i>in abbreviated plain language</i>)	SWB	South-westbound
SPI	Special position indicator	SWY	Stopway
SPL	Supplementary flight plan (<i>message type designator</i>)		
SPOC	SAR point of contact	T	
SPOT†	Spot wind	T	Temperature
SQ	Squall	... T	True (<i>preceded by a bearing to indicate reference to True North</i>)
SQL	Squall line	TA	Traffic advisory
SR	Sunrise	TA	Transition altitude
SRA	Surveillance radar approach	TAA	Terminal arrival altitude
SRE	Surveillance radar element of precision approach radar system	TACAN†	UHF tactical air navigation aid
SRG	Short range	TAF†	Aerodrome forecast (<i>in meteorological code</i>)
SRR	Search and rescue region	TA/H	Turn at an altitude/height
SRY	Secondary	TAIL†	Tail wind
SS	Sandstorm	TAR	Terminal area surveillance radar
SS	Sunset	TAS	True airspeed
SSB	Single sideband	TAX	Taxiing <i>or</i> taxi
SSE	South-south-east	TC	Tropical cyclone
SSR‡	Secondary surveillance radar	TCAC	Tropical cyclone advisory centre
SST	Supersonic transport	TCAS RA†	(<i>to be pronounced "TEE-CAS-AR-AY"</i>) Traffic alert and collision avoidance system resolution advisory
		TCH	Threshold crossing height
		TCU	Towering cumulus
		TDO	Tornado

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Signal for use in the teletypewriter service only.

TDZ	Touchdown zone	TS . . .	Thunderstorm (followed by RA = rain, SN = snow, PL = ice pellets, GR = hail, GS = small hail and/or snow pellets or combinations thereof, e.g. TSRASN = thunderstorm with rain and snow)
TECR	Technical reason	TSUNAMI†	Tsunami (used in aerodrome warnings)
TEL	Telephone	TT	Teletypewriter
TEMPO†	Temporary or temporarily	TUE	Tuesday
TF	Track to fix	TURB	Turbulence
TFC	Traffic	T-VASIS†	(to be pronounced “TEE-VASIS”) T visual approach slope indicator system
TGL	Touch-and-go landing	TVOR	Terminal VOR
TGS	Taxiing guidance system	TWR	Aerodrome control tower or aerodrome control
THR	Threshold	TWY	Taxiway
THRU	Through	TWYL	Taxiway-link
THU	Thursday	TX . . .	Maximum temperature (followed by figures in TAF)
TIBA†	Traffic information broadcast by aircraft	TXT*	Text (when the abbreviation is used to request a repetition, the question mark (IMI) precedes the abbreviation, e.g. IMI TXT) (to be used in AFS as a procedure signal)
TIL†	Until	TYP	Type of aircraft
TIP	Until past . . . (place)	TYPH	Typhoon
TKOF	Take-off		
TL . . .	Till (followed by time by which weather change is forecast to end)	U	
TLOF	Touchdown and lift-off area	U	Upward (tendency in RVR during previous 10 minutes)
TMA‡	Terminal control area	UA	Unmanned aircraft
TN . . .	Minimum temperature (followed by figures in TAF)	UAB . . .	Until advised by . . .
TNA	Turn altitude	UAC	Upper area control centre
TNH	Turn height	UAR	Upper air route
TO . . .	To . . . (place)	UAS	Unmanned aircraft system
TOC	Top of climb	UDF	Ultra high frequency direction-finding station
TODA	Take-off distance available	UFN	Until further notice
TODAH	Take-off distance available, helicopter	UHDT	Unable higher due traffic
TOP†	Cloud top	UHF‡	Ultra high frequency [300 to 3 000 MHz]
TORA	Take-off run available	UIC	Upper information centre
TOX	Toxic	UIR‡	Upper flight information region
TP	Turning point	ULR	Ultra long range
TR	Track	UNA	Unable
TRA	Temporary reserved airspace		
TRANS	Transmits or transmitter		
TREND†	Trend forecast		
TRL	Transition level		
TROP	Tropopause		
TS	Thunderstorm (in aerodrome reports and forecasts, TS used alone means thunder heard but no precipitation at the aerodrome)		

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UNAP	Unable to approve	VNAV†	(<i>to be pronounced “VEE-NAV”</i>) Vertical navigation
UNL	Unlimited	VOLMET†	Meteorological information for aircraft in flight
UNREL	Unreliable	VOR‡	VHF omnidirectional radio range
UP	Unidentified precipitation (<i>used in automated METAR/SPECI</i>)	VORTAC†	VOR and TACAN combination
U/S	Unserviceable	VOT	VOR airborne equipment test facility
UTA	Upper control area	VPA	Vertical path angle
UTC‡	Coordinated Universal Time	VPT	Visual manoeuvre with prescribed track
V		VRB	Variable
... V ...	Variations from the mean wind direction (<i>preceded and followed by figures in METAR/SPECI, e.g. 350V070</i>)	VSA	By visual reference to the ground
VA	Heading to an altitude	VSP	Vertical speed
VA	Volcanic ash	VTF	Vector to final
VAAC	Volcanic ash advisory centre	VTOL	Vertical take-off and landing
VAC ...	Visual approach chart (<i>followed by name/title</i>)	VV ...	Vertical visibility (<i>followed by figures in METAR/SPECI and TAF</i>)
VAL	In valleys	W	
VAN	Runway control van	W	West <i>or</i> western longitude
VAR	Magnetic variation	W	White
VAR	Visual-aural radio range	W ...	Sea-surface temperature (<i>followed by figures in METAR/SPECI</i>)
VASIS	Visual approach slope indicator systems	WAAS†	Wide area augmentation system
VC ...	Vicinity of the aerodrome (<i>followed by FG = fog, FC = funnel cloud, SH = shower, PO = dust/sand whirls, BLDU = blowing dust, BLSA = blowing sand, BLSN = blowing snow, DS = duststorm, SS = sandstorm, TS = thunderstorm or VA = volcanic ash, e.g. VCFG = vicinity fog</i>)	WAC ...	World Aeronautical Chart — ICAO 1:1 000 000 (<i>followed by name/title</i>)
VCY	Vicinity	W AFC	World area forecast centre
VDF	Very high frequency direction-finding station	WB	Westbound
VER	Vertical	WBAR	Wing bar lights
VFR‡	Visual flight rules	WDI	Wind direction indicator
VHF‡	Very high frequency [30 to 300 MHz]	WDSPR	Widespread
VI	Heading to an intercept	WED	Wednesday
VIP‡	Very important person	WEF	With effect from <i>or</i> effective from
VIS	Visibility	WGS-84	World Geodetic System — 1984
VLF	Very low frequency [3 to 30 kHz]	WI	Within
VLR	Very long range	WID	Width <i>or</i> wide
VM	Heading to a manual termination	WIE	With immediate effect <i>or</i> effective immediately
VMC‡	Visual meteorological conditions	WILCO†	Will comply
		WIND	Wind
		WIP	Work in progress
		WKN	Weaken <i>or</i> weakening
		WNW	West-north-west
		WO	Without
		WPT	Way-point

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Signal for use in the teletypewriter service only.

WRNG	Warning	Y	
WS	Wind shear	Y	Yellow
WSPD	Wind speed	YCZ	Yellow caution zone (<i>runway lighting</i>)
WSW	West-south-west	YES*	Yes (affirmative) (<i>to be used in AFS as a procedure signal</i>)
WT	Weight	YR	Your
WTSPT	Waterspout		
WWW	Worldwide web	Z	
WX	Weather	Z	Coordinated Universal Time (<i>in meteorological messages</i>)
X			
X	Cross		
XBAR	Crossbar (<i>of approach lighting system</i>)		
XNG	Crossing		
XS	Atmospherics		

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ABBREVIATIONS

ENCODE

A

Abbreviated precision approach path indicator <i>(to be pronounced "AY-PAPI")</i>	APAPI†	Aerodrome forecast <i>(in meteorological code)</i>	TAF†
Abbreviated T visual approach slope indicator system <i>(to be pronounced "AY-TEE-VASIS")</i>	AT-VASIS†	Aerodrome obstacle chart <i>(followed by type and name/title)</i>	AOC . . .
Abeam	ABM	Aerodrome office <i>(specify service)</i>	ADO
About	ABT	Aerodrome partially covered by fog	PRFG
Above	ABV	Aerodrome reference point	ARP
Above aerodrome level	AAL	Aerodrome routine meteorological report <i>(in meteorological code)</i>	METAR†
Above ground level	AGL	Aerodrome special meteorological report <i>(in meteorological code)</i>	SPECI†
Above mean sea level	AMSL	Aerodromes, air routes and ground aids	AGA
Above mountains	MON	Aerodrome traffic zone	ATZ
Accelerate-stop distance available	ASDA	Aeronautical chart — 1:500 000 <i>(followed by name/title)</i>	ANC . . .
Accept <i>or</i> accepted	ACPT	Aeronautical fixed service	AFS
Acceptance <i>(message type designator)</i>	ACP	Aeronautical fixed telecommunication network	AFTN‡
Acknowledge	ACK	Aeronautical information circular	AIC
Active <i>or</i> activated <i>or</i> activity	ACT	Aeronautical information publication	AIP
Actual time of arrival	ATA‡	Aeronautical information regulation and control	AIRAC
Actual time of departure	ATD‡	Aeronautical information services	AIS
Addition <i>or</i> additional	ADDN	Aeronautical maps and charts	MAP
Adjacent	ADJ	Aeronautical mobile satellite service	AMSS
Advance boundary information	ABI	Aeronautical mobile service	AMS
Advise	ADZ	Aeronautical navigation chart — small scale <i>(followed by name/title and scale)</i>	ANCS . . .
Advise at what time able	AWTA	Aeronautical telecommunication network	ATN
Advisory area	ADA	After . . . <i>(time or place)</i>	AFT . . .
Advisory route	ADR	After passing	APSG
Advisory service	ADVS	Again	AGN
Aerodrome	AD	Airborne collision avoidance system	ACAS†
Aerodrome beacon	ABN	Aircraft	ACFT
Aerodrome chart	ADC	Aircraft accident, notification of	ACCID
Aerodrome closed due to snow <i>(used in METAR/SPECI)</i>	SNOCLO	Aircraft autonomous integrity monitoring	AAIM
Aerodrome control tower <i>or</i> aerodrome control	TWR	Aircraft classification number	ACN
Aerodrome flight information service	AFIS		

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Aircraft communication addressing and reporting system (<i>to be pronounced “AY-CARS”</i>)	ACARS†	Amended meteorological message (<i>message type designator</i>)	AAA (<i>or AAB, AAC . . . etc., in sequence</i>)
Aircraft earth station	AES	Amendment (<i>AIP Amendment</i>)	AMDT
Aircraft parking/docking chart (<i>followed by name/title</i>)	APDC . . .	Answer	ANS
Air defence identification zone (<i>to be pronounced “AY-DIZ”</i>)	ADIZ†	Approach	APCH
Airport	AP	Approach control office <i>or</i> approach control <i>or</i> approach control service	APP
Air-report	AIREP†	Approach lighting system	ALS
Air-report (<i>message type designator</i>)	ARP	Approve <i>or</i> approved <i>or</i> approval	APV
Airspeed or headwind gain	GAIN	Approximate <i>or</i> approximately	APRX
Airspeed or headwind loss	LOSS	April	APR
Air-to-air	A/A	Apron	APN
Air-to-ground	A/G	Area chart	ARC
Air traffic control (<i>in general</i>)	ATC‡	Area control centre <i>or</i> area control	ACC‡
Air traffic control surveillance minimum altitude chart (<i>followed by name/title</i>)	ATCSMAC . . .	Area forecast for low-level flights	GAMET
Air traffic flow management	ATFM	Area minimum altitude	AMA
Air traffic management	ATM	Area navigation (<i>to be pronounced “AR-NAV”</i>)	RNAV†
Air traffic services	ATS	Arrange	ARNG
Air traffic services interfacility data communications	AIDC	Arresting (<i>specify (part of) aircraft arresting equipment</i>)	ARST
Air traffic services reporting office	ARO	Arrival (<i>message type designator</i>)	ARR
Airway	AWY	Arrive <i>or</i> arrival	ARR
Alert phase	ALERFA†	Ascend to <i>or</i> ascending to	ASC
Alerting (<i>message type designator</i>)	ALR	Asphalt	ASPH
Alerting service	ALRS	Assigned altitude deviation	AAD
Lighting area	ALA	As soon as possible	SAP
All up weight	AUW	At (<i>followed by time at which weather change is forecast to occur</i>)	AT . . .
Alternate <i>or</i> alternating (<i>light alternates in colour</i>)	ALTN	At . . . (<i>time or place</i>)	ATP . . .
Alternate (<i>aerodrome</i>)	ALTN	Atmospheric pressure at aerodrome elevation (<i>or at runway threshold</i>)	QFE‡
Altimeter check location	ACL	Atmospherics	XS
Altimeter sub-scale setting to obtain elevation when on the ground	QNH‡	At sea	MAR
Altimetry system error	ASE	ATS/MET reporting point	MRP
Altitude	ALT	Attention	ATTN
Altocumulus	AC	At the coast	COT
Altostratus	AS	August	AUG
Amber	A	Authorized <i>or</i> authorization	AUTH
Amend <i>or</i> amended (<i>used to indicate amended meteorological message; message type designator</i>)	AMD	Automated flight information service	FISA
		Automatic dependent surveillance — broadcast	ADS-B‡
		Automatic dependent surveillance — contract	ADS-C‡
		Automatic dependent surveillance unit	ADSU

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Signal for use in the teletypewriter service only.

