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ABOUT ICAO

The International Civil Aviation Organization (ICAO) is a specialized agency of the United Nations and was created with the signing in Chicago, on 7 December 1944, of the Convention on International Civil Aviation. ICAO is the permanent body charged with the administration of the principles laid out in the Convention. It sets the standards for aviation safety, security, efficiency and regularity, as well as for aviation environmental protection.

ICAO’s membership comprises 191 Member States. Its headquarters are in Montréal and it has regional offices in Bangkok, Cairo, Dakar, Lima, Mexico City, Nairobi and Paris.

The aims and objectives of ICAO, as contained in Article 44 of the Chicago Convention, are to develop the principles and techniques of international air navigation and to foster the planning and development of international air transport so as to:

- ensure the safe and orderly growth of international civil aviation throughout the world;
- encourage the arts of aircraft design and operation for peaceful purposes;
- encourage the development of airways, airports and air navigation facilities for international civil aviation;
- meet the needs of the peoples of the world for safe, regular, efficient and economical air transport;
- prevent economic waste caused by unreasonable competition;
- ensure that the rights of Member States are fully respected and that every Member State has a fair opportunity to operate international airlines;
- avoid discrimination between Member States;
- promote safety of flight in international air navigation; and
- promote generally the development of all aspects of international civil aeronautics.

The constitution of ICAO is the Convention on International Civil Aviation to which each ICAO Member State is a party. The Organization has a sovereign body, the Assembly, and a governing body, the Council. The chief officers are the President of the Council and the Secretary General.

The Assembly, composed of representatives from all Member States, meets every three years, reviewing in detail the complete work of the Organization and setting policy for the coming years. It also decides on a triennial budget.

The Council, composed of representatives from 36 States, is elected by the Assembly for a three-year term and provides continuing direction to the work of ICAO. One of the major duties of the Council is to adopt International Standards and Recommended Practices (SARPs) and to incorporate these into the Annexes to the Convention on International Civil Aviation. The Council is assisted by its subsidiary bodies (the Air Transport Committee, the Committee on Joint Support of Air Navigation Services, the Finance Committee, the Committee on Unlawful Interference, the Human Resources Committee and the Technical Cooperation Committee) and by the Air Navigation Commission.

The Secretariat, headed by the Secretary General, has five main divisions: the Air Navigation Bureau, the Air Transport Bureau, the Technical Co-operation Bureau, the Legal Affairs and External Relations Bureau, and the Bureau of Administration and Services.

ICAO works in close collaboration with other specialized agencies of the United Nations such as the International Maritime Organization, the International Telecommunication Union, and the World Meteorological Organization. The International Air Transport Association, the Airports Council International, the International Federation of Air Line Pilots’ Associations, and other international organizations participate in many ICAO meetings.
ABOUT THE ICAO CATALOGUE

The main purpose of this Catalogue is as an ordering and reference guide to all the documents and publications produced by ICAO.

This Catalogue is published in separate English, French, Russian and Spanish editions and contains the titles and prices of all ICAO saleable publications. The Catalogue, also available in pdf at www.icao.int, indicates which language versions are available; these are abbreviated as follows:

E = English A = Arabic C = Chinese
F = French R = Russian S = Spanish

SUPPLEMENTS TO THE CATALOGUE

The Catalogue is kept up to date by Supplements which list new publications as they become available, as well as amendments, supplements, corrigenda, etc. Supplements to the Catalogue are available at www.icao.int, under “Publications”, then click on “Catalogue of ICAO Publications” and select Supplements.

AMENDMENTS TO ICAO PUBLICATIONS

Certain ICAO publications are subject to amendment. These include Annexes to the Convention, Procedures for Air Navigation Services (PANS), Technical Manuals and the various parts of the Training Manual. These amendments, as well as supplements, corrigenda, etc., are announced in the Supplements to the Catalogue. Please note that some amendments are not yet available in all languages.

The prices of amendments and supplements are listed in the Catalogue and in the Supplements to the Catalogue. Please note that these prices apply only when this material is purchased separately from the publication to which they apply. When the publication itself is purchased, all existing applicable amendments, supplements, etc., are included free of charge at that time. Amendments and Supplements cannot be purchased via the online e-commerce service. Please contact ICAO.

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CONVENTION ON INTERNATIONAL CIVIL AVIATION AND RELATED ACTS

Doc 7300 — Convention on International Civil Aviation.
Constitution of ICAO. This document contains the consolidated text of the Chicago Convention, incorporating all amendments in force.
Signed at Chicago on 7 December 1944 and amended by the ICAO Assembly.
Reprinted incorporating Corrigendum No. 1 (26/11/07) and Corrigendum No. 2 (3/12/10)

Note.— Also available in electronic format. See Electronic Publications section.

Doc 7500 — International Air Services Transit Agreement.
Signed at Chicago on 7 December 1944. 42 pp.

