



ICAO

Doc 8400

PROCEDURES FOR AIR NAVIGATION SERVICES

# ICAO Abbreviations and Codes

Ninth Edition, 2016



This edition supersedes, on 10 November 2016, all previous editions of Doc 8400.

INTERNATIONAL CIVIL AVIATION ORGANIZATION





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## AMENDMENTS

Amendments are announced in the supplements to the *Products and Services Catalogue*; the Catalogue and its supplements are available on the ICAO website at [www.icao.int](http://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: 1.3.4 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, 5, 6 and 7 and Appendices 1, 2, 3, 5 and 6 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 Robert-Bourassa Boulevard, 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
Amendment 31	Seventh, eighth, ninth, tenth and eleventh meetings of the Instrument Flight Procedures Panel Working Group of the Whole (IFPP/WG WHL/7, 8, 9, 10 and 11)	Amendment concerning procedure design criteria and charting requirements to support helicopter point-in-space (PinS) approach and departure operations	7 March 2014 13 November 2014

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<i>Amendment</i>	<i>Source(s)</i>	<i>Subject(s)</i>	<i>Approved Applicable</i>
Ninth Edition (2016) (includes Amendment 32)	Fifty-fourth Meeting of the European Air Navigation Planning Group (EANPG/54); Meteorology (MET) Divisional Meeting (2014); fifth meeting of the Meteorological Warnings Study Group (METWSG/5); second meeting of the Operational Data Link Panel (OPLINKP/2); and the Secretariat.	Deletion of abbreviations not in common use; addition of new abbreviations consistent with common use in NOTAM associated with PBN implementation, AIM transition, meteorological warnings, PBCS and SATVOICE implementation; and consequential changes emanating from Amendment 77-A to Annex 3.	5 May 2016 10 November 2016

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## ABBREVIATIONS

### DECODE

<b>A</b>			
A	Amber	ADIZ†	(to be pronounced “AY-DIZ”) Air defence identification zone
AAA	(or AAB, AAC . . . etc., in sequence)	ADJ	Adjacent
	Amended meteorological message	ADO	Aerodrome office (specify service)
	(message type designator)	ADR	Advisory route
A/A	Air-to-air	ADS*	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)
AAD	Assigned altitude deviation		
AAR	Air to air refuelling	ADS-B‡	Automatic dependent surveillance — broadcast
AAIM	Aircraft autonomous integrity monitoring	ADS-C‡	Automatic dependent surveillance — contract
AAL	Above aerodrome level	ADSU	Automatic dependent surveillance unit
ABI	Advance boundary information	ADVS	Advisory service
ABM	Abeam	ADZ	Advise
ABN	Aerodrome beacon	AES	Aircraft earth station
ABT	About	AFIL	Flight plan filed in the air
ABV	Above	AFIS	Aerodrome flight information service
AC	Altocumulus	AFM	Yes or affirm or affirmative or that is correct
ACARS†	(to be pronounced “AY-CARS”) Aircraft communication addressing and reporting system	AFS	Aeronautical fixed service
ACAS†	(to be pronounced “AY-CAS”) Airborne collision avoidance system	AFT . . .	After (followed by time or place)
ACC‡	Area control centre or area control	AFTN‡	Aeronautical fixed telecommunication network
ACCID	Notification of an aircraft accident	A/G	Air-to-ground
ACFT	Aircraft	AGA	Aerodromes, air routes and ground aids
ACK	Acknowledge	AGL	Above ground level
ACL	Altimeter check location	AGN	Again
ACN	Aircraft classification number	AIC	Aeronautical information circular
ACP	Acceptance (message type designator)	AIDC	Air traffic services interfacility data communications
ACPT	Accept or accepted	AIM	Aeronautical information management
ACT	Active or activated or activity	AIP	Aeronautical information publication
AD	Aerodrome	AIRAC	Aeronautical information regulation and control
ADA	Advisory area	AIREP†	Air-report
ADC	Aerodrome chart		
ADDN	Addition or additional		
ADF‡	Automatic direction-finding equipment		

† 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.

AIRMET†	Information concerning en-route weather phenomena which may affect the safety of low-level aircraft operations	APV	Approach procedure with vertical guidance
AIS	Aeronautical information services	ARC	Area chart
ALA	Alighting area	ARNG	Arrange
ALERFA†	Alert phase	ARO	Air traffic services reporting office
ALR	Alerting ( <i>message type designator</i> )	ARP	Aerodrome reference point
ALRS	Alerting service	ARP	Air-report ( <i>message type designator</i> )
ALS	Approach lighting system	ARQ	Automatic error correction
ALT	Altitude	ARR	Arrival ( <i>message type designator</i> )
ALTN	Alternate <i>or</i> alternating ( <i>light alternates in colour</i> )	ARR	Arrive <i>or</i> arrival
		ARS	Special air-report ( <i>message type designator</i> )
ALTN	Alternate ( <i>aerodrome</i> )	ARST	Arresting ( <i>specify (part of) aircraft arresting equipment</i> )
AMA	Area minimum altitude	AS	Altostratus
AMD	Amend <i>or</i> amended ( <i>used to indicate amended meteorological message; message type designator</i> )	ASAP	As soon as possible
		ASC	Ascend to <i>or</i> ascending to
AMDT	Amendment ( <i>AIP Amendment</i> )	ASDA	Accelerate-stop distance available
AMS	Aeronautical mobile service	ASE	Altimetry system error
AMSL	Above mean sea level	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
AMSS	Aeronautical mobile satellite service		
ANC . . .	Aeronautical chart — 1:500 000 ( <i>followed by name/title</i> )	ASPH	Asphalt
ANCS . . .	Aeronautical navigation chart — small scale ( <i>followed by name/title and scale</i> )	AT . . .	At ( <i>followed by time at which weather change is forecast to occur</i> )
ANS	Answer	ATA‡	Actual time of arrival
AO	Aircraft operator	ATC‡	Air traffic control ( <i>in general</i> )
AOC . . .	Aerodrome obstacle chart ( <i>followed by type and name/title</i> )	ATCSMAC. . .	Air traffic control surveillance minimum altitude chart ( <i>followed by name/title</i> )
AP	Airport		
APAPI†	( <i>to be pronounced “AY-PAPI”</i> ) Abbreviated precision approach path indicator	ATD‡	Actual time of departure
APCH	Approach	ATFM	Air traffic flow management
APDC . . .	Aircraft parking/docking chart ( <i>followed by name/title</i> )	ATIS†	( <i>to be pronounced “AY-TIS”</i> ) Automatic terminal information service
APN	Apron	ATM	Air traffic management
APP	Approach control office <i>or</i> approach control <i>or</i> approach control service	ATN	Aeronautical telecommunication network
APR	April	ATP . . .	At ( <i>followed by time or place</i> )
APRX	Approximate <i>or</i> approximately	ATS	Air traffic services
APSG	After passing	ATTN	Attention
APU	Auxiliary power unit		

† 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.

AT-VASIS†	(to be pronounced “AY-TEE-VASIS”) Abbreviated T visual approach slope indicator system	BTL	Between layers
		BTN	Between
ATZ	Aerodrome traffic zone	BUFR	Binary universal form for the representation of meteorological data
AUG	August		
AUTH	Authorized <i>or</i> authorization		
AUTO	Automatic		
AUW	All up weight		
AUX	Auxiliary		
AVBL	Available <i>or</i> availability		
AVG	Average		
AVGAS†	Aviation gasoline		
AWOS	Automated weather observation system		
AWTA	Advise at what time able		
AWY	Airway		
AZM	Azimuth		
<b>B</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
		<b>C</b>	
		. . . 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
		CAA	Civil aviation authority <i>or</i> civil aviation administration
		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	( <i>or CCB, CCC . . . etc., in sequence</i> ) Corrected meteorological message ( <i>message type designator</i> )
		CCO	Continuous climb operations
		CD	Candela
		CDN	Coordination ( <i>message type designator</i> )
		CDO	Continuous descent operations
		CDR	Conditional route
		CF	Change frequency to . . .
		CF	Course to a fix
		CFM*	Confirm <i>or</i> 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> )

† 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.

CHEM	Chemical	CRM	Collision risk model
CHG	Modification ( <i>message type designator</i> )	CRP	Compulsory reporting point
CI	Cirrus	CRZ	Cruise
CIDIN†	Common ICAO data interchange network	CS	Call sign
CIV	Civil	CS	Cirrostratus
CK	Check	CTA	Control area
CL	Centre line	CTAM	Climb to and maintain
CLA	Clear type of ice formation	CTC	Contact
CLBR	Calibration	CTL	Control
CLD	Cloud	CTN	Caution
CLG	Calling	CTR	Control zone
CLIMB-OUT	Climb-out area	CU	Cumulus
CLR	Clear(s) <i>or</i> cleared to . . . <i>or</i> clearance	CUF	Cumuliform
CLRD	Runway(s) cleared ( <i>used in METAR/SPECI</i> )	CUST	Customs
CLSD	Close <i>or</i> closed <i>or</i> closing	CVR	Cockpit voice recorder
CM	Centimetre	CW	Continuous wave
CMB	Climb to <i>or</i> climbing to	CWY	Clearway
CMPL	Completion <i>or</i> completed <i>or</i> complete		
CNL	Cancel <i>or</i> cancelled	<b>D</b>	
CNL	Flight plan cancellation ( <i>message type designator</i> )	D	Downward ( <i>tendency in RVR during previous 10 minutes</i> )
CNS	Communications, navigation and surveillance	D . . .	Danger area ( <i>followed by identification</i> )
COM	Communications	DA	Decision altitude
CONC	Concrete	D-ATIS†	( <i>to be pronounced “DEE-ATIS”</i> ) Data link automatic terminal information service
COND	Condition		
CONS	Continuous	DCD	Double channel duplex
CONST	Construction <i>or</i> constructed	DCKG	Docking
CONT	Continue(s) <i>or</i> continued	DCP	Datum crossing point
COOR	Coordinate <i>or</i> coordination	DCPC	Direct controller-pilot communications
COORD	Coordinates	DCS	Double channel simplex
COP	Change-over point	DCT	Direct ( <i>in relation to flight plan clearances and type of approach</i> )
COR	Correct <i>or</i> correction <i>or</i> corrected ( <i>used to indicate corrected meteorological message; message type designator</i> )	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> )
COT	At the coast		
COV	Cover <i>or</i> covered <i>or</i> covering	DEC	December
CPDLC‡	Controller-pilot data link communications	DEG	Degrees
CPL	Current flight plan ( <i>message type designator</i> )	DEP	Depart <i>or</i> departure
CRC	Cyclic redundancy check	DEP	Departure ( <i>message type designator</i> )
		DEPO	Deposition
		DER	Departure end of the runway

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# Signal for use in the teletypewriter service only.