Automatic direction-finding equipment	ADF‡
Automatic error correction	ARQ
Automatic terminal information service	ATIS†
Auxiliary	AUX
Available <i>or</i> availability	AVBL
Average	AVG
Aviation gasoline	AVGAS†
Aerodrome meteorological report (<i>in meteorological code</i>)	METAR†
Aerodrome special meteorological report (<i>in meteorological code</i>)	SPECI†
Azimuth	AZM

B

Barometric vertical navigation (<i>to be pronounced “BAA-RO-VEE-NAV”</i>)	BARO-VNAV†
Beacon (<i>aeronautical ground light</i>)	BCN
Bearing	BRG
Becoming	BECMG
Before	BFR
Below . . .	BLW . . .
Below clouds	BLO
Between	BTN
Between layers	BTL
Binary universal form for the representation of meteorological data	BUFR
Blowing (<i>followed by DU = dust, SA = sand or SN = snow</i>)	BL . . .
Blue	B
Bombing	BOMB
Boundary	BDRY
Braking	BRKG
Braking action	BA
Broadcast	BCST
Broadcasting station, commercial	BS
Broken	BKN
Building	BLDG
By visual reference to the ground	VSA

C

Calibration	CLBR
Call sign	CS

Calling	CLG
Cancel <i>or</i> cancelled	CNL
Candela	CD
Category	CAT
Caution	CTN
Celsius (<i>Centigrade</i>), Degrees	C
Centimetre	CM
Centre (<i>preceded by runway designation number to identify a parallel runway</i>)	. . . C
Centre line	CL
Change frequency to . . .	CF
Change-over point	COP
Channel	CH
Check	CK
Chemical	CHEM
Circling guidance light(s)	CGL
Cirrocumulus	CC
Cirrostratus	CS
Cirrus	CI
Civil	CIV
Clear air turbulence	CAT
Clear(s) <i>or</i> cleared to . . . <i>or</i> clearance	CLR
Clear type of ice formation	CLA
Clearway	CWY
Climb-out area	CLIMB-OUT
Climb to <i>or</i> climbing to	CMB
Climb to and maintain	CTAM
Close <i>or</i> closed <i>or</i> closing	CLSD
Cloud	CLD
Cloud base	BASE†
Cloud top	TOP†
Cockpit voice recorder	CVR
Collision risk model	CRM
Completion <i>or</i> completed <i>or</i> complete	CMPL
Commercial broadcasting station	BS
Common ICAO data interchange network	CIDIN†
Communications	COM
Communications, navigation and surveillance	CNS
Concrete	CONC
Condition	COND
Confirm <i>or</i> I confirm (<i>to be used in AFS as a procedure signal</i>)	CFM*
Constant radius arc to a fix	RF
Construction <i>or</i> constructed	CONST

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Contact	CTC
Continue(s) <i>or</i> continued	CONT
Continuous	CONS
Continuous day and night service	H24
Continuous wave	CW
Control	CTL
Control area	CTA
Control indicated is operational control	OPC
Controller-pilot data link communications	CPDLC‡
Control zone	CTR
Coordinate <i>or</i> coordination	COOR
Coordinated Universal Time	UTC‡
Coordinated Universal Time (<i>in meteorological messages</i>)	Z
Coordinates	COORD
Coordination (<i>message type designator</i>)	CDN
Correct <i>or</i> correction <i>or</i> corrected (<i>used to indicate corrected meteorological message; message type designator</i>)	COR
Corrected meteorological message (<i>message type designator</i>)	CCA (<i>or</i> CCB, CCC . . . etc., in sequence)
Course from a fix to an altitude	FA
Course from a fix to manual termination (<i>used in navigation database coding</i>)	FM
Course to a fix	CF
Course to an altitude	CA
Cover <i>or</i> covered <i>or</i> covering	COV
Cross	X
Crossbar (<i>of approach lighting system</i>)	XBAR
Crossing	XNG
Cruise	CRZ
Cumuliform	CUF
Cumulonimbus (<i>to be pronounced “CEE BEE”</i>)	CB‡
Cumulus	CU
Current flight plan (<i>message type designator</i>)	CPL
Customs	CUST
Cyclic redundancy check	CRC

D

Daily	DLY
Danger <i>or</i> dangerous	DNG
Danger area (<i>followed by identification</i>)	D . . .
Data link automatic terminal information service (<i>to be pronounced “DEE-ATIS”</i>)	D-ATIS†
Data link initiation capability	DLIC
Data link VOLMET	D-VOLMET
Date-time group	DTG
Datum crossing point	DCP
Dead reckoning	DR
December	DEC
Decision altitude	DA
Decision height	DH
Degrees	DEG
Degrees Celsius (<i>Centigrade</i>)	C
Delay (<i>message type designator</i>)	DLA
Delay <i>or</i> delayed	DLA
Delayed (<i>used to indicate delayed meteorological message; message type designator</i>)	RTD
Delayed meteorological message (<i>message type designator</i>)	RRA (<i>or</i> RRB, RRC . . . etc., in sequence)
Dense upper cloud	DUC
Depart <i>or</i> departure	DEP
Departure (<i>message type designator</i>)	DEP
Departure end of the runway	DER
Deposition	DEPO
Depth	DPT
Descend to <i>or</i> descending to	DES
Descend to and maintain	DTAM
Destination	DEST
Deteriorate <i>or</i> deteriorating	DTRT
Deviation <i>or</i> deviating	DEV
Dew point temperature	DP
Diffuse	DIF
Digital flight data recorder	DFDR
Direct (<i>in relation to flight plan clearances and type of approach</i>)	DCT
Direct controller-pilot communications	DCPC
Direction finding	DF
Displaced runway threshold	DTHR
Distance	DIST

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Signal for use in the teletypewriter service only.

Distance from touchdown indicator	DFTI
Distance measuring equipment	DME‡
Distress phase	DETRESFA†
Divert <i>or</i> diverting	DIV
Docking	DCKG
Domestic	DOM
Doppler VOR	DVOR
Double channel duplex	DCD
Double channel simplex	DCS
Double sideband	DSB
Downward (<i>tendency in RVR during previous 10 minutes</i>)	D
Do you intend to ask me for a series of bearings? <i>or</i> I intend to ask you for a series of bearings (<i>to be used in radiotelegraphy as a Q Code</i>)	QDL
Drizzle	DZ
Dual tandem wheels	DTW
Dual wheels	DW
Duration	DUR
During	DRG
Dust	DU
Dust/sand whirls (<i>dust devils</i>)	PO
Duststorm	DS

E

East <i>or</i> eastern longitude	E
Eastbound	EB
East-north-east	ENE
East-south-east	ESE
Effective from <i>or</i> with effect from	WEF
Effective immediately <i>or</i> with immediate effect	WIE
Electronic flight instrument system (<i>to be pronounced “EE-FIS”</i>)	EFIS†
Elevation	ELEV
Elevation differential area	EDA
Embedded in a layer (<i>to indicate cumulonimbus embedded in layers of other clouds</i>)	EMBD
Emergency	EMERG
Emergency location beacon — aircraft	ELBA†
Emergency locator transmitter	ELT
Emission	EM

Engine	ENG
Enhanced vision system	EVS
En route	ENR
Enroute chart (<i>followed by name/title</i>)	ENRC . . .
En-route surveillance radar	RSR
Equipment	EQPT
Error (<i>to be used in AFS as a procedure signal</i>)	EEE#
Estimate <i>or</i> estimated <i>or</i> estimation (<i>message type designator</i>)	EST
Estimated elapsed time	EET
Estimated off-block time	EOBT
Estimated time of arrival <i>or</i> estimating arrival	ETA*‡
Estimated time of departure <i>or</i> estimating departure	ETD‡
Estimated time over significant point	ETO
European geostationary navigation overlay service (<i>to be pronounced “EGG-NOS”</i>)	EGNOS†
European regional OPMET data exchange	EUR RODEX
Every	EV
Except	EXC
Exercises <i>or</i> exercising <i>or</i> to exercise	EXER
Expect <i>or</i> expected <i>or</i> expecting	EXP
Expect further clearance	EFC
Expected approach time	EAT
Extend <i>or</i> extending	EXTD
Extra long range	ELR
Extremely high frequency [30 000 to 300 000 MHz]	EHF

F

Facilitation of international air transport	FAL
Facilities	FAC
Facsimile transmission	FAX
February	FEB
Feet (<i>dimensional unit</i>)	FT
Feet per minute	FPM
Few	FEW
Fictitious threshold point	FTP
Field	FLD

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Filed flight plan (<i>message type designator</i>)	FPL	From (<i>followed by time weather change is forecast to begin</i>)	FM . . .
Final approach	FNA	From (<i>used to precede the call sign of the calling station</i>) (<i>to be used in AFS as a procedure signal</i>)	DE*
Final approach and take-off area	FATO	Front (<i>relating to weather</i>)	FRONT†
Final approach fix	FAF	Frost (<i>used in aerodrome warnings</i>)	FROST†
Final approach point	FAP	Fuel remaining	FR
Final approach segment	FAS	Full stop landing	FSL
Firing	FRNG	Funnel cloud (<i>tornado or water spout</i>)	FC
First	FST		
Fixed	F		
Flares	FLR		
Flashing	FLG		
Flight	FLT		
Flight check	FLTCK		
Flight data processing system	FDPS		
Flight information centre	FIC		
Flight information region	FIR‡		
Flight information service	FIS		
Flight level	FL		
Flight management computer	FMC		
Flight management system	FMS‡		
Flight path alignment point	FPAP		
Flight plan	PLN		
Flight plan cancellation (<i>message type designator</i>)	CNL		
Flight plan filed in the air	AFIL		
Flight plan route	FPR		
Flight service station	FSS		
Flight technical error	FTE		
Flight technical tolerance	FTT		
Flow management unit	FMU		
Fluctuating <i>or</i> fluctuation <i>or</i> fluctuated	FLUC		
Fly <i>or</i> flying	FLY		
Fog	FG		
Fog patches	BCFG		
Follow(s) <i>or</i> following	FLW		
Forecast	FCST		
Freezing	FZ		
Freezing drizzle	FZDZ		
Freezing fog	FZFG		
Freezing rain	FZRA		
Frequency	FREQ		
Frequent	FRQ		
Friction coefficient	FCT		
Friday	FRI		
From	FM		
		G	
		GBAS azimuth reference point	GARP
		GBAS landing system	GLS‡
		General	GEN
		Geographic <i>or</i> true	GEO
		Geoid undulation	GUND
		Glide path	GP
		Glide path angle	GPA
		Glide path intercept point	GPIP
		Glider	GLD
		Global navigation satellite system	GNSS‡
		Global orbiting navigation satellite system (<i>to be pronounced “GLO-NAS”</i>)	GLONASS†
		Global positioning system	GPS‡
		Go ahead, resume sending (<i>to be used in AFS as a procedure signal</i>)	GA
		GPS and geostationary earth orbit augmented navigation	GAGAN†
		Grass landing area	GRASS
		Gravel	GRVL
		Green	G
		Ground	GND
		Ground-based augmentation system (<i>to be pronounced “GEE-BAS”</i>)	GBAS†
		Ground-based regional augmentation system (<i>to be pronounced “GRASS”</i>)	GRAS†
		Ground — by visual reference to the	VSA
		Ground check	GNDCK
		Ground controlled approach system <i>or</i> ground controlled approach	GCA‡
		Ground earth station	GES

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Signal for use in the teletypewriter service only.

Ground movement chart (<i>followed by name/title</i>)	GMC . . .
Ground proximity warning system	GPWS‡
Ground speed	GS
Ground-to-air	G/A
Ground-to-air and air-to-ground	G/A/G

H

Hail	GR
Hazard beacon	HBN
Haze	HZ
Heading	HDG
Heading to a manual termination	VM
Heading to an altitude	VA
Heading to an intercept	VI
Head-up display	HUD
Heavy	HVY
Heavy (<i>used to indicate the intensity of weather phenomena, e.g. heavy rain = HVY RA</i>)	HVY
Hectopascal	HPA
Height <i>or</i> height above	HGT
Helicopter	HEL
Helicopter approach path indicator	HAPI
Here . . . <i>or</i> herewith	ER*
Hertz (<i>cycle per second</i>)	HZ
High and very high frequency direction-finding stations (<i>at the same location</i>)	HVDF
High frequency [3 000 to 30 000 kHz]	HF‡
High frequency direction-finding station	HDF
High pressure area <i>or</i> the centre of high pressure	H
Higher	HYR
Holding	HLDG
Holding/racetrack to a fix	HF
Holding/racetrack to a manual termination	HM
Holding/racetrack to an altitude	HA
Holiday	HOL
Hospital aircraft	HOSP
Hours	HR
Hurricane	HURCN

I

I have nothing to send to you <i>or</i> none	NIL*†
Ice crystals (<i>very small ice crystals in suspension, also known as diamond dust</i>)	IC
Ice on runway	IR
Ice pellets	PL
Icing	ICE
Identification	IDENT†
Identification beacon	IBN
Identification friend/foe	IFF
Identifier <i>or</i> identify	ID
If not possible	INP
Immediate <i>or</i> immediately	IMT
Immigration	IMG
Improve <i>or</i> improving	IMPR
In and out of clouds	IAO
In cloud	INC
Inbound	INBD
Independent sideband	ISB
Indicated airspeed	IAS
Indicator for maximum temperature (<i>used in the TAF code form</i>)	TX
Inertial navigation system	INS
Inertial reference system	IRS
Information	INFO†
Information concerning en-route weather phenomena which may affect the safety of aircraft operations	SIGMET†
Information concerning en-route weather phenomena which may affect the safety of low-level aircraft operations	AIRMET†
Initial approach	INA
Initial approach fix	IAF
Inland	LAN
Inner marker	IM
Inoperative	INOP
In progress	INPR
Install <i>or</i> installed <i>or</i> installation	INSTL
Instrument	INSTR
Instrument approach chart (<i>followed by name/title</i>)	IAC . . .
Instrument approach procedure	IAP
Instrument flight rules	IFR‡
Instrument landing system	ILS‡

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Signal for use in the teletypewriter service only.