Doc 8970 — Protocol Relating to an Amendment to the Convention on International Civil Aviation. (Article 50(a).)
This Protocol provides for the increase of the ICAO Council to 30 members.
Trilingual: E/F/S Order No. 8970 $11.00

Doc 8971 — Protocol Relating to an Amendment to Article 56 of the Convention on International Civil Aviation. (Article 56.)
This Protocol provides for the increase of the Air Navigation Commission to 15 members.
Signed at Vienna on 7 July 1971. 3 pp.
Trilingual: E/F/S Order No. 8971 $11.00

Doc 9123 — Protocol Relating to an Amendment to the Convention on International Civil Aviation. (Article 50(a).)
This Protocol provides for the increase of the ICAO Council to 33 members.
Signed at Montreal on 16 October 1974. 4 pp.
Trilingual: E/F/S Order No. 9123 $11.00

Doc 9208 — Protocol Relating to an Amendment to the Convention on International Civil Aviation [Final paragraph, Russian Text].
The subject of this Protocol is an amendment of the final paragraph of the Chicago Convention to provide for the existence of the authentic text of the Convention in the Russian language.
Quadriilingual: E/F/R/S Order No. 9208 $11.00
The subject of this Protocol is the adoption of the authentic Russian text of the Chicago Convention and its  
amendments in force as at 30 September 1977, annexed to the Protocol.  
Quadrilingual: E/F/R/S  
Order No. 9217 $28.00

Doc 9318 — Protocol Relating to an Amendment to the Convention on International Civil Aviation. (Article 83 bis.)  
The subject of this Protocol is the transfer of certain safety-related functions and duties from the State of Registry to the  
State of the Operator in case of lease, charter or interchange of aircraft.  
Quadrilingual: E/F/R/S  
Order No. 9318 $11.00

Doc 9436 — Protocol Relating to an Amendment to the Convention on International Civil Aviation. (Article 3 bis.)  
The subject of this Protocol is the non-use of weapons against civil aircraft in flight.  
Quadrilingual: E/F/R/S  
Order No. 9436 $11.00

Doc 9544 — Protocol Relating to an Amendment to the Convention on International Civil Aviation. (Article 56.)  
This Protocol provides for the increase of the Air Navigation Commission to 19 members.  
Quadrilingual: E/F/R/S  
Order No. 9544 $11.00

Doc 9561 — Protocol Relating to an Amendment to the Convention on International Civil Aviation. (Article 50(a).)  
This Protocol provides for the increase of the ICAO Council to 36 members.  
Signed at Montreal on 26 October 1990. 10 pp.  
Quadrilingual: E/F/R/S  
Order No. 9561 $11.00

The subject of this Protocol is the adoption of the authentic Arabic text of the Chicago Convention and its amendments,  
annexed to the Protocol.  
Multilingual: E/F/R/S/A  
Order No. 9663 $39.00

Doc 9664 — Protocol Relating to an Amendment to the Convention on International Civil Aviation [Final paragraph, Arabic Text].  
The subject of this Protocol is an amendment of the final paragraph of the Chicago Convention to provide for the  
existence of the authentic text of the Convention in the Arabic language.  
Multilingual: E/F/R/S/A  
Order No. 9664 $11.00
The subject of this Protocol is the adoption of the authentic Chinese text of the Chicago Convention and its amendments, annexed to the Protocol.
   Multilingual: E/F/S/R/A/C

Order No. 9721 $42.00

Doc 9722 — Protocol Relating to an Amendment to the Convention on International Civil Aviation [Final paragraph, Chinese Text].
The subject of this Protocol is an amendment of the final paragraph of the Chicago Convention to provide for the existence of the authentic text of the Convention in the Chinese language.
   Multilingual: E/F/S/R/A/C

Order No. 9722 $11.00

INTERNATIONAL CONVENTIONS AND PROTOCOLS

Conventions

Doc 7364 — Convention on Damage Caused by Foreign Aircraft to Third Parties on the Surface.
   Signed at Rome on 7 October 1952. 20 pp.
   Trilingual: E/F/S

ISBN 92-9194-261-8

Order No. 7364 $18.00

   Trilingual: E/F/S

Order No. 7620 $11.00

Doc 8181 — Convention, Supplementary to the Warsaw Convention, for the Unification of Certain Rules Relating to International Carriage by Air Performed by a Person Other than the Contracting Carrier.
   Signed at Guadalajara on 18 September 1961. 6 pp.
   Trilingual: F/E/S

Order No. 8181 $11.00

Note.— Also available on CD-ROM. See Electronic Publications section.

Doc 8364 — Convention on Offences and Certain Other Acts Committed on Board Aircraft.
   Trilingual: E/F/S

ISBN 92-9194-163-8

Order No. 8364 $14.00

   Quadrilingual: E/F/R/S


Order No. 8920 $17.00

   Quadrilingual: E/F/R/S


Order No. 8966 $21.00
Done at Montreal on 1 March 1991.
Multilingual: E/F/R/S/A ISBN 92-9194-901-9 Order No. 9571 $37.00

Multilingual: E/F/S/R/C/A Order No. 9740 $87.00

Supplement (Done at Montréal on 20 April 2010). 12 pp.
The Supplement sets out the results of the first review of the limits of liability established under the Convention for the Unification of Certain Rules for International Carriage by Air, done at Montreal on 28 May 1999.
Multilingual: E/F/S/R/C/A Order No. 9740/M6/01 $11.00

Note.— Also available on CD-ROM. See Electronic Publications section.


Doc 9919 — Convention on Compensation for Damage Caused by Aircraft to Third Parties.


Done at Beijing on 10 September 2010. 94 pp.