DES	Descend to <i>or</i> descending to	<b>E</b>	
DEST	Destination	E	East <i>or</i> eastern longitude
DETRESFA†	Distress phase	EAT	Expected approach time
DEV	Deviation <i>or</i> deviating	EB	Eastbound
DF	Direction finding	EDA	Elevation differential area
DFDR	Digital flight data recorder	EDTO	Extended diversion time operations
DFTI	Distance from touchdown indicator	EEE#	Error ( <i>to be used in AFS as a procedure signal</i> )
DH	Decision height	EET	Estimated elapsed time
DIF	Diffuse	EFC	Expect further clearance
DIST	Distance	EFIS†	( <i>to be pronounced “EE-FIS”</i> )
DIV	Divert <i>or</i> diverting		Electronic flight instrument system
DLA	Delay <i>or</i> delayed	EGNOS†	( <i>to be pronounced “EGG-NOS”</i> )
DLA	Delay ( <i>message type designator</i> )		European geostationary navigation overlay service
DLIC	Data link initiation capability	EHF	Extremely high frequency [30 000 to 300 000 MHz]
DLY	Daily	ELBA†	Emergency location beacon — aircraft
DME‡	Distance measuring equipment	ELEV	Elevation
DNG	Danger <i>or</i> dangerous	ELR	Extra long range
DOF	Date of flight	ELT	Emergency locator transmitter
DOM	Domestic	EM	Emission
DP	Dew point temperature	EMBD	Embedded in a layer ( <i>to indicate cumulonimbus embedded in layers of other clouds</i> )
DPT	Depth	EMERG	Emergency
DR	Dead reckoning	END	Stop-end ( <i>related to RVR</i> )
DR . . .	Low drifting ( <i>followed by DU = dust, SA = sand or SN = snow</i> )	ENE	East-north-east
DRG	During	ENG	Engine
DS	Duststorm	ENR	En route
DSB	Double sideband	ENRC . . .	Enroute chart ( <i>followed by name/title</i> )
DTAM	Descend to and maintain	EOBT	Estimated off-block time
DTG	Date-time group	EQPT	Equipment
DTHR	Displaced runway threshold	ESE	East-south-east
DTRT	Deteriorate <i>or</i> deteriorating	EST	Estimate <i>or</i> estimated <i>or</i> estimation ( <i>message type designator</i> )
DTW	Dual tandem wheels	ETA*‡	Estimated time of arrival <i>or</i> estimating arrival
DU	Dust	ETD‡	Estimated time of departure <i>or</i> estimating departure
DUC	Dense upper cloud	ETO	Estimated time over significant point
DUPE#	This is a duplicate message ( <i>to be used in AFS as a procedure signal</i> )	EUR RODEX	European regional OPMET data exchange
DUR	Duration	EV	Every
D-VOLMET	Data link VOLMET	EVS	Enhanced vision system
DVOR	Doppler VOR		
DW	Dual wheels		
DZ	Drizzle		

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# Signal for use in the teletypewriter service only.

EXC	Except	FM	From
EXER	Exercises <i>or</i> exercising <i>or</i> to exercise	FM . . .	From ( <i>followed by time at which weather change is forecast to begin</i> )
EXP	Expect <i>or</i> expected <i>or</i> expecting	FMC	Flight management computer
EXTD	Extend <i>or</i> extending <i>or</i> extended	FMS‡	Flight management system
<b>F</b>		FMU	Flow management unit
F	Fixed	FNA	Final approach
FA	Course from a fix to an altitude	FPAP	Flight path alignment point
FAC	Facilities	FPL	Flight plan
FAF	Final approach fix	FPM	Feet per minute
FAL	Facilitation of international air transport	FPR	Flight plan route
FAP	Final approach point	FR	Fuel remaining
FAS	Final approach segment	FREQ	Frequency
FATO	Final approach and take-off area	FRI	Friday
FAX	Facsimile transmission	FRNG	Firing
FBL	Light ( <i>used to indicate the intensity of weather phenomena, interference or static reports, e.g. FBL RA = light rain</i> )	FRONT†	Front ( <i>relating to weather</i> )
FC	Funnel cloud ( <i>tornado or waterspout</i> )	FROST†	Frost ( <i>used in aerodrome warnings</i> )
FCST	Forecast	FRQ	Frequent
FCT	Friction coefficient	FSL	Full stop landing
FDPS	Flight data processing system	FSS	Flight service station
FEB	February	FST	First
FEW	Few	FT	Feet ( <i>dimensional unit</i> )
FG	Fog	FTE	Flight technical error
FIC	Flight information centre	FTP	Fictitious threshold point
FIR‡	Flight information region	FTT	Flight technical tolerance
FIS	Flight information service	FU	Smoke
FISA	Automated flight information service	FZ	Freezing
FL	Flight level	FZDZ	Freezing drizzle
FLD	Field	FZFG	Freezing fog
FLG	Flashing	FZRA	Freezing rain
FLR	Flares	<b>G</b>	
FLT	Flight	G	Green
FLTCK	Flight check	G . . .	Variations from the mean wind speed ( <i>gusts</i> ) ( <i>followed by figures in METAR/SPECI and TAF</i> )
FLUC	Fluctuating <i>or</i> fluctuation <i>or</i> fluctuated	GA	General aviation
FLW	Follow(s) <i>or</i> following	GA	Go ahead, resume sending ( <i>to be used in AFS as a procedure signal</i> )
FLY	Fly <i>or</i> flying	G/A	Ground-to-air
FM	Course from a fix to manual termination ( <i>used in navigation database coding</i> )	G/A/G	Ground-to-air and air-to-ground
		GAGAN†	GPS and geostationary earth orbit augmented navigation

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# Signal for use in the teletypewriter service only.

GAIN	Airspeed or headwind gain
GAMET	Area forecast for low-level flights
GARP	GBAS azimuth reference point
GBAS†	(to be pronounced “GEE-BAS”) Ground-based augmentation system
GCA‡	Ground controlled approach system <i>or</i> ground controlled approach
GEN	General
GEO	Geographic <i>or</i> true
GES	Ground earth station
GLD	Glider
GLONASS†	(to be pronounced “GLO-NAS”) Global orbiting navigation satellite system
GLS‡	GBAS landing system
GMC . . .	Ground movement chart ( <i>followed by name/title</i> )
GND	Ground
GNDCK	Ground check
GNSS‡	Global navigation satellite system
GOV	Government
GP	Glide path
GPA	Glide path angle
GPIP	Glide path intercept point
GPS‡	Global positioning system
GPU	Ground power unit
GPWS‡	Ground proximity warning system
GR	Hail
GRAS†	(to be pronounced “GRASS”) Ground-based regional augmentation system
GRASS	Grass landing area
GRIB	Processed meteorological data in the form of grid point values expressed in binary form ( <i>in meteorological code</i> )
GRVL	Gravel
GS	Ground speed
GS	Small hail and/or snow pellets
GUND	Geoid undulation

**H**

H	High pressure area <i>or</i> the centre of high pressure
H . . .	Significant wave height ( <i>followed by figures in METAR/SPECI</i> )
H24	Continuous day and night service
HA	Holding/racetrack to an altitude
HAPI	Helicopter approach path indicator
HBN	Hazard beacon
HCH	Heliport crossing height
HDF	High frequency direction-finding station
HDG	Heading
HEL	Helicopter
HF	Holding/racetrack to a fix
HF‡	High frequency [3 000 to 30 000 kHz]
HGT	Height <i>or</i> height above
HJ	Sunrise to sunset
HLDG	Holding
HLP	Heliport
HLS	Helicopter landing site
HM	Holding/racetrack to a manual termination
HN	Sunset to sunrise
HO	Service available to meet operational requirements
HOL	Holiday
HOSP	Hospital aircraft
HPA	Hectopascal
HR	Hours
HRP	Heliport reference point
HS	Service available during hours of scheduled operations
HUD	Head-up display
HUM	Humanitarian
HURCN	Hurricane
HVDF	High and very high frequency direction-finding stations ( <i>at the same location</i> )
HVY	Heavy
HVY	Heavy ( <i>used to indicate the intensity of weather phenomena, e.g. HVY RA = heavy rain</i> )
HX	No specific working hours
HYR	Higher
HZ	Haze
HZ	Hertz ( <i>cycle per second</i> )

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# Signal for use in the teletypewriter service only.

<b>I</b>		ISA	International standard atmosphere
IAC . . .	Instrument approach chart ( <i>followed by name/title</i> )	ISB	Independent sideband
IAF	Initial approach fix	ISOL	Isolated
IAO	In and out of clouds	<b>J</b>	
IAP	Instrument approach procedure	JAN	January
IAR	Intersection of air routes	JTST	Jet stream
IAS	Indicated airspeed	JUL	July
IBN	Identification beacon	JUN	June
ICAO	International Civil Aviation Organization	<b>K</b>	
ICE	Icing	KG	Kilograms
ID	Identifier <i>or</i> identify	KHZ	Kilohertz
IDENT†	Identification	KIAS	Knots indicated airspeed
IF	Intermediate approach fix	KM	Kilometres
IFF	Identification friend/foe	KMH	Kilometres per hour
IFR‡	Instrument flight rules	KPA	Kilopascal
IGA	International general aviation	KT	Knots
ILS‡	Instrument landing system	KW	Kilowatts
IM	Inner marker	<b>L</b>	
IMC‡	Instrument meteorological conditions	. . . L	Left ( <i>preceded by runway designation number to identify a parallel runway</i> )
IMI*	Interrogation sign (question mark) ( <i>to be used in AFS as a procedure signal</i> )	L	Litre
IMPR	Improve <i>or</i> improving	L	Locator
IMT	Immediate <i>or</i> immediately	L	Low pressure area <i>or</i> the centre of low pressure
INA	Initial approach	LAM	Logical acknowledgement ( <i>message type designator</i> )
INBD	Inbound	LAN	Inland
INC	In cloud	LAT	Latitude
INCERFA†	Uncertainty phase	LCA	Local <i>or</i> locally <i>or</i> location <i>or</i> located
INCORP	Incorporated	LDA	Landing distance available
INFO†	Information	LDAH	Landing distance available, helicopter
INOP	Inoperative	LDG	Landing
INP	If not possible	LDI	Landing direction indicator
INPR	In progress	LEN	Length
INS	Inertial navigation system	LF	Low frequency [30 to 300 kHz]
INSTL	Install <i>or</i> installed <i>or</i> installation	LGT	Light <i>or</i> lighting
INSTR	Instrument	LGTD	Lighted
INT	Intersection		
INTL	International		
INTRG	Interrogator		
INTRP	Interrupt <i>or</i> interruption <i>or</i> interrupted		
INTSF	Intensify <i>or</i> intensifying		
INTST	Intensity		
IR	Ice on runway		
IRS	Inertial reference system		

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# Signal for use in the teletypewriter service only.