Instrument meteorological conditions	IMC‡	Landing threshold point	LTP
Intensify or intensifying	INTSF	Landline teletypewriter	LTT
Intensity	INTST	Lateral navigation (<i>to be pronounced</i> <i>“EL-NAV”</i>)	LNAV†
Intermediate approach fix	IF	Latitude	LAT
International	INTL	Layer or layered	LYR
International general aviation	IGA	Leave or leaving	LVE
International NOTAM office	NOF	Left (<i>preceded by runway designation</i> <i>number to identify a parallel runway</i>)	... L
International standard atmosphere	ISA	Length	LEN
International system of units	SI	Level	LVL
Interrogation sign (question mark) (<i>to be used in AFS as a procedure</i> <i>signal</i>)	IMI*	Light (<i>used to indicate the intensity of</i> <i>weather phenomena, interference or</i> <i>static reports, e.g. light rain = FBL</i> <i>RA</i>)	FBL
Interrogator	INTRG	Light or lighting	LGT
Interrupt or interruption or interrupted	INTRP	Light and variable (<i>relating to wind</i>)	LV
Intersection	INT	Light intensity high	LIH
Intersection of air routes	IAR	Light intensity low	LIL
In valleys	VAL	Light intensity medium	LIM
Isolated	ISOL	Lighted	LGTD
		Limited	LTD
J		Line (<i>used in SIGMET</i>)	LINE
January	JAN	Local or locally or location or located	LCA
Jet stream	JTST	Local mean time	LMT
July	JUL	Local routine meteorological report (<i>in abbreviated plain language</i>)	MET REPORT
June	JUN	Local special meteorological report (<i>in abbreviated plain language</i>)	SPECIAL†
K		Localizer	LOC
Kilograms	KG	Localizer performance with vertical guidance	LPV
Kilohertz	KHZ	Locator	L
Kilometres	KM	Locator, middle	LM
Kilometres per hour	KMH	Locator, outer	LO
Kilopascal	KPA	Logical acknowledgement (<i>message type</i> <i>designator</i>)	LAM
Kilowatts	KW	Long (<i>used to indicate the type of</i> <i>approach desired or required</i>)	LNG
Knots	KT	Longitude	LONG
Knots indicated airspeed	KIAS	Long range	LRG
L		LORAN (<i>long range air navigation</i> <i>system</i>)	LORAN†
Landing	LDG	Low drifting (<i>followed by DU = dust,</i> <i>SA = sand or SN = snow</i>)	DR ...
Landing direction indicator	LDI	Low frequency [30 to 300 kHz]	LF
Landing distance available	LDA		
Landing distance available, helicopter	LDAH		

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Signal for use in the teletypewriter service only.

Low pressure area <i>or</i> the centre of low pressure	L	Meteorological information for aircraft in flight	VOLMET†
Low visibility procedures	LVP	Meteorological watch office	MWO
M		Metres (<i>preceded by figures</i>)	... M
Mach number (<i>followed by figures</i>)	M . . .	Metres per second	MPS
Magnetic	MAG	Metric units	MTU
Magnetic bearing	QDR	Microburst	MBST
Magnetic heading (<i>zero wind</i>)	QDM‡	Microwave landing system	MLS‡
Magnetic orientation of runway	QFU	Middle marker	MM
Magnetic variation	VAR	Mid-point (<i>related to RVR</i>)	MID
Maintain	MNTN	Military	MIL
Maintenance	MAINT	Military operating area	MOA
Manual A1 simplex	MAS	Minimum	MNM
March	MAR	Minimum crossing altitude	MCA
Marker radio beacon	MKR	Minimum descent altitude	MDA
Maximum	MAX	Minimum descent height	MDH
Maximum authorized altitude	MAA	Minimum en-route altitude	MEA
Maximum temperature (<i>followed by figures in TAF</i>)	TX . . .	Minimum eye height over threshold (<i>for visual approach slope indicator systems</i>)	MEHT
Maximum value of wind speed or runway visual range (<i>followed by figures in METAR/SPECI and TAF</i>)	P . . .	Minimum navigation performance specifications	MNPS
May	MAY	Minimum obstacle clearance (<i>required</i>)	MOC
Mean sea level	MSL	Minimum obstacle clearance altitude	MOCA
Medium and high frequency direction-finding stations (<i>at the same location</i>)	MHDF	Minimum operational performance standards	MOPS†
Medium and very high frequency direction-finding stations (<i>at the same location</i>)	MVDF	Minimum reception altitude	MRA
Medium frequency [300 to 3 000 kHz]	MF	Minimum safe altitude warning	MSAW
Medium frequency direction-finding station	MDF	Minimum sector altitude	MSA
Medium, high and very high frequency direction-finding stations (<i>at the same location</i>)	MHVDF	Minimum temperature (<i>followed by figures in TAF</i>)	TN . . .
Medium range	MRG	Minimum value of runway visual range (<i>followed by figures in METAR/SPECI</i>)	M . . .
Megahertz	MHZ	Minus	MS
Message	MSG	Minutes	MIN*
Message . . . (<i>transmission identification</i>)		Missed approach holding fix	MAHF
has been misrouted (<i>to be used in AFS as a procedure signal</i>)	MSR#	Missed approach point	MAPT
Meteorological <i>or</i> meteorology	MET†	Missed approach turning fix	MATF
		Missing . . . (<i>transmission identification</i>)	
		(<i>to be used in AFS as a procedure signal</i>)	MIS
		Mist	BR
		Mixed type of ice formation (<i>white and clear</i>)	MX

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Signal for use in the teletypewriter service only.

Moderate (<i>used to indicate the intensity of weather phenomena, interference or static reports, e.g. moderate rain = MODRA</i>)	MOD	No specific working hours	HX
Modification (<i>message type designator</i>)	CHG	No transgression zone	NTZ‡
Modulated continuous wave	MCW	Noise abatement departure procedure	NADP
Monday	MON	Non-directional radio beacon	NDB‡
Monitor <i>or</i> monitoring <i>or</i> monitored	MNT	Non-precision approach	NPA
Monopulse secondary surveillance radar	MSSR	None <i>or</i> I have nothing to send to you	NIL*‡
Mountain	MT	Normal	NML
Mountain waves	MTW	Normal operating zone	NOZ‡
Move <i>or</i> moving <i>or</i> movement	MOV	North <i>or</i> northern latitude	N
Multi-functional transport satellite (MTSAT) satellite-based augmentation system (<i>to be pronounced "EM-SAS"</i>)	MSAS‡	North Atlantic	NAT
N		Northbound	NB
National	NTL	North-east	NE
National AIS system centre	NASC‡	North-eastbound	NEB
Nautical miles	NM	North-north-east	NNE
Navigation	NAV	North-north-west	NNW
Navigation system error	NSE	North-west	NW
Near <i>or</i> over large towns	CIT	North-westbound	NWB
Next	NXT	Not before	NBFR
Night	NGT	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	NOTAM‡
Nil significant cloud	NSC	Notification of an aircraft accident	ACCID
Nil significant weather	NSW	November	NOV
Nimbostratus	NS	Number	NR
No <i>or</i> negative <i>or</i> permission not granted <i>or</i> that is not correct	NEG	O	
No change	NC	Obscure <i>or</i> obscured <i>or</i> obscuring	OBSC
No cloud detected (<i>used in automated METAR/SPECI</i>)	NCD	Observe <i>or</i> observed <i>or</i> observation	OBS
No directional variations available (<i>used in automated METAR/SPECI</i>)	NDV	Obstacle	OBST
No distinct tendency (<i>in RVR during previous 10 minutes</i>)	N	Obstacle assessment surface	OAS
No (negative) (<i>to be used in AFS as a procedure signal</i>)	NO	Obstacle clearance altitude	OCA
No name, unnamed	NN	Obstacle clearance height	OCH
No reply heard	NRH	Obstacle clearance surface	OCS
No significant change (<i>used in trend-type landing forecasts</i>)	NOSIG‡	Obstacle free zone	OFZ
		Obstacle identification surface	OIS
		Occasional <i>or</i> occasionally	OCNL
		Occulting (<i>light</i>)	OCC
		Ocean station vessel	OSV

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Signal for use in the teletypewriter service only.

Oceanic area control centre	OAC	Practice low approach	PLA
Oceanic control area	OCA	Precision approach	PA
October	OCT	Precision approach lighting system	
On-line data interchange	OLDI†	(<i>specify category</i>)	PALS
On request	O/R	Precision approach path indicator	PAPI‡
On top	OTP	Precision approach radar	PAR‡
Opaque, white type of ice formation	OPA	Precision approach terrain chart (<i>followed by name/title</i>)	PATC . . .
Open <i>or</i> opening <i>or</i> opened	OPN	Pre-departure clearance	PDC‡
Operations	OPS†	Preflight information bulletin	PIB
Operator <i>or</i> operate <i>or</i> operative		Present level	PLVL
<i>or</i> operating <i>or</i> operational	OPR	Present position	PPSN
Operational control is the control indicated	OPC	Pressure system(s)	PSYS
Operational meteorological (<i>information</i>)	OPMET†	Primary	PRI
Order	ORD	Primary surveillance radar	PSR‡
Organized track system	OTS	Prior notice required	PN
Originate (<i>to be used in AFS as a procedure signal</i>)	OGN	Prior permission required	PPR
Outbound	OUBD	Probability	PROB†
Outer marker	OM	Procedure	PROC
Overcast	OVC	Procedure design gradient	PDG
Overhead	OHD	Procedure turn	PTN
		Procedures for air navigation services	PANS
		Proceed <i>or</i> proceeding	PCD
		Processed meteorological data in the form of grid point values expressed in binary form (<i>meteorological code</i>)	GRIB
		Prohibited area (<i>followed by identification</i>)	P . . .
		Provisional	PROV
P		Q	
Parachute jumping exercise	PJE	Quadrant	QUAD
Parallel	PARL		
Parking	PRKG		
Passenger(s)	PAX		
Passing	PSG		
Pavement classification number	PCN		
Performance	PER		
Performance-based navigation	PBN		
Permanent	PERM		
Persons on board	POB		
Pierced steel plank	PSP		
Pilot-controlled lighting	PCL		
Plan position indicator	PPI		
Plus	PS		
Point-in-space reference point	PRP		
Point of no return	PNR		
Polar track structure	PTS		
Position	PSN		
Possible	POSS		
Power	PWR		
		R	
		Radar position indicator	RPI‡
		Radar position symbol	RPS
		Radial	RDL
		Radio	RDO
		Radio range	RNG
		Radiocommunication failure (<i>message type designator</i>)	RCF
		Radiotelegraph	RTG

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Signal for use in the teletypewriter service only.

Radiotelephone	RTF	Request (<i>to be used in AFS as a procedure signal</i>)	RQ*
Radioteletypewriter	RTT	Request flight plan (<i>message type designator</i>)	RQP
Ragged	RAG	Request level change en route	RLCE
Rain	RA	Request supplementary flight plan (<i>message type designator</i>)	RQS
Range (<i>lights</i>)	RG	Requested level not available	RLNA
Rate of climb	ROC	Required communication performance	RCP†
Rate of descent	ROD	Required navigation performance	RNP‡
Rate of turn	R	Requirements	RQMNTS
Reach <i>or</i> reaching	RCH	Re-route	RERTE
Reach cruising altitude	RCA	Rescue boat	RB
Receive <i>or</i> receiver	REC	Rescue coordination centre	RCC
Received (<i>acknowledgement of receipt</i>) (<i>to be used in AFS as a procedure signal</i>)	R*	Rescue sub-centre	RSC
Receiver autonomous integrity monitoring	RAIM†	Rescue vessel	RV
Receiving only	RON	Resolution advisory	RA
Recent (<i>used to qualify weather phenomena, e.g. recent rain = RERA</i>)	RE	Responder beacon	RSP
Reclearance in flight	RIF	Restricted area (<i>followed by identification</i>)	R . . .
Recleared	RCLR	Return <i>or</i> returned <i>or</i> returning	RTN
Red	R	Return to service	RTS
Reduced vertical separation minimum (300 m (1 000 ft)) between FL 290 and FL 410	RVSM‡	Right (<i>direction of turn</i>)	RITE
Reference datum height	RDH	Right (<i>preceded by runway designation number to identify a parallel runway</i>)	. . . R
Reference path data selector	RPDS	Right-hand circuit	RHC
Reference to . . . <i>or</i> refer to . . .	REF	Rime (<i>used in aerodrome warnings</i>)	RIME†
Regional AIS system centre	RASC†	Root sum square	RSS
Regional OPMET bulletin exchange (<i>scheme</i>)	ROBEX†	Route	RTE
Regional supplementary procedures	SUPPS	Rules of the air and air traffic services	RAC
Registration	REG	Runway	RWY
Rejected take-off distance available, helicopter	RTODAH	Runway (<i>followed by figures in METAR/SPECI</i>)	R . . .
Relay to	RLA	Runway alignment indicator	RAI
Remark	RMK	Runway arresting gear	RAG
Remote altimeter setting source	RASS	Runway centre line	RCL
Repeat <i>or</i> I repeat (<i>to be used in AFS as a procedure signal</i>)	RPT*	Runway centre line light(s)	RCLL
Repetitive flight plan	RPL	Runway(s) cleared (<i>used in METAR/SPECI</i>)	CLRD
Replace <i>or</i> replaced	RPLC	Runway control van	VAN
Report <i>or</i> reporting <i>or</i> reporting point	REP	Runway edge light(s)	REDL
Report leaving	RL	Runway end light(s)	RENL
Report reaching	RR	Runway end safety area	RESA
Request <i>or</i> requested	REQ	Runway lead-in lighting system	RLLS
		Runway surface condition	RSCD
		Runway threshold light(s)	RTHL

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Signal for use in the teletypewriter service only.