Protocols

Trilingual: F/E/S Order No. 7632 $11.00

Note.— Also available on CD-ROM. See Electronic Publications section.
Conventions and Related Acts

   Signed at Guatemala City on 8 March 1971.
   2nd edition, incorporating the authentic text of the Protocol in the Russian language as approved by the Council of ICAO on 9 October 1975. 27 pp.
   Quadrilingual: F/E/S/R
   Procès-verbal of rectification (31/5/83)
   Order No. 8932/Q/01 FREE

   Note.— Also available on CD-ROM. See Electronic Publications section.

Doc 9145 — Additional Protocol No. 1 to Amend the Convention for the Unification of Certain Rules Relating to International Carriage by Air Signed At Warsaw on 12 October 1929.
   Quadrilingual: F/E/R/S
   Order No. 9145 $11.00

   Note.— Also available on CD-ROM. See Electronic Publications section.

Doc 9146 — Additional Protocol No. 2 to Amend the Convention for the Unification of Certain Rules Relating to International Carriage by Air Signed at Warsaw on 12 October 1929 as Amended by the Protocol Done at The Hague on 28 September 1955.
   Quadrilingual: F/E/R/S
   Order No. 9146 $19.00

   Note.— Also available on CD-ROM. See Electronic Publications section.

Doc 9147 — Additional Protocol No. 3 to Amend the Convention for the Unification of Certain Rules Relating to International Carriage by Air Signed at Warsaw on 12 October 1929 as Amended by the Protocols Done at The Hague on 28 September 1955 and at Guatemala City on 8 March 1971.
   Quadrilingual: F/E/R/S
   Order No. 9147 $11.00

   Note.— Also available on CD-ROM. See Electronic Publications section.

Doc 9148 — Montreal Protocol No. 4 to Amend the Convention for the Unification of Certain Rules Relating to International Carriage by Air Signed at Warsaw on 12 October 1929 as Amended by the Protocol Done at The Hague on 28 September 1955.
   Quadrilingual: F/E/R/S
   Order No. 9148 $21.00

   Note.— Also available on CD-ROM. See Electronic Publications section.

Doc 9257 — Protocol to Amend the Convention on Damage Caused by Foreign Aircraft to Third Parties on the Surface Signed at Rome on 7 October 1952.
   Quadrilingual: E/F/R/S
   Order No. 9257 $28.00
Quadrilingual: E/F/R/S ISBN 92-9194-203-0 Order No. 9518 $11.00

Doc 9794 — Protocol to the Convention on International Interests in Mobile Equipment on Matters specific to Aircraft Equipment.


Doc 9959 — Protocol Supplementary to the Convention for the Suppression of Unlawful Seizure of Aircraft.
Done at Beijing on 10 September 2010. 94 pp.
**INTERNATIONAL AND MULTILATERAL AGREEMENTS**

**Doc 7695 — Multilateral Agreement on Commercial Rights of Non-Scheduled Air Services in Europe.**  
Signed at Paris on 30 April 1956. 8 pp.  
Trilingual: E/F/S  
Order No. 7695 $11.00

**Doc 8056 — Multilateral Agreement relating to Certificates of Airworthiness for Imported Aircraft.**  
Trilingual: E/F/S  
Order No. 8056 $11.00

**JOINT FINANCING AGREEMENTS**

Order No. 9585 $30.00  
Annexes I, II and III (updated 1/1/12)  
Order No. 9585/E/04 $18.00*

Order No. 9586 $30.00  
Annexes I, II and III (updated 1/1/12)  
Order No. 9586/E/04 $19.00*

**AGREEMENTS BETWEEN ICAO AND OTHER ORGANIZATIONS**

**Doc 7475 — Working Arrangements between the International Civil Aviation Organization and the World Meteorological Organization.**  
Approved by the Council of ICAO and the Executive Committee of WMO on 21 May 1953 and 23 October 1953 respectively, for implementation on 1 January 1954.  
E, F, S  
Order No. 7475 $11.00

* Free with purchase of corresponding document.
   Bilingual: E/F

   Order No. 7970 $30.00
Doc 7231 — ICAO Publications Regulations.
This booklet explains the various kinds of publications and the authority under which each is issued. The format and the languages in which publications are issued, pricing and distribution policy, and copyright issues are also explained.

Doc 7515 — The ICAO Financial Regulations.


Note.— Also available on CD-ROM. See Electronic Publications section.

Doc 7669 — Legal Committee.

Doc 7782 — Rules for the Settlement of Differences.
This document contains the rules governing the settlement of disagreements between ICAO Member States which may be referred to the ICAO Council in relation to the interpretation or application of the Chicago Convention and its Annexes, the International Air Services Transit Agreement and the International Air Transport Agreement.
E, A, C, F, R, S Order No. 7782 $11.00
### ICAO Rules of Procedure and Administrative Regulations

**Doc 7984 — Directives for Panels of the Air Navigation Commission.**
- Reprinted, incorporating Amendment 1.
- E, F, R, S
- Order No. 7984 $14.00
- Supplement (31/10/95) ISBN 978-92-9231-145-2 Order No. 7984/E/01 $11.00*

**Doc 7986 — Directives of the Council concerning the Conduct of ICAO Meetings.**

**Doc 8143 — Directives to Divisional-type Air Navigation Meetings and Rules of Procedure for their Conduct.**

**Doc 8144 — Directives to Regional Air Navigation Meetings and Rules of Procedure for their Conduct.**
- E, A, F, R, S Order No. 8144 $23.00

**Doc 8146 — Rules of Procedure for Standing Committees of the Council.**

**Doc 8229 — Rules of Procedure for the Air Navigation Commission.**

**Doc 8683 — Standing Rules of Procedure for Meetings in the Air Transport Field.**
- (World-wide Conferences and Division Sessions.)

