

Doc 8400



Procedures for
Air Navigation Services

ICAO Abbreviations and Codes

This edition incorporates all amendments approved by the Council prior to 4 August 2007 and supersedes, on 22 November 2007, all previous editions of PANS-ABC (Doc 8400).

Seventh Edition — 2007

International Civil Aviation Organization

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AMENDMENTS

The issue of amendments is announced regularly in the *ICAO Journal* and in the monthly *Supplement to the Catalogue of ICAO Publications and Audio-visual Training Aids*, which holders of this publication should consult. The space below is provided to keep a record of such amendments.

RECORD OF AMENDMENTS AND CORRIGENDA

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FOREWORD

1. Introduction

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

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

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

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

2. Principles for formulation of abbreviations

The principles applied in the formulation of ICAO abbreviations are:

- a) that allocation of more than one signification to a single abbreviation should be avoided except where it can be

reasonably determined that no instances of misinterpretation would arise;

- b) that allocation of more than one abbreviation to the same signification should be avoided even though a different use is prescribed;
- c) that abbreviations should make use of the root word or words and should be derived from words common to the working languages except that where it is impracticable to apply this principle to best advantage, the abbreviation should follow the English text;
- d) that the use of a singular or plural form for the signification of an abbreviation should be selected on the basis of the more common use;
- e) that an abbreviation may represent grammatical variants of the basic signification where such application can be made without risk of confusion and the desired grammatical form can be determined from the context of the message.

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

3. Specifications governing the use of abbreviations

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

- a) use of abbreviations in the aeronautical information service: 3.6.4 of Annex 15;
- b) use of the NOTAM Code: 5.2 of Annex 15;
- c) use of abbreviations and codes in the international aeronautical telecommunications service: 3.7 of Annex 10, Volume II;
- d) use of abbreviations on aeronautical charts: 2.3.3 and 2.9 of Annex 4;
- e) use of abbreviations in plain language meteorological messages: Chapters 3, 4, 6 and 7, Appendices 1, 2 and 5 and Attachment A of Annex 3;

- f) use of abbreviations in air-reports: 4.12 of Chapter 4 and Appendix 1 of PANS-ATM (Doc 4444);
- g) use of abbreviations and designators in flight plans and other air traffic services messages: Chapters 11 and 16 and Appendices 2, 3, 5 and 6 of PANS-ATM (Doc 4444).

4. Status

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

5. Implementation

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

6. Notification of Differences

The PANS do not carry the status afforded to Standards adopted by the Council as Annexes to the Convention and,

therefore, do not come within the obligation imposed by Article 38 of the Convention to notify differences in the event of non-implementation.

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

7. Editorial Presentation

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

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

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

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

Table A. Amendments to the PANS-ABC

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

<i>Amendment</i>	<i>Source(s)</i>	<i>Subject(s)</i>	<i>Approved Applicable</i>
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
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

<i>Amendment</i>	<i>Source(s)</i>	<i>Subject(s)</i>	<i>Approved Applicable</i>
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

ABBREVIATIONS

DECODE

A			
A	Amber	ADS*	The address (<i>when this abbreviation is used to request a repetition, the question mark (IMI) precedes the abbreviation, e.g. IMI ADS</i>) (<i>to be used in AFS as a procedure signal</i>)
AAA	(<i>or AAB, AAC . . . etc., in sequence</i>) Amended meteorological message (<i>message type designator</i>)	ADS-B‡	Automatic dependent surveillance — broadcast
A/A	Air-to-air	ADS-C‡	Automatic dependent surveillance — contract
AAD	Assigned altitude deviation	ADSU	Automatic dependent surveillance unit
AAIM	Aircraft autonomous integrity monitoring	ADVS	Advisory service
AAL	Above aerodrome level	ADZ	Advise
ABI	Advance boundary information	AES	Aircraft earth station
ABM	Abeam	AFIL	Flight plan filed in the air
ABN	Aerodrome beacon	AFIS	Aerodrome flight information service
ABT	About	AFM	Yes <i>or</i> affirm <i>or</i> affirmative <i>or</i> that is correct
ABV	Above	AFS	Aeronautical fixed service
AC	Altocumulus	AFT . . .	After . . . (<i>time or place</i>)
ACARS†	(<i>to be pronounced “AY-CARS”</i>) Aircraft communication addressing and reporting system	AFTN‡	Aeronautical fixed telecommunication network
ACAS†	Airborne collision avoidance system	A/G	Air-to-ground
ACC‡	Area control centre <i>or</i> area control	AGA	Aerodromes, air routes and ground aids
ACCID	Notification of an aircraft accident	AGL	Above ground level
ACFT	Aircraft	AGN	Again
ACK	Acknowledge	AIC	Aeronautical information circular
ACL	Altimeter check location	AIDC	Air traffic services interfacility data communications
ACN	Aircraft classification number	AIP	Aeronautical information publication
ACP	Acceptance (<i>message type designator</i>)	AIRAC	Aeronautical information regulation and control
ACPT	Accept <i>or</i> accepted	AIREP†	Air-report
ACT	Active <i>or</i> activated <i>or</i> activity	AIRMET†	Information concerning en-route weather phenomena which may affect the safety of low-level aircraft operations
AD	Aerodrome	AIS	Aeronautical information services
ADA	Advisory area	ALA	Alighting area
ADC	Aerodrome chart	ALERFA†	Alert phase
ADDN	Addition <i>or</i> additional	ALR	Alerting (<i>message type designator</i>)
ADF‡	Automatic direction-finding equipment	ALRS	Alerting service
ADIZ†	(<i>to be pronounced “AY-DIZ”</i>) Air defence identification zone	ALS	Approach lighting system
ADJ	Adjacent	ALT	Altitude
ADO	Aerodrome office (<i>specify service</i>)		
ADR	Advisory route		

† 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.

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

B

B	Blue
BA	Braking action
BARO-VNAV†	(<i>to be pronounced “BAA-RO-VEE-NAV”</i>) Barometric vertical navigation
BASE†	Cloud base
BCFG	Fog patches

† 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.

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

C

. . . C	Centre (<i>preceded by runway designation number to identify a parallel runway</i>)
C	Degrees Celsius (<i>Centigrade</i>)
CA	Course to an altitude
CAT	Category
CAT	Clear air turbulence
CAVOK†	(<i>to be pronounced “KAV-OH-KAY”</i>) Visibility, cloud and present weather better than prescribed values or conditions
CB‡	(<i>to be pronounced “CEE BEE”</i>) Cumulonimbus
CC	Cirrocumulus
CCA	(<i>or CCB, CCC . . . etc., in sequence</i>) Corrected meteorological message (<i>message type designator</i>)
CD	Candela
CDN	Coordination (<i>message type designator</i>)
CF	Change frequency to . . .
CF	Course to a fix
CFM*	Confirm or I confirm (<i>to be used in AFS as a procedure signal</i>)
CGL	Circling guidance light(s)

CH	Channel
CH#	This is a channel-continuity-check of transmission to permit comparison of your record of channel-sequence numbers of messages received on the channel (<i>to be used in AFS as a procedure signal</i>)
CHG	Modification (<i>message type designator</i>)
CI	Cirrus
CIDIN†	Common ICAO data interchange network
CIT	Near or over large towns
CIV	Civil
CK	Check
CL	Centre line
CLA	Clear type of ice formation
CLBR	Calibration
CLD	Cloud
CLG	Calling
CLIMB-OUT	Climb-out area
CLR	Clear(s) or cleared to . . . or clearance
CLRD	Runway(s) cleared (<i>used in METAR/SPECI</i>)
CLSD	Close or closed or closing
CM	Centimetre
CMB	Climb to or climbing to
CMPL	Completion or completed or complete
CNL	Cancel or cancelled
CNL	Flight plan cancellation (<i>message type designator</i>)
CNS	Communications, navigation and surveillance
COM	Communications
CONC	Concrete
COND	Condition
CONS	Continuous
CONST	Construction or constructed
CONT	Continue(s) or continued
COOR	Coordinate or coordination
COORD	Coordinates
COP	Change-over point
COR	Correct or correction or corrected (<i>used to indicate corrected meteorological message; message type designator</i>)
COT	At the coast
COV	Cover or covered or covering
CPDLC‡	Controller-pilot data link communications
CPL	Current flight plan (<i>message type designator</i>)
CRC	Cyclic redundancy check
CRM	Collision risk model

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Signal for use in the teletypewriter service only.

CRZ	Cruise
CS	Call sign
CS	Cirrostratus
CTA	Control area
CTAM	Climb to and maintain
CTC	Contact
CTL	Control
CTN	Caution
CTR	Control zone
CU	Cumulus
CUF	Cumuliform
CUST	Customs
CVR	Cockpit voice recorder
CW	Continuous wave
CWY	Clearway

D

D	Downward (<i>tendency in RVR during previous 10 minutes</i>)
D . . .	Danger area (<i>followed by identification</i>)
DA	Decision altitude
D-ATIS [†]	(<i>to be pronounced "DEE-ATIS"</i>) Data link automatic terminal information service
DCD	Double channel duplex
DCKG	Docking
DCP	Datum crossing point
DCPC	Direct controller-pilot communications
DCS	Double channel simplex
DCT	Direct (<i>in relation to flight plan clearances and type of approach</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>)
DEC	December
DEG	Degrees
DEP	Depart <i>or</i> departure
DEP	Departure (<i>message type designator</i>)
DER	Departure end of the runway
DES	Descend to <i>or</i> descending to
DEST	Destination
DETRESFA [†]	Distress phase
DEV	Deviation <i>or</i> deviating
DF	Direction finding
DFDR	Digital flight data recorder

DFTI	Distance from touchdown indicator
DH	Decision height
DIF	Diffuse
DIST	Distance
DIV	Divert <i>or</i> diverting
DLA	Delay <i>or</i> delayed
DLA	Delay (<i>message type designator</i>)
DLIC	Data link initiation capability
DLY	Daily
DME [‡]	Distance measuring equipment
DNG	Danger <i>or</i> dangerous
DOM	Domestic
DP	Dew point temperature
DPT	Depth
DR	Dead reckoning
DR . . .	Low drifting (<i>followed by DU = dust, SA = sand or SN = snow</i>)
DRG	During
DS	Duststorm
DSB	Double sideband
DTAM	Descend to and maintain
DTG	Date-time group
DTHR	Displaced runway threshold
DTRT	Deteriorate <i>or</i> deteriorating
DTW	Dual tandem wheels
DU	Dust
DUC	Dense upper cloud
DUPE#	This is a duplicate message (<i>to be used in AFS as a procedure signal</i>)
DUR	Duration
D-VOLMET	Data link VOLMET
DVOR	Doppler VOR
DW	Dual wheels
DZ	Drizzle

E

E	East <i>or</i> eastern longitude
EAT	Expected approach time
EB	Eastbound
EDA	Elevation differential area
EEE#	Error (<i>to be used in AFS as a procedure signal</i>)
EET	Estimated elapsed time
EFC	Expect further clearance

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Signal for use in the teletypewriter service only.