Runway touchdown zone light(s)	RTZL	Short (<i>used to indicate the type of approach desired or required</i>)	BRF
Runway visual range	RVR‡	Short range	SRG
S		Short take-off and landing	STOL
		Shower (<i>followed by RA = rain, SN = snow, PL = ice pellets, GR = hail, GS = small hail and/or snow pellets or combinations thereof, e.g. SHRASN = showers of rain and snow</i>)	SH . . .
		Signal	SGL
		Significant	SIG
		Simple approach lighting system	SALS
		Simultaneous <i>or</i> simultaneously	SIMUL
		Single isolated wheel load	SIWL
		Single sideband	SSB
		Slow	SLW
		Small hail and/or snow pellets	GS
		Smoke	FU
		Snow	SN
		Snow grains	SG
		South <i>or</i> southern latitude	S
		Southbound	SB
		South-east	SE
		South-eastbound	SEB
		South-south-east	SSE
		South-south-west	SSW
		South-west	SW
		South-westbound	SWB
		Special air-report (<i>message type designator</i>)	ARS
		Special position indicator	SPI
		Special series of NOTAM notifying, by means of a specific format, change in activity of a volcano, a volcanic eruption and/or volcanic ash cloud that is of significance to aircraft operations	ASHTAM
		Special series NOTAM notifying the presence or removal of hazardous conditions due to snow, ice, slush or standing water associated with snow, slush and ice on the movement area, by means of a specific format	SNOWTAM†
		Speed limiting point	SLP
		Spot wind	SPOT†
		Squall	SQ
Sand	SA		
Sandstorm	SS		
Sanitary	SAN		
SAR point of contact	SPOC		
Satellite-based augmentation system (<i>to be pronounced “ESS-BAS”</i>)	SBAS†		
Satellite communication	SATCOM†		
Saturday	SAT		
Scattered	SCT		
Schedule <i>or</i> scheduled	SKED		
Sea (<i>used in connection with sea-surface temperature and state of sea</i>)	SEA		
Sea-surface temperature (<i>followed by figures in METAR/SPECI</i>)	W . . .		
Search and rescue	SAR		
Search and rescue region	SRR		
Secondary	SRY		
Secondary surveillance radar	SSR‡		
Seconds	SEC		
Section	SECN		
Sector	SECT		
Selective calling system	SELCAL†		
Selective identification feature	SIF		
September	SEP		
Service <i>or</i> servicing <i>or</i> served	SER		
Service available during hours of scheduled operation	HS		
Service available to meet operational requirements	HO		
Service message	SVC		
Serviceable	SVCBL		
Severe (<i>e.g. used to qualify icing and turbulence reports</i>)	SEV		
Shall I cancel telegram number . . . ? <i>or</i> Cancel telegram number . . . (<i>to be used in AFS as a Q Code</i>)	QTA		
Shall I run my test tape/a test sentence? <i>or</i> Run your test tape/a test sentence (<i>to be used in AFS as a Q Code</i>)	QJH		
Shallow fog	MIFG		

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Signal for use in the teletypewriter service only.

Squall line	SQL
Stand by	SDBY
Standard	STD
Standard deviation	SD
Standard instrument arrival	STAR†
Standard instrument departure	SID†
Standard regional route transmitting frequencies	RUT
Standards and Recommended Practices [ICAO]	SARPS
Start of climb	SOC
State of the sea (<i>followed by figures in METAR/SPECI</i>)	S . . .
Station	STN
Stationary	STNR
Status	STS
Step down fix	SDF
Stop-end (<i>related to RVR</i>)	END
Stopway	SWY
Stopway light(s)	STWL
Straight-in approach	STA
Stratiform	STF
Stratocumulus	SC
Stratus	ST
Subject to	SUBJ
Sunday	SUN
Sunrise	SR
Sunrise to sunset	HJ
Sunset	SS
Sunset to sunrise	HN
Super high frequency [3 000 to 30 000 MHz]	SHF
Supersonic transport	SST
Supplement (<i>AIP Supplement</i>)	SUP
Supplementary flight plan (<i>message type designator</i>)	SPL
Surface	SFC
Surface movement control	SMC
Surface movement radar	SMR
Surveillance radar approach	SRA
Surveillance radar element of precision approach radar system	SRE

T

Tail wind	TAIL†
Take-off	TKOF
Take-off distance available	TODA
Take-off distance available, helicopter	TODAH
Take-off run available	TORA
Taxiing <i>or</i> taxi	TAX
Taxiing guidance system	TGS
Taxiway	TWY
Taxiway-link	TWYL
Technical reason	TECR
Telephone	TEL
Teletypewriter	TT
Temperature	T
Temporary <i>or</i> temporarily	TEMPO†
Temporary reserved airspace	TRA
Terminal area surveillance radar	TAR
Terminal arrival altitude	TAA
Terminal control area	TMA‡
Terminal VOR	TVOR
Text (<i>when the abbreviation is used to request a repetition, the question mark (IMI) precedes the abbreviation, e.g. IMI TXT</i>) (<i>to be used in AFS as a procedure signal</i>)	
	TXT*
The address (<i>when this abbreviation is used to request a repetition, the question mark (IMI) precedes the abbreviation, e.g. IMI ADS</i>) (<i>to be used in AFS as a procedure signal</i>)	
	ADS*
The last message received by me was . . . (<i>to be used in AFS as a procedure signal</i>)	
	LR
The last message sent by me was . . . <i>or</i> Last message was . . . (<i>to be used in AFS as a procedure signal</i>)	
	LS
This is a channel-continuity-check of transmission to permit comparison of your record of channel-sequence numbers of messages received on the channel (<i>to be used in AFS as a procedure signal</i>)	
	CH#
This is a duplicate message (<i>to be used in AFS as a procedure signal</i>)	
	DUPE#
Threshold	THR

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Threshold crossing height	TCH	Turn at an altitude/height	TA/H
Through	THRU	Turn height	TNH
Thunderstorm (<i>in aerodrome reports and forecasts, TS used alone means thunder heard but no precipitation at the aerodrome</i>)	TS	Turning point	TP
Thunderstorm (<i>followed by RA = rain, SN = snow, PL = ice pellets, GR = hail, GS = small hail and/or snow pellets or combinations thereof, e.g. TSRASN = thunderstorm with rain and snow</i>)	TS . . .	T visual approach slope indicator system (<i>to be pronounced “TEE-VASIS”</i>)	T-VASIS†
Thursday	THU	Type of aircraft	TYP
Till (<i>followed by time by which weather change is forecast to end</i>)	TL . . .	Typhoon	TYPH
To . . . (<i>place</i>)	TO . . .	U	
Top of climb	TOC	UHF tactical air navigation aid	TACAN†
Tornado	TDO	Ultra high frequency [300 to 3 000 MHz]	UHF‡
Touch-and-go landing	TGL	Ultra high frequency direction-finding station	UDF
Touchdown and lift-off area	TLOF	Ultra long range	ULR
Touchdown zone	TDZ	Unable	UNA
Towering cumulus	TCU	Unable higher due traffic	UHDT
Toxic	TOX	Unable to approve	UNAP
Track	TR	Uncertainty phase	INCERFA†
Track to fix	TF	Unidentified precipitation (<i>used in automated METAR/SPECI</i>)	UP
Traffic	TFC	Unlimited	UNL
Traffic advisory	TA	Unmanned aircraft	UA
Traffic alert and collision avoidance system resolution advisory (<i>to be pronounced “TEE-CAS-AR-AY”</i>)	TCAS RA†	Unmanned aircraft system	UAS
Traffic information broadcast by aircraft	TIBA†	Unreliable	UNREL
Transition altitude	TA	Unserviceable	U/S
Transition level	TRL	Until	TIL†
Transmits or transmitter	TRANS	Until advised by . . .	UAB . . .
Trend forecast	TREND†	Until further notice	UFN
Tropical cyclone	TC	Until past . . . (<i>place</i>)	TIP
Tropical cyclone advisory centre	TCAC	Upper air route	UAR
Tropopause	TROP	Upper area control centre	UAC
True (<i>preceded by a bearing to indicate reference to True North</i>)	. . . T	Upper control area	UTA
True airspeed	TAS	Upper flight information region	UIR‡
True bearing	QTE	Upper information centre	UIC
Tsunami (<i>used in aerodrome warnings</i>)	TSUNAMI†	Upward (<i>tendency in RVR during previous 10 minutes</i>)	U
Tuesday	TUE	V	
Turbulence	TURB	Variable	VRB
Turn altitude	TNA	Variations from the mean wind direction (<i>preceded and followed by figures in METAR/SPECI, e.g. 350V070</i>)	. . . V . . .

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Variations from the mean wind speed (gusts) <i>(followed by figures in METAR/SPECI and TAF)</i>	G . . .	Warning	WRNG
Vector to final	VTF	Waterspout	WTSPT
Vertical	VER	Way-point	WPT
Vertical navigation <i>(to be pronounced “VEE-NAV”)</i>	VNAV†	We agree or It is correct <i>(to be used in AFS as a procedure signal)</i>	OK*
Vertical path angle	VPA	Weaken or weakening	WKN
Vertical speed	VSP	Weather	WX
Vertical take-off and landing	VTOL	Wednesday	WED
Vertical visibility <i>(followed by figures in METAR/SPECI and TAF)</i>	VV . . .	Weight	WT
Very high frequency [30 to 300 MHz]	VHF‡	West or western longitude	W
Very high frequency direction-finding station	VDF	Westbound	WB
Very important person	VIP‡	West-north-west	WNW
Very long range	VLR	West-south-west	WSW
Very low frequency [3 to 30 kHz]	VLf	What is my distance to your station? or Your distance to my station is <i>(distance figures and units) (to be used in radiotelegraphy as a Q Code)</i>	QGE
VHF omnidirectional radio range	VOR‡	White	W
Vicinity	VCY	White type of ice formation, opaque	OPA
Vicinity of the aerodrome <i>(followed by FG = fog, FC = funnel cloud, SH = shower, PO = dust/sand whirls, BLDU = blowing dust, BLSA = blowing sand, BLSN = blowing snow, DS = duststorm, SS = sandstorm, TS = thunderstorm or VA = volcanic ash, e.g. VCFG = vicinity)</i>	VC . . .	Wide area augmentation system	WAAS†
Visibility	VIS	Widespread	WDSPR
Visibility, cloud and present weather better than prescribed values or conditions <i>(to be pronounced “KAV-OH-KAY”)</i>	CAVOK†	Width or wide	WID
Visual approach chart <i>(followed by name/title)</i>	VAC . . .	Will comply	WILCO†
Visual approach slope indicator systems	VASIS	Will you give me the position of my station according to the bearings taken by the D/F stations which you control? or The position of your station according to the bearings taken by the D/F stations that I control was . . . latitude . . . longitude <i>(or other indication of position), class . . . at . . . hours (to be used in radiotelegraphy as a Q Code)</i>	QTF
Visual-aural radio range	VAR	Will you indicate the TRUE track to reach you? or The TRUE track to reach me is . . . degrees at . . . hours <i>(to be used in radiotelegraphy as a Q Code)</i>	QUJ
Visual flight rules	VFR‡	Will you relay to . . . free of charge? or I will relay to . . . free of charge <i>(to be used in AFS as a Q Code)</i>	QSP
Visual manoeuvre with prescribed track	VPT	Wind	WIND
Visual meteorological conditions	VMC‡	Wind direction indicator	WDI
Visual reference to the ground, by	VSA	Wind shear	WS
Volcanic ash	VA		
Volcanic ash advisory centre	VAAC		
VOR airborne equipment test facility	VOT		
VOR and TACAN combination	VORTAC†		

† When radiotelephony is used, the abbreviations and terms are transmitted as spoken words.

‡ When radiotelephony is used, the abbreviations and terms are transmitted using the individual letters in non-phonetic form.

* Signal is also available for use in communicating with stations of the maritime mobile service.

Signal for use in the teletypewriter service only.

Wind speed	WSPD	World Geodetic System — 1984	WGS-84
Wing bar lights	WBAR	Worldwide web	WWW
With effect from <i>or</i> effective from	WEF		
With immediate effect <i>or</i> effective immediately	WIE		
Within	WI	Y	
Without	WO	Yellow	Y
Work in progress	WIP	Yellow caution zone (<i>runway lighting</i>)	YCZ
World Aeronautical Chart — ICAO 1:1 000 000 (<i>followed by name/title</i>)	WAC . . .	Yes <i>or</i> affirm <i>or</i> affirmative <i>or</i> that is correct	AFM
World area forecast centre	WAFC	Yes (affirmative) (<i>to be used in AFS as a procedure signal</i>)	YES*
		Your	YR

† When radiotelephony is used, the abbreviations and terms are transmitted as spoken words.

‡ When radiotelephony is used, the abbreviations and terms are transmitted using the individual letters in non-phonetic form.

* Signal is also available for use in communicating with stations of the maritime mobile service.

Signal for use in the teletypewriter service only.

ABBREVIATIONS FOR IDENTIFYING AERONAUTICAL FIXED SERVICE (AFS) MESSAGES

Abbreviations for use as the first word of the text of a message

ENCODE

Aircraft Accident Notification Messages

Notification of an aircraft accident ACCID

Air Traffic Services Messages

Acceptance	ACP
Alerting	ALR
Arrival	ARR
Coordination	CDN
Current flight plan	CPL
Delay	DLA
Departure	DEP
Estimate	EST
Filed flight plan	FPL
Flight plan cancellation	CNL
Logical acknowledgement	LAM
Modification	CHG
Radio communication failure	RCF
Request flight plan	RQP
Request supplementary flight plan	RQS
Supplementary flight plan	SPL

Meteorological Messages

Data designators for meteorological bulletins are given in the *Manual of Aeronautical Meteorological Practice* (Doc 8896)

Other messages

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 NOTAM

Special series NOTAM notifying the presence or removal of hazardous conditions due to snow, ice, slush or standing water associated with snow, slush and ice on the movement area, by means of a specific format SNOWTAM