LIH	Light intensity high	MAP	Aeronautical maps and charts
LIL	Light intensity low	MAPT	Missed approach point
LIM	Light intensity medium	MAR	At sea
LINE	Line ( <i>used in SIGMET</i> )	MAR	March
LM	Locator, middle	MATF	Missed approach turning fix
LMT	Local mean time	MATZ	Military aerodrome traffic zone
LNAV†	( <i>to be pronounced “EL-NAV”</i> ) Lateral navigation	MAX	Maximum
LNG	Long ( <i>used to indicate the type of approach desired or required</i> )	MAY	May
LO	Locator, outer	MBST	Microburst
LOC	Localizer	MCA	Minimum crossing altitude
LONG	Longitude	MCTR	Military control zone
LORAN‡	LORAN ( <i>long range air navigation system</i> )	MCW	Modulated continuous wave
LOSS	Airspeed or headwind loss	MDA	Minimum descent altitude
LPV	Localizer performance with vertical guidance	MDF	Medium frequency direction-finding station
LR	Last message received by me was . . . ( <i>to be used in AFS as a procedure signal</i> )	MDH	Minimum descent height
LRG	Long range	MEA	Minimum en-route altitude
LS	Last message sent by me was . . . or Last message was . . . ( <i>to be used in AFS as a procedure signal</i> )	MEDEVAC	Medical evacuation flight
LTA	Lower control area	MEHT	Minimum eye height over threshold ( <i>for visual approach slope indicator systems</i> )
LTD	Limited	MET†	Meteorological or meteorology
LTP	Landing threshold point	METAR‡	Aerodrome routine meteorological report ( <i>in meteorological code</i> )
LV	Light and variable ( <i>relating to wind</i> )	MET	
LVE	Leave or leaving	REPORT	Local routine meteorological report ( <i>in abbreviated plain language</i> )
LVL	Level	MF	Medium frequency [300 to 3 000 kHz]
LVP	Low visibility procedures	MHA	Minimum holding altitude
LYR	Layer or layered	MHDF	Medium and high frequency direction-finding stations ( <i>at the same location</i> )
<b>M</b>		MHVDF	Medium, high and very high frequency direction-finding stations ( <i>at the same location</i> )
. . . M	Metres ( <i>preceded by figures</i> )	MHZ	Megahertz
M . . .	Mach number ( <i>followed by figures</i> )	MID	Mid-point ( <i>related to RVR</i> )
M . . .	Minimum value of runway visual range ( <i>followed by figures in METAR/SPECI</i> )	MIFG	Shallow fog
MAA	Maximum authorized altitude	MIL	Military
MAG	Magnetic	MIN*	Minutes
MAHF	Missed approach holding fix	MIS	Missing . . . ( <i>transmission identification to be used in AFS as a procedure signal</i> )
MAINT	Maintenance	MKR	Marker radio beacon
		MLS‡	Microwave landing system
		MM	Middle marker
		MNM	Minimum

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MNPS	Minimum navigation performance specifications	N	
MNT	Monitor <i>or</i> monitoring <i>or</i> monitored	N	No distinct tendency ( <i>in RVR during previous 10 minutes</i> )
MNTN	Maintain	N	North <i>or</i> northern latitude
MOA	Military operating area	NADP	Noise abatement departure procedure
MOC	Minimum obstacle clearance ( <i>required</i> )	NASC†	National AIS system centre
MOCA	Minimum obstacle clearance altitude	NAT	North Atlantic
MOD	Moderate ( <i>used to indicate the intensity of weather phenomena, interference or static reports, e.g. MODRA = moderate rain</i> )	NAV	Navigation
MON	Above mountains	NAVAID	Navigation aid
MON	Monday	NB	Northbound
MOPS†	Minimum operational performance standards	NBFR	Not before
MOV	Move <i>or</i> moving <i>or</i> movement	NC	No change
MPS	Metres per second	NCD	No cloud detected ( <i>used in automated METAR/SPECI</i> )
MRA	Minimum reception altitude	NDB‡	Non-directional radio beacon
MRG	Medium range	NDV	No directional variations available ( <i>used in automated METAR/SPECI</i> )
MRP	ATS/MET reporting point	NE	North-east
MS	Minus	NEB	North-eastbound
MSA	Minimum sector altitude	NEG	No <i>or</i> negative <i>or</i> permission not granted <i>or</i> that is not correct
MSAS†	( <i>to be pronounced "EM-SAS"</i> ) Multi-functional transport satellite (MTSAT) satellite-based augmentation system	NGT	Night
MSAW	Minimum safe altitude warning	NIL*†	None <i>or</i> I have nothing to send to you
MSG	Message	NM	Nautical miles
MSL	Mean sea level	NML	Normal
MSR#	Message . . . ( <i>transmission identification</i> ) has been misrouted ( <i>to be used in AFS as a procedure signal</i> )	NN	No name, unnamed
MSSR	Monopulse secondary surveillance radar	NNE	North-north-east
MT	Mountain	NNW	North-north-west
MTOM	Maximum take-off mass	NO	No (negative) ( <i>to be used in AFS as a procedure signal</i> )
MTU	Metric units	NOF	International NOTAM office
MTW	Mountain waves	NONSTD	Non-standard
MVDF	Medium and very high frequency direction-finding stations ( <i>at the same location</i> )	NOSIG†	No significant change ( <i>used in trend-type landing forecasts</i> )
MWO	Meteorological watch office	NOTAM†	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
MX	Mixed type of ice formation ( <i>white and clear</i> )	NOTAMC	Cancelling NOTAM
		NOTAMN	New NOTAM

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# Signal for use in the teletypewriter service only.

NOTAMR	Replacing NOTAM
NOV	November
NOZ‡	Normal operating zone
NPA	Non-precision approach
NR	Number
NRH	No reply heard
NS	Nimbostratus
NSC	Nil significant cloud
NSE	Navigation system error
NSW	Nil significant weather
NTL	National
NTZ‡	No transgression zone
NW	North-west
NWB	North-westbound
NXT	Next
<b>O</b>	
OAC	Oceanic area control centre
OAS	Obstacle assessment surface
OBS	Observe <i>or</i> observed <i>or</i> observation
OBSC	Obscure <i>or</i> obscured <i>or</i> obscuring
OBST	Obstacle
OCA	Obstacle clearance altitude
OCA	Oceanic control area
OCC	Occulting ( <i>light</i> )
OCH	Obstacle clearance height
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> )
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)
PBC	Performance-based communication
PBN	Performance-based navigation
PBS	Performance-based surveillance
PCD	Proceed <i>or</i> proceeding
PCL	Pilot-controlled lighting
PCN	Pavement classification number
PCT	Per cent
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
PLVL	Present level
PN	Prior notice required
PNR	Point of no return
PO	Dust/sand whirls ( <i>dust devils</i> )
POB	Persons on board

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# Signal for use in the teletypewriter service only.

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
PROP	Propeller
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**

QDL	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) (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>
QNH‡	Altimeter sub-scale setting to obtain elevation when on the ground
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>

QTA	Shall I cancel telegram number . . . ? <i>or</i> Cancel telegram number . . . <i>(to be used in AFS as a Q Code)</i>
QTE	True bearing
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>
QUAD	Quadrant
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>

**R**

. . . R	Right <i>(preceded by runway designation number to identify a parallel runway)</i>
R	Rate of turn
R	Red
R . . .	Radial from VOR <i>(followed by three figures)</i>
R . . .	Restricted area <i>(followed by identification)</i>
R . . .	Runway <i>(followed by figures in METAR/SPECI)</i>
R*	Received <i>(acknowledgement of receipt) (to be used in AFS as a procedure signal)</i>
RA	Rain
RA	Resolution advisory
RAC	Rules of the air and air traffic services
RAG	Ragged
RAG	Runway arresting gear
RAI	Runway alignment indicator
RAIM†	Receiver autonomous integrity monitoring
RASC†	Regional AIS system centre
RASS	Remote altimeter setting source
RB	Rescue boat
RCA	Reach cruising altitude
RCC	Rescue coordination centre

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# Signal for use in the teletypewriter service only.

RCF	Radiocommunication failure ( <i>message type designator</i> )	RPLC	Replace or replaced
RCH	Reach or reaching	RPS	Radar position symbol
RCL	Runway centre line	RPT*	Repeat or I repeat ( <i>to be used in AFS as a procedure signal</i> )
RCLL	Runway centre line light(s)	RQ*	Request ( <i>to be used in AFS as a procedure signal</i> )
RCLR	Recleared	RQMNTS	Requirements
RCP‡	Required communication performance	RQP	Request flight plan ( <i>message type designator</i> )
RDH	Reference datum height	RQS	Request supplementary flight plan ( <i>message type designator</i> )
RDL	Radial	RR	Report reaching
RDO	Radio	RRA	(or RRB, RRC . . . etc., in sequence) Delayed meteorological message ( <i>message type designator</i> )
RDOACT	Radioactive	RSC	Rescue sub-centre
RE	Recent ( <i>used to qualify weather phenomena, e.g. RERA = recent rain</i> )	RSCD	Runway surface condition
REC	Receive or receiver	RSP	Responder beacon
REDL	Runway edge light(s)	RSP‡	Required surveillance performance
REF	Reference to . . . or refer to . . .	RSR	En-route surveillance radar
REG	Registration	RSS	Root sum square
RENL	Runway end light(s)	RTD	Delayed ( <i>used to indicate delayed meteorological message; message type designator</i> )
REP	Report or reporting or reporting point	RTE	Route
REQ	Request or requested	RTF	Radiotelephone
RERTE	Re-route	RTG	Radiotelegraph
RESA	Runway end safety area	RTHL	Runway threshold light(s)
RF	Constant radius arc to a fix	RTN	Return or returned or returning
RFFS	Rescue and fire fighting services	RTODAH	Rejected take-off distance available, helicopter
RG	Range ( <i>lights</i> )	RTS	Return to service
RHC	Right-hand circuit	RTT	Radioteletypewriter
RIF	Reclearance in flight	RTZL	Runway touchdown zone light(s)
RIME†	Rime ( <i>used in aerodrome warnings</i> )	RUT	Standard regional route transmitting frequencies
RL	Report leaving	RV	Rescue vessel
RLA	Relay to	RVA	Radar vectoring area
RLCE	Request level change en route	RVR‡	Runway visual range
RLLS	Runway lead-in lighting system	RVSM‡	Reduced vertical separation minimum [300 m (1 000 ft) between FL 290 and FL 410]
RLNA	Requested level not available	RWY	Runway
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		
RPI‡	Radar position indicator		
RPL	Repetitive flight plan		

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# Signal for use in the teletypewriter service only.