EFIS†	(to be pronounced “EE-FIS”) Electronic flight instrument system	FATO	Final approach and take-off area
EGNOS†	(to be pronounced “EGG-NOS”) European geostationary navigation overlay service	FAX	Facsimile transmission
EHF	Extremely high frequency [30 000 to 300 000 MHz]	FBL	Light (used to indicate the intensity of weather phenomena, interference or static reports, e.g. FBL RA = light rain)
ELBA†	Emergency location beacon — aircraft	FC	Funnel cloud (tornado or water spout)
ELEV	Elevation	FCST	Forecast
ELR	Extra long range	FCT	Friction coefficient
ELT	Emergency locator transmitter	FDPS	Flight data processing system
EM	Emission	FEB	February
EMBD	Embedded in a layer (to indicate cumulonimbus embedded in layers of other clouds)	FEW	Few
EMERG	Emergency	FG	Fog
END	Stop-end (related to RVR)	FIC	Flight information centre
ENE	East-north-east	FIR‡	Flight information region
ENG	Engine	FIS	Flight information service
ENR	En route	FISA	Automated flight information service
ENRC . . .	Enroute chart (followed by name/title)	FL	Flight level
EOBT	Estimated off-block time	FLD	Field
EQPT	Equipment	FLG	Flashing
ER*	Here . . . or herewith	FLR	Flares
ESE	East-south-east	FLT	Flight
EST	Estimate or estimated or estimation (message type designator)	FLTCK	Flight check
ETA*‡	Estimated time of arrival or estimating arrival	FLUC	Fluctuating or fluctuation or fluctuated
ETD‡	Estimated time of departure or estimating departure	FLW	Follow(s) or following
ETO	Estimated time over significant point	FLY	Fly or flying
EV	Every	FM	Course from a fix to manual termination (used in navigation database coding)
EXC	Except	FM	From
EXER	Exercises or exercising or to exercise	FM . . .	From (followed by time weather change is forecast to begin)
EXP	Expect or expected or expecting	FMC	Flight management computer
EXTD	Extend or extending	FMS‡	Flight management system
F		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	Filed flight plan (message type designator)
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
		FRI	Friday
		FRNG	Firing
		FRONT†	Front (relating to weather)
		FROST†	Frost (used in aerodrome warnings)
		FRQ	Frequent
		FSL	Full stop landing

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Signal for use in the teletypewriter service only.

FSS	Flight service station
FST	First
FT	Feet (<i>dimensional unit</i>)
FTE	Flight technical error
FTP	Fictitious threshold point
FTT	Flight technical tolerance
FU	Smoke
FZ	Freezing
FZDZ	Freezing drizzle
FZFG	Freezing fog
FZRA	Freezing rain

G

G	Green
G . . .	Variations from the mean wind speed (gusts) (<i>followed by figures in METAR/SPECI and TAF</i>)
GA	Go ahead, resume sending (<i>to be used in AFS as a procedure signal</i>)
G/A	Ground-to-air
G/A/G	Ground-to-air and air-to-ground
GAGAN†	GPS and geostationary earth orbit augmented navigation
GAMET	Area forecast for low-level flights
GARP	GBAS azimuth reference point
GBAS†	(<i>to be pronounced “GEE-BAS”</i>) 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†	(<i>to be pronounced “GLO-NAS”</i>) Global orbiting navigation satellite system
GMC . . .	Ground movement chart (<i>followed by name/title</i>)
GND	Ground
GNDCK	Ground check
GNSS‡	Global navigation satellite system
GP	Glide path
GPA	Glide path angle
GPIP	Glide path intercept point

GPS‡	Global positioning system
GPWS‡	Ground proximity warning system
GR	Hail
GRAS†	(<i>to be pronounced “GRASS”</i>) 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>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
H24	Continuous day and night service
HA	Holding/racetrack to an altitude
HAPI	Helicopter approach path indicator
HBN	Hazard beacon
HDF	High frequency direction-finding station
HDG	Heading
HEL	Helicopter
HF‡	High frequency [3 000 to 30 000 kHz]
HF	Holding/racetrack to a fix
HGT	Height <i>or</i> height above
HJ	Sunrise to sunset
HLDG	Holding
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
HS	Service available during hours of scheduled operations
HURCN	Hurricane
HVDF	High and very high frequency direction-finding stations (<i>at the same location</i>)
HVY	Heavy

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Signal for use in the teletypewriter service only.

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>)

I

IAC . . .	Instrument approach chart (<i>followed by name/title</i>)
IAF	Initial approach fix
IAO	In and out of clouds
IAP	Instrument approach procedure
IAR	Intersection of air routes
IAS	Indicated airspeed
IBN	Identification beacon
IC	Ice crystals (<i>very small ice crystals in suspension, also known as diamond dust</i>)
ICE	Icing
ID	Identifier <i>or</i> identify
IDENT†	Identification
IF	Intermediate approach fix
IFF	Identification friend/foe
IFR‡	Instrument flight rules
IGA	International general aviation
ILS‡	Instrument landing system
IM	Inner marker
IMC‡	Instrument meteorological conditions
IMG	Immigration
IMI*	Interrogation sign (question mark) (<i>to be used in AFS as a procedure signal</i>)
IMPR	Improve <i>or</i> improving
IMT	Immediate <i>or</i> immediately
INA	Initial approach
INBD	Inbound
INC	In cloud
INCERFA†	Uncertainty phase
INFO†	Information
INOP	Inoperative
INP	If not possible
INPR	In progress
INS	Inertial navigation system
INSTL	Install <i>or</i> installed <i>or</i> installation

INSTR	Instrument
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
ISA	International standard atmosphere
ISB	Independent sideband
ISOL	Isolated

J

JAN	January
JTST	Jet stream
JUL	July
JUN	June

K

KG	Kilograms
KHZ	Kilohertz
KIAS	Knots indicated airspeed
KM	Kilometres
KMH	Kilometres per hour
KPA	Kilopascal
KT	Knots
KW	Kilowatts

L

. . . L	Left (<i>preceded by runway designation number to identify a parallel runway</i>)
L	Locator (<i>see</i> LM, LO)
L	Low pressure area <i>or</i> the centre of low pressure
LAM	Logical acknowledgement (<i>message type designator</i>)
LAN	Inland
LAT	Latitude

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Signal for use in the teletypewriter service only.

LCA	Local <i>or</i> locally <i>or</i> location <i>or</i> located	MAA	Maximum authorized altitude
LDA	Landing distance available	MAG	Magnetic
LDAH	Landing distance available, helicopter	MAHF	Missed approach holding fix
LDG	Landing	MAINT	Maintenance
LDI	Landing direction indicator	MAP	Aeronautical maps and charts
LEN	Length	MAPT	Missed approach point
LF	Low frequency [30 to 300 kHz]	MAR	At sea
LGT	Light <i>or</i> lighting	MAR	March
LGTD	Lighted	MAS	Manual A1 simplex
LIH	Light intensity high	MATF	Missed approach turning fix
LIL	Light intensity low	MAX	Maximum
LIM	Light intensity medium	MAY	May
LINE	Line (<i>used in SIGMET</i>)	MBST	Microburst
LM	Locator, middle	MCA	Minimum crossing altitude
LMT	Local mean time	MCW	Modulated continuous wave
LNAV†	(<i>to be pronounced “EL-NAV”</i>) Lateral navigation	MDA	Minimum descent altitude
LNG	Long (<i>used to indicate the type of approach desired or required</i>)	MDF	Medium frequency direction-finding station
LO	Locator, outer	MDH	Minimum descent height
LOC	Localizer	MEA	Minimum en-route altitude
LONG	Longitude	MEHT	Minimum eye height over threshold (<i>for visual approach slope indicator systems</i>)
LORAN†	LORAN (<i>long range air navigation system</i>)	MET†	Meteorological <i>or</i> meteorology
LPV	Localizer performance with vertical guidance	METAR†	Aerodrome routine meteorological report (<i>in meteorological code</i>)
LR	The last message received by me was . . . (<i>to be used in AFS as a procedure signal</i>)	MET REPORT	Local routine meteorological report (<i>in abbreviated plain language</i>)
LRG	Long range	MF	Medium frequency [300 to 3 000 kHz]
LS	The last message sent by me was . . . <i>or</i> Last message was . . . (<i>to be used in AFS as a procedure signal</i>)	MHDF	Medium and high frequency direction-finding stations (<i>at the same location</i>)
LTD	Limited	MHVDF	Medium, high and very high frequency direction-finding stations (<i>at the same location</i>)
LTP	Landing threshold point	MHZ	Megahertz
LTT	Landline teletypewriter	MID	Mid-point (<i>related to RVR</i>)
LV	Light and variable (<i>relating to wind</i>)	MIFG	Shallow fog
LVE	Leave <i>or</i> leaving	MIL	Military
LVL	Level	MIN*	Minutes
LVP	Low visibility procedures	MIS	Missing . . . (<i>transmission identification</i>) (<i>to be used in AFS as a procedure signal</i>)
LYR	Layer <i>or</i> layered	MKR	Marker radio beacon
M		MLS‡	Microwave landing system
. . . M	Metres (<i>preceded by figures</i>)	MM	Middle marker
M . . .	Mach number (<i>followed by figures</i>)	MNM	Minimum
M . . .	Minimum value of runway visual range (<i>followed by figures in METAR/SPECI</i>)	MNPS	Minimum navigation performance specifications

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Signal for use in the teletypewriter service only.