Service message (*to be used by AFS stations only*) SVC

ABBREVIATIONS AND TERMS TO BE TRANSMITTED AS SPOKEN WORDS WHEN USED IN RADIOTELEPHONY

DECODE

ACARS	<i>(to be pronounced "AY-CARS")</i> Aircraft communication addressing and reporting system	GAGAN	GPS and geostationary earth orbit augmented navigation
ACAS	Airborne collision avoidance system	GBAS	<i>(to be pronounced "GEE-BAS")</i> Ground-based augmentation system
ADIZ	<i>(to be pronounced "AY-DIZ")</i> Air defence identification zone	GLONASS	<i>(to be pronounced "GLO-NAS")</i> Global orbiting navigation satellite system
AIREP	Air-report	GRAS	<i>(to be pronounced "GRASS")</i> Ground-based regional augmentation system
AIRMET	Information concerning en-route weather phenomena which may affect the safety of low-level aircraft operations	IDENT	Identification
ALERFA	Alert phase	INCERFA	Uncertainty phase
APAPI	<i>(to be pronounced "AY-PAPI")</i> Abbreviated precision approach path indicator	INFO	Information
ATIS	Automatic terminal information service	LNAV	<i>(to be pronounced "EL-NAV")</i> Lateral navigation
AT-VASIS	<i>(to be pronounced "AY-TEE-VASIS")</i> Abbreviated T visual approach slope indicator system	LORAN	LORAN (<i>long range air navigation system</i>)
AVGAS	Aviation gasoline	MET	Meteorological <i>or</i> meteorology
BARO-VNAV	<i>(to be pronounced "BAA-RO-VEE-NAV")</i> Barometric vertical navigation	METAR	Aviation routine weather report (<i>in aeronautical meteorological code</i>)
BASE	Cloud base	MOPS	Minimum operational performance standards
CAVOK	<i>(to be pronounced "KAV-OH-KAY")</i> Visibility, cloud and present weather better than prescribed values or conditions	MSAS	<i>(to be pronounced "EM-SAS")</i> Multi-functional transport satellite (MTSAT) satellite-based augmentation system
CIDIN	Common ICAO data interchange network	NASC	National AIS system centre
D-ATIS	<i>(to be pronounced "DEE-ATIS")</i> Data link automatic terminal information service	NIL	None <i>or</i> I have nothing to send you
DETRESFA	Distress phase	NOSIG	No significant change (<i>used in trend-type landing forecast</i>)
EFIS	<i>(to be pronounced "EE-FIS")</i> Electronic flight instrument system	NOTAM	A notice distributed by means of telecommunication containing information concerning the establishment, conditions or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations
EGNOS	<i>(to be pronounced "EGG-NOS")</i> European geostationary navigation overlay service		
ELBA	Emergency location beacon — aircraft		
FRONT	Front (<i>relating to weather</i>)	OLDI	On-line data interchange
FROST	Frost (<i>used in aerodrome warnings</i>)	OPMET	Operational meteorological (<i>information</i>)

OPS	Operations	SPECIAL	Special meteorological report (<i>in abbreviated plain language</i>)
PAPI	Precision approach path indicator	SPOT	Spot wind
PROB	Probability	STAR	Standard instrument arrival
RAIM	Receiver autonomous integrity monitoring	TACAN	UHF tactical air navigation system
RASC	Regional AIS system centre	TAF	Aerodrome forecast
RIME	Rime (<i>used in aerodrome warnings</i>)	TAIL	Tail wind
RNAV	(<i>to be pronounced "AR-NAV"</i>) Area navigation	TCAS RA	(<i>to be pronounced "TEE-CAS-AR-AY"</i>) Traffic alert and collision avoidance system resolution advisory
ROBEX	Regional OPMET bulletin exchange (<i>scheme</i>)	TEMPO	Temporary <i>or</i> temporarily
SATCOM	Satellite communication	TIBA	Traffic information broadcast by aircraft
SBAS	(<i>to be pronounced "ESS-BAS"</i>) Satellite-based augmentation system	TIL	Until
SELCAL	Selective calling system	TOP	Cloud top
SID	Standard instrument departure	TREND	Trend forecast
SIGMET	Information concerning en-route weather phenomena which may affect the safety of aircraft operations	TSUNAMI	Tsunami (<i>used in aerodrome warnings</i>)
SNOWTAM	A special series NOTAM notifying the presence or removal of hazardous conditions due to snow, ice, slush or standing water associated with snow, slush and ice on the movement area, by means of a specific format	T-VASIS	(<i>to be pronounced "TEE-VASIS"</i>) T visual approach slope indicator system
SPECI	Aviation selected special weather report (<i>in aeronautical meteorological code</i>)	VNAV	(<i>to be pronounced "VEE-NAV"</i>) Vertical navigation
		VOLMET	Meteorological information for aircraft in flight
		VORTAC	VOR and TACAN combination
		WAAS	Wide area augmentation system
		WILCO	Will comply

ABBREVIATIONS AND TERMS TO BE TRANSMITTED AS SPOKEN WORDS WHEN USED IN RADIOTELEPHONY

ENCODE

Abbreviated precision approach path indicator (<i>to be pronounced "AY-PAPI"</i>)	APAPI	Front (<i>relating to weather</i>)	FRONT
		Frost (<i>used in aerodrome warnings</i>)	FROST
Abbreviated T visual approach slope indicator system (<i>to be pronounced "AY-TEE-VASIS"</i>)	AT-VASIS	Global orbiting navigation satellite system (<i>to be pronounced "GLO-NAS"</i>)	GLONASS
Aerodrome forecast	TAF	GPS and geostationary earth orbit augmented navigation	GAGAN
Airborne collision avoidance system	ACAS	Ground-based augmentation system (<i>to be pronounced "GEE-BAS"</i>)	GBAS
Aircraft communication addressing and reporting system (<i>to be pronounced "AY-CARS"</i>)	ACARS	Ground-based regional augmentation system (<i>to be pronounced "GRASS"</i>)	GRAS
Air defence identification zone (<i>to be pronounced "AY-DIZ"</i>)	ADIZ	Identification	IDENT
Air-report	AIREP	Information	INFO
Alert phase	ALERFA	Information concerning en-route weather phenomena which may affect the safety of aircraft operations	SIGMET
Area navigation (<i>to be pronounced "AR-NAV"</i>)	RNAV	Information concerning en-route weather phenomena which may affect the safety of low-level aircraft operations	AIRMET
Automatic terminal information service	ATIS	Lateral navigation (<i>to be pronounced "EL-NAV"</i>)	LNAV
Aviation gasoline	AVGAS	LORAN (<i>long range air navigation system</i>)	LORAN
Aviation routine weather report (<i>in aeronautical meteorological code</i>)	METAR	Meteorological or meteorology	MET
Aviation selected special weather report (<i>in aeronautical meteorological code</i>)	SPECI	Meteorological information for aircraft in flight	VOLMET
Barometric vertical navigation (<i>to be pronounced "BAA-RO-VEE-NAV"</i>)	BARO-VNAV	Minimum operational performance standards	MOPS
Cloud base	BASE	Multi-functional transport satellite (MTSAT) satellite-based augmentation system (<i>to be pronounced "EM-SAS"</i>)	MSAS
Cloud top	TOP	National AIS system centre	NASC
Common ICAO data interchange network	CIDIN	None or I have nothing to send you	NIL
Data link automatic terminal information service (<i>to be pronounced "DEE-ATIS"</i>)	D-ATIS	No significant change (<i>used in trend-type landing forecast</i>)	NOSIG
Distress phase	DETRESFA		
Electronic flight instrument system (<i>to be pronounced "EE-FIS"</i>)	EFIS		
Emergency location beacon — aircraft	ELBA		
European geostationary navigation overlay service (<i>to be pronounced "EGG-NOS"</i>)	EGNOS		

Notice distributed by means of telecommunication containing information concerning the establishment, conditions or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations	NOTAM	Spot wind	SPOT
		Standard instrument arrival	STAR
		Standard instrument departure	SID
		Tail wind	TAIL
		Temporary <i>or</i> temporarily	TEMPO
		Traffic alert and collision avoidance system resolution advisory (<i>to be pronounced "TEE-CAS-AR-AY"</i>)	TCAS RA
		Traffic information broadcast by aircraft	TIBA
On-line data interchange	OLDI	Trend forecast	TREND
Operational meteorological (<i>information</i>)	OPMET	Tsunami (<i>used in aerodrome warnings</i>)	TSUNAMI
Operations	OPS	T visual approach slope indicator system (<i>to be pronounced "TEE-VASIS"</i>)	T-VASIS
Precision approach path indicator	PAPI	UHF tactical air navigation system	TACAN
Probability	PROB	Uncertainty phase	INCERFA
		Until	TIL
Receiver autonomous integrity monitoring	RAIM	Vertical navigation (<i>to be pronounced "VEE-NAV"</i>)	VNAV
Regional AIS system centre	RASC	Visibility, cloud and present weather better than prescribed values or conditions (<i>to be pronounced "KAV-OH-KAY"</i>)	CAVOK
Regional OPMET bulletin exchange (<i>scheme</i>)	ROBEX	VOR and TACAN combination	VORTAC
Rime (<i>used in aerodrome warnings</i>)	RIME		
Satellite-based augmentation system (<i>to be pronounced "ESS-BAS"</i>)	SBAS	Wide area augmentation system	WAAS
Satellite communication	SATCOM	Will comply	WILCO
Selective calling system	SELCAL		
Special meteorological report (<i>in abbreviated plain language</i>)	SPECIAL		
Special series NOTAM notifying the presence or removal of hazardous conditions due to snow, ice, slush or standing water associated with snow, slush and ice on the movement area, by means of a specific format	SNOWTAM		

**ABBREVIATIONS AND TERMS TO BE TRANSMITTED USING
THE INDIVIDUAL LETTERS IN NON-PHONETIC FORM
WHEN USED IN RADIOTELEPHONY**

DECODE

ACC	Area control centre <i>or</i> area control	MLS	Microwave landing system
ADF	Automatic direction-finding equipment	NDB	Non-directional radio beacon
ADS-B	Automatic dependent surveillance — broadcast	NOZ	Normal operating zone
ADS-C	Automatic dependent surveillance — contract	NTZ	No transgression zone
AFTN	Aeronautical fixed telecommunication network	PAR	Precision approach radar
ATA	Actual time of arrival	PDC	Pre-departure clearance
ATC	Air traffic control (<i>in general</i>)	PSR	Primary surveillance radar
ATD	Actual time of departure	QDM	Magnetic heading (<i>zero wind</i>)
CB	(<i>to be pronounced “CEE BEE”</i>) Cumulonimbus	QFE	Atmospheric pressure at aerodrome elevation (<i>or at runway threshold</i>)
CPDLC	Controller-pilot data link communications	QNH	Altimeter sub-scale setting to obtain elevation when on the ground
DME	Distance measuring equipment	RCP	Required communication performance
ETA	Estimated time of arrival <i>or</i> estimating arrival	RNP	Required navigation performance
ETD	Estimated time of departure <i>or</i> estimating departure	RPI	Radar position indicator
FIR	Flight information region	RVR	Runway visual range
FMS	Flight management system	RVSM	Reduced vertical separation minimum (300 m (1 000 ft)) between FL 290 and FL 410
GCA	Ground controlled approach system <i>or</i> ground controlled approach	SSR	Secondary surveillance radar
GLS	GBAS landing system	TMA	Terminal control area
GNSS	Global navigation satellite system	UHF	Ultra high frequency [300 to 3 000 MHz]
GPS	Global positioning system	UIR	Upper flight information region
GPWS	Ground proximity warning system	UTC	Coordinated universal time
HF	High frequency [3 000 to 30 000 KHz]	VFR	Visual flight rules
IFR	Instrument flight rules	VHF	Very high frequency [30 to 300 MHz]
ILS	Instrument landing system	VIP	Very important person
IMC	Instrument meteorological conditions	VMC	Visual meteorological conditions
		VOR	VHF omnidirectional radio range

**ABBREVIATIONS AND TERMS TO BE TRANSMITTED USING
THE INDIVIDUAL LETTERS IN NON-PHONETIC FORM
WHEN USED IN RADIOTELEPHONY**

ENCODE

Actual time of arrival	ATA	High frequency [3 000 to 30 000 KHz]	HF
Actual time of departure	ATD		
Aeronautical fixed telecommunication network	AFTN	Instrument flight rules	IFR
Air traffic control (<i>in general</i>)	ATC	Instrument landing system	ILS
Altimeter sub-scale setting to obtain elevation when on the ground	QNH	Instrument meteorological conditions	IMC
Area control centre <i>or</i> area control	ACC	Magnetic heading (<i>zero wind</i>)	QDM
Atmospheric pressure at aerodrome elevation (<i>or at runway threshold</i>)	QFE	Microwave landing system	MLS
Automatic dependent surveillance — broadcast	ADS-B	No transgression zone	NTZ
Automatic dependent surveillance — contract	ADS-C	Non-directional radio beacon	NDB
Automatic direction-finding equipment	ADF	Normal operating zone	NOZ
Controller-pilot data link communications	CPDLC	Precision approach radar	PAR
Coordinated universal time	UTC	Pre-departure clearance	PDC
Cumulonimbus (<i>to be pronounced "CEE BEE"</i>)	CB	Primary surveillance radar	PSR
Distance measuring equipment	DME	Radar position indicator	RPI
Estimated time of arrival <i>or</i> estimating arrival	ETA	Reduced vertical separation minimum (300 m (1 000 ft)) between FL 290 and FL 410	RVSM
Estimated time of departure <i>or</i> estimating departure	ETD	Required communication performance	RCP
		Required navigation performance	RNP
		Runway visual range	RVR
Flight information region	FIR	Secondary surveillance radar	SSR
Flight management system	FMS	Terminal control area	TMA
GBAS landing system	GLS	Ultra high frequency [300 to 3 000 MHz]	UHF
Global navigation satellite system	GNSS	Upper flight information region	UIR
Global positioning system	GPS	Very high frequency [30 to 300 MHz]	VHF
Ground controlled approach system <i>or</i> ground controlled approach	GCA	Very important person	VIP
Ground proximity warning system	GPWS	VHF omnidirectional radio range	VOR
		Visual flight rules	VFR
		Visual meteorological conditions	VMC

DESIGNATION OF TYPICAL RADIOCOMMUNICATION EMISSIONS

<i>Type of modulation of main carrier</i>	<i>Type of transmission</i>	<i>Supplementary characteristics</i>	<i>Abbreviation</i>
None	Continuous wave	—	NON
Amplitude modulation	Telegraphy without the use of a modulating audio frequency (by on-off keying)	—	A1A
	Telegraphy by the on-off keying of an amplitude-modulating audio frequency or audio frequencies, or by the on-off keying of the modulated emission (special case: an unkeyed emission amplitude modulated)	—	A2A
	Telephony	Double sideband	A3A
		Single sideband, reduced carrier	R3E
		Single sideband, full carrier	H3E
		Single sideband, suppressed carrier	J3E
		Two independent sidebands containing quantized or digital information	B7E
		Two independent sidebands containing analogue information	B8E
	Facsimile (by sub-carrier frequency modulation)	—	A4
		Single sideband, reduced carrier	R3C
		Single sideband, suppressed carrier	J3C
	Television	Vestigial sideband	C3F
	Multichannel voice-frequency telegraphy	Single sideband, reduced carrier	R7B
	Cases not covered by the above, e.g. a combination of telephony and telegraphy	Two independent sidebands	B9W
Frequency (or phase) modulation	Telegraphy by frequency shift keying without the use of a modulating audio frequency: one of two frequencies being emitted at any instant	—	F1A
	Telegraphy by the on-off keying of a frequency modulating audio frequency or by the on-off keying of a frequency modulated emission (special case: an unkeyed emission, frequency modulated)	—	F2A
	Telephony	—	F3E
	Facsimile by direct frequency modulation of the carrier	—	F1C
	Television	—	F3F

<i>Type of modulation of main carrier</i>	<i>Type of transmission</i>	<i>Supplementary characteristics</i>	<i>Abbreviation</i>
	Four-frequency duplex telegraphy	—	F7B
Pulse modulation	A pulsed carrier without any modulation intended to carry information (e.g. radar)	—	P0N
	Telegraphy by the on-off keying of a pulsed carrier without the use of a modulating audio frequency	—	P1D
<i>Note.— Emissions where the main character is directly modulated by a signal which has been coded into quantized form (e.g. pulse code modulation) should be designated by the appropriate emission under Amplitude or Frequency modulation, above.</i>			
	Cases not covered by the above in which the main carrier is pulse modulated		WXX

Note.— For additional assistance, see ITU Radio Regulations, Appendix 1 and Recommendation ITU-R SM.1138.