**S**

S	South <i>or</i> southern latitude
S . . .	State of the sea ( <i>followed by figures in METAR/SPECI</i> )
SA	Sand
SALS	Simple approach lighting system
SAN	Sanitary
SAR	Search and rescue
SARPS	Standards and Recommended Practices [ICAO]
SAT	Saturday
SATCOM†	Satellite communication ( <i>used only when referring generally to both voice and data satellite communication or only data satellite communication</i> )
SATVOICE†	Satellite voice communication
SB	Southbound
SBAS†	( <i>to be pronounced “ESS-BAS”</i> ) Satellite-based augmentation system
SC	Stratocumulus
SCT	Scattered
SD	Standard deviation
SDBY	Stand by
SDF	Step down fix
SE	South-east
SEA	Sea ( <i>used in connection with sea-surface temperature and state of the sea</i> )
SEB	South-eastbound
SEC	Seconds
SECN	Section
SECT	Sector
SELCAL†	Selective calling system
SEP	September
SER	Service <i>or</i> servicing <i>or</i> served
SEV	Severe ( <i>used to qualify icing and turbulence reports</i> )
SFC	Surface
SG	Snow grains
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
SIF	Selective identification feature
SIG	Significant
SIGMET†	Information concerning en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations
SIMUL	Simultaneous <i>or</i> simultaneously
SIWL	Single isolated wheel load
SKED	Schedule <i>or</i> scheduled
SLP	Speed limiting point
SLW	Slow
SMC	Surface movement control
SMR	Surface movement radar
SN	Snow
SNOCLO	Aerodrome closed due to snow ( <i>used in METAR/SPECI</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
SOC	Start of climb
SPECI†	Aerodrome special meteorological report ( <i>in meteorological code</i> )
SPECIAL†	Local special meteorological report ( <i>in abbreviated plain language</i> )
SPI	Special position indicator
SPL	Supplementary flight plan ( <i>message type designator</i> )
SPOC	SAR point of contact
SPOT†	Spot wind
SQ	Squall
SQL	Squall line
SR	Sunrise
SRA	Surveillance radar approach
SRE	Surveillance radar element of precision approach radar system
SRG	Short range
SRR	Search and rescue region
SRY	Secondary
SS	Sandstorm

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# Signal for use in the teletypewriter service only.

SS	Sunset	TCAS RA†	(to be pronounced “TEE-CAS-AR-AY”) Traffic alert and collision avoidance system resolution advisory
SSB	Single sideband	TCH	Threshold crossing height
SSE	South-south-east	TCU	Towering cumulus
SSR‡	Secondary surveillance radar	TDO	Tornado
SST	Supersonic transport	TDZ	Touchdown zone
SSW	South-south-west	TECR	Technical reason
ST	Stratus	TEL	Telephone
STA	Straight-in approach	TEMPO†	Temporary <i>or</i> temporarily
STAR†	Standard instrument arrival	TF	Track to fix
STD	Standard	TFC	Traffic
STF	Stratiform	TGL	Touch-and-go landing
STN	Station	TGS	Taxiing guidance system
STNR	Stationary	THR	Threshold
STOL	Short take-off and landing	THRU	Through
STS	Status	THU	Thursday
STWL	Stopway light(s)	TIBA†	Traffic information broadcast by aircraft
SUBJ	Subject to	TIL†	Until
SUN	Sunday	TIP. . .	Until past (followed by place)
SUP	Supplement ( <i>AIP Supplement</i> )	TKOF	Take-off
SUPPS	Regional supplementary procedures	TL . . .	Till (followed by time by which weather change is forecast to end)
SVC	Service ( <i>message type only</i> )	TLOF	Touchdown and lift-off area
SVCBL	Serviceable	TMA‡	Terminal control area
SW	South-west	TN . . .	Minimum temperature (followed by figures in TAF)
SWB	South-westbound	TNA	Turn altitude
SWY	Stopway	TNH	Turn height
<b>T</b>		TO . . .	To (followed by place)
T	Temperature	TOC	Top of climb
. . . T	True (preceded by a bearing to indicate reference to True North)	TODA	Take-off distance available
TA	Traffic advisory	TODAH	Take-off distance available, helicopter
TA	Transition altitude	TOP†	Cloud top
TAA	Terminal arrival altitude	TORA	Take-off run available
TACAN†	UHF tactical air navigation aid	TOX	Toxic
TAF†	Aerodrome forecast ( <i>in meteorological code</i> )	TP	Turning point
TA/H	Turn at an altitude/height	TR	Track
TAIL†	Tail wind	TRA	Temporary reserved airspace
TAR	Terminal area surveillance radar	TRANS	Transmits <i>or</i> transmitter
TAS	True airspeed	TREND†	Trend forecast
TAX	Taxiing <i>or</i> taxi	TRG	Training
TC	Tropical cyclone	TRL	Transition level
TCAC	Tropical cyclone advisory centre	TROP	Tropopause

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# Signal for use in the teletypewriter service only.

TS	Thunderstorm ( <i>in aerodrome reports and forecasts, TS used alone means thunder heard but no precipitation at the aerodrome</i> )	UIC	Upper information centre
TS . . .	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> )	UIR‡	Upper flight information region
TSUNAMI†	Tsunami ( <i>used in aerodrome warnings</i> )	ULM	Ultra light motorized aircraft
TT	Teletypewriter	ULR	Ultra long range
TUE	Tuesday	UNA	Unable
TURB	Turbulence	UNAP	Unable to approve
T-VASIS†	( <i>to be pronounced “TEE-VASIS”</i> ) T visual approach slope indicator system	UNL	Unlimited
TVOR	Terminal VOR	UNREL	Unreliable
TWR	Aerodrome control tower <i>or</i> aerodrome control	UP	Unidentified precipitation ( <i>used in automated METAR/SPECI</i> )
TWY	Taxiway	U/S	Unserviceable
TX . . .	Maximum temperature ( <i>followed by figures in TAF</i> )	UTA	Upper control area
TXL	Taxilane	UTC‡	Coordinated Universal Time
TXT*	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> )	<b>V</b>	
TYP	Type of aircraft	. . . V . . .	Variations from the mean wind direction ( <i>preceded and followed by figures in METAR/SPECI, e.g. 350V070</i> )
TYPH	Typhoon	VA	Heading to an altitude
<b>U</b>		VA	Volcanic ash
U	Upward ( <i>tendency in RVR during previous 10 minutes</i> )	VAAC	Volcanic ash advisory centre
UA	Unmanned aircraft	VAC . . .	Visual approach chart ( <i>followed by name/title</i> )
UAB	Until advised by . . .	VAL	In valleys
UAC	Upper area control centre	VAN	Runway control van
UAR	Upper air route	VAR	Magnetic variation
UAS	Unmanned aircraft system	VAR	Visual-aural radio range
UDF	Ultra high frequency direction-finding station	VASIS	Visual approach slope indicator systems
UFN	Until further notice	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> )
UHDT	Unable higher due traffic	VCY	Vicinity
UHF‡	Ultra high frequency [300 to 3 000 MHz]	VDF	Very high frequency direction-finding station
		VER	Vertical
		VFR‡	Visual flight rules
		VHF‡	Very high frequency [30 to 300 MHz]
		VI	Heading to an intercept
		VIP‡	Very important person

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# Signal for use in the teletypewriter service only.



VIS	Visibility
VLF	Very low frequency [3 to 30 kHz]
VLR	Very long range
VM	Heading to a manual termination
VMC‡	Visual meteorological conditions
VNAV†	( <i>to be pronounced “VEE-NAV”</i> ) Vertical navigation
VOL . . .	Volume ( <i>followed by I, II . . .</i> )
VOLMET†	Meteorological information for aircraft in flight
VOR‡	VHF omnidirectional radio range
VORTAC†	VOR and TACAN combination
VOT	VOR airborne equipment test facility
VPA	Vertical path angle
VPT	Visual manoeuvre with prescribed track
VRB	Variable
VSA	By visual reference to the ground
VSP	Vertical speed
VTF	Vector to final
VTOL	Vertical take-off and landing
VV . . .	Vertical visibility ( <i>followed by figures in METAR/SPECI and TAF</i> )

**W**

W	West <i>or</i> western longitude
W	White
W . . .	Sea-surface temperature ( <i>followed by figures in METAR/SPECI</i> )
WAAS†	Wide area augmentation system
WAC . . .	World Aeronautical Chart — ICAO 1:1 000 000 ( <i>followed by name/title</i> )
WAFC	World area forecast centre
WB	Westbound
WBAR	Wing bar lights
WDI	Wind direction indicator
WDSPR	Widespread
WED	Wednesday
WEF	With effect from <i>or</i> effective from
WGS-84	World Geodetic System — 1984
WI	Within
WID	Width <i>or</i> wide

WIE	With immediate effect <i>or</i> effective immediately
WILCO†	Will comply
WIND	Wind
WIP	Work in progress
WKN	Weaken <i>or</i> weakening
WNW	West-north-west
WO	Without
WPT	Way-point
WRNG	Warning
WS	Wind shear
WSPD	Wind speed
WSW	West-south-west
WT	Weight
WTSPT	Waterspout
WWW	Worldwide web
WX	Weather
WXR	Weather radar

**X**

X	Cross
XBAR	Crossbar ( <i>of approach lighting system</i> )
XNG	Crossing
XS	Atmospherics

**Y**

Y	Yellow
YCZ	Yellow caution zone ( <i>runway lighting</i> )
YES*	Yes (affirmative) ( <i>to be used in AFS as a procedure signal</i> )
YR	Your

**Z**

Z	Coordinated Universal Time ( <i>in meteorological messages</i> )
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# Signal for use in the teletypewriter service only.



## ABBREVIATIONS

### ENCODE

#### A

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

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# Signal for use in the teletypewriter service only.

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

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# Signal for use in the teletypewriter service only.

Authorized <i>or</i> authorization	AUTH
Automated flight information service	FISA
Automated weather observation system	AWOS
Automatic	AUTO
Automatic dependent surveillance — broadcast	ADS-B‡
Automatic dependent surveillance — contract	ADS-C‡
Automatic dependent surveillance unit	ADSU
Automatic direction-finding equipment	ADF‡
Automatic error correction	ARQ
Automatic terminal information service ( <i>to be pronounced “AY-TIS”</i> )	ATIS†
Auxiliary	AUX
Auxiliary power unit	APU
Available <i>or</i> availability	AVBL
Average	AVG
Aviation gasoline	AVGAS†
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

**C**

Calibration	CLBR
Call sign	CS
Calling	CLG
Cancel <i>or</i> cancelled	CNL
Cancelling NOTAM	NOTAMC
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
Civil aviation authority <i>or</i> civil aviation administration	CAA
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

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# Signal for use in the teletypewriter service only.