O			
OAC	Oceanic area control centre	P . . .	Prohibited area (<i>followed by identification</i>)
OAS	Obstacle assessment surface	PA	Precision approach
OBS	Observe <i>or</i> observed <i>or</i> observation	PALS	Precision approach lighting system (<i>specify category</i>)
OBSC	Obscure <i>or</i> obscured <i>or</i> obscuring	PANS	Procedures for air navigation services
OBST	Obstacle	PAPI†	Precision approach path indicator
OCA	Obstacle clearance altitude	PAR‡	Precision approach radar
OCA	Oceanic control area	PARL	Parallel
OCC	Occulting (<i>light</i>)	PATC . . .	Precision approach terrain chart (<i>followed by name/title</i>)
OCH	Obstacle clearance height	PAX	Passenger(s)
OCNL	Occasional <i>or</i> occasionally	PCD	Proceed <i>or</i> proceeding
OCS	Obstacle clearance surface	PCL	Pilot-controlled lighting
OCT	October	PCN	Pavement classification number
OFZ	Obstacle free zone	PDC‡	Pre-departure clearance
OGN	Originate (<i>to be used in AFS as a procedure signal</i>)	PDG	Procedure design gradient
OHD	Overhead	PER	Performance
OIS	Obstacle identification surface	PERM	Permanent
OK*	We agree <i>or</i> It is correct (<i>to be used in AFS as a procedure signal</i>)	PIB	Pre-flight information bulletin
OLDI†	On-line data interchange	PJE	Parachute jumping exercise
OM	Outer marker	PL	Ice pellets
OPA	Opaque, white type of ice formation	PLA	Practice low approach
OPC	Control indicated is operational control	PLN	Flight plan
OPMET†	Operational meteorological (<i>information</i>)	PLVL	Present level
OPN	Open <i>or</i> opening <i>or</i> opened	PN	Prior notice required
OPR	Operator <i>or</i> operate <i>or</i> operative <i>or</i> operating <i>or</i> operational	PNR	Point of no return
OPS†	Operations	PO	Dust/sand whirls (<i>dust devils</i>)
O/R	On request	POB	Persons on board
ORD	Order	POSS	Possible
OSV	Ocean station vessel	PPI	Plan position indicator
OTLK	Outlook (<i>used in SIGMET messages for volcanic ash and tropical cyclones</i>)	PPR	Prior permission required
OTP	On top	PPSN	Present position
OTS	Organized track system	PRFG	Aerodrome partially covered by fog
OUBD	Outbound	PRI	Primary
OVC	Overcast	PRKG	Parking
		PROB†	Probability
		PROC	Procedure
		PROV	Provisional
		PRP	Point-in-space reference point
		PS	Plus
		PSG	Passing
		PSN	Position
		PSP	Pierced steel plank
		PSR‡	Primary surveillance radar
		PSYS	Pressure system(s)
		PTN	Procedure turn
P			
P . . .	Maximum value of wind speed or runway visual range (<i>followed by figures in METAR/SPECI and TAF</i>)		

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Signal for use in the teletypewriter service only.

PTS	Polar track structure		R
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>	... R	Right <i>(preceded by runway designation number to identify a parallel runway)</i>
QDM‡	Magnetic heading <i>(zero wind)</i>	R	Rate of turn
QDR	Magnetic bearing	R	Red
QFE‡	Atmospheric pressure at aerodrome elevation <i>(or at runway threshold)</i>	R . . .	Restricted area <i>(followed by identification)</i>
QFU	Magnetic orientation of runway	R . . .	Runway <i>(followed by figures in METAR/SPECI)</i>
QGE	What is my distance to your station? <i>or</i> Your distance to my station is <i>(distance figures and units)</i> <i>(to be used in radiotelegraphy as a Q Code)</i>	R*	Received <i>(acknowledgement of receipt)</i> <i>(to be used in AFS as a procedure signal)</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>	RA	Rain
QNH‡	Altimeter sub-scale setting to obtain elevation when on the ground	RA	Resolution advisory
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>	RAC	Rules of the air and air traffic services
QTA	Shall I cancel telegram number . . . ? <i>or</i> Cancel telegram number . . . <i>(to be used in AFS as a Q Code)</i>	RAG	Ragged
QTE	True bearing	RAG	Runway arresting gear
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>	RAI	Runway alignment indicator
QUAD	Quadrant	RAIM†	Receiver autonomous integrity monitoring
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>	RASC†	Regional AIS system centre
		RASS	Remote altimeter setting source
		RB	Rescue boat
		RCA	Reach cruising altitude
		RCC	Rescue coordination centre
		RCF	Radiocommunication failure <i>(message type designator)</i>
		RCH	Reach <i>or</i> reaching
		RCL	Runway centre line
		RCLL	Runway centre line light(s)
		RCLR	Recleared
		RCP‡	Required communication performance
		RDH	Reference datum height
		RDL	Radial
		RDO	Radio
		RE	Recent <i>(used to qualify weather phenomena, e.g. RERA = recent rain)</i>
		REC	Receive <i>or</i> receiver
		REDL	Runway edge light(s)
		REF	Reference to . . . <i>or</i> refer to . . .
		REG	Registration
		RENL	Runway end light(s)
		REP	Report <i>or</i> reporting <i>or</i> reporting point
		REQ	Request <i>or</i> requested
		ERTE	Re-route
		RESA	Runway end safety area
		RF	Constant radius arc to a fix

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Signal for use in the teletypewriter service only.

RG	Range (<i>lights</i>)	RTF	Radiotelephone
RHC	Right-hand circuit	RTG	Radiotelegraph
RIF	Reclearance in flight	RTHL	Runway threshold light(s)
RIME†	Rime (<i>used in aerodrome warnings</i>)	RTN	Return <i>or</i> returned <i>or</i> returning
RITE	Right (<i>direction of turn</i>)	RTODAH	Rejected take-off distance available, helicopter
RL	Report leaving	RTS	Return to service
RLA	Relay to	RTT	Radioteletypewriter
RLCE	Request level change en route	RTZL	Runway touchdown zone light(s)
RLLS	Runway lead-in lighting system	RUT	Standard regional route transmitting frequencies
RLNA	Request level not available	RV	Rescue vessel
RMK	Remark	RVR‡	Runway visual range
RNAV†	(<i>to be pronounced “AR-NAV”</i>) Area navigation	RVSM‡	Reduced vertical separation minimum (300 m (1 000 ft)) between FL 290 and FL 410
RNG	Radio range	RWY	Runway
RNP‡	Required navigation performance		
ROBEX†	Regional OPMET bulletin exchange (<i>scheme</i>)		
ROC	Rate of climb		
ROD	Rate of descent		
ROFOR	Route forecast (<i>in meteorological code</i>)		
RON	Receiving only		
RPDS	Reference path data selector		
RPI‡	Radar position indicator		
RPL	Repetitive flight plan		
RPLC	Replace <i>or</i> replaced		
RPS	Radar position symbol		
RPT*	Repeat <i>or</i> I repeat (<i>to be used in AFS as a procedure signal</i>)		
RQ*	Request (<i>to be used in AFS as a procedure signal</i>)		
RQMNTS	Requirements		
RQP	Request flight plan (<i>message type designator</i>)		
RQS	Request supplementary flight plan (<i>message type designator</i>)		
RR	Report reaching		
RRA	(<i>or RRB, RRC . . . etc., in sequence</i>) Delayed meteorological message (<i>message type designator</i>)		
RSC	Rescue sub-centre		
RSCD	Runway surface condition		
RSP	Responder beacon		
RSR	En-route surveillance radar		
RSS	Root sum square		
RTD	Delayed (<i>used to indicate delayed meteorological message; message type designator</i>)		
RTE	Route		

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Signal for use in the teletypewriter service only.

SELCAL†	Selective calling system	SPOC	SAR point of contact
SEP	September	SPOT†	Spot wind
SER	Service <i>or</i> servicing <i>or</i> served	SQ	Squall
SEV	Severe (<i>used e.g. to qualify icing and turbulence reports</i>)	SQL	Squall line
SFC	Surface	SR	Sunrise
SG	Snow grains	SRA	Surveillance radar approach
SGL	Signal	SRE	Surveillance radar element of precision approach radar system
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>)	SRG	Short range
SHF	Super high frequency [3 000 to 30 000 MHz]	SRR	Search and rescue region
SI	International system of units	SRY	Secondary
SID†	Standard instrument departure	SS	Sandstorm
SIF	Selective identification feature	SS	Sunset
SIG	Significant	SSB	Single sideband
SIGMET†	Information concerning en-route weather phenomena which may affect the safety of aircraft operations	SSE	South-south-east
SIMUL	Simultaneous <i>or</i> simultaneously	SSR‡	Secondary surveillance radar
SIWL	Single isolated wheel load	SST	Supersonic transport
SKC	Sky clear	SSW	South-south-west
SKED	Schedule <i>or</i> scheduled	ST	Stratus
SLP	Speed limiting point	STA	Straight-in approach
SLW	Slow	STAR†	Standard instrument arrival
SMC	Surface movement control	STD	Standard
SMR	Surface movement radar	STF	Stratiform
SN	Snow	STN	Station
SNOCLO	Aerodrome closed due to snow (<i>used in METAR/SPECI</i>)	STNR	Stationary
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	STOL	Short take-off and landing
SOC	Start of climb	STS	Status
SPECI†	Aerodrome special meteorological report (<i>in meteorological code</i>)	STWL	Stopway light(s)
SPECIAL†	Local special meteorological report (<i>in abbreviated plain language</i>)	SUBJ	Subject to
SPI	Special position indicator	SUN	Sunday
SPL	Supplementary flight plan (<i>message type designator</i>)	SUP	Supplement (<i>AIP Supplement</i>)
		SUPPS	Regional supplementary procedures
		SVC	Service message
		SVCBL	Serviceable
		SW	South-west
		SWB	South-westbound
		SWY	Stopway
			T
		T	Temperature
		TA	Traffic advisory
		TA	Transition altitude
		TAA	Terminal arrival altitude
		TACAN†	UHF tactical air navigation aid

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Signal for use in the teletypewriter service only.