SIGNAL REPORTING CODES

**Codes for use in the international aeronautical telecommunication service
for the preparation of messages relating to monitoring, propagation
disturbance and radio interference reports**

Introduction

1. A signal report shall consist of the code word SINPO or SINPFEMO followed by a five- or eight-figure group respectively rating the five or eight characteristics of the signal code.
2. The letter X shall be used instead of a numeral for characteristics not rated.
3. Although the code word SINPFEMO is intended for telephony, either code word may be used for telegraphy or telephony as may be desired.

SINPO Signal Reporting Code

	S	I	N	P	O
Rating scale	Signal strength	Degrading effect of			Overall readability (QRK)
		Interference (QRM)	Noise (QRN)	Propagation disturbance	
5	Excellent	Nil	Nil	Nil	Excellent
4	Good	Slight	Slight	Slight	Good
3	Fair	Moderate	Moderate	Moderate	Fair
2	Poor	Severe	Severe	Severe	Poor
1	Barely audible	Extreme	Extreme	Extreme	Unusable

SINPFEMO Signal Reporting Code

	S	I	N	P	F	E	M	O
Rating scale	Signal strength	Degrading effect of			Frequency of fading	Modulation		Overall rating
		Interference (QRM)	Noise (QRN)	Propagation disturbance		Quality	Depth	
5	Excellent	Nil	Nil	Nil	Nil	Excellent	Maximum	Excellent
4	Good	Slight	Slight	Slight	Slow	Good	Good	Good
3	Fair	Moderate	Moderate	Moderate	Moderate	Fair	Fair	Fair
2	Poor	Severe	Severe	Severe	Fast	Poor	Poor or Nil	Poor
1	Barely audible	Extreme	Extreme	Extreme	Very fast	Very poor	Continuously overmodulated	Unusable

THE NOTAM CODE

PREFACE

(See 5.2.2 and Appendix 6 of Annex 15)

1. Introduction

The NOTAM Code is provided to enable the coding of information regarding the establishment, condition or change of radio aids, aerodromes and lighting facilities, dangers to aircraft, or search and rescue facilities. The NOTAM Code is a comprehensive description of information contained in NOTAM. It serves as an important criterion for storage and retrieval of information, as well as for deciding whether an item is of operational significance or not. It also establishes the relevance of the NOTAM to the various types of flight operations and determines whether it must therefore be part of a pre-flight information bulletin. In addition, it assists in specifying those items which are subject to immediate notification processes. The NOTAM Code also standardizes the presentation of the related plain-language text required at Item E) of the NOTAM Format as contained in Appendix 6 of Annex 15. Thus, the NOTAM Code is the basis for determination of the qualifiers TRAFFIC, PURPOSE and SCOPE used in Q (Qualifiers) line and the related text to appear in Item E) of the NOTAM Format.

2. Procedures

The transmission of NOTAM over the international aeronautical telecommunication service is governed by the appropriate sections of Annex 10, Volume II, and Annex 15. The former contains information on the acceptability of and priority to be accorded to NOTAM for transmission over the aeronautical fixed service (AFS), the latter full instructions on the textual format and contents of NOTAM.

3. Composition

General

3.1 All NOTAM Code groups contain a total of five (5) letters. The first letter of the code group is always the letter Q to indicate that it is a code abbreviation for use in the composition of NOTAM. The letter Q has been chosen to avoid conflict with any assigned radio call sign.

3.2 The second and third letters identify the subject reported upon and the fourth and fifth letters denote its status of operation. The code identifying the subject or denoting its status of operation is, whenever possible, self-evident. Where more than one subject could be identified by the same self-evident code, the most important subject is chosen.

3.3 If the subject of the NOTAM is not listed in the NOTAM Code, insert “XX” as the second and third letters.

3.4 If the condition of the subject is not listed in the NOTAM Code, insert “XX” as the fourth and fifth letters.

3.5 When a NOTAM is issued containing a checklist of valid NOTAM, use KKKK as the second, third, fourth and fifth letters. When a NOTAM containing operationally significant information is issued in accordance with Appendix 4 and Chapter 6 of Annex 15 and when it is used to announce the existence of AIRAC AIP amendments or supplements (trigger NOTAM), insert “TT” as the fourth and fifth letters.

Classification by subject (second and third letters)

3.6 Facilities, services and other information which require coding have been classified by subject into sections and subsections. The second letter of the code group, which may be any letter of the alphabet except Q, indicates the subject subsections as follows:

AGA (Aerodromes)

.....	<u>L</u> IGHTING facilities	— L
.....	<u>M</u> OVEMENT and landing area	— M
.....	<u>F</u> ACILITIES and services	— F

ATM (Air Traffic Management)

.....	<u>A</u> IRSPACE organization	— A
.....	air traffic and VOLMET <u>S</u> ERVICES	— S
.....	air traffic <u>P</u> ROCEDURES	— P

CNS (Communications, Navigation and Surveillance)

.....	<u>C</u> OMMUNICATION and radar facilities	— C
.....	<u>I</u> NSTRUMENT and microwave landing systems	— I
.....	<u>G</u> NSS services	— G
.....	terminal and en-route <u>N</u> AVIGATION facilities	— N

Navigation Warnings

.....	airspace <u>R</u> ESTRICTIONS	— R
.....	<u>W</u> ARNINGS	— W

Other Information

.....	<u>O</u> THER information	— O
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Classification by status (fourth and fifth letters)

3.7 The fourth letter of the code group, which may be any letter of the alphabet except Q, indicates status subsections as follows:

A	<u>A</u> VAILABILITY
C	<u>C</u> HANGES
H	<u>H</u> AZARD conditions
L	<u>L</u> IMITATIONS
XX	Other

3.8 The following fourth and fifth letters of the NOTAM Code should be used in NOTAM cancellations:

- AK: RESUMED NORMAL OPERATION
- AL: OPERATIVE (OR REOPERATIVE) SUBJECT TO PREVIOUSLY PUBLISHED LIMITATIONS/CONDITIONS
- AO: OPERATIONAL
- CC: COMPLETED
- XX: PLAIN LANGUAGE

4. Significations/uniform abbreviated phraseology

The significations/approved uniform abbreviated phraseology assigned to NOTAM Code groups, as required for use in Item E) of the NOTAM Format (Annex 15, Appendix 6), are to be amplified or completed where necessary by the addition of appropriate location indicators, name of station, geographical coordinates, abbreviations, frequencies, call signs, figures and plain language. ICAO abbreviations are to be used in preference to plain language wherever possible. In order to facilitate the dissemination of NOTAM by reducing the transmission time over telecommunication channels, eliminate translation and provide a suitable pre-flight information bulletin entry, the approved uniform abbreviated phraseology assigned to each signification of a two-letter combination in the NOTAM Code — Decode part is to be used in preference to significations wherever possible.

Note.— In addition, to meet certain requirements, a State may wish to provide a translation of the approved uniform phraseology in another language.

5. Text in parentheses

The information necessary to complete a signification/uniform abbreviated phraseology, as indicated between parentheses, shall be given as applicable.

6. Amplification of significations/uniform abbreviated phraseology

The following is applicable to amplification of significations/uniform abbreviated phraseology:

- a) amplifications relating to significations/uniform abbreviated phraseology of the second and third letters (subject of the NOTAM) must *precede* signification/uniform abbreviated phraseology of the NOTAM Code;
- b) amplifications relating to significations/uniform abbreviated phraseology of the fourth and fifth letters (status of operation) must *follow* signification/uniform abbreviated phraseology of the NOTAM Code.

Examples (as applicable to Item E) of the NOTAM Format)

- a) The touchdown zone lights of RWY 27 are not available due to power failure.

E) RWY 27 RTZL NOT AVBL DUE PWR FAILURE

- b) The taxiway edge lights of taxiway B are obscured by snow.
E) TWY B EDGE LGT OBSCURED BY SN
- c) On the strip of RWY 09/27 snow banks to a height of 15 ft exist.
E) RWY 09/27 STRIP SN BANKS HGT 15 FT
- d) The minimum sector altitude in the sector 90° to 180° inbound VOR ident DOM changed to 3 600 ft MSL.
E) 90 TO 180 DEG INBD VOR DOM MSA CHANGED 3 600 FT MSL

7. Use of NOTAM Code groups

7.1 Five-letter NOTAM Code groups are to be used in conjunction with the NOTAM Format (Annex 15, 5.2.1, 5.3.2 and Appendix 6). They also constitute the basis for determination of the qualifiers Traffic, Purpose and Scope. Both NOTAM Code groups and NOTAM qualifiers are to be inserted in Q (Qualifiers) line of the NOTAM Format.

Note.— The most commonly used NOTAM Code groups and their respective relation with the qualifiers Traffic, Purpose and Scope are presented in the NOTAM Selection Criteria tables (Doc 8126 — Aeronautical Information Services Manual, Attachment to Appendix C).

7.2 Five-letter NOTAM Code groups are formed in the following manner:

FIRST LETTER

The letter Q (see 3.1).

SECOND AND THIRD LETTERS

The appropriate combination of two letters selected from the “Second and Third Letters” section of the NOTAM Code to identify the facility, service or danger to aircraft being reported upon. (See 3.3, 3.5 and 3.6.)

FOURTH AND FIFTH LETTERS

The appropriate combination of two letters selected from the “Fourth and Fifth Letters” section of the NOTAM Code to denote the status of operation of the facility, service or danger to aircraft reported upon. (See 3.4, 3.5 and 3.7.)

Examples

Note.— In the examples of NOTAM below, the letters Q to G inclusive, each followed by a closing parenthesis, identify an item in the NOTAM Format (Annex 15, Appendix 6).

- a) The distance measuring equipment (DME), at Paris/Orly, will not be available from the 31st day of March 1992 at 2359 UTC until the 1st day of April 1992 at 0600 UTC.

NOTAM:

Q) LFFF/QNDAU/IV/BO/AE/ . . .
A) LFPO B) 9203312359 C) 9204010600
E) DME NOT AVBL

Meaning of NOTAM:

Item Q):

- LFFF: ICAO location indicator identifying Paris FIR in which the facility reported on is located;
- QNDAU: The letter “Q” identifies the five-letter code group as the NOTAM Code group. Second and third letters “ND” identifying “distance measuring equipment” and fourth and fifth letters “AU” denoting that the facility is “not available”;
- IV: Letters identifying that the information affects both IFR and VFR traffic;
- BO: Letters identifying that NOTAM is selected for pre-flight information bulletins entry and that it is operationally significant information for IFR flights;
- AE: Letters identifying that facility is serving a dual purpose as terminal and en-route aid.

Item A):

- LFPO: ICAO location indicator identifying Paris/Orly, the location of the facility being reported on.

Item B):

- 9203312359: Date/time group of the beginning of the period of validity in which the facility is not available.

Item C):

- 9204010600: Date/time group of the end of the period of validity in which the facility is not available.

Item E):

- DME NOT AVBL: Plain-language entry using ICAO abbreviations.
- b) With immediate effect, the VHF omnidirectional radio range on frequency 116.9 MHz at New York/La Guardia will be out of service until approximately the 13th day of November 1992 at 0900 UTC.

NOTAM:

Q) KZWY/QNVAS/IV/BO/AE/ . . .
A) KLGA B) 9211020615 C) 9211130900 EST
E) 116.9 MHz VOR U/S

Note.— In the above example, the amplification (i.e. VOR frequency 116.9 MHz) relating to the second and third letters precedes the NOTAM Code signification.

- c) Runway 30 at Stockholm/Bromma is permanently closed for VFR operations.

NOTAM:

Q) ESOS/QMRLV/V/NB/A/ ...
A) ESSB B) 9210221430 C) PERM
E) RWY 30 CLSD TO VFR OPS

- d) The VHF omnidirectional radio range on frequency 116.30 MHz station VOZICE in PRAHA FIR will be out of service from the 10th day of November 1992 at 0800 UTC until the 13th day of November 1992 at 0900 UTC.

NOTAM:

Q) LKAA/QNVAS/IV/BO/E/ ...
A) LKAA B) 9211100800 C) 9211130900
E) VOZ 116.30 MHZ VOR U/S

Note.— In the above example, the amplification (i.e. station identification VOZ and VOR frequency 116.30 MHz) relating to the second and third letters precedes the NOTAM Code signification.

- e) In the Montreal FIR, gunfiring will take place on the 21st day of February 1993 from 0800 UTC until 1100 UTC within an area of 10 NM radius around the location 45°37' North, 74°00' West from the surface up to an altitude of 6 100 m (20 000 ft) MSL.