Commercial broadcasting station	BS	Crossing	XNG
Common ICAO data interchange network	CIDIN†	Cruise	CRZ
Communications	COM	Cumuliform	CUF
Communications, navigation and surveillance	CNS	Cumulonimbus ( <i>to be pronounced “CEE BEE”</i> )	CB‡
Compulsory reporting point	CRP	Cumulus	CU
Concrete	CONC	Current flight plan ( <i>message type designator</i> )	CPL
Condition	COND	Customs	CUST
Conditional route	CDR	Cyclic redundancy check	CRC
Confirm or I confirm ( <i>to be used in AFS as a procedure signal</i> )	CFM*		
Constant radius arc to a fix	RF	<b>D</b>	
Construction or constructed	CONST	Daily	DLY
Contact	CTC	Danger or dangerous	DNG
Continue(s) or continued	CONT	Danger area ( <i>followed by identification</i> )	D . . .
Continuous	CONS	Data link automatic terminal information service ( <i>to be pronounced “DEE-ATIS”</i> )	D-ATIS†
Continuous climb operations	CCO	Data link initiation capability	DLIC
Continuous day and night service	H24	Data link VOLMET	D-VOLMET
Continuous descent operations	CDO	Date of flight	DOF
Continuous wave	CW	Date-time group	DTG
Control	CTL	Datum crossing point	DCP
Control area	CTA	Dead reckoning	DR
Control indicated is operational control	OPC	December	DEC
Controller-pilot data link communications	CPDLC‡	Decision altitude	DA
Control zone	CTR	Decision height	DH
Coordinate or coordination	COOR	Degrees	DEG
Coordinated Universal Time	UTC‡	Degrees Celsius ( <i>Centigrade</i> )	C
Coordinated Universal Time ( <i>in meteorological messages</i> )	Z	Delay ( <i>message type designator</i> )	DLA
Coordinates	COORD	Delay or delayed	DLA
Coordination ( <i>message type designator</i> )	CDN	Delayed ( <i>used to indicate delayed meteorological message; message type designator</i> )	RTD
Correct or correction or corrected ( <i>used to indicate corrected meteorological message; message type designator</i> )	COR	Delayed meteorological message ( <i>message type designator</i> )	RRA ( <i>or RRB, RRC . . . etc., in sequence</i> )
Corrected meteorological message ( <i>message type designator</i> )	CCA ( <i>or CCB, CCC . . . etc., in sequence</i> )		
Course from a fix to an altitude	FA	Dense upper cloud	DUC
Course from a fix to manual termination ( <i>used in navigation database coding</i> )	FM	Depart or departure	DEP
Course to a fix	CF	Departure ( <i>message type designator</i> )	DEP
Course to an altitude	CA	Departure end of the runway	DER
Cover or covered or covering	COV	Deposition	DEPO
Cross	X	Depth	DPT
Crossbar ( <i>of approach lighting system</i> )	XBAR	Descend to or descending to	DES

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# Signal for use in the teletypewriter service only.

Descend to and maintain	DTAM	Effective immediately <i>or</i> with immediate effect	WIE
Destination	DEST	Electronic flight instrument system ( <i>to be pronounced “EE-FIS”</i> )	EFIS†
Deteriorate <i>or</i> deteriorating	DTRT	Elevation	ELEV
Deviation <i>or</i> deviating	DEV	Elevation differential area	EDA
Dew point temperature	DP	Embedded in a layer ( <i>to indicate cumulonimbus embedded in layers of other clouds</i> )	EMBD
Diffuse	DIF	Emergency	EMERG
Digital flight data recorder	DFDR	Emergency location beacon — aircraft	ELBA†
Direct ( <i>in relation to flight plan clearances and type of approach</i> )	DCT	Emergency locator transmitter	ELT
Direct controller-pilot communications	DCPC	Emission	EM
Direction finding	DF	Engine	ENG
Displaced runway threshold	DTHR	Enhanced vision system	EVS
Distance	DIST	En route	ENR
Distance from touchdown indicator	DFTI	Enroute chart ( <i>followed by name/title</i> )	ENRC . . .
Distance measuring equipment	DME‡	En-route surveillance radar	RSR
Distress phase	DETRESFA†	Equipment	EQPT
Divert <i>or</i> diverting	DIV	Error ( <i>to be used in AFS as a procedure signal</i> )	EEE#
Docking	DCKG	Estimate <i>or</i> estimated <i>or</i> estimation ( <i>message type designator</i> )	EST
Domestic	DOM	Estimated elapsed time	EET
Doppler VOR	DVOR	Estimated off-block time	EOBT
Double channel duplex	DCD	Estimated time of arrival <i>or</i> estimating arrival	ETA*‡
Double channel simplex	DCS	Estimated time of departure <i>or</i> estimating departure	ETD‡
Double sideband	DSB	Estimated time over significant point	ETO
Downward ( <i>tendency in RVR during previous 10 minutes</i> )	D	European geostationary navigation overlay service ( <i>to be pronounced “EGG-NOS”</i> )	EGNOS†
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	European regional OPMET data exchange	EUR RODEX
Drizzle	DZ	Every	EV
Dual tandem wheels	DTW	Except	EXC
Dual wheels	DW	Exercises <i>or</i> exercising <i>or</i> to exercise	EXER
Duration	DUR	Expect <i>or</i> expected <i>or</i> expecting	EXP
During	DRG	Expect further clearance	EFC
Dust	DU	Expected approach time	EAT
Dust/sand whirls ( <i>dust devils</i> )	PO	Extend <i>or</i> extending <i>or</i> extended	EXTD
Duststorm	DS	Extended diversion time operations	EDTO
		Extra long range	ELR
<b>E</b>		Extremely high frequency [30 000 to 300 000 MHz]	EHF
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		

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# Signal for use in the teletypewriter service only.

**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
Final approach	FNA
Final approach and take-off area	FATO
Final approach fix	FAF
Final approach point	FAP
Final approach segment	FAS
Firing	FRNG
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	FPL
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
From ( <i>followed by time at which weather change is forecast to begin</i> )	FM . . .
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*
Front ( <i>relating to weather</i> )	FRONT†
Frost ( <i>used in aerodrome warnings</i> )	FROST†
Fuel remaining	FR
Full stop landing	FSL
Funnel cloud ( <i>tornado or waterspout</i> )	FC

**G**

GBAS azimuth reference point	GARP
GBAS landing system	GLS‡
General	GEN
General aviation	GA
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
Government	GOV
GPS and geostationary earth orbit augmented navigation	GAGAN†
Grass landing area	GRASS
Gravel	GRVL
Green	G

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# Signal for use in the teletypewriter service only.



Ground	GND	High pressure area <i>or</i> the centre of high pressure	H
Ground-based augmentation system ( <i>to be pronounced “GEE-BAS”</i> )	GBAS†	Higher	HYR
Ground-based regional augmentation system ( <i>to be pronounced “GRASS”</i> )	GRAS†	Holding	HLDG
Ground check	GNDCK	Holding/racetrack to a fix	HF
Ground controlled approach system <i>or</i> ground controlled approach	GCA‡	Holding/racetrack to a manual termination	HM
Ground earth station	GES	Holding/racetrack to an altitude	HA
Ground movement chart ( <i>followed by name/title</i> )	GMC . . .	Holiday	HOL
Ground power unit	GPU	Hospital aircraft	HOSP
Ground proximity warning system	GPWS‡	Hours	HR
Ground speed	GS	Humanitarian	HUM
Ground-to-air	G/A	Hurricane	HURCN
Ground-to-air and air-to-ground	G/A/G		
<b>H</b>		<b>I</b>	
Hail	GR	I have nothing to send to you <i>or</i> none	NIL*†
Hazard beacon	HBN	Ice on runway	IR
Haze	HZ	Ice pellets	PL
Heading	HDG	Icing	ICE
Heading to a manual termination	VM	Identification	IDENT†
Heading to an altitude	VA	Identification beacon	IBN
Heading to an intercept	VI	Identification friend/foe	IFF
Head-up display	HUD	Identifier <i>or</i> identify	ID
Heavy	HVY	If not possible	INP
Heavy ( <i>used to indicate the intensity of weather phenomena, e.g. heavy rain = HVY RA</i> )	HVY	Immediate <i>or</i> immediately	IMT
Hectopascal	HPA	Immigration	IMG
Height <i>or</i> height above	HGT	Improve <i>or</i> improving	IMPR
Helicopter	HEL	In and out of clouds	IAO
Helicopter approach path indicator	HAPI	In cloud	INC
Helicopter landing site	HLS	Inbound	INBD
Heliport	HLP	Incorporated	INCORP
Heliport crossing height	HCH	Independent sideband	ISB
Heliport reference point	HRP	Indicated airspeed	IAS
Hertz ( <i>cycle per second</i> )	HZ	Inertial navigation system	INS
High and very high frequency direction-finding stations ( <i>at the same location</i> )	HVDF	Inertial reference system	IRS
High frequency [3 000 to 30 000 kHz]	HF‡	Information	INFO†
High frequency direction-finding station	HDF	Information concerning en-route weather and other phenomena in the atmosphere that 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

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# Signal for use in the teletypewriter service only.