UIR‡	Upper flight information region
ULR	Ultra long range
UNA	Unable
UNAP	Unable to approve
UNL	Unlimited
UNREL	Unreliable
UP	Unidentified precipitation (<i>used in automated METAR/SPECI</i>)
U/S	Unserviceable
UTA	Upper control area
UTC‡	Coordinated Universal Time

V

... V ...	Variations from the mean wind direction (<i>preceded and followed by figures in METAR/SPECI, e.g. 350V070</i>)
VA	Heading to an altitude
VA	Volcanic ash
VAAC	Volcanic ash advisory centre
VAC ...	Visual approach chart (<i>followed by name/title</i>)
VAL	In valleys
VAN	Runway control van
VAR	Magnetic variation
VAR	Visual-aural radio range
VASIS	Visual approach slope indicator systems
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>)
VCY	Vicinity
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
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
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
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
WITEM	Forecast upper wind and temperature for aviation
WIP	Work in progress
WKN	Weaken <i>or</i> weakening

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WNW	West-north-west	XNG	Crossing
WO	Without	XS	Atmospherics
WPT	Way-point		
WRNG	Warning		
WS	Wind shear		Y
WSPD	Wind speed		
WSW	West-south-west	Y	Yellow
WT	Weight	YCZ	Yellow caution zone (<i>runway lighting</i>)
WTSPT	Waterspout	YES*	Yes (affirmative) (<i>to be used in AFS as a procedure signal</i>)
WWW	Worldwide web		
WX	Weather	YR	Your
	X		Z
X	Cross	Z	Coordinated Universal Time (<i>in meteorological messages</i>)
XBAR	Crossbar (<i>of approach lighting system</i>)		

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ABBREVIATIONS

ENCODE

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

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

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Signal for use in the teletypewriter service only.

Available <i>or</i> availability	AVBL	Centimetre	CM
Average	AVG	Centre (<i>preceded by runway designation number to identify a parallel runway</i>)	... C
Aviation gasoline	AVGAS†	Centre line	CL
Aerodrome meteorological report (<i>in meteorological code</i>)	METAR†	Change frequency to ...	CF
Aerodrome special meteorological report (<i>in meteorological code</i>)	SPECI†	Change-over point	COP
Azimuth	AZM	Channel	CH
		Check	CK
		Circling guidance light(s)	CGL
		Cirrocumulus	CC
		Cirrostratus	CS
		Cirrus	CI
		Civil	CIV
		Clear air turbulence	CAT
		Clear(s) <i>or</i> cleared to ... <i>or</i> clearance	CLR
		Clear type of ice formation	CLA
		Clearway	CWY
		Climb-out area	CLIMB-OUT
		Climb to <i>or</i> climbing to	CMB
		Climb to and maintain	CTAM
		Close <i>or</i> closed <i>or</i> closing	CLSD
		Cloud	CLD
		Cloud base	BASE†
		Cloud top	TOP†
		Cockpit voice recorder	CVR
		Collision risk model	CRM
		Completion <i>or</i> completed <i>or</i> complete	CMPL
		Commercial broadcasting station	BS
		Common ICAO data interchange network	CIDIN†
		Communications	COM
		Communications, navigation and surveillance	CNS
		Concrete	CONC
		Condition	COND
		Confirm <i>or</i> I confirm (<i>to be used in AFS as a procedure signal</i>)	CFM*
		Constant radius arc to a fix	RF
		Construction <i>or</i> constructed	CONST
		Contact	CTC
		Continue(s) <i>or</i> continued	CONT
		Continuous	CONS
		Continuous day and night service	H24
		Continuous wave	CW
		Control	CTL
		Control area	CTA
		Control indicated is operational control	OPC

B**C**

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Controller-pilot data link communications	CPDLC‡	Datum crossing point	DCP
Control zone	CTR	Dead reckoning	DR
Coordinate <i>or</i> coordination	COOR	December	DEC
Coordinated Universal Time	UTC‡	Decision altitude	DA
Coordinated Universal Time <i>(in meteorological messages)</i>	Z	Decision height	DH
Coordinates	COORD	Degrees	DEG
Coordination (<i>message type designator</i>)	CDN	Degrees Celsius (<i>Centigrade</i>)	C
Correct <i>or</i> correction <i>or</i> corrected (<i>used to indicate corrected meteorological message; message type designator</i>)	COR	Delay (<i>message type designator</i>)	DLA
Corrected meteorological message <i>(message type designator)</i>	CCA (<i>or CCB, CCC . . . etc., in sequence</i>)	Delay <i>or</i> delayed	DLA
	FA	Delayed (<i>used to indicate delayed meteorological message; message type designator</i>)	RTD
Course from a fix to an altitude		Delayed meteorological message (<i>message type designator</i>)	RRA (<i>or RRB, RRC . . . etc., in sequence</i>)
Course from a fix to manual termination <i>(used in navigation database coding)</i>	FM		
Course to a fix	CF	Dense upper cloud	DUC
Course to an altitude	CA	Depart <i>or</i> departure	DEP
Cover <i>or</i> covered <i>or</i> covering	COV	Departure (<i>message type designator</i>)	DEP
Cross	X	Departure end of the runway	DER
Crossbar (<i>of approach lighting system</i>)	XBAR	Depth	DPT
Crossing	XNG	Descend to <i>or</i> descending to	DES
Cruise	CRZ	Descend to and maintain	DTAM
Cumuliform	CUF	Destination	DEST
Cumulonimbus (<i>to be pronounced “CEE BEE”</i>)	CB‡	Deteriorate <i>or</i> deteriorating	DTRT
Cumulus	CU	Deviation <i>or</i> deviating	DEV
Current flight plan (<i>message type designator</i>)		Dew point temperature	DP
	CPL	Diffuse	DIF
Customs	CUST	Digital flight data recorder	DFDR
Cyclic redundancy check	CRC	Direct (<i>in relation to flight plan clearances and type of approach</i>)	DCT
		Direct controller-pilot communications	DCPC
		Direction finding	DF
		Displaced runway threshold	DTHR
		Distance	DIST
		Distance from touchdown indicator	DFTI
		Distance measuring equipment	DME‡
		Distress phase	DETRESFA‡
Daily	DLY	Divert <i>or</i> diverting	DIV
Danger <i>or</i> dangerous	DNG	Docking	DCKG
Danger area (<i>followed by identification</i>)	D . . .	Domestic	DOM
Data link automatic terminal information service (<i>to be pronounced “DEE-ATIS”</i>)	D-ATIS†	Doppler VOR	DVOR
Data link initiation capability	DLIC	Double channel duplex	DCD
Data link VOLMET	D-VOLMET	Double channel simplex	DCS
Date-time group	DTG	Double sideband	DSB

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Signal for use in the teletypewriter service only.

Downward (<i>tendency in RVR during previous 10 minutes</i>)	D	Estimated off-block time	EOBT
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	Estimated time of arrival <i>or</i> estimating arrival	ETA*‡
Drizzle	DZ	Estimated time of departure <i>or</i> estimating departure	ETD‡
Dual tandem wheels	DTW	Estimated time over significant point	ETO
Dual wheels	DW	European geostationary navigation overlay service (<i>to be pronounced “EGG-NOS”</i>)	EGNOS†
Duration	DUR	Every	EV
During	DRG	Except	EXC
Dust	DU	Exercises <i>or</i> exercising <i>or</i> to exercise	EXER
Dust/sand whirls (<i>dust devils</i>)	PO	Expect <i>or</i> expected <i>or</i> expecting	EXP
Duststorm	DS	Expect further clearance	EFC
		Expected approach time	EAT
		Extend <i>or</i> extending	EXTD
		Extra long range	ELR
		Extremely high frequency [30 000 to 300 000 MHz]	EHF
East <i>or</i> eastern longitude	E		
Eastbound	EB		
East-north-east	ENE		
East-south-east	ESE		
Effective from <i>or</i> with effect from	WEF		
Effective immediately <i>or</i> with immediate effect	WIE	Facilitation of international air transport	FAL
Electronic flight instrument system (<i>to be pronounced “EE-FIS”</i>)	EFIS†	Facilities	FAC
Elevation	ELEV	Facsimile transmission	FAX
Elevation differential area	EDA	February	FEB
Embedded in a layer (<i>to indicate cumulonimbus embedded in layers of other clouds</i>)	EMBD	Feet (<i>dimensional unit</i>)	FT
Emergency	EMERG	Feet per minute	FPM
Emergency location beacon — aircraft	ELBA†	Few	FEW
Emergency locator transmitter	ELT	Fictitious threshold point	FTP
Emission	EM	Field	FLD
Engine	ENG	Filed flight plan (<i>message type designator</i>)	FPL
En route	ENR	Final approach	FNA
Enroute chart (<i>followed by name/title</i>)	ENRC . . .	Final approach and take-off area	FATO
En-route surveillance radar	RSR	Final approach fix	FAF
Equipment	EQPT	Final approach point	FAP
Error (<i>to be used in AFS as a procedure signal</i>)	EEE#	Final approach segment	FAS
Estimate <i>or</i> estimated <i>or</i> estimation (<i>message type designator</i>)	EST	Firing	FRNG
Estimated elapsed time	EET	First	FST
		Fixed	F
		Flares	FLR
		Flashing	FLG
		Flight	FLT
		Flight check	FLTCK
		Flight data processing system	FDPS