NOTAM:

Q) CZUL/QWMLW/IV/BO/W/000/200/4537N07400W010
A) CZUL B) 9302210800 C) 9302211100
E) GUN FRNG WILL TAKE PLACE RADIUS 10 NM AROUND 4537N07400W
F) SFC G) 6100 M (20000 FT) MSL

THE NOTAM CODE — DECODE

SECOND AND THIRD LETTERS

<i>Code</i>	<i>Signification</i>	<i>Uniform abbreviated phraseology</i>
AGA		
Lighting facilities (L)		
LA	Approach lighting system (<i>specify runway and type</i>)	als
LB	Aerodrome beacon	abn
LC	Runway centre line lights (<i>specify runway</i>)	rcll
LD	Landing direction indicator lights	ldi lgt
LE	Runway edge lights (<i>specify runway</i>)	redl
LF	Sequenced flashing lights (<i>specify runway</i>)	sequenced flg lgt
LG	Pilot-controlled lighting	pcl
LH	High intensity runway lights (<i>specify runway</i>)	high intst rwy lgt
LI	Runway end identifier lights (<i>specify runway</i>)	rwy end id lgt
LJ	Runway alignment indicator lights (<i>specify runway</i>)	rai lgt
LK	Category II components of approach lighting system (<i>specify runway</i>)	cat II components als
LL	Low intensity runway lights (<i>specify runway</i>)	low intst rwy lgt
LM	Medium intensity runway lights (<i>specify runway</i>)	medium intst rwy lgt
LP	Precision approach path indicator (<i>specify runway</i>)	papi
LR	All landing area lighting facilities	ldg area lgt fac
LS	Stopway lights (<i>specify runway</i>)	stwl
LT	Threshold lights (<i>specify runway</i>)	thr lgt
LU	Helicopter approach path indicator	hapi
LV	Visual approach slope indicator system (<i>specify type and runway</i>)	vasis
LW	Heliport lighting	heliport lgt
LX	Taxiway centre line lights (<i>specify taxiway</i>)	twy cl lgt
LY	Taxiway edge lights (<i>specify taxiway</i>)	twy edge lgt
LZ	Runway touchdown zone lights (<i>specify runway</i>)	rtzl
AGA		
Movement and landing area (M)		
MA	Movement area	mov area
MB	Bearing strength (<i>specify part of landing area or movement area</i>)	bearing strength
MC	Clearway (<i>specify runway</i>)	cwy
MD	Declared distances (<i>specify runway</i>)	declared dist
MG	Taxiing guidance system	tgs
MH	Runway arresting gear (<i>specify runway</i>)	rag
MK	Parking area	prkg area
MM	Daylight markings (<i>specify threshold, centre line, etc.</i>)	day markings
MN	Apron	apron
MO	Stopbar (<i>specify taxiway</i>)	stopbar
MP	Aircraft stands (<i>specify</i>)	acft stand
MR	Runway (<i>specify runway</i>)	rwy
MS	Stopway (<i>specify runway</i>)	swy
MT	Threshold (<i>specify runway</i>)	thr

<i>Code</i>	<i>Signification</i>	<i>Uniform abbreviated phraseology</i>
MU	Runway turning bay (<i>specify runway</i>)	rwyt turning bay
MW	Strip/shoulder (<i>specify runway</i>)	strip/shoulder
MX	Taxiway(s) (<i>specify</i>)	twy
MY	Rapid exit taxiway (<i>specify</i>)	rapid exit twy
AGA		
Facilities and services (F)		
FA	Aerodrome	ad
FB	Friction measuring device (<i>specify type</i>)	friction measuring device
FC	Ceiling measurement equipment	ceiling measurement eqpt
FD	Docking system (<i>specify AGNIS, BOLDS, etc.</i>)	dckg system
FE	Oxygen (<i>specify type</i>)	oxygen
FF	Firefighting and rescue	fire and rescue
FG	Ground movement control	gnd mov ctl
FH	Helicopter alighting area/platform	hel alighting area
FI	Aircraft de-icing (<i>specify</i>)	acft de-ice
FJ	Oils (<i>specify type</i>)	oil
FL	Landing direction indicator	ldi
FM	Meteorological service (<i>specify type</i>)	met
FO	Fog dispersal system	fg dispersal
FP	Heliport	heliport
FS	Snow removal equipment	sn removal eqpt
FT	Transmissometer (<i>specify runway and, where applicable, designator(s) of transmissometer(s)</i>)	transmissometer
FU	Fuel availability	fuel avbl
FW	Wind direction indicator	wdi
FZ	Customs/immigration	cust/immigration
ATM		
Airspace organization (A)		
AA	Minimum altitude (<i>specify en-route/crossing/safe</i>)	mmn alt
AC	Control zone	ctr
AD	Air defence identification zone	adiz
AE	Control area	cta
AF	Flight information region	fir
AH	Upper control area	uta
AL	Minimum usable flight level	mmn usable fl
AN	Area navigation route	rnav rte
AO	Oceanic control area	oca
AP	Reporting point (<i>specify name or coded designator</i>)	rep
AR	ATS route (<i>specify</i>)	ats rte
AT	Terminal control area	tma
AU	Upper flight information region	uir
AV	Upper advisory area	uda
AX	Significant point	sig
AZ	Aerodrome traffic zone	atz

<i>Code</i>	<i>Signification</i>	<i>Uniform abbreviated phraseology</i>
ATM		
Air traffic and VOLMET services (S)		
SA	Automatic terminal information service	atis
SB	ATS reporting office	aro
SC	Area control centre	acc
SE	Flight information service	fis
SF	Aerodrome flight information service	afis
SL	Flow control centre	flow ctl centre
SO	Oceanic area control centre	oac
SP	Approach control service	app
SS	Flight service station	fss
ST	Aerodrome control tower	twr
SU	Upper area control centre	uac
SV	VOLMET broadcast	volmet
SY	Upper advisory service (<i>specify</i>)	upper advisory ser

ATM

Air traffic procedures (P)

PA	Standard instrument arrival (<i>specify route designator</i>)	star
PB	Standard VFR arrival	std vfr arr
PC	Contingency procedures	contingency proc
PD	Standard instrument departure (<i>specify route designator</i>)	sid
PE	Standard VFR departure	std vfr dep
PF	Flow control procedure	flow ctl proc
PH	Holding procedure	hldg proc
PI	Instrument approach procedure (<i>specify type and runway</i>)	instr apch proc
PK	VFR approach procedure	vfr apch proc
PL	Flight plan processing, filing and related contingency	fpl
PM	Aerodrome operating minima (<i>specify procedure and amended minimum</i>)	opr minima
PN	Noise operating restrictions	noise opr restrictions
PO	Obstacle clearance altitude and height (<i>specify procedure</i>)	oca och
PR	Radio failure procedure	rdo failure proc
PT	Transition altitude or transition level (<i>specify</i>)	ta/trl
PU	Missed approach procedure (<i>specify runway</i>)	missed apch proc
PX	Minimum holding altitude (<i>specify fix</i>)	mmn hldg alt
PZ	ADIZ procedure	adiz proc

CNS

Communications and surveillance facilities (C)

CA	Air/ground facility (<i>specify service and frequency</i>)	a/g fac
CB	Automatic dependent surveillance — broadcast (<i>details</i>)	ads-b
CC	Automatic dependent surveillance — contract (<i>details</i>)	ads-c
CD	Controller-pilot data link communications (<i>details</i>)	cpdlc
CE	En-route surveillance radar	rsr
CG	Ground controlled approach system	gca
CL	Selective calling system	selcal
CM	Surface movement radar	smr

<i>Code</i>	<i>Signification</i>	<i>Uniform abbreviated phraseology</i>
CP	Precision approach radar (<i>specify runway</i>)	par
CR	Surveillance radar element of precision approach radar system (<i>specify wavelength</i>)	sre
CS	Secondary surveillance radar	ssr
CT	Terminal area surveillance radar	tar
CNS		
Instrument and microwave landing systems (I)		
IC	Instrument landing system (<i>specify runway</i>)	ils
ID	DME associated with ILS	ils dme
IG	Glide path (ILS) (<i>specify runway</i>)	ils gp
II	Inner marker (ILS) (<i>specify runway</i>)	ils im
IL	Localizer (ILS) (<i>specify runway</i>)	ils llz
IM	Middle marker (ILS) (<i>specify runway</i>)	ils mm
IN	Localizer (<i>not associated with ILS</i>)	llz
IO	Outer marker (ILS) (<i>specify runway</i>)	ils om
IS	ILS Category I (<i>specify runway</i>)	ils cat I
IT	ILS Category II (<i>specify runway</i>)	ils cat II
IU	ILS Category III (<i>specify runway</i>)	ils cat III
IW	Microwave landing system (<i>specify runway</i>)	mls
IX	Locator, outer (ILS) (<i>specify runway</i>)	ils lo
IY	Locator, middle (ILS) (<i>specify runway</i>)	ils lm
CNS		
GNSS services (G)		
GA	GNSS airfield-specific operations (<i>specify operation</i>)	gnss airfield
GW	GNSS area-wide operations (<i>specify operation</i>)	gnss area
CNS		
Terminal and en-route navigation facilities (N)		
NA	All radio navigation facilities (except . . .)	all rdo nav fac
NB	Non-directional radio beacon	ndb
NC	DECCA	decca
ND	Distance measuring equipment	dme
NF	Fan marker	fan mkr
NL	Locator (<i>specify identification</i>)	l
NM	VOR/DME	vor/dme
NN	TACAN	tacan
NO	OMEGA	omega
NT	VORTAC	vortac
NV	VOR	vor
NX	Direction-finding station (<i>specify type and frequency</i>)	df

<i>Code</i>	<i>Signification</i>	<i>Uniform abbreviated phraseology</i>
Navigation Warnings		
Airspace restrictions (R)		
RA	Airspace reservation (<i>specify</i>)	airspace reservation
RD	Danger area (<i>specify</i>)	... d ...
RM	Military operating area	moa
RO	Overflying of ... (<i>specify</i>)	overflying
RP	Prohibited area (<i>specify</i>)	... p ...
RR	Restricted area	... r ...
RT	Temporary restricted area (<i>specify area</i>)	tempo restricted area
Navigation Warnings		
Warnings (W)		
WA	Air display	air display
WB	Aerobatics	aerobatics
WC	Captive balloon or kite	captive balloon/kite
WD	Demolition of explosives	demolition of explosives
WE	Exercises (<i>specify</i>)	exer
WF	Air refuelling	air refuelling
WG	Glider flying	gld fly
WH	Blasting	blasting
WJ	Banner/target towing	banner/target towing
WL	Ascent of free balloon	ascent of free balloon
WM	Missile, gun or rocket firing	missile/gun/rocket/frng
WP	Parachute jumping exercise, paragliding or hang gliding	pje/paragliding/hang gliding
WR	Radioactive materials or toxic chemicals (<i>specify</i>)	radioactive materials/toxic chemicals
WS	Burning or blowing gas	burning/blowing gas
WT	Mass movement of aircraft	mass mov of acft
WU	Unmanned aircraft	ua
WV	Formation flight	formation flt
WW	Significant volcanic activity	significant volcanic act
WY	Aerial survey	aerial survey
WZ	Model flying	model fly
Other Information (O)		
OA	Aeronautical information service	ais
OB	Obstacle (<i>specify details</i>)	obst
OE	Aircraft entry requirements	acft entry rqmnts
OL	Obstacle lights on ... (<i>specify</i>)	obst lgt
OR	Rescue coordination centre	rcc

THE NOTAM CODE — DECODE

FOURTH AND FIFTH LETTERS

<i>Code</i>	<i>Signification</i>	<i>Uniform abbreviated phraseology</i>
Availability (A)		
AC	Withdrawn for maintenance	withdrawn maint
AD	Available for daylight operation	avbl day ops
AF	Flight checked and found reliable	fltck okay
AG	Operating but ground checked only, awaiting flight check	opr but gnd ck only, awaiting fltck
AH	Hours of service are now . . . (<i>specify</i>)	hr ser
AK	Resumed normal operation	okay
AL	Operative (<i>or reoperative</i>) subject to previously published limitations/conditions	opr subj previous cond
AM	Military operations only	mil ops only
AN	Available for night operation	avbl ngt ops
AO	Operational	opr
AP	Available, prior permission required	avbl, ppr
AR	Available on request	avbl o/r
AS	Unserviceable	u/s
AU	Not available (<i>specify reason if appropriate</i>)	not avbl
AW	Completely withdrawn	withdrawn
AX	Previously promulgated shutdown has been cancelled	promulgated shutdown cnl
Changes (C)		
CA	Activated	act
CC	Completed	cmpl
CD	Deactivated	deactivated
CE	Erected	erected
CF	Operating frequency(ies) changed to	opr freq changed to
CG	Downgraded to	downgraded to
CH	Changed	changed
CI	Identification or radio call sign changed to	ident/rdo call sign changed to
CL	Realigned	realigned
CM	Displaced	displaced
CN	Cancelled	cnl
CO	Operating	opr
CP	Operating on reduced power	opr reduced pwr
CR	Temporarily replaced by	tempo rplcd by
CS	Installed	instl
CT	On test, do not use	on test, do not use

Code	Signification	Uniform abbreviated phraseology
Hazard Conditions (H)		
HA	Braking action is . . . 1) Poor 2) Medium/Poor 3) Medium 4) Medium/Good 5) Good	ba is...
HB	Friction coefficient is . . . (<i>specify friction measuring device used</i>)	friction coefficient is
HC	Covered by compacted snow to a depth of	cov compacted sn depth
HD	Covered by dry snow to a depth of	cov dry sn depth
HE	Covered by water to a depth of	cov water depth
HF	Totally free of snow and ice	free of sn and ice
HG	Grass cutting in progress	grass cutting inpr
HH	Hazard due to (<i>specify</i>)	hazard due
HI	Covered by ice	cov ice
HJ	Launch planned . . . (<i>specify balloon flight identification or project code name, launch site, planned period of launch(es) — date/time, expected climb direction, estimated time to pass 18 000 m (60 000 ft), or reaching cruise level if at or below 18 000 m (60 000 ft), together with estimated location</i>)	launch plan
HK	Bird migration in progress (<i>specify direction</i>)	bird migration inpr
HL	Snow clearance completed	sn clr cml
HM	Marked by	marked by
HN	Covered by wet snow or slush to a depth of	cov wet sn/slush depth
HO	Obscured by snow	obscured by sn
HP	Snow clearance in progress	sn clr inpr
HQ	Operation cancelled . . . (<i>specify balloon flight identification or project code name</i>)	opr cnl
HR	Standing water	standing water
HS	Sanding in progress	sanding inpr
HT	Approach according to signal area only	apch according signal
HU	Launch in progress . . . (<i>specify balloon flight identification or project code name, launch site, date/time of launch(es), estimated time passing 18 000 m (60 000 ft), or reaching cruising level if at or below 18 000 m (60 000 ft), together with estimated location, estimated date/time of termination of the flight and planned location of ground contact, when applicable</i>)	launch inpr
HV	Work completed	work cml
HW	Work in progress	wip
HX	Concentration of birds	bird concentration
HY	Snow banks exist (<i>specify height</i>)	sn banks hgt
HZ	Covered by frozen ruts and ridges	cov frozen ruts and ridges