Initial approach fix	IAF	Kilometres per hour	KMH
Inland	LAN	Kilopascal	KPA
Inner marker	IM	Kilowatts	KW
Inoperative	INOP	Knots	KT
In progress	INPR	Knots indicated airspeed	CIAS
Install <i>or</i> installed <i>or</i> installation	INSTL		
Instrument	INSTR		
Instrument approach chart ( <i>followed by name/title</i> )	IAC . . .	<b>L</b>	
Instrument approach procedure	IAP	Landing	LDG
Instrument flight rules	IFR†	Landing direction indicator	LDI
Instrument landing system	ILS‡	Landing distance available	LDA
Instrument meteorological conditions	IMC‡	Landing distance available, helicopter	LDAH
Intensify <i>or</i> intensifying	INTSF	Landing threshold point	LTP
Intensity	INTST	Last message received by me was . . . ( <i>to be used in AFS as a procedure signal</i> )	LR
Intermediate approach fix	IF	Last message sent by me was . . . <i>or</i> Last message was . . . ( <i>to be used in AFS as a procedure signal</i> )	LS
International	INTL	Lateral navigation ( <i>to be pronounced "EL-NAV"</i> )	LNAV‡
International Civil Aviation Organization	ICAO	Latitude	LAT
International general aviation	IGA	Layer <i>or</i> layered	LYR
International NOTAM office	NOF	Leave <i>or</i> leaving	LVE
International standard atmosphere	ISA	Left ( <i>preceded by runway designation number to identify a parallel runway</i> )	. . . L
International system of units	SI	Length	LEN
Interrogation sign (question mark) ( <i>to be used in AFS as a procedure signal</i> )	IMI*	Level	LVL
Interrogator	INTRG	Light ( <i>used to indicate the intensity of weather phenomena, interference or static reports, e.g. light rain = FBL RA</i> )	FBL
Interrupt <i>or</i> interruption <i>or</i> interrupted	INTRP	Light <i>or</i> lighting	LGT
Intersection	INT	Light and variable ( <i>relating to wind</i> )	LV
Intersection of air routes	IAR	Light intensity high	LIH
In valleys	VAL	Light intensity low	LIL
Isolated	ISOL	Light intensity medium	LIM
		Lighted	LGTD
<b>J</b>		Limited	LTD
January	JAN	Line ( <i>used in SIGMET</i> )	LINE
Jet stream	JTST	Litre	L
July	JUL	Local <i>or</i> locally <i>or</i> location <i>or</i> located	LCA
June	JUN	Local mean time	LMT
		Local routine meteorological report ( <i>in abbreviated plain language</i> )	MET REPORT
<b>K</b>			
Kilograms	KG		
Kilohertz	KHZ		
Kilometres	KM		

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Local special meteorological report ( <i>in abbreviated plain language</i> )	SPECIAL†	Mean sea level	MSL
Localizer	LOC	Medical evacuation flight	MEDEVAC
Localizer performance with vertical guidance	LPV	Medium and high frequency direction- finding stations ( <i>at the same location</i> )	MHDF
Locator	L	Medium and very high frequency direction-finding stations ( <i>at the same location</i> )	MVDF
Locator, middle	LM	Medium frequency [300 to 3 000 kHz]	MF
Locator, outer	LO	Medium frequency direction-finding station	MDF
Logical acknowledgement ( <i>message type designator</i> )	LAM	Medium, high and very high frequency direction-finding stations ( <i>at the same location</i> )	MHVDF
Long ( <i>used to indicate the type of approach desired or required</i> )	LNG	Medium range	MRG
Longitude	LONG	Megahertz	MHZ
Long range	LRG	Message	MSG
LORAN ( <i>long range air navigation system</i> )	LORAN†	Message . . . ( <i>transmission identification</i> ) has been misrouted ( <i>to be used in AFS as a procedure signal</i> )	MSR#
Low drifting ( <i>followed by DU = dust, SA = sand or SN = snow</i> )	DR . . .	Meteorological <i>or</i> meteorology	MET†
Low frequency [30 to 300 kHz]	LF	Meteorological information for aircraft in flight	VOLMET†
Low pressure area <i>or</i> the centre of low pressure	L	Meteorological watch office	MWO
Low visibility procedures	LVP	Metres ( <i>preceded by figures</i> )	. . . M
Lower control area	LTA	Metres per second	MPS
<b>M</b>		Metric units	MTU
Mach number ( <i>followed by figures</i> )	M . . .	Microburst	MBST
Magnetic	MAG	Microwave landing system	MLS‡
Magnetic bearing	QDR	Middle marker	MM
Magnetic heading ( <i>zero wind</i> )	QDM‡	Mid-point ( <i>related to RVR</i> )	MID
Magnetic orientation of runway	QFU	Military	MIL
Magnetic variation	VAR	Military aerodrome traffic zone	MATZ
Maintain	MNTN	Military control zone	MCTR
Maintenance	MAINT	Military operating area	MOA
March	MAR	Minimum	MNM
Marker radio beacon	MKR	Minimum crossing altitude	MCA
Maximum	MAX	Minimum descent altitude	MDA
Maximum authorized altitude	MAA	Minimum descent height	MDH
Maximum take-off mass	MTOM	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 <i>or</i> runway visual range ( <i>followed by figures in METAR/SPECI and TAF</i> )	P . . .	Minimum holding altitude	MHA
May	MAY	Minimum navigation performance specifications	MNPS
		Minimum obstacle clearance ( <i>required</i> )	MOC

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# Signal for use in the teletypewriter service only.

Minimum obstacle clearance altitude	MOCA	Navigation	NAV
Minimum operational performance standards	MOPS†	Navigation aid	NAVAID
Minimum reception altitude	MRA	Navigation system error	NSE
Minimum safe altitude warning	MSAW	New NOTAM	NOTAMN
Minimum sector altitude	MSA	Next	NXT
Minimum temperature ( <i>followed by figures in TAF</i> )	TN . . .	Night	NGT
Minimum value of runway visual range ( <i>followed by figures in METAR/SPECI</i> )	M . . .	Nil significant cloud	NSC
Minus	MS	Nil significant weather	NSW
Minutes	MIN*	Nimbostratus	NS
Missed approach holding fix	MAHF	No <i>or</i> negative <i>or</i> permission not granted <i>or</i> that is not correct	NEG
Missed approach point	MAPT	No change	NC
Missed approach turning fix	MATF	No cloud detected ( <i>used in automated METAR/SPECI</i> )	NCD
Missing . . . ( <i>transmission identification</i> ) ( <i>to be used in AFS as a procedure signal</i> )	MIS	No directional variations available ( <i>used in automated METAR/SPECI</i> )	NDV
Mist	BR	No distinct tendency ( <i>in RVR during previous 10 minutes</i> )	N
Mixed type of ice formation ( <i>white and clear</i> )	MX	No name, unnamed	NN
Moderate ( <i>used to indicate the intensity of weather phenomena, interference or static reports, e.g. moderate rain = MODRA</i> )	MOD	No (negative) ( <i>to be used in AFS as a procedure signal</i> )	NO
Modification ( <i>message type designator</i> )	CHG	No reply heard	NRH
Modulated continuous wave	MCW	No significant change ( <i>used in trend-type landing forecasts</i> )	NOSIG†
Monday	MON	No specific working hours	HX
Monitor <i>or</i> monitoring <i>or</i> monitored	MNT	No transgression zone	NTZ‡
Monopulse secondary surveillance radar	MSSR	Noise abatement departure procedure	NADP
Mountain	MT	Non-directional radio beacon	NDB‡
Mountain waves	MTW	Non-precision approach	NPA
Move <i>or</i> moving <i>or</i> movement	MOV	Non-standard	NONSTD
Multi-functional transport satellite (MTSAT) satellite-based augmentation system ( <i>to be pronounced "EM-SAS"</i> )	MSAS†	None <i>or</i> I have nothing to send to you	NIL*†
<b>N</b>		Normal	NML
National	NTL	Normal operating zone	NOZ‡
National AIS system centre	NASC†	North <i>or</i> northern latitude	N
Nautical miles	NM	North Atlantic	NAT
		Northbound	NB
		North-east	NE
		North-eastbound	NEB
		North-north-east	NNE
		North-north-west	NNW
		North-west	NW
		North-westbound	NWB
		Not before	NBFR

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# Signal for use in the teletypewriter service only.

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†	Overcast	OVC
November	NOV	Overhead	OHD
Number	NR		
<b>O</b>		<b>P</b>	
Obscure <i>or</i> obscured <i>or</i> obscuring	OBSC	Parachute jumping exercise	PJE
Observe <i>or</i> observed <i>or</i> observation	OBS	Parallel	PARL
Obstacle	OBST	Parking	PRKG
Obstacle assessment surface	OAS	Passenger(s)	PAX
Obstacle clearance altitude	OCA	Passing	PSG
Obstacle clearance height	OCH	Pavement classification number	PCN
Obstacle clearance surface	OCS	Per cent	PCT
Obstacle free zone	OFZ	Performance	PER
Obstacle identification surface	OIS	Performance-based communication	PBC
Occasional <i>or</i> occasionally	OCNL	Performance-based navigation	PBN
Occulting ( <i>light</i> )	OCC	Performance-based surveillance	PBS
Ocean station vessel	OSV	Permanent	PERM
Oceanic area control centre	OAC	Persons on board	POB
Oceanic control area	OCA	Pierced steel plank	PSP
October	OCT	Pilot-controlled lighting	PCL
On-line data interchange	OLDI†	Plan position indicator	PPI
On request	O/R	Plus	PS
On top	OTP	Point-in-space reference point	PRP
Opaque, white type of ice formation	OPA	Point of no return	PNR
Open <i>or</i> opening <i>or</i> opened	OPN	Polar track structure	PTS
Operations	OPS†	Position	PSN
Operator <i>or</i> operate <i>or</i> operative <i>or</i> operating <i>or</i> operational	OPR	Possible	POSS
Operational control is the control indicated	OPC	Power	PWR
Operational meteorological ( <i>information</i> )	OPMET†	Practice low approach	PLA
Order	ORD	Precision approach	PA
Organized track system	OTS	Precision approach lighting system ( <i>specify category</i> )	PALS
Originate ( <i>to be used in AFS as a procedure signal</i> )	OGN	Precision approach path indicator	PAPI†
Outbound	OUBD	Precision approach radar	PAR‡
Outer marker	OM	Precision approach terrain chart ( <i>followed by name/title</i> )	PATC . . .
		Pre-departure clearance	PDC‡
		Pre-flight information bulletin	PIB
		Present level	PLVL
		Present position	PPSN
		Pressure system(s)	PSYS
		Primary	PRI
		Primary surveillance radar	PSR‡
		Prior notice required	PN
		Prior permission required	PPR

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# Signal for use in the teletypewriter service only.