**Doc 9482 — Directives for Panels of the Air Transport Committee.**

* Free with purchase of corresponding document.
Annexes to the Convention on International Civil Aviation

International Standards and Recommended Practices adopted by the Council in accordance with Articles 54, 37 and 90 of the Convention on International Civil Aviation. Associated with the Standards and Recommended Practices, which for convenience are designated as Annexes to the Convention, are explanatory forewords, notes and, in some cases, additional guidance material, approved by the Council for inclusion within the covers of the individual Annexes and intended to assist in the implementation of the Standards and Recommended Practices.

NEW EDITIONS OF ANNEXES TO THE CONVENTION ON INTERNATIONAL CIVIL AVIATION

Note 1.— Annexes are also available on CD-ROM and online via the Web by subscription. See Electronic Publications section.

Note 2.— Corrigenda and addenda listed in this English edition of the Catalogue do not necessarily apply to the other language versions of the same publication.

Note 3.— The Annexes carry Supplements listing the differences which Member States have informed ICAO exist between their regulations and practices and the corresponding international Standards and Recommended Practices. However, the Supplement to Annex 7 is the only one that is up to date.

Annex 1 — Personnel Licensing.

The rules in Annex 2 consist of general rules, visual flight rules and instrument flight rules and apply without exception over the high seas and over national territories to the extent that they do not conflict with the rules of the State being overflown.
Reprinted, incorporating Amendments 1–42.

Part I — Core SARPfs.
Part II — Appendices and Attachments.
This Annex comprises the Standards, Recommended Practices and certain guidance material governing the provision of meteorological services to international air navigation.

Corrigendum (31/1/11) Order No. AN 3/E/18 FREE

* Free if purchased with corresponding document
Annexes to the Convention on International Civil Aviation

Annex 4 — Aeronautical Charts.
The Standards and Recommended Practices applicable to Aeronautical Charts.

Corrigendum (11/5/10) Order No. AN 4/E/10 FREE

Amendment 56 (applicable 18/11/10 and 12/11/15) Order No. AN 4/E/09 $13.00*

Annex 5 — Units of Measurement to be Used in Air and Ground Operations.
This Annex comprises the Standards and Recommended Practices for dimensional units to be used in air and ground operations. The Annex deals with the standard application of units of measurement and termination of the use of non-SI units. Attachments to the Annex contain material describing the development of the International System of Units (SI) and guidance on the application of the SI, conversion factors, Coordinated Universal Time (UTC), and presentation of date and time in all-numeric form.

Annex 6 — Operation of Aircraft.
Part I — International Commercial Air Transport — Aeroplanes.
This document specifies international Standards and Recommended Practices for aeroplanes used in international commercial air transport operation carrying passengers or freight. The Annex addresses flight operations; performance operating limitations; aeroplane instruments, equipment and flight documents; aeroplane communication and navigation equipment; aeroplane maintenance; flight crew; flight operations officers/flight dispatchers; manuals, logs and records; cabin crew; security; lights to be displayed in the air and on the ground during operations; contents of an operations manual; and flight time and flight duty period limitations.

Corrigendum No. 2 (10/10/11) Order No. AN 6-1/E/13 FREE

Amendment 35 (applicable 15/12/11) Order No. AN 6-1/E/12 $55.00*

Amendment 36 (applicable 15/11/12) Order No. AN 6-1/E/14 $69.00*

Part II — International General Aviation — Aeroplanes.
This document specifies international Standards and Recommended Practices for aeroplanes used in international general aviation operations. The Annex addresses flight preparation and in-flight procedures; performance operating limitations; aeroplane instruments and equipment; aeroplane communication and navigation equipment; aeroplane maintenance; flight crew; lights to be displayed in the air and on the ground during operations; flight recorders; and carriage and use of oxygen.

Amendment 28 (applicable 18/11/10) Order No. AN 6-2/E/13 $13.00*

Amendment 29 (applicable 18/11/10) Order No. AN 6-2/E/14 $53.00*
Amendment 30 (applicable 15/12/11)  
Order No. AN 6-2/E/15  
$11.00*

Amendment 31 (applicable 15/11/12)  
Order No. AN 6-2/E/16  
$34.00*

Part III — International Operations — Helicopters.
This document is divided into three sections. The first section deals with definitions and applicability, the second section with international Standards and Recommended Practices governing international commercial air transport operations, and the third section with international Standards and Recommended Practices governing international general aviation operations.

E, A, C, F, R, S  
Order No. AN 6-3  
$149.00

Amendment 16 (applicable 15/12/11)  
Order No. AN 6-3/E/15  
$11.00*

Amendment 17 (applicable 15/11/12)  
Order No. AN 6-3/E/16  
$30.00*

Annex 7 — Aircraft Nationality and Registration Marks.
This Annex contains standards adopted by ICAO as the minimum standards for the display of marks to indicate appropriate nationality and registration marks which have been determined to comply with Article 20 of the Convention. The provisions in the Annex provide definitions, location and measurement of nationality and registration marks as well as the standard form for the certificate of registration.

E, A, C, F, R, S  
Order No. AN 7  
$15.00

Supplement (22/12/04)  
Order No. AN 7/E/06  
$35.00*

Note. — Supplement dated 22/12/04 should be retained until a new Supplement is issued.