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Flight information centre	FIC	G	
Flight information region	FIR‡		
Flight information service	FIS	GBAS azimuth reference point	GARP
Flight level	FL	General	GEN
Flight management computer	FMC	Geographic <i>or</i> true	GEO
Flight management system	FMS‡	Geoid undulation	GUND
Flight path alignment point	FPAP	Glide path	GP
Flight plan	PLN	Glide path angle	GPA
Flight plan cancellation (<i>message type designator</i>)	CNL	Glide path intercept point	GPIP
Flight plan filed in the air	AFIL	Glider	GLD
Flight plan route	FPR	Global navigation satellite system	GNSS‡
Flight service station	FSS	Global orbiting navigation satellite system (<i>to be pronounced “GLO-NAS”</i>)	GLONASS†
Flight technical error	FTE	Global positioning system	GPS‡
Flight technical tolerance	FTT	Go ahead, resume sending (<i>to be used in AFS as a procedure signal</i>)	GA
Flow management unit	FMU	GPS and geostationary earth orbit augmented navigation	GAGAN†
Fluctuating <i>or</i> fluctuation <i>or</i> fluctuated	FLUC	Grass landing area	GRASS
Fly <i>or</i> flying	FLY	Gravel	GRVL
Fog	FG	Green	G
Fog patches	BCFG	Ground	GND
Follow(s) <i>or</i> following	FLW	Ground-based augmentation system (<i>to be pronounced “GEE-BAS”</i>)	GBAS†
Forecast	FCST	Ground-based regional augmentation system (<i>to be pronounced “GRASS”</i>)	GRAS†
Forecast upper wind and temperature for aviation	WITEM	Ground — by visual reference to the	VSA
Freezing	FZ	Ground check	GNDCK
Freezing drizzle	FZDZ	Ground controlled approach system <i>or</i> ground controlled approach	GCA‡
Freezing fog	FZFG	Ground earth station	GES
Freezing rain	FZRA	Ground movement chart (<i>followed by name/title</i>)	GMC . . .
Frequency	FREQ	Ground proximity warning system	GPWS‡
Frequent	FRQ	Ground speed	GS
Friction coefficient	FCT	Ground-to-air	G/A
Friday	FRI	Ground-to-air and air-to-ground	G/A/G
From	FM		
From (<i>followed by time 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*	H	
Front (<i>relating to weather</i>)	FRONT†	Hail	GR
Frost (<i>used in aerodrome warnings</i>)	FROST†	Hazard beacon	HBN
Fuel remaining	FR	Haze	HZ
Full stop landing	FSL	Heading	HDG
Funnel cloud (<i>tornado or water spout</i>)	FC		

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In valleys	VAL	Light intensity high	LIH
Isolated	ISOL	Light intensity low	LIL
		Light intensity medium	LIM
		Lighted	LGTD
J		Limited	LTD
		Line (<i>used in SIGMET</i>)	LINE
January	JAN	Local <i>or</i> locally <i>or</i> location <i>or</i> located	LCA
Jet stream	JTST	Local mean time	LMT
July	JUL	Local routine meteorological report (<i>in abbreviated plain language</i>)	MET REPORT
June	JUN	Local special meteorological report (<i>in abbreviated plain language</i>)	SPECIAL†
K		Localizer	LOC
		Localizer performance with vertical guidance	LPV
Kilograms	KG	Locator	L
Kilohertz	KHZ	Locator, middle	LM
Kilometres	KM	Locator, outer	LO
Kilometres per hour	KMH	Logical acknowledgement (<i>message type designator</i>)	LAM
Kilopascal	KPA	Long (<i>used to indicate the type of approach desired or required</i>)	LNG
Kilowatts	KW	Longitude	LONG
Knots	KT	Long range	LRG
Knots indicated airspeed	KIAS	LORAN (<i>long range air navigation system</i>)	LORAN†
L		Low drifting (<i>followed by DU = dust, SA = sand or SN = snow</i>)	DR . . .
Landing	LDG	Low frequency [30 to 300 kHz]	LF
Landing direction indicator	LDI	Low pressure area <i>or</i> the centre of low pressure	L
Landing distance available	LDA	Low visibility procedures	LVP
Landing distance available, helicopter	LDAH		
Landing threshold point	LTP		
Landing threshold point	LTT		
Landline teletypewriter	LTT		
Lateral navigation (<i>to be pronounced “EL-NAV”</i>)	LNAV†	M	
Latitude	LAT	Mach number (<i>followed by figures</i>)	M . . .
Layer <i>or</i> layered	LYR	Magnetic	MAG
Leave <i>or</i> leaving	LVE	Magnetic bearing	QDR
Left (<i>preceded by runway designation number to identify a parallel runway</i>)	. . . L	Magnetic heading (<i>zero wind</i>)	QDM‡
Length	LEN	Magnetic orientation of runway	QFU
Level	LVL	Magnetic variation	VAR
Light (<i>used to indicate the intensity of weather phenomena, interference <i>or</i> static reports, e.g. light rain = FBL RA</i>)	FBL	Maintain	MNTN
Light <i>or</i> lighting	LGT	Maintenance	MAINT
Light and variable (<i>relating to wind</i>)	LV	Manual A1 simplex	MAS
		March	MAR
		Marker radio beacon	MKR

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Navigation	NAV	Notice distributed by means of	
Navigation system error	NSE	telecommunication containing	
Near <i>or</i> over large towns	CIT	information concerning the	
Next	NXT	establishment, condition or change	
Night	NGT	in any aeronautical facility, service,	
Nil significant cloud	NSC	procedure or hazard, the timely	
Nil significant weather	NSW	knowledge of which is essential to	
Nimbostratus	NS	personnel concerned with flight	
No <i>or</i> negative <i>or</i> permission not granted		operations	NOTAM†
<i>or</i> that is not correct	NEG	Notification of an aircraft accident	ACCID
No change	NC	November	NOV
No cloud detected (<i>used in automated</i>		Number	NR
<i>METAR/SPECI</i>)	NCD		
No directional variations available (<i>used in</i>			
<i>automated METAR/SPECI</i>)	NDV		
No distinct tendency (<i>in RVR during</i>			
<i>previous 10 minutes</i>)	N		
No (negative) (<i>to be used in AFS as a</i>			
<i>procedure signal</i>)	NO	Obscure <i>or</i> obscured <i>or</i> obscuring	OBSC
No reply heard	NRH	Observe <i>or</i> observed <i>or</i> observation	OBS
No significant change (<i>used in trend-type</i>		Obstacle	OBST
<i>landing forecasts</i>)	NOSIG†	Obstacle assessment surface	OAS
No specific working hours	HX	Obstacle clearance altitude	OCA
No transgression zone	NTZ‡	Obstacle clearance height	OCH
Noise abatement departure procedure	NADP	Obstacle clearance surface	OCS
Non-directional radio beacon	NDB‡	Obstacle free zone	OFZ
Non-precision approach	NPA	Obstacle identification surface	OIS
None <i>or</i> I have nothing to send to you	NIL*†	Occasional <i>or</i> occasionally	OCNL
Normal	NML	Occulting (<i>light</i>)	OCC
Normal operating zone	NOZ‡	Ocean station vessel	OSV
North <i>or</i> northern latitude	N	Oceanic area control centre	OAC
North Atlantic	NAT	Oceanic control area	OCA
Northbound	NB	October	OCT
North-east	NE	On-line data interchange	OLDI†
North-eastbound	NEB	On request	O/R
North-north-east	NNE	On top	OTP
North-north-west	NNW	Opaque, white type of ice formation	OPA
North-west	NW	Open <i>or</i> opening <i>or</i> opened	OPN
North-westbound	NWB	Operations	OPS†
Not before	NBFR	Operator <i>or</i> operate <i>or</i> operative	
		<i>or</i> operating <i>or</i> operational	OPR
		Operational control is the control indicated	OPC
		Operational meteorological (<i>information</i>)	OPMET†
		Order	ORD
		Organized track system	OTS
		Originate (<i>to be used in AFS as a procedure</i>	
		<i>signal</i>)	OGN
		Outbound	OUBD

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

Signal for use in the teletypewriter service only.

Outer marker	OM	Procedure	PROC
Outlook (<i>used in SIGMET messages for volcanic ash and tropical cyclones</i>)	OTLK	Procedure design gradient	PDG
Overcast	OVC	Procedure turn	PTN
Overhead	OHD	Procedures for air navigation services	PANS
		Proceed <i>or</i> proceeding	PCD
		Processed meteorological data in the form of grid point values expressed in binary form (<i>meteorological code</i>)	GRIB
		Prohibited area (<i>followed by identification</i>)	P . . .
		Provisional	PROV
P			
Parachute jumping exercise	PJE		
Parallel	PARL		
Parking	PRKG		
Passenger(s)	PAX		
Passing	PSG		
Pavement classification number	PCN		
Performance	PER		
Permanent	PERM		
Persons on board	POB		
Pierced steel plank	PSP		
Pilot-controlled lighting	PCL		
Plan position indicator	PPI		
Plus	PS		
Point-in-space reference point	PRP		
Point of no return	PNR		
Polar track structure	PTS		
Position	PSN		
Possible	POSS		
Power	PWR		
Practice low approach	PLA		
Precision approach	PA		
Precision approach lighting system (<i>specify category</i>)	PALS		
Precision approach path indicator	PAPI†		
Precision approach radar	PAR‡		
Precision approach terrain chart (<i>followed by name/title</i>)	PATC . . .		
Pre-departure clearance	PDC‡		
Preflight 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		
Probability	PROB†		
		Q	
		Quadrant	QUAD
		R	
		Radar position indicator	RPI‡
		Radar position symbol	RPS
		Radial	RDL
		Radio	RDO
		Radio range	RNG
		Radiocommunication failure (<i>message type designator</i>)	RCF
		Radiotelegraph	RTG
		Radiotelephone	RTF
		Radioteletypewriter	RTT
		Ragged	RAG
		Rain	RA
		Range (<i>lights</i>)	RG
		Rate of climb	ROC
		Rate of descent	ROD
		Rate of turn	R
		Reach <i>or</i> reaching	RCH
		Reach cruising altitude	RCA
		Receive <i>or</i> receiver	REC
		Received (<i>acknowledgement of receipt</i>) (<i>to be used in AFS as a procedure signal</i>)	R*
		Receiver autonomous integrity monitoring	RAIM†
		Receiving only	RON
		Recent (<i>used to qualify weather phenomena, e.g. recent rain = RERA</i>)	RE
		Reclearance in flight	RIF
		Recleared	RCLR

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Signal for use in the teletypewriter service only.