Probability	PROB†	Received ( <i>acknowledgement of receipt</i> )	
Procedure	PROC	( <i>to be used in AFS as a procedure signal</i> )	R*
Procedure design gradient	PDG	Receiver autonomous integrity monitoring	RAIM†
Procedure turn	PTN	Receiving only	RON
Procedures for air navigation services	PANS	Recent ( <i>used to qualify weather phenomena, e.g. recent rain = RERA</i> )	RE
Proceed <i>or</i> proceeding	PCD	Reclearance in flight	RIF
Processed meteorological data in the form of grid point values expressed in binary form ( <i>in meteorological code</i> )	GRIB	Recleared	RCLR
Prohibited area ( <i>followed by identification</i> )	P . . .	Red	R
Propeller	PROP	Reduced vertical separation minimum [300 m (1 000 ft) between FL 290 and FL 410]	RVSM‡
Provisional	PROV	Reference datum height	RDH
		Reference path data selector	RPDS
<b>Q</b>		Reference to . . . <i>or</i> refer to . . .	REF
Quadrant	QUAD	Regional AIS system centre	RASC†
		Regional OPMET bulletin exchange ( <i>scheme</i> )	ROBEX†
<b>R</b>		Regional supplementary procedures	SUPPS
Radar position indicator	RPI‡	Registration	REG
Radar position symbol	RPS	Rejected take-off distance available, helicopter	RTODAH
Radar vectoring area	RVA	Relay to	RLA
Radial	RDL	Remark	RMK
Radial from VOR ( <i>followed by three figures</i> )	R . . .	Remote altimeter setting source	RASS
Radio	RDO	Repeat <i>or</i> I repeat ( <i>to be used in AFS as a procedure signal</i> )	RPT*
Radio range	RNG	Repetitive flight plan	RPL
Radioactive	RDOACT	Replace <i>or</i> replaced	RPLC
Radiocommunication failure ( <i>message type designator</i> )	RCF	Replacing NOTAM	NOTAMR
Radiotelegraph	RTG	Report <i>or</i> reporting <i>or</i> reporting point	REP
Radiotelephone	RTF	Report leaving	RL
Radioteletypewriter	RTT	Report reaching	RR
Ragged	RAG	Request <i>or</i> requested	REQ
Rain	RA	Request ( <i>to be used in AFS as a procedure signal</i> )	RQ*
Range ( <i>lights</i> )	RG	Request flight plan ( <i>message type designator</i> )	RQP
Rate of climb	ROC	Request level change en route	RLCE
Rate of descent	ROD	Request supplementary flight plan ( <i>message type designator</i> )	RQS
Rate of turn	R	Requested level not available	RLNA
Reach <i>or</i> reaching	RCH	Required communication performance	RCP‡
Reach cruising altitude	RCA	Required navigation performance	RNP‡
Receive <i>or</i> receiver	REC		

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# Signal for use in the teletypewriter service only.

Required surveillance performance	RSP‡	SAR point of contact	SPOC
Requirements	RQMNTS	Satellite-based augmentation system ( <i>to be pronounced “ESS-BAS”</i> )	SBAS†
Re-route	RERTE	Satellite communication ( <i>used only when referring generally to both voice and data satellite communication or only data satellite communication</i> )	SATCOM‡
Rescue and fire fighting services	RFFS	Satellite voice communication	SATVOICE†
Rescue boat	RB	Saturday	SAT
Rescue coordination centre	RCC	Scattered	SCT
Rescue sub-centre	RSC	Schedule or scheduled	SKED
Rescue vessel	RV	Sea ( <i>used in connection with sea-surface temperature and state of sea</i> )	SEA
Resolution advisory	RA	Sea-surface temperature ( <i>followed by figures in METAR/SPECI</i> )	W . . .
Responder beacon	RSP	Search and rescue	SAR
Restricted area ( <i>followed by identification</i> )	R . . .	Search and rescue region	SRR
Return or returned or returning	RTN	Secondary	SRY
Return to service	RTS	Secondary surveillance radar	SSR‡
Right ( <i>preceded by runway designation number to identify a parallel runway</i> )	. . . R	Seconds	SEC
Right-hand circuit	RHC	Section	SECN
Rime ( <i>used in aerodrome warnings</i> )	RIME†	Sector	SECT
Root sum square	RSS	Selective calling system	SELCAL†
Route	RTE	Selective identification feature	SIF
Rules of the air and air traffic services	RAC	September	SEP
Runway	RWY	Service or servicing or served	SER
Runway ( <i>followed by figures in METAR/SPECI</i> )	R . . .	Service available during hours of scheduled operation	HS
Runway alignment indicator	RAI	Service available to meet operational requirements	HO
Runway arresting gear	RAG	Service ( <i>message type only</i> )	SVC
Runway centre line	RCL	Serviceable	SVCBL
Runway centre line light(s)	RCLL	Severe ( <i>used to qualify icing and turbulence reports</i> )	SEV
Runway(s) cleared ( <i>used in METAR/SPECI</i> )	CLRD	Shall I cancel telegram number . . . ? or Cancel telegram number . . . ( <i>to be used in AFS as a Q Code</i> )	QTA
Runway control van	VAN	Shall I run my test tape/a test sentence? or Run your test tape/a test sentence ( <i>to be used in AFS as a Q Code</i> )	QJH
Runway edge light(s)	REDL	Shallow fog	MIFG
Runway end light(s)	RENL	Short ( <i>used to indicate the type of approach desired or required</i> )	BRF
Runway end safety area	RESA	Short range	SRG
Runway lead-in lighting system	RLLS	Short take-off and landing	STOL
Runway surface condition	RSCD		
Runway threshold light(s)	RTHL		
Runway touchdown zone light(s)	RTZL		
Runway visual range	RVR‡		
<b>S</b>			
Sand	SA		
Sandstorm	SS		
Sanitary	SAN		

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# Signal for use in the teletypewriter service only.

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. showers of rain and snow = SHRASN</i> )	SH . . .	Standard	STD
Signal	SGL	Standard deviation	SD
Significant	SIG	Standard instrument arrival	STAR†
Significant wave height ( <i>followed by figures in METAR/SPECI</i> )	H . . .	Standard instrument departure	SID†
Simple approach lighting system	SALS	Standard regional route transmitting frequencies	RUT
Simultaneous or simultaneously	SIMUL	Standards and Recommended Practices [ICAO]	SARPS
Single isolated wheel load	SIWL	Start of climb	SOC
Single sideband	SSB	State of the sea ( <i>followed by figures in METAR/SPECI</i> )	S . . .
Slow	SLW	Station	STN
Small hail and/or snow pellets	GS	Stationary	STNR
Smoke	FU	Status	STS
Snow	SN	Step down fix	SDF
Snow grains	SG	Stop-end ( <i>related to RVR</i> )	END
South or southern latitude	S	Stopway	SWY
Southbound	SB	Stopway light(s)	STWL
South-east	SE	Straight-in approach	STA
South-eastbound	SEB	Stratiform	STF
South-south-east	SSE	Stratocumulus	SC
South-south-west	SSW	Stratus	ST
South-west	SW	Subject to	SUBJ
South-westbound	SWB	Sunday	SUN
Special air-report ( <i>message type designator</i> )	ARS	Sunrise	SR
Special position indicator	SPI	Sunrise to sunset	HJ
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	ASHTAM	Sunset	SS
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†	Sunset to sunrise	HN
Speed limiting point	SLP	Super high frequency [3 000 to 30 000 MHz]	SHF
Spot wind	SPOT†	Supersonic transport	SST
Squall	SQ	Supplement ( <i>AIP Supplement</i> )	SUP
Squall line	SQL	Supplementary flight plan ( <i>message type designator</i> )	SPL
Stand by	SDBY	Surface	SFC
		Surface movement control	SMC
		Surface movement radar	SMR
		Surveillance radar approach	SRA
		Surveillance radar element of precision approach radar system	SRE
		<b>T</b>	
		Tail wind	TAIL†
		Take-off	TKOF

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‡ 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.



Take-off distance available	TODA	To ( <i>followed by place</i> )	TO . . .
Take-off distance available, helicopter	TODAH	Top of climb	TOC
Take-off run available	TORA	Tornado	TDO
Taxiing <i>or</i> taxi	TAX	Touch-and-go landing	TGL
Taxiing guidance system	TGS	Touchdown and lift-off area	TLOF
Taxilane	TXL	Touchdown zone	TDZ
Taxiway	TWY	Towering cumulus	TCU
Technical reason	TECR	Toxic	TOX
Telephone	TEL	Track	TR
Teletypewriter	TT	Track to fix	TF
Temperature	T	Traffic	TFC
Temporary <i>or</i> temporarily	TEMPO†	Traffic advisory	TA
Temporary reserved airspace	TRA	Traffic alert and collision avoidance system resolution advisory ( <i>to be pronounced “TEE-CAS-AR-AY”</i> )	TCAS RA†
Terminal area surveillance radar	TAR	Traffic information broadcast by aircraft	TIBA†
Terminal arrival altitude	TAA	Training	TRG
Terminal control area	TMA‡	Transition altitude	TA
Terminal VOR	TVOR	Transition level	TRL
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*	Transmits <i>or</i> transmitter	TRANS
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#	Trend forecast	TREND†
This is a duplicate message ( <i>to be used in AFS as a procedure signal</i> )	DUPE#	Tropical cyclone	TC
Threshold	THR	Tropical cyclone advisory centre	TCAC
Threshold crossing height	TCH	Tropopause	TROP
Through	THRU	True ( <i>preceded by a bearing to indicate reference to True North</i> )	. . . T
Thunderstorm ( <i>in aerodrome reports and forecasts, TS used alone means thunder heard but no precipitation at the aerodrome</i> )	TS	True airspeed	TAS
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. thunderstorm with rain and snow = TSRASN</i> )	TS . . .	True bearing	QTE
Thursday	THU	Tsunami ( <i>used in aerodrome warnings</i> )	TSUNAMI†
Till ( <i>followed by time by which weather change is forecast to end</i> )	TL . . .	Tuesday	TUE
		Turbulence	TURB
		Turn altitude	TNA
		Turn at an altitude/height	TA/H
		Turn height	TNH
		Turning point	TP
		T visual approach slope indicator system ( <i>to be pronounced “TEE-VASIS”</i> )	T-VASIS†
		Type of aircraft	TYP
		Typhoon	TYPH
		<b>U</b>	
		UHF tactical air navigation aid	TACAN†
		Ultra high frequency [300 to 3 000 MHz]	UHF‡

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# Signal for use in the teletypewriter service only.