Annex 8 — Airworthiness of Aircraft.
This Annex contains the Standards and Recommended Practices for the airworthiness of aircraft. Part I of the Annex provides definitions. Part II contains general airworthiness procedures applicable to all aircraft together with the standard format for the certificate of airworthiness. Part IIIA contains the minimum airworthiness characteristics of aeroplanes over 5 700 kg for which application for certification was submitted on or after 13 June 1960. Part IIIB contains the minimum airworthiness characteristics of aeroplanes over 5 700 kg for which application for certification was submitted on or after 2 March 2004. Part IVA contains the minimum airworthiness characteristics of helicopters for which application for certification was submitted on or after 22 March 1991. Part IVB contains the minimum airworthiness characteristics of helicopters for which application for certification will be submitted on or after 13 December 2007. Part V contains the minimum airworthiness characteristics of aeroplanes over 750 kg but not exceeding 5 700 kg for which application for certification will be submitted on or after 13 December 2007.

E, A, C, F, R, S  
Order No. AN 8  
$157.00

Amendment 103 (applicable 31/12/14)  
Order No. AN 8/E/09  
$11.00*

* Free with purchase of corresponding document.
Annex 9 — Facilitation.
Annex 9 contains Standards and Recommended Practices, and related definitions and appendices concerning the facilitation of international air transport. They are the outcome of Article 37 of the Convention on International Civil Aviation which requires ICAO to adopt international Standards and Recommended Practices dealing with, inter alia, customs and immigration procedures and such other matters concerned with the safety, regularity and efficiency of air navigation.

Order No. AN 9 $64.00

Annex 10 — Aeronautical Telecommunications.
The five volumes of this document contain Standards and Recommended Practices (SARPs), Procedures for Air Navigation Services (PANS) and guidance material on aeronautical communication, navigation and surveillance systems.

Volume I of Annex 10 contains Standards and Recommended Practices and guidance material for the global navigation satellite system (GNSS), navigation aids such as instrument landing system (ILS), microwave landing system (MLS), VHF omnidirectional radio range (VOR), non-directional radio beacon (NDB) and distance measuring equipment (DME).

Order No. AN10-1 $406.00
Amendment 82 (applicable 22/11/07) Order No. AN10-1/E/14 $11.00*
Amendment 83 (applicable 20/11/08) Order No. AN10-1/E/15 $70.00*
Amendment 84 (applicable 19/11/09) Order No. AN10-1/E/16 $130.00*
Amendment 85 (applicable 18/11/10) Order No. AN10-1/E/17 $29.00*
Amendment 86 (applicable 17/11/11) Order No. AN10-1/E/18 $95.00*
Amendment 87 (applicable 15/11/12) Order No. AN10-1/E/19 $22.00*

Volume II — Communication Procedures including those with PANS status.
Volume II of Annex 10 contains general, administrative and operational procedures pertaining to aeronautical fixed and mobile communications.

Order No. AN10-2 $70.00
Amendment 77 (applicable 28/11/02) Out of print
(This amendment does not affect this volume.)
Amendment 78 (applicable 27/11/03) Order No. AN10-2/E/07 $18.00*
Amendment 79 (applicable 25/11/04) Order No. AN10-2/E/10 FREE
(This amendment does not affect this volume.)
Amendment 80 (applicable 24/11/05) Order No. AN10-2/E/13 $17.00*
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Volume III — *Communication Systems.*

(Part I — *Digital Data Communication Systems*; Part II — *Voice Communication Systems*).

Volume III of Annex 10 contains Standards and Recommended Practices and guidance material for various air-ground and ground-ground voice and data communication systems, including aeronautical telecommunication network (ATN), aeronautical mobile-satellite service (AMSS), secondary surveillance radar (SSR) Mode S air-ground data link, very high frequency (VHF) air-ground digital link (VDL), aeronautical fixed telecommunication network (AFTN), aircraft addressing system, high frequency data link (HFDL), aeronautical mobile service, selective calling system (SELCAL), aeronautical speech circuits and emergency locator transmitter (ELT).


E, F, R, S

ISBN 92-9194-953-1

Order No. AN10-3 $199.00

Amendment 83 (applicable 20/11/08) Order No. AN10-3/E/21 $23.00*

Amendment 84 (applicable 19/11/09) Order No. AN10-3/E/23 FREE

Amendment 85 (applicable 18/11/10) Order No. AN10-3/E/24 $11.00*

Amendment 86 (applicable 17/11/11) Order No. AN10-3/E/25 FREE

Amendment 87 (applicable 15/11/12) Order No. AN10-3/E/26 FREE

* Free with purchase of corresponding document.
Annexes to the Convention on International Civil Aviation

Volume IV — Surveillance and Collision Avoidance Systems.
Volume IV of Annex 10 contains Standards and Recommended Practices and guidance material for secondary surveillance radar (SSR) and airborne collision avoidance systems (ACAS), including SARPs for SSR Mode A, Mode C and Mode S; and the technical characteristics of ACAS.

ISBN 92-9194-952-3

Order No. AN10-4 $204.00

Amendment 83 (applicable 20/11/08)
(Order No. AN10-4/E/14) FREE
(This amendment does not affect this volume.)

Amendment 84 (applicable 19/11/09)
(Order No. AN10-4/E/15) FREE
(This amendment does not affect this volume.)