Red	R	Right (<i>direction of turn</i>)	RITE
Reduced vertical separation minimum (300 m (1 000 ft)) between FL 290 and FL 410	RVSM‡	Right (<i>preceded by runway designation number to identify a parallel runway</i>)	... R
Reference datum height	RDH	Right-hand circuit	RHC
Reference path data selector	RPDS	Rime (<i>used in aerodrome warnings</i>)	RIME†
Reference to ... <i>or</i> refer to ...	REF	Root sum square	RSS
Regional AIS system centre	RASC†	Route	RTE
Regional OPMET bulletin exchange (<i>scheme</i>)	ROBEX†	Route forecast (<i>in meteorological code</i>)	ROFOR
Regional supplementary procedures	SUPPS	Rules of the air and air traffic services	RAC
Registration	REG	Runway	RWY
Rejected take-off distance available, helicopter	RTODAH	Runway (<i>followed by figures in METAR/SPECI</i>)	R ...
Relay to	RLA	Runway alignment indicator	RAI
Remark	RMK	Runway arresting gear	RAG
Remote altimeter setting source	RASS	Runway centre line	RCL
Repeat <i>or</i> I repeat (<i>to be used in AFS as a procedure signal</i>)	RPT*	Runway centre line light(s)	RCLL
Repetitive flight plan	RPL	Runway(s) cleared (<i>used in METAR/SPECI</i>)	CLRD
Replace <i>or</i> replaced	RPLC	Runway control van	VAN
Report <i>or</i> reporting <i>or</i> reporting point	REP	Runway edge light(s)	REDL
Report leaving	RL	Runway end light(s)	RENL
Report reaching	RR	Runway end safety area	RESA
Request <i>or</i> requested	REQ	Runway lead-in lighting system	RLLS
Request (<i>to be used in AFS as a procedure signal</i>)	RQ*	Runway surface condition	RSCD
Request flight plan (<i>message type designator</i>)	RQP	Runway threshold light(s)	RTHL
Request level change en route	RLCE	Runway touchdown zone light(s)	RTZL
Request supplementary flight plan (<i>message type designator</i>)	RQS	Runway visual range	RVR‡
Requested level not available	RLNA	S	
Required communication performance	RCP‡		
Required navigation performance	RNP‡	Sand	SA
Requirements	RQMNTS	Sandstorm	SS
Re-route	RERTE	Sanitary	SAN
Rescue boat	RB	SAR point of contact	SPOC
Rescue coordination centre	RCC	Satellite-based augmentation system (<i>to be pronounced "ESS-BAS"</i>)	SBAS†
Rescue sub-centre	RSC	Satellite communication	SATCOM†
Rescue vessel	RV	Saturday	SAT
Resolution advisory	RA	Scattered	SCT
Responder beacon	RSP	Schedule <i>or</i> scheduled	SKED
Restricted area (<i>followed by identification</i>)	R ...	Sea (<i>used in connection with sea-surface temperature and state of sea</i>)	SEA
Return <i>or</i> returned <i>or</i> returning	RTN	Sea-surface temperature (<i>followed by figures in METAR/SPECI</i>)	W ...
Return to service	RTS	Search and rescue	SAR

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

Signal for use in the teletypewriter service only.

Search and rescue region	SRR	South or southern latitude	S
Secondary	SRY	Southbound	SB
Secondary surveillance radar	SSR‡	South-east	SE
Seconds	SEC	South-eastbound	SEB
Section	SECN	South-south-east	SSE
Sector	SECT	South-south-west	SSW
Selective calling system	SELCAL†	South-west	SW
Selective identification feature	SIF	South-westbound	SWB
September	SEP	Special air-report (<i>message type designator</i>)	ARS
Service or servicing or served	SER	Special position indicator	SPI
Service available during hours of scheduled operation	HS	Special series of NOTAM notifying, by means of a specific format, change in activity of a volcano, a volcanic eruption and/or volcanic ash cloud that is of significance to aircraft operations	ASHTAM
Service available to meet operational requirements	HO	Special series NOTAM notifying the presence or removal of hazardous conditions due to snow, ice, slush or standing water associated with snow, slush and ice on the movement area, by means of a specific format	SNOWTAM†
Service message	SVC	Speed limiting point	SLP
Serviceable	SVCBL	Spot wind	SPOT†
Severe (<i>e.g. used to qualify icing and turbulence reports</i>)	SEV	Squall	SQ
Shall I cancel telegram number . . . ? or Cancel telegram number . . . (<i>to be used in AFS as a Q Code</i>)	QTA	Squall line	SQL
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	Stand by	SDBY
Shallow fog	MIFG	Standard	STD
Short (<i>used to indicate the type of approach desired or required</i>)	BRF	Standard deviation	SD
Short range	SRG	Standard instrument arrival	STAR†
Short take-off and landing	STOL	Standard instrument departure	SID†
Shower (<i>followed by RA = rain, SN = snow, PL = ice pellets, GR = hail, GS = small hail and/or snow pellets or combinations thereof, e.g. SHRASN = showers of rain and snow</i>)	SH . . .	Standard regional route transmitting frequencies	RUT
Signal	SGL	Standards and Recommended Practices [ICAO]	SARPS
Significant	SIG	Start of climb	SOC
Simple approach lighting system	SALS	State of the sea (<i>followed by figures in METAR/SPECI</i>)	S . . .
Simultaneous or simultaneously	SIMUL	Station	STN
Single isolated wheel load	SIWL	Stationary	STNR
Single sideband	SSB	Status	STS
Sky clear	SKC	Step down fix	SDF
Slow	SLW	Stop-end (<i>related to RVR</i>)	END
Small hail and/or snow pellets	GS	Stopway	SWY
Smoke	FU	Stopway light(s)	STWL
Snow	SN	Straight-in approach	STA
Snow grains	SG		

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Signal for use in the teletypewriter service only.

Stratiform	STF	Text (when the abbreviation is used to request a repetition, the question mark (IMI) precedes the abbreviation, e.g. IMI TXT) (to be used in AFS as a procedure signal)	TXT*
Stratocumulus	SC		
Stratus	ST		
Subject to	SUBJ		
Sunday	SUN		
Sunrise	SR	The address (when this abbreviation is used to request a repetition, the question mark (IMI) precedes the abbreviation, e.g. IMI ADS) (to be used in AFS as a procedure signal)	ADS*
Sunrise to sunset	HJ		
Sunset	SS		
Sunset to sunrise	HN		
Super high frequency [3 000 to 30 000 MHz]	SHF	The last message received by me was . . . (to be used in AFS as a procedure signal)	LR
Supersonic transport	SST		
Supplement (AIP Supplement)	SUP	The last message sent by me was . . . or Last message was . . . (to be used in AFS as a procedure signal)	LS
Supplementary flight plan (message type designator)	SPL		
Surface	SFC	This is a channel-continuity-check of transmission to permit comparison of your record of channel-sequence numbers of messages received on the channel (to be used in AFS as a procedure signal)	CH#
Surface movement control	SMC		
Surface movement radar	SMR		
Surveillance radar approach	SRA		
Surveillance radar element of precision approach radar system	SRE	This is a duplicate message (to be used in AFS as a procedure signal)	DUPE#
T		Threshold	THR
		Threshold crossing height	TCH
		Through	THRU
		Thunderstorm (in aerodrome reports and forecasts, TS used alone means thunder heard but no precipitation at the aerodrome)	TS
Tail wind	TAIL†	Thunderstorm (followed by RA = rain, SN = snow, PL = ice pellets, GR = hail, GS = small hail and/or snow pellets or combinations thereof, e.g. TSRASN = thunderstorm with rain and snow)	TS . . .
Take-off	TKOF	Thursday	THU
Take-off distance available	TODA	Till (followed by time by which weather change is forecast to end)	TL . . .
Take-off distance available, helicopter	TODAH	To . . . (place)	TO . . .
Take-off run available	TORA	Top of climb	TOC
Taxiing or taxi	TAX	Tornado	TDO
Taxiing guidance system	TGS	Touch-and-go landing	TGL
Taxiway	TWY	Touchdown and lift-off area	TLOF
Taxiway-link	TWYL	Touchdown zone	TDZ
Technical reason	TECR	Towering cumulus	TCU
Telephone	TEL		
Teletypewriter	TT		
Temperature	T		
Temporary or temporarily	TEMPO†		
Temporary reserved airspace	TRA		
Terminal area surveillance radar	TAR		
Terminal arrival altitude	TAA		
Terminal control area	TMA‡		
Terminal VOR	TVOR		

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Signal for use in the teletypewriter service only.

Visibility	VIS	Will you give me the position of my station according to the bearings taken by the D/F stations which you control? or The position of your station according to the bearings taken by the D/F stations that I control was . . . latitude . . . longitude (<i>or other indication of position</i>), class . . . at . . . hours (<i>to be used in radiotelegraphy as a Q Code</i>)
better than prescribed values or conditions (<i>to be pronounced “KAV-OH-KAY”</i>)	CAVOK†	
Visual approach chart (<i>followed by name/title</i>)	VAC . . .	
Visual approach slope indicator systems	VASIS	
Visual-aural radio range	VAR	QTF
Visual flight rules	VFR‡	Will you indicate the TRUE track to reach you? or The TRUE track to reach me is . . . degrees at . . . hours (<i>to be used in radiotelegraphy as a Q Code</i>)
Visual meteorological conditions	VMC‡	
Visual reference to the ground, by	VSA	
Volcanic ash	VA	QUJ
Volcanic ash advisory centre	VAAC	Will you relay to . . . free of charge? or I will relay to . . . free of charge (<i>to be used in AFS as a Q Code</i>)
VOR airborne equipment test facility	VOT	
VOR and TACAN combination	VORTAC†	QSP WIND WDI WS WSPD WBAR WEF
W		
Warning	WRNG	With effect from or effective from immediately
Waterspout	WTSTPT	
Way-point	WPT	Within
We agree or It is correct (<i>to be used in AFS as a procedure signal</i>)	OK*	Without
Weaken or weakening	WKNN	Work in progress
Weather	WX	World Aeronautical Chart — ICAO 1:1 000 000 (<i>followed by name/title</i>)
Wednesday	WED	
Weight	WT	World area forecast centre
West or western longitude	W	World Geodetic System — 1984
Westbound	WB	Worldwide web
West-north-west	WNW	
West-south-west	WSW	
What is my distance to your station? or Your distance to my station is (<i>distance figures and units</i>) (<i>to be used in radiotelegraphy as a Q Code</i>)		Y
White	QGE	Yellow
White type of ice formation, opaque	OPA	Yellow caution zone (<i>runway lighting</i>)
Wide area augmentation system	WAAS†	Yes or affirm or affirmative or that is correct
Widespread	WDSPR	YES*
Width or wide	WID	Your
Will comply	WILCO†	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
Filed flight plan	FPL
Flight plan cancellation	CNL
Logical acknowledgement	LAM
Modification	CHG
Radio communication failure	RCF
Request flight plan	RQP
Request supplementary flight plan	RQS
Supplementary flight plan	SPL