Ultra high frequency direction-finding station	UDF	Very high frequency [30 to 300 MHz]	VHF†
Ultra light motorized aircraft	ULM	Very high frequency direction-finding station	VDF
Ultra long range	ULR	Very important person	VIP‡
Unable	UNA	Very long range	VLR
Unable higher due traffic	UHDT	Very low frequency [3 to 30 kHz]	VLF
Unable to approve	UNAP	VHF omnidirectional radio range	VOR‡
Uncertainty phase	INCERFA†	Vicinity	VCY
Unidentified precipitation ( <i>used in automated METAR/SPECI</i> )	UP	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. vicinity fog = VCFG</i> )	VC . . .
Unlimited	UNL	Visibility	VIS
Unmanned aircraft	UA	Visibility, cloud and present weather better than prescribed values or conditions ( <i>to be pronounced "KAV-OH-KAY"</i> )	CAVOK†
Unmanned aircraft system	UAS	Visual approach chart ( <i>followed by name/title</i> )	VAC . . .
Unreliable	UNREL	Visual approach slope indicator systems	VASIS
Unserviceable	U/S	Visual-aural radio range	VAR
Until	TIL†	Visual flight rules	VFR‡
Until advised by . . .	UAB . . .	Visual manoeuvre with prescribed track	VPT
Until further notice	UFN	Visual meteorological conditions	VMC‡
Until past ( <i>followed by place</i> )	TIP. . .	Visual reference to the ground, by	VSA
Upper air route	UAR	Volcanic ash	VA
Upper area control centre	UAC	Volcanic ash advisory centre	VAAC
Upper control area	UTA	Volume ( <i>followed by I, II . . .</i> )	VOL . . .
Upper flight information region	UIR‡	VOR airborne equipment test facility	VOT
Upper information centre	UIC	VOR and TACAN combination	VORTAC†
Upward ( <i>tendency in RVR during previous 10 minutes</i> )	U		
<b>V</b>			
Variable	VRB		
Variations from the mean wind direction ( <i>preceded and followed by figures in METAR/SPECI, e.g. 350V070</i> )	. . . V . . .		
Variations from the mean wind speed (gusts) ( <i>followed by figures in METAR/SPECI and TAF</i> )	G . . .		
Vector to final	VTF		
Vertical	VER		
Vertical navigation ( <i>to be pronounced "VEE-NAV"</i> )	VNAV†		
Vertical path angle	VPA		
Vertical speed	VSP		
Vertical take-off and landing	VTOL		
Vertical visibility ( <i>followed by figures in METAR/SPECI and TAF</i> )	VV . . .		
<b>W</b>			
		Warning	WRNG
		Waterspout	WTSPT
		Way-point	WPT
		We agree or It is correct ( <i>to be used in AFS as a procedure signal</i> )	OK*
		Weaken or weakening	WKN
		Weather	WX
		Weather radar	WXR

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# Signal for use in the teletypewriter service only.

Wednesday	WED	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> )	QSP
Weight	WT	Wind	WIND
West <i>or</i> western longitude	W	Wind direction indicator	WDI
Westbound	WB	Wind shear	WS
West-north-west	WNW	Wind speed	WSPD
West-south-west	WSW	Wing bar lights	WBAR
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> )	QGE	With effect from <i>or</i> effective from	WEF
White	W	With immediate effect <i>or</i> effective immediately	WIE
White type of ice formation, opaque	OPA	Within	WI
Wide area augmentation system	WAAS†	Without	WO
Widespread	WDSPR	Work in progress	WIP
Width <i>or</i> wide	WID	World Aeronautical Chart — ICAO 1:1 000 000 ( <i>followed by name/title</i> )	WAC . . .
Will comply	WILCO†	World area forecast centre	WAFC
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> )	QTF	World Geodetic System — 1984	WGS-84
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> )	QUJ	Worldwide web	WWW
		<b>Y</b>	
		Yellow	Y
		Yellow caution zone ( <i>runway lighting</i> )	Y CZ
		Yes <i>or</i> affirm <i>or</i> affirmative <i>or</i> that is correct	AFM
		Yes (affirmative) ( <i>to be used in AFS as a procedure signal</i> )	YES*
		Your	YR

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

OLDI	On-line data interchange	SPECI	Aerodrome special meteorological report ( <i>in meteorological code</i> )
OPMET	Operational meteorological ( <i>information</i> )	SPECIAL	Local special meteorological report ( <i>in abbreviated plain language</i> )
OPS	Operations	SPOT	Spot wind
PAPI	Precision approach path indicator	STAR	Standard instrument arrival
PROB	Probability		
RAIM	Receiver autonomous integrity monitoring	TACAN	UHF tactical air navigation aid
RASC	Regional AIS system centre	TAF	Aerodrome forecast ( <i>in meteorological code</i> )
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 or temporarily
SATCOM	Satellite communication ( <i>used only when referring generally to both voice and data satellite communication or only data satellite communication</i> )	TIBA	Traffic information broadcast by aircraft
SATVOICE	Satellite voice communication	TIL	Until
SBAS	( <i>to be pronounced "ESS-BAS"</i> ) Satellite-based augmentation system	TOP	Cloud top
SELCAL	Selective calling system	TREND	Trend forecast
SID	Standard instrument departure	TSUNAMI	Tsunami ( <i>used in aerodrome warnings</i> )
SIGMET	Information concerning en-route weather and other phenomena in the atmosphere that may affect the safety of aircraft operations	T-VASIS	( <i>to be pronounced "TEE-VASIS"</i> ) T visual approach slope indicator system
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	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	European geostationary navigation overlay service ( <i>to be pronounced "EGG-NOS"</i> )	EGNOS
Abbreviated T visual approach slope indicator system ( <i>to be pronounced "AY-TEE-VASIS"</i> )	AT-VASIS	Front ( <i>relating to weather</i> )	FRONT
Aerodrome forecast ( <i>in meteorological code</i> )	TAF	Frost ( <i>used in aerodrome warnings</i> )	FROST
Aerodrome routine meteorological report ( <i>in meteorological code</i> )	METAR	Global orbiting navigation satellite system ( <i>to be pronounced "GLO-NAS"</i> )	GLONASS
Aerodrome special meteorological report ( <i>in meteorological code</i> )	SPECI	GPS and geostationary earth orbit augmented navigation	GAGAN
Airborne collision avoidance system ( <i>to be pronounced "AY-CAS"</i> )	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 and other phenomena in the atmosphere that 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 ( <i>to be pronounced "AY-TIS"</i> )	ATIS		
Aviation gasoline	AVGAS		
Barometric vertical navigation ( <i>to be pronounced "BAA-RO-VEE-NAV"</i> )	BARO-VNAV	Lateral navigation ( <i>to be pronounced "EL-NAV"</i> )	LNAV
Cloud base	BASE	Local special meteorological report ( <i>in abbreviated plain language</i> )	SPECIAL
Cloud top	TOP	LORAN ( <i>long range air navigation system</i> )	LORAN
Common ICAO data interchange network	CIDIN		
Data link automatic terminal information service ( <i>to be pronounced "DEE-ATIS"</i> )	D-ATIS	Meteorological or meteorology	MET
Distress phase	DETRESFA	Meteorological information for aircraft in flight	VOLMET
Electronic flight instrument system ( <i>to be pronounced "EE-FIS"</i> )	EFIS	Minimum operational performance standards	MOPS
Emergency location beacon — aircraft	ELBA	Multi-functional transport satellite (MTSAT) satellite-based augmentation system ( <i>to be pronounced "EM-SAS"</i> )	MSAS

National AIS system centre	NASC	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
None <i>or</i> I have nothing to send you	NIL	Spot wind	SPOT
No significant change ( <i>used in trend-type landing forecasts</i> )	NOSIG	Standard instrument arrival	STAR
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	Standard instrument departure	SID
On-line data interchange	OLDI	Tail wind	TAIL
Operational meteorological ( <i>information</i> )	OPMET	Temporary <i>or</i> temporarily	TEMPO
Operations	OPS	Traffic alert and collision avoidance system resolution advisory ( <i>to be pronounced "TEE-CAS-AR-AY"</i> )	TCAS RA
Precision approach path indicator	PAPI	Traffic information broadcast by aircraft	TIBA
Probability	PROB	Trend forecast	TREND
Receiver autonomous integrity monitoring	RAIM	Tsunami ( <i>used in aerodrome warnings</i> )	TSUNAMI
Regional AIS system centre	RASC	T visual approach slope indicator system ( <i>to be pronounced "TEE-VASIS"</i> )	T-VASIS
Regional OPMET bulletin exchange ( <i>scheme</i> )	ROBEX	UHF tactical air navigation aid	TACAN
Rime ( <i>used in aerodrome warnings</i> )	RIME	Uncertainty phase	INCERFA
Satellite-based augmentation system ( <i>to be pronounced "ESS-BAS"</i> )	SBAS	Until	TIL
Satellite communication ( <i>used only when referring generally to both voice and data satellite communication or only data satellite communication</i> )	SATCOM	Vertical navigation ( <i>to be pronounced "VEE-NAV"</i> )	VNAV
Satellite voice communication	SATVOICE	Visibility, cloud and present weather better than prescribed values or conditions ( <i>to be pronounced "KAV-OH-KAY"</i> )	CAVOK
Selective calling system	SELCAL	VOR and TACAN combination	VORTAC
		Wide area augmentation system	WAAS
		Will comply	WILCO

**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	RSP	Required surveillance performance
FMS	Flight management system	RVR	Runway visual range
GCA	Ground controlled approach system <i>or</i> ground controlled approach	RVSM	Reduced vertical separation minimum [300 m (1 000 ft) between FL 290 and FL 410]
GLS	GBAS landing system	SSR	Secondary surveillance radar
GNSS	Global navigation satellite system	TMA	Terminal control area
GPS	Global positioning system	UHF	Ultra high frequency [300 to 3 000 MHz]
GPWS	Ground proximity warning system	UIR	Upper flight information region
HF	High frequency [3 000 to 30 000 kHz]	UTC	Coordinated universal time
IFR	Instrument flight rules	VFR	Visual flight rules
ILS	Instrument landing system	VHF	Very high frequency [30 to 300 MHz]
IMC	Instrument meteorological conditions	VIP	Very important person
		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
Flight information region	FIR	Required navigation performance	RNP
Flight management system	FMS	Required surveillance performance	RSP
GBAS landing system	GLS	Runway visual range	RVR
Global navigation satellite system	GNSS	Secondary surveillance radar	SSR
Global positioning system	GPS	Terminal control area	TMA
Ground controlled approach system <i>or</i> ground controlled approach	GCA	Ultra high frequency [300 to 3 000 MHz]	UHF
Ground proximity warning system	GPWS	Upper flight information region	UIR
		Very high frequency [30 to 300 MHz]	VHF
		Very important person	VIP
		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
	Four-frequency duplex telegraphy	—	F7B

<i>Type of modulation of main carrier</i>	<i>Type of transmission</i>	<i>Supplementary characteristics</i>	<i>Abbreviation</i>
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
<i>Rating scale</i>	<i>Signal strength</i>	<i>Degrading effect of</i>			<i>Overall readability (QRK)</i>
		<i>Interference (QRM)</i>	<i>Noise (QRN)</i>	<i>Propagation disturbance</i>	
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
<i>Rating scale</i>	<i>Signal strength</i>	<i>Degrading effect of</i>			<i>Frequency of fading</i>	<i>Modulation</i>		<i>Overall rating</i>
		<i>Interference (QRM)</i>	<i>Noise (QRN)</i>	<i>Propagation disturbance</i>		<i>Quality</i>	<i>Depth</i>	
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 the 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
-------	---------------------------	-----

***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 OBSC 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, 5.3 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 the 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, Appendix B to Chapter 6).*

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, gun firing 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

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# 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

<i>Code</i>	<i>Signification</i>	<i>Uniform abbreviated phraseology</i>
MT	Threshold ( <i>specify runway</i> )	thr
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

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

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

# 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		
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>
Sanding in progress	HS	Limited to	LT
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

— END —





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