Corrigendum (28/7/10)
(Order No. AN10-4/E/17) FREE

Amendment 85 (applicable 18/11/10)
(Order No. AN10-4/E/16) $98.00*

Amendment 86 (applicable 17/11/11)
(Order No. AN10-4/E/18) FREE
(This amendment does not affect this volume.)

Amendment 87 (applicable 15/11/12)
(Order No. AN10-4/E/19) FREE
(This amendment does not affect this volume.)


E, F, R, S

Order No. AN10-5 $37.00

Amendment 77 (applicable 28/11/02)
(Order No. AN10-5/E/03) $11.00*

Amendment 78 (applicable 27/11/03)
(Order No. AN10-5/E/08) FREE
(This amendment does not affect this volume.)

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Amendment 80 (applicable 24/11/05)
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Amendment 81 (applicable 23/11/06)
(Order No. AN10-5/E/13) FREE
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Amendment 82 (applicable 22/11/07)
(Order No. AN10-5/E/14) FREE
(This amendment does not affect this volume.)

Amendment 83 (applicable 20/11/08)
(Order No. AN10-5/E/15) FREE
(This amendment does not affect this volume.)

* Free with purchase of corresponding document.
### Annexes to the Convention on International Civil Aviation

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### Annex 11 — Air Traffic Services.

Annex 11 defines air traffic services and specifies the worldwide Standards and Recommended Practices applicable in the provision of these services.

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*Note.— Also available on the CD-ROM “Air Traffic Management”. See Electronic Publications section.*

### Annex 12 — Search and Rescue.

This Annex sets forth the provisions applicable to the establishment, maintenance and operation of search and rescue services by Member States in their territories and over the high seas. Annex 12 is complemented by the three-volume *International Aeronautical and Maritime Search and Rescue Manual* (Doc 9731) which provides guidelines for a common aviation and maritime approach to organization and provision of search and rescue services.

- Reprinted, incorporating Amendments 1–18.
- E, A, C, F, R, S

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*Note.— Also available on the CD-ROM “Air Traffic Management”. See Electronic Publications section.*

* Free with purchase of corresponding document.
Annexes to the Convention on International Civil Aviation

**Annex 13 — Aircraft Accident and Incident Investigation.**
Annex 13 contains the international Standards and Recommended Practices for aircraft accident and incident investigation.


Corrigendum (30/8/10) Order No. AN 13/E/07 FREE

**Annex 14 — Aerodromes.**

**Volume I — Aerodrome Design and Operations.**
Annex 14, Volume I, contains Standards and Recommended Practices that prescribe the physical characteristics, obstacle limitation surfaces and visual aids to be provided at aerodromes, as well as certain facilities and technical services normally provided at an aerodrome.


Corrigendum (30/4/10) Order No. AN14-1/E/16 FREE

Amendment 10-B (applicable 18/11/10) Order No. AN14-1/E/14 $19.00*

**Volume II — Heliports.**
Annex 14, Volume II, contains Standards and Recommended Practices covering aspects of heliport planning, design and operations.


**Annex 15 — Aeronautical Information Services.**
The Standards and Recommended Practices applicable to Aeronautical Information Services.


**Annex 16 — Environmental Protection.**

**Volume I — Aircraft Noise.**
This volume contains the Standards and Recommended Practices for aircraft noise certification. It also covers international specifications relating to aircraft noise measurement and evaluation methods.


**Volume II — Aircraft Engine Emissions.**
This volume contains Standards and Recommended Practices for aircraft engine emissions certification.


Amendment 7 (applicable 17/11/11) Order No. AN16-2/E/10 $19.00*
Annex 17 contains Standards and Recommended Practices concerned with the security of international air transport and is amended regularly to address the evolving threat. A comprehensive document for implementation of security measures, it incorporates an attachment of extracts from other Annexes, the Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284), and Procedures for Air Navigation Services, focussing on action to be taken by States to prevent unlawful interference with civil aviation, or when such interference occurs.

E, A, C, F, R, S
Order No. AN 17 $38.00

Annex 18 — The Safe Transport of Dangerous Goods by Air.
This Annex contains the broad principles governing the international transport of dangerous goods by air. To assist in achieving compatibility with other modes of transport, the provisions of this Annex are based on material developed by the United Nations and the International Atomic Energy Agency.

E, A, C, F, R, S
ISBN 978-92-9231-813-0
Order No. AN 18 $30.00
Procedures for Air Navigation Services

Procedures developed mostly through the ICAO divisional-type meetings and approved by the Council for worldwide application. They comprise, for the most part, operating procedures regarded as not yet having obtained a sufficient degree of maturity for adoption as international Standards and Recommended Practices, or material of a more permanent character which is inappropriate or too detailed for incorporation in an Annex.

Doc 4444 — ATM — Air Traffic Management.
These procedures are complementary to the Standards and Recommended Practices contained in Annex 2 and Annex 11 and specify, in greater detail than in the Standards and Recommended Practices, the actual procedures to be applied by air traffic services units in providing the various air traffic services to air traffic.

Reprinted, incorporating Amendments 1-3.

Amendment 4 (applicable 15/11/12) Order No. 4444/E/18 $57.00*

Corrigendum No. 4 (16/11/12) Order No. 4444/E/19 FREE

Note.— Also available on the CD-ROM “Air Traffic Management” and online via the Web by subscription. See Electronic Publications section.