<i>Code</i>	<i>Signification</i>	<i>Uniform abbreviated phraseology</i>
Limitations (L)		
LA	Operating on auxiliary power supply	opr aux pwr
LB	Reserved for aircraft based therein	reserved for acft based therein
LC	Closed	clsd
LD	Unsafe	unsafe
LE	Operating without auxiliary power supply	opr aux wo pwr
LF	Interference from	interference fm
LG	Operating without identification	opr wo ident
LH	Unserviceable for aircraft heavier than	u/s acft heavier than
LI	Closed to IFR operations	clsd ifr ops
LK	Operating as a fixed light	opr as f lgt
LL	Usable for length of . . . and width of . . .	usable len.../wid...
LN	Closed to all night operations	clsd to all ngt ops
LP	Prohibited to	prohibited to
LR	Aircraft restricted to runways and taxiways	acft restricted to rwy and twy
LS	Subject to interruption	subj intrp
LT	Limited to	ltd to
LV	Closed to VFR operations	clsd vfr ops
LW	Will take place	will take place
LX	Operating but caution advised due to	opr but ctn advised due to
Other (XX)		
XX	Plain language	

THE NOTAM CODE — ENCODE

SECOND AND THIRD LETTERS

<i>Signification</i>	<i>Code</i>	<i>Signification</i>	<i>Code</i>
AGA		Movement area	MA
Lighting facilities (L)		Parking area	MK
		Rapid exit taxiway (<i>specify</i>)	MY
Aerodrome beacon	LB	Runway (<i>specify runway</i>)	MR
All landing area lighting facilities	LR	Runway arresting gear (<i>specify runway</i>)	MH
Approach lighting system (<i>specify runway and type</i>)	LA	Runway turning bay (<i>specify runway</i>)	MU
Category II components of approach lighting system (<i>specify runway</i>)	LK	Stopbar (<i>specify taxiway</i>)	MO
Helicopter approach path indicator	LU	Stopway (<i>specify runway</i>)	MS
Heliport lighting	LW	Strip/shoulder (<i>specify runway</i>)	MW
High intensity runway lights (<i>specify runway</i>)	LH	Taxiing guidance system	MG
Landing direction indicator lights	LD	Taxiway(s) (<i>specify</i>)	MX
Low intensity runway lights (<i>specify runway</i>)	LL	Threshold (<i>specify runway</i>)	MT
Medium intensity runway lights (<i>specify runway</i>)	LM		
Pilot-controlled lighting	LG	AGA	
Precision approach path indicator (<i>specify runway</i>)	LP	Facilities and services (F)	
Runway alignment indicator lights (<i>specify runway</i>)	LJ		
Runway centre line lights (<i>specify runway</i>)	LC	Aerodrome	FA
Runway edge lights (<i>specify runway</i>)	LE	Aircraft de-icing (<i>specify</i>)	FI
Runway end identifier lights (<i>specify runway</i>)	LI	Ceiling measurement equipment	FC
Runway touchdown zone lights (<i>specify runway</i>)	LZ	Customs/immigration	FZ
Sequenced flashing lights (<i>specify runway</i>)	LF	Docking system (<i>specify AGNIS, BOLDS, etc.</i>)	FD
Stopway lights (<i>specify runway</i>)	LS	Firefighting and rescue	FF
Taxiway centre line lights (<i>specify taxiway</i>)	LX	Fog dispersal system	FO
Taxiway edge lights (<i>specify taxiway</i>)	LY	Friction measuring device (<i>specify type</i>)	FB
Threshold lights (<i>specify runway</i>)	LT	Fuel availability	FU
Visual approach slope indicator system (<i>specify type and runway</i>)	LV	Ground movement control	FG
AGA		Helicopter alighting area/platform	FH
Movement and landing area (M)		Heliport	FP
		Landing direction indicator	FL
Aircraft stands (<i>specify</i>)	MP	Meteorological service (<i>specify type</i>)	FM
Apron	MN	Oils (<i>specify type</i>)	FJ
Bearing strength (<i>specify part of landing area or movement area</i>)	MB	Oxygen (<i>specify type</i>)	FE
Clearway (<i>specify runway</i>)	MC	Snow removal equipment	FS
Daylight markings (<i>specify threshold, centre line, etc.</i>)	MM	Transmissometer (<i>specify runway and, where applicable, designator(s) of transmissometer(s)</i>)	FT
Declared distances (<i>specify runway</i>)	MD	Wind direction indicator	FW
		ATM	
		Airspace organization (A)	
		Aerodrome traffic zone	AZ
		Air defence identification zone	AD

<i>Signification</i>	<i>Code</i>	<i>Signification</i>	<i>Code</i>
Area navigation route	AN	Noise operating restrictions	PN
ATS route (<i>specify</i>)	AR	Obstacle clearance altitude and height (<i>specify procedure</i>)	PO
Control area	AE	Radio failure procedure	PR
Control zone	AC	Standard instrument arrival (<i>specify route designator</i>)	PA
Flight information region	AF	Standard instrument departure (<i>specify route designator</i>)	PD
Minimum altitude (<i>specify en- route/crossing/safe</i>)	AA	Standard VFR arrival	PB
Minimum usable flight level	AL	Standard VFR departure	PE
Oceanic control area	AO	Transition altitude or transition level (<i>specify</i>)	PT
Reporting point (<i>specify name or coded designator</i>)	AP	VFR approach procedure	PK
Significant point	AX		
Terminal control area	AT	CNS	
Upper advisory area	AV	Communications and surveillance facilities (C)	
Upper control area	AH		
Upper flight information region	AU		
ATM		Air/ground facility (<i>specify service and frequency</i>)	CA
Air traffic and VOLMET services (S)		Automatic dependent surveillance — broadcast (<i>details</i>)	CB
		Automatic dependent surveillance — contract (<i>details</i>)	CC
Aerodrome control tower	ST	Controller-pilot data link communications (<i>details</i>)	CD
Aerodrome flight information service	SF	En-route surveillance radar	CE
Approach control service	SP	Ground controlled approach system	CG
Area control centre	SC	Precision approach radar (<i>specify runway</i>)	CP
ATS reporting office	SB	Secondary surveillance radar	CS
Automatic terminal information service	SA	Selective calling system	CL
Flight information service	SE	Surface movement radar	CM
Flight service station	SS	Surveillance radar element of precision approach radar system (<i>specify wavelength</i>)	CR
Flow control centre	SL	Terminal area surveillance radar	CT
Oceanic area control centre	SO		
Upper advisory service (<i>specify</i>)	SY	CNS	
Upper area control centre	SU	GNSS services (G)	
VOLMET broadcast	SV		
ATM		GNSS airfield-specific operations (<i>specify operation</i>)	GA
Air traffic procedures (P)		GNSS area-wide operations (<i>specify operation</i>)	GW
ADIZ procedure	PZ		
Aerodrome operating minima (<i>specify procedure and amended minimum</i>)	PM		
Contingency procedures	PC		
Flight plan processing, filing and related contingency	PL		
Flow control procedure	PF		
Holding procedure	PH		
Instrument approach procedure (<i>specify type and runway</i>)	PI		
Minimum holding altitude (<i>specify fix</i>)	PX		
Missed approach procedure (<i>specify runway</i>)	PU		

Signification	Code	Signification	Code
CNS		Overflying of . . . (<i>specify</i>)	RO
Instrument and microwave landing systems (I)		Prohibited area (<i>specify</i>)	RP
		Restricted area	RR
		Temporary restricted area (<i>specify area</i>)	RT
DME associated with ILS	ID	Navigation Warnings	
Glide path (ILS) (<i>specify runway</i>)	IG	Warnings (W)	
ILS Category I (<i>specify runway</i>)	IS		
ILS Category II (<i>specify runway</i>)	IT		
ILS Category III (<i>specify runway</i>)	IU		
Inner marker (ILS) (<i>specify runway</i>)	II	Aerial survey	WY
Instrument landing system (<i>specify runway</i>)	IC	Aerobatics	WB
Localizer (ILS) (<i>specify runway</i>)	IL	Air display	WA
Localizer (<i>not associated with ILS</i>)	IN	Air refuelling	WF
Locator, middle (ILS) (<i>specify runway</i>)	IY	Ascent of free balloon	WL
Locator, outer (ILS) (<i>specify runway</i>)	IX	Banner/target towing	WJ
Microwave landing system (<i>specify runway</i>)	IW	Blasting	WH
Middle marker (ILS) (<i>specify runway</i>)	IM	Burning or blowing gas	WS
Outer marker (ILS) (<i>specify runway</i>)	IO	Captive balloon or kite	WC
		Demolition of explosives	WD
CNS		Exercises (<i>specify</i>)	WE
Terminal and en-route navigation facilities (N)		Formation flight	WV
		Glider flying	WG
All radio navigation facilities (except . . .)	NA	Mass movement of aircraft	WT
DECCA	NC	Missile, gun or rocket firing	WM
Direction-finding station (<i>specify type and frequency</i>)	NX	Model flying	WZ
Distance measuring equipment	ND	Parachute jumping exercise, paragliding or hang gliding	WP
Fan marker	NF	Radioactive materials or toxic chemicals (<i>specify</i>)	WR
Locator (<i>specify identification</i>)	NL	Significant volcanic activity	WW
Non-directional radio beacon	NB	Unmanned aircraft	WU
OMEGA	NO		
VOR	NV	Other Information (O)	
VOR/DME	NM		
VORTAC	NT	Aeronautical information service	OA
TACAN	NN	Aircraft entry requirements	OE
		Obstacle (<i>specify details</i>)	OB
Navigation Warnings		Obstacle lights on . . . (<i>specify</i>)	OL
Airspace restrictions (R)		Rescue coordination centre	OR
Airspace reservation (<i>specify</i>)	RA		
Danger area (<i>specify</i>)	RD		
Military operating area	RM		

THE NOTAM CODE — ENCODE

FOURTH AND FIFTH LETTERS

<i>Signification</i>	<i>Code</i>	<i>Signification</i>	<i>Code</i>
Availability (A)		Hazard Conditions (H)	
Available for daylight operation	AD	Approach according to signal area only	HT
Available for night operation	AN	Bird migration in progress (<i>specify direction</i>)	HK
Available on request	AR	Braking action is . . .	HA
Available, prior permission required	AP	1) Poor	
Completely withdrawn	AW	2) Medium/Poor	
Flight checked and found reliable	AF	3) Medium	
Hours of service are now . . . (<i>specify</i>)	AH	4) Medium/Good	
Military operations only	AM	5) Good	
Not available (<i>specify reason if appropriate</i>)	AU	Concentration of birds	HX
Operating but ground checked only, awaiting flight check	AG	Covered by compacted snow to a depth of	HC
Operational	AO	Covered by dry snow to a depth of	HD
Operative (<i>or reoperative</i>) subject to previously published limitations/conditions	AL	Covered by frozen ruts and ridges	HZ
Previously promulgated shutdown has been cancelled	AX	Covered by ice	HI
Resumed normal operation	AK	Covered by water to a depth of	HE
Unserviceable	AS	Covered by wet snow or slush to a depth of	HN
Withdrawn for maintenance	AC	Friction coefficient is . . . (<i>specify friction measuring device used</i>)	HB
Changes (C)		Grass cutting in progress	HG
Activated	CA	Hazard due to (<i>specify</i>)	HH
Cancelled	CN	Launch in progress . . . (<i>specify balloon flight identification or project code name, launch site, date/time of launch(es), estimated time passing 18 000 m (60 000 ft), or reaching cruising level if at or below 18 000 m (60 000 ft), together with estimated location, estimated date/time of termination of the flight and planned location of ground contact, when applicable</i>)	HU
Changed	CH	Launch planned . . . (<i>specify balloon flight identification or project code name, launch site, planned period of launch(es) — date/time, expected climb direction, estimated time to pass 18 000 m (60 000 ft), or reaching cruising level if at or below 18 000 m (60 000 ft), together with estimated location</i>)	HJ
Completed	CC	Marked by	HM
Deactivated	CD	Obscured by snow	HO
Displaced	CM	Operation cancelled . . . (<i>specify balloon flight identification or project code name</i>)	HQ
Downgraded to	CG	Sanding in progress	HS
Erected	CE		
Identification or radio call sign changed to	CI		
Installed	CS		
On test, do not use	CT		
Operating	CO		
Operating frequency(ies) changed to	CF		
Operating on reduced power	CP		
Realigned	CL		
Temporarily replaced by	CR		

<i>Signification</i>	<i>Code</i>	<i>Signification</i>	<i>Code</i>
Snow banks exist (<i>specify height</i>)	HY	Operating as a fixed light	LK
Snow clearance completed	HL	Operating but caution advised due to	LX
Snow clearance in progress	HP	Operating on auxiliary power supply	LA
Standing water	HR	Operating without auxiliary power supply	LE
Totally free of snow and ice	HF	Operating without identification	LG
Work completed	HV	Prohibited to	LP
Work in progress	HW	Reserved for aircraft based therein	LB
		Subject to interruption	LS
Limitations (L)		Unsafe	LD
		Unserviceable for aircraft heavier than	LH
Aircraft restricted to runways and taxiways	LR	Usable for length of . . . and width of . . .	LL
Closed	LC	Will take place	LW
Closed to all night operations	LN		
Closed to IFR operations	LI	Other (XX)	
Closed to VFR operations	LV		
Interference from	LF	Plain language	XX
Limited to	LT		

— END —