Meteorological Messages

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

Other messages

Notice distributed by means of telecommunication containing information concerning the establishment, condition or change in any aeronautical facility, service, procedure or hazard, the timely knowledge of which is essential to personnel concerned with flight operations

NOTAM

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

SNOWTAM

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

SVC

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

DECODE

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

RNAV	(to be pronounced "AR-NAV") Area navigation	TACAN	UHF tactical air navigation system
ROBEX	Regional OPMET bulletin exchange (<i>scheme</i>)	TAF	Aerodrome forecast
SATCOM	Satellite communication	TAIL	Tail wind
SBAS	(to be pronounced "ESS-BAS") Satellite-based augmentation system	TCAS RA	(to be pronounced "TEE-CAS-AR-AY") Traffic alert and collision avoidance system resolution advisory
SELCAL	Selective calling system	TEMPO	Temporary <i>or</i> temporarily
SID	Standard instrument departure	TREND	Trend forecast
SIGMET	Information concerning en-route weather phenomena which may affect the safety of aircraft operations	TIBA	Traffic information broadcast by aircraft
SNOWTAM	A special series NOTAM notifying the presence or removal of hazardous conditions due to snow, ice, slush or standing water associated with snow, slush and ice on the movement area, by means of a specific format	TIL	Until
SPECI	Aviation selected special weather report (<i>in aeronautical meteorological code</i>)	TOP	Cloud top
SPECIAL	Special meteorological report (<i>in abbreviated plain language</i>)	TSUNAMI	Tsunami (<i>used in aerodrome warnings</i>)
SPOT	Spot wind	T-VASIS	(to be pronounced "TEE-VASIS") T visual approach slope indicator system
STAR	Standard instrument arrival	VNAV	(to be pronounced "VEE-NAV") 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	Ground-based augmentation system (<i>to be pronounced "GEE-BAS"</i>)	GBAS
Abbreviated T visual approach slope indicator system (<i>to be pronounced "AY-TEE-VASIS"</i>)	AT-VASIS	Ground-based regional augmentation system (<i>to be pronounced "GRASS"</i>)	GRAS
Aerodrome forecast	TAF	Identification	IDENT
Airborne collision avoidance system	ACAS	Information	INFO
Aircraft communication addressing and reporting system (<i>to be pronounced "AY-CARS"</i>)	ACARS	Information concerning en-route weather phenomena which may affect the safety of aircraft operations	SIGMET
Air defence identification zone (<i>to be pronounced "AY-DIZ"</i>)	ADIZ	Information concerning en-route weather phenomena which may affect the safety of low-level aircraft operations	AIRMET
Air-report	AIREP	Lateral navigation (<i>to be pronounced "EL-NAV"</i>)	LNAV
Alert phase	ALERFA	LORAN (<i>long range air navigation system</i>)	LORAN
Area navigation (<i>to be pronounced "AR-NAV"</i>)	RNAV	Meteorological or meteorology	MET
Automatic terminal information service	ATIS	Meteorological information for aircraft in flight	VOLMET
Aviation gasoline	AVGAS	Minimum operational performance standards	MOPS
Aviation routine weather report (<i>in aeronautical meteorological code</i>)	METAR	Multi-functional transport satellite (MTSAT) satellite-based augmentation system (<i>to be pronounced "EM-SAS"</i>)	MSAS
Aviation selected special weather report (<i>in aeronautical meteorological code</i>)	SPECI	National AIS system centre	NASC
Barometric vertical navigation (<i>to be pronounced "BAA-RO-VEE-NAV"</i>)	BARO-VNAV	None or I have nothing to send you	NIL
Cloud base	BASE	No significant change (<i>used in trend-type landing forecast</i>)	NOSIG
Cloud top	TOP	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
Common ICAO data interchange network	CIDIN	On-line data interchange	OLDI
Data link automatic terminal information service (<i>to be pronounced "DEE-ATIS"</i>)	D-ATIS	Operational meteorological (<i>information</i>)	OPMET
Distress phase	DETRESFA	Operations	OPS
Electronic flight instrument system (<i>to be pronounced "EE-FIS"</i>)	EFIS	Precision approach path indicator	PAPI
Emergency location beacon — aircraft	ELBA	Probability	PROB
European geostationary navigation overlay service (<i>to be pronounced "EGG-NOS"</i>)	EGNOS	Receiver autonomous integrity monitoring	RAIM
Front (<i>relating to weather</i>)	FRONT		
Frost (<i>used in aerodrome warnings</i>)	FROST		
Global orbiting navigation satellite system (<i>to be pronounced "GLO-NAS"</i>)	GLONASS		
GPS and geostationary earth orbit augmented navigation	GAGAN		

Regional AIS system centre	RASC	Traffic alert and collision avoidance system	
Regional OPMET bulletin exchange (scheme)	ROBEX	resolution advisory (<i>to be pronounced</i> “TEE-CAS-AR-AY”)	TCAS RA
Rime (<i>used in aerodrome warnings</i>)	RIME	Traffic information broadcast by aircraft	TIBA
		Trend forecast	TREND
Satellite-based augmentation system (<i>to be</i> <i>pronounced “ESS-BAS”</i>)	SBAS	Tsunami (<i>used in aerodrome warnings</i>)	TSUNAMI
Satellite communication	SATCOM	T visual approach slope indicator system (<i>to be pronounced “TEE-VASIS”</i>)	T-VASIS
Selective calling system	SELCAL		
Special meteorological report (<i>in</i> <i>abbreviated plain language</i>)	SPECIAL	UHF tactical air navigation system	TACAN
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		Uncertainty phase	INCERFA
Spot wind		Until	TIL
Standard instrument arrival	SNOWTAM	Vertical navigation (<i>to be pronounced</i> “VEE-NAV”)	VNAV
Standard instrument departure	SPOT	Visibility, cloud and present weather better than prescribed values or conditions (<i>to</i> <i>be pronounced “KAV-OH-KAY”</i>)	CAVOK
	STAR	VOR and TACAN combination	VORTAC
	SID		
Tail wind	TAIL	Wide area augmentation system	WAAS
Temporary <i>or</i> temporarily	TEMPO	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	RVSM	Reduced vertical separation minimum (300 m (1 000 ft)) between FL 290 and FL 410
FMS	Flight management system	RVR	Runway visual range
GCA	Ground controlled approach system <i>or</i> ground controlled approach	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
		Precision approach radar	PAR
Controller-pilot data link communications	CPDLC	Pre-departure clearance	PDC
Coordinated universal time	UTC	Primary surveillance radar	PSR
Cumulonimbus (<i>to be pronounced "CEE BEE"</i>)	CB		
		Radar position indicator	RPI
Distance measuring equipment	DME	Reduced vertical separation minimum (300 m (1 000 ft)) between FL 290 and FL 410	RVSM
		Required communication performance	RCP
Estimated time of arrival <i>or</i> estimating arrival	ETA	Required navigation performance	RNP
Estimated time of departure <i>or</i> estimating departure	ETD	Runway visual range	RVR
		Secondary surveillance radar	SSR
Flight information region	FIR	Terminal control area	TMA
Flight management system	FMS		
		Ultra high frequency [300 to 3 000 MHz]	UHF
Global navigation satellite system	GNSS	Upper flight information region	UIR
Global positioning system	GPS		
Ground controlled approach system <i>or</i> ground controlled approach	GCA	Very high frequency [30 to 300 MHz]	VHF
Ground proximity warning system	GPWS	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

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

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

SIGNAL REPORTING CODES

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

Introduction

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

SINPO Signal Reporting Code

	S	I	N	P	O
<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 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 OBSCURED BY SN

- c) On the strip of RWY 09/27 snow banks to a height of 15 ft exist.

E) RWY 09/27 STRIP SN BANKS HGT 15 FT

- d) The minimum sector altitude in the sector 90° to 180° inbound VOR ident DOM changed to 3 600 ft MSL.

E) 90 TO 180 DEG INBD VOR DOM
MSA CHANGED 3 600 FT MSL

7. Use of NOTAM Code groups

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

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

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

FIRST LETTER

The letter Q (see 3.1).

SECOND AND THIRD LETTERS

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

FOURTH AND FIFTH LETTERS

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

Examples

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

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

NOTAM:

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

Meaning of NOTAM:

Item Q):

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

Item A):

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

Item B):

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

Item C):

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

Item E):

— DME NOT AVBL: Plain-language entry using ICAO abbreviations.

- b) With immediate effect, the VHF omnidirectional radio range on frequency 116.9 MHz at New York/La Guardia will be out of service until approximately the 13th day of November 1992 at 0900 UTC.

NOTAM:

Q) KZWY/QNVAS/IV/BO/AE/ . . .

A) KLGA B) 9211020615 C) 9211130900 EST

E) 116.9 MHZ VOR U/S

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

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

NOTAM:

Q) ESOS/QMRLV/V/NB/A/ . . .

A) ESSB B) 9210221430 C) PERM

E) RWY 30 CLSD TO VFR OPS

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

NOTAM:

Q) LKAA/QNVAS/IV/BO/E/ . . .