Doc 8168 — OPS — Aircraft Operations.

Volume I — Flight Procedures.
This volume describes operational procedures recommended for the guidance of flight operations personnel. It also outlines the various parameters on which the criteria in Volume II are based so as to illustrate the need for operational personnel including flight crew to adhere strictly to the published procedures in order to achieve and maintain an acceptable level of safety in operations.

E, F, R, S ISBN 92-9194-863-2 Order No. 8168-1 $244.00

Amendment 2 (applicable 22/11/07) Order No. 8168-1/E/10 $20.00*

Amendment 3 (applicable 20/11/08) Order No. 8168-1/E/11 $57.00*

Corrigendum (9/6/09) Order no. 8168-1/E/13 FREE

Amendment 4 (applicable 18/11/10) Order No. 8168-1/E/14 $20.00*
This volume is intended for the guidance of procedures specialists and describes the essential areas and obstacle clearance requirements for the achievement of safe, regular instrument flight operations. It provides the basic guidelines to States, and those operators and organizations producing instrument flight charts that will result in uniform practices at all aerodromes where instrument flight procedures are carried out.

**Order No. 8168-2**
- E, F, R, S
- ISBN 92-9194-864-0
- $571.00

**Corrigendum (12/6/07)**
- Order No. 8168-2/E/16
- FREE

**Amendment 2 (applicable 20/11/08)**
- Order No. 8168-2/E/17
- $227.00*

**Corrigendum No. 2 (9/6/09)**
- Order No. 8168-2/E/18
- FREE

**Amendment 3 (applicable 18/11/10)**
- Order No. 8168-2/E/19
- $25.00*

**Amendment 4 (applicable 17/11/11)**
- Order No. 8168-2/E/20
- $25.00*

**Important Note (17/4/12)**
- Order No. 8168-2/E/21
- FREE

**Corrigendum No. 3 (1/11/11)**
- Order No. 8168-2/E/22
- FREE

**Doc 8400 — ABC — ICAO Abbreviations and Codes.**
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, and uniform abbreviated phraseology for use in pre-flight information bulletins.

**Order No. 8400**
- E, F, R, S
- $61.00

**Doc 9868 — Training.**
These PANS contain material that provides for the uniform implementation of the training required for the pilot licences and ratings found in Annex 1, including the multi-crew pilot licence (MPL). This document is complementary to the Standards and Recommended Practices (SARPs) contained in Annex 1 — *Personnel Licensing* and specifies, in greater detail than in the SARPs, the actual procedures to be applied by training organizations in providing training for aeronautical personnel.

**Order No. 9868**
- E, F, R, S
- ISBN 92-9194-785-7
- $58.00

**Amendment 1 (25/8/11)**
- Order No. 9868/E/01
- $68.00*
Doc 7030 — Regional Supplementary Procedures.
Operating procedures supplementary to the Annexes and PANS developed for the greater part through the ICAO regional air navigation meetings to meet the needs of a specific ICAO Region. They deal with matters affecting the safety and regularity of international air navigation. They are published in a single document covering all Regions. The ICAO Regional Supplementary Procedures form part of the Air Navigation Plan developed by Regional Air Navigation Meetings to meet those needs of specific areas which are not covered in the worldwide provisions. They complement the statement of requirements for facilities and services contained in the Air Navigation Plan publications.
Reprinted, incorporating Amendments 1-5.
Amendment 6 (27/3/12)
Order No. 7030/E/37 $32.00*

* Free with purchase of corresponding document.
Records available in the form of resolutions and recommendations, and reports and minutes of the various Assembly sessions and of the Commissions of the Assembly.

RESOLUTIONS

Doc 9958 — Assembly Resolutions in Force (as of 8 October 2010).
This document contains the texts of all resolutions of the ICAO Assembly in force at the close of its 37th Session (September/October 2010). In addition to the text of the resolutions in force, the document contains reservations which were recorded by some delegations to resolutions adopted by the Assembly (with effect from the 37th Session); a list of resolutions or parts thereof declared no longer in force; a list of resolutions resulting from consolidations, with an indication of their origin; a list of resolutions that have been consolidated, with an indication of the resulting resolution; a subject index of resolutions in force; and an index of resolutions in force.


REPORTS AND MINUTES

These documents provide a record, in the form of reports and/or minutes, of the deliberations of the various Assembly Sessions. The reports and minutes of the previous Sessions are out of print.

35th Session.

Doc 9843 — Report and Minutes of the Executive Committee.
E, A, C, F, R, S ISBN 92-9194-879-9 Order No. 9843 $175.00

2006. 52 pp.


Doc 9850 — *Minutes of the Plenary Meetings.*

36th Session.
Montréal, 18–28 September 2007.

Doc 9891 — *Minutes of the Plenary Meetings.*

Doc 9892 — *Report and Minutes of the Executive Committee.*


37th Session
Montréal, 28 September — 8 October 2010.


Doc 9989 — *Report of the Administrative Commission.*

ANNUAL REPORTS TO THE ASSEMBLY

The Annual Report of the Council of ICAO provides the world aviation community with comprehensive insight into the programmes, activities and achievements of the Organization in support of its mission as defined by the Convention on International Civil Aviation, namely, the safe and orderly development of international civil aviation.

Note.—The Annual Reports for the years 1945 to 1999 are out of print but are available on CD-ROM and online via the Web by subscription. See Electronic Publications section.