A) LKAA B) 9211100800 C) 9211130900

E) VOZ 116.30 MHZ VOR U/S

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

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

NOTAM:

Q) CZUL/QWMLW/IV/BO/W/000/200/4537N07400W010

A) CZUL B) 9302210800 C) 9302211100

E) GUN FRNG WILL TAKE PLACE RADIUS 10 NM
AROUND 4537N07400W

F) SFC G) 6100 M (20000 FT) MSL

THE NOTAM CODE — DECODE

SECOND AND THIRD LETTERS

<i>Code</i>	<i>Signification</i>	<i>Uniform abbreviated phraseology</i>
AGA		
Lighting facilities (L)		
LA	Approach lighting system (<i>specify runway and type</i>)	als
LB	Aerodrome beacon	abn
LC	Runway centre line lights (<i>specify runway</i>)	rcll
LD	Landing direction indicator lights	ldi lgt
LE	Runway edge lights (<i>specify runway</i>)	redl
LF	Sequenced flashing lights (<i>specify runway</i>)	sequenced flg lgt
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
MP	Aircraft stands (<i>specify</i>)	acft stand
MR	Runway (<i>specify runway</i>)	rwy
MS	Stopway (<i>specify runway</i>)	swy
MT	Threshold (<i>specify runway</i>)	thr
MU	Runway turning bay (<i>specify runway</i>)	rwy turning bay

<i>Code</i>	<i>Signification</i>	<i>Uniform abbreviated phraseology</i>
MW	Strip (<i>specify runway</i>)	strip
MX	Taxiway(s) (<i>specify</i>)	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
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	cust
 ATM		
Airspace organization (A)		
AA	Minimum altitude (<i>specify en-route/crossing/safe</i>)	mnm 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	mnm 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	Intersection	int
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
PM	Aerodrome operating minima (<i>specify procedure and amended minimum</i>)	opr minima
PO	Obstacle clearance altitude (<i>specify procedure</i>)	oca
PP	Obstacle clearance height (<i>specify procedure</i>)	och
PR	Radio failure procedure	rdo failure proc
PT	Transition altitude	ta
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 national prefix and number</i>)	. . d . .
RM	Military operating area	moa
RO	Overflying of . . . (<i>specify</i>)	overflying
RP	Prohibited area (<i>specify national prefix and number</i>)	. . p . .
RR	Restricted area (<i>specify national prefix and number</i>)	. . 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	pje
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
WV	Formation flight	formation flt
WW	Significant volcanic activity	significant volcanic act
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 cmpl
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 cmpl
HW	Work in progress	wip
HX	Concentration of birds	bird concentration
HY	Snow banks exist (<i>specify height</i>)	sn banks hgt
HZ	Covered by frozen ruts and ridges	cov frozen ruts and ridges

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

Other (XX)

XX Plain language

THE NOTAM CODE — ENCODE

SECOND AND THIRD LETTERS

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

<i>Signification</i>	<i>Code</i>	<i>Signification</i>	<i>Code</i>
Control zone	AC	Standard instrument departure (<i>specify route designator</i>)	PD
Flight information region	AF	Standard VFR arrival	PB
Intersection	AX	Standard VFR departure	PE
Minimum altitude (<i>specify en- route/crossing/safe</i>)	AA	Transition altitude	PT
Minimum usable flight level	AL	VFR approach procedure	PK
Oceanic control area	AO		
Reporting point (<i>specify name or coded designator</i>)	AP	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
		Automatic dependent surveillance — contract (<i>details</i>)	CC
ATM		Controller-pilot data link communications (<i>details</i>)	CD
Air traffic and VOLMET services (S)		En-route surveillance radar	CE
		Ground controlled approach system	CG
Aerodrome control tower	ST	Precision approach radar (<i>specify runway</i>)	CP
Aerodrome flight information service	SF	Secondary surveillance radar	CS
Approach control service	SP	Selective calling system	CL
Area control centre	SC	Surface movement radar	CM
ATS reporting office	SB	Surveillance radar element of precision approach radar system (<i>specify wavelength</i>)	CR
Automatic terminal information service	SA	Terminal area surveillance radar	CT
Flight information service	SE		
Flight service station	SS	CNS	
Flow control centre	SL	GNSS services (G)	
Oceanic area control centre	SO		
Upper advisory service (<i>specify</i>)	SY	GNSS airfield-specific operations (<i>specify operation</i>)	GA
Upper area control centre	SU	GNSS area-wide operations (<i>specify operation</i>)	GW
VOLMET broadcast	SV		
		CNS	
ATM		Instrument and microwave landing systems (I)	
Air traffic procedures (P)			
		DME associated with ILS	ID
ADIZ procedure	PZ	Glide path (ILS) (<i>specify runway</i>)	IG
Aerodrome operating minima (<i>specify procedure and amended minimum</i>)	PM	ILS Category I (<i>specify runway</i>)	IS
Contingency procedures	PC	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	Localizer (ILS) (<i>specify runway</i>)	IL
Missed approach procedure (<i>specify runway</i>)	PU	Localizer (<i>not associated with ILS</i>)	IN
Obstacle clearance altitude (<i>specify procedure</i>)	PO		
Obstacle clearance height (<i>specify procedure</i>)	PP		
Radio failure procedure	PR		
Standard instrument arrival (<i>specify route designator</i>)	PA		

<i>Signification</i>	<i>Code</i>	<i>Signification</i>	<i>Code</i>
Locator, middle (ILS) (<i>specify runway</i>)	IY	Restricted area (<i>specify national prefix and number</i>)	RR
Locator, outer (ILS) (<i>specify runway</i>)	IX	Temporary restricted area (<i>specify area</i>)	RT
Microwave landing system (<i>specify runway</i>)	IW		
Middle marker (ILS) (<i>specify runway</i>)	IM	Navigation Warnings	
Outer marker (ILS) (<i>specify runway</i>)	IO	Warnings (W)	
CNS		Aerobatics	WB
Terminal and en-route navigation facilities (N)		Air display	WA
		Air refuelling	WF
All radio navigation facilities (except . . .)	NA	Ascent of free balloon	WL
DECCA	NC	Banner/target towing	WJ
Direction-finding station (<i>specify type and frequency</i>)	NX	Blasting	WH
Distance measuring equipment	ND	Burning or blowing gas	WS
Fan marker	NF	Captive balloon or kite	WC
Locator (<i>specify identification</i>)	NL	Demolition of explosives	WD
Non-directional radio beacon	NB	Exercises (<i>specify</i>)	WE
OMEGA	NO	Formation flight	WV
VOR	NV	Glider flying	WG
VOR/DME	NM	Mass movement of aircraft	WT
VORTAC	NT	Missile, gun or rocket firing	WM
TACAN	NN	Model flying	WZ
		Parachute jumping exercise	WP
		Radioactive materials or toxic chemicals (<i>specify</i>)	WR
		Significant volcanic activity	WW
Navigation Warnings			
Airspace restrictions (R)		Other Information (O)	
Airspace reservation (<i>specify</i>)	RA	Aeronautical information service	OA
Danger area (<i>specify national prefix and number</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 national prefix and number</i>)	RP	Rescue coordination centre	OR

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 . . .	
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	HA
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
		Grass cutting in progress	HG
		Hazard due to (<i>specify</i>)	HH
Changes (C)		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
Activated	CA	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
Cancelled	CN	Marked by	HM
Changed	CH	Obscured by snow	HO
Completed	CC	Operation cancelled . . . (<i>specify balloon flight identification or project code name</i>)	HQ
Deactivated	CD	Sanding in progress	HS
Displaced	CM	Snow banks exist (<i>specify height</i>)	HY
Downgraded to	CG	Snow clearance completed	HL
Erected	CE		
Identification or radio call sign changed to	CI		
Installed	CS		
On test, do not use	CT		
Operating	CO		
Operating frequency(ies) changed to	CF		
Operating on reduced power	CP		
Realigned	CL		
Temporarily replaced by	CR		

<i>Signification</i>	<i>Code</i>	<i>Signification</i>	<i>Code</i>
Snow clearance in progress	HP	Operating as a fixed light	LK
Standing water	HR	Operating but caution advised due to	LX
Totally free of snow and ice	HF	Operating on auxiliary power supply	LA
Work completed	HV	Operating without auxiliary power supply	LE
Work in progress	HW	Operating without identification	LG
		Prohibited to	LP
		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		
Closed to VFR operations	LV	Other (XX)	
Interference from	LF		
Limited to	LT	Plain language	XX

— END —

ICAO TECHNICAL PUBLICATIONS

The following summary gives the status, and also describes in general terms the contents of the various series of technical publications issued by the International Civil Aviation Organization. It does not include specialized publications that do not fall specifically within one of the series, such as the Aeronautical Chart Catalogue or the Meteorological Tables for International Air Navigation.

International Standards and Recommended Practices are adopted by the Council in accordance with Articles 54, 37 and 90 of the Convention on International Civil Aviation and are designated, for convenience, as Annexes to the Convention. The uniform application by Contracting States of the specifications contained in the International Standards is recognized as necessary for the safety or regularity of international air navigation while the uniform application of the specifications in the Recommended Practices is regarded as desirable in the interest of safety, regularity or efficiency of international air navigation. Knowledge of any differences between the national regulations or practices of a State and those established by an International Standard is essential to the safety or regularity of international air navigation. In the event of non-compliance with an International Standard, a State has, in fact, an obligation, under Article 38 of the Convention, to notify the Council of any differences. Knowledge of differences from Recommended Practices may also be important for the safety of air navigation and, although the Convention does not impose any obligation with regard thereto, the Council has invited Contracting States to notify such differences in addition to those relating to International Standards.

Procedures for Air Navigation Services (PANS) are approved by the Council for worldwide application. They contain, for the most part, operating procedures regarded as not yet having attained a sufficient degree of

maturity for adoption as International Standards and Recommended Practices, as well as material of a more permanent character which is considered too detailed for incorporation in an Annex, or is susceptible to frequent amendment, for which the processes of the Convention would be too cumbersome.

Regional Supplementary Procedures (SUPPS) have a status similar to that of PANS in that they are approved by the Council, but only for application in the respective regions. They are prepared in consolidated form, since certain of the procedures apply to overlapping regions or are common to two or more regions.

The following publications are prepared by authority of the Secretary General in accordance with the principles and policies approved by the Council.

Technical Manuals provide guidance and information in amplification of the International Standards, Recommended Practices and PANS, the implementation of which they are designed to facilitate.

Air Navigation Plans detail requirements for facilities and services for international air navigation in the respective ICAO Air Navigation Regions. They are prepared on the authority of the Secretary General on the basis of recommendations of regional air navigation meetings and of the Council action thereon. The plans are amended periodically to reflect changes in requirements and in the status of implementation of the recommended facilities and services.

ICAO Circulars make available specialized information of interest to Contracting States. This includes studies on technical subjects.

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