Special Note. — The Annual Reports for the years 2007 to 2011 are available free at: www.icao.int/publications/Pages/annual-reports.aspx.


Supplement (August 2010)


COUNCIL COMMITTEES

CAEP — Committee on Aviation Environmental Protection

E, F, R, S Order No. 9720 $68.00

Doc 9777 — Report of the Fifth Meeting.
E, A, F, R, S Order No. 9777 $114.00

E, A, F, R, S ISBN 92-9194-398-3 Order No. 9836 $249.00
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TECHNICAL PUBLICATIONS

Specialized information on air navigation activities, listed under subheadings of particular air navigation fields, and comprising the following:

Manuals. The technical manuals provide guidance and information and are intended to facilitate uniform application of international Standards and Recommended Practices. The various parts of the Training Manual are intended to encourage the uniform application of personnel licensing standards and the attainment of a high standard of professional training generally.

Circulars. Publications intended to disseminate specialized information to Member States, such as technical studies; analyses, reproductions of or extracts from informative documents supplied by Member States; reports on the implementation of Standards and Recommended Practices; and Aircraft Accident Digests.

AGA — AERODROMES


Part 1 — Rescue and Fire Fighting.
Part 1 provides guidance for the implementation of the Annex 14, Volume I, specifications relating to rescue and fire fighting (RFF). It includes material concerning the level of protection to be provided at an airport, the critical area concept and the method by which the amount of extinguishing agents has been related to the critical area. The manual also contains information on RFF vehicle specifications, extinguishing agent characteristics, siting of fire stations and operating procedures for dealing with an emergency.

Reprinted, incorporating Amendment 1.
E, F, R, S ISBN 92-9194-299-5 Order No. 9137P1 $159.00

Part 2 — Pavement Surface Conditions.
The purpose of Part 2 is to assist States to ensure that adequate measures are taken to overcome problems resulting from contaminants on, or weathering of, the movement area. This manual includes material concerning basic factors affecting friction, the correlation between friction measuring devices on paved surfaces, descriptions of some friction measuring devices, and practices for measuring and reporting friction on snow-, ice- and water-covered surfaces. It also provides information on the collection and dissemination of pavement surface condition information, and clearance and removal of contaminants and debris from the movement area.

E, F, R, S Order No. 9137P2 $93.00
Part 3 — *Wildlife Control and Reduction.*
Part 3 is intended to provide airport personnel with the information necessary to develop and implement an effective bird control programme for their airport. The manual stresses the importance of good organization and planning in the creation of such a programme, and it details the roles and responsibilities of those involved in airport bird control. To assist States wishing to establish a national bird strike committee, the manual contains information describing how such a committee is organized. In addition, the manual includes material which describes why birds are attracted to an airport, and it explains some of the concepts used to make the airport less attractive to birds.


E, A, C, F, S

Part 5 — *Removal of Disabled Aircraft.*
The purpose of Part 5 is to assist States to establish a plan for the removal of a disabled aircraft from the airport movement area. The manual discusses the responsibility for removing a disabled aircraft, emphasizes the need for pre-arranged agreements with operators, companies with heavy-lift equipment and other airports for the expeditious removal of a disabled aircraft. The manual also describes some of the methods used to remove disabled aircraft.


Reprinted, incorporating Corrigendum dated 5/2/10.

Part 6 — *Control of Obstacles.*
Part 6 includes information intended to provide guidance on the control of obstacles in the vicinity of an airport. This part of the manual includes information on: obstacle surfaces; controlling obstacles at an airport; temporary hazards; obstacle surveys; and airport equipment and installations which might constitute obstacles.


Part 7 — *Airport Emergency Planning.*
The material in Part 7 relates to the pre-planning for handling airport emergencies, as well as coordination between different airport agencies (or services) and those agencies in the surrounding communities that could be of assistance in responding to an emergency. Some of the topics dealt with by the manual are: the preparation of an airport emergency plan; agencies involved including their responsibilities and roles; emergency operations centre and mobile command post; offices to be contacted; triage and medical centre; care of ambulatory survivors; care of fatalities; communications; airport emergency exercises; and review of the airport emergency plan.

E, F, R, S ISBN 92-9194-635-4 Order No. 9137P7 $64.00

Part 8 — *Airport Operational Services.*
Part 8 brings together the various technical functions that are required to be fulfilled by an airport to ensure safety and continuity of operations. The manual treats two aspects of providing airport services. In the first two chapters the overall organization and the staffing of operational services are discussed. The remaining chapters discuss particular services to be provided at the airport.

Part 9 — Airport Maintenance Practices.
Part 9 identifies various types of maintenance required for airport facilities. The manual recognizes that the proper maintenance of airport facilities is necessary for the safety of aircraft operations at an airport and deals with those facilities that are the responsibility of the airport authority.


This manual provides guidance for the planning and establishment of stolports, unique airports designed to serve airplanes that have exceptional short-field performance capabilities. The material in this manual is based on adaptations of conventional airport practices and on the experiences of States that have operated stolports or complete STOL systems. The manual covers all aircraft operating aspects of stolports except non-visual navigation aids.


Part 1 — Runways.
Part 1 provides guidance on the geometric design of runways and the aerodrome elements normally associated with runways. It discusses runway configuration, runway length, aeroplane performance parameters affecting runway length, and planning to accommodate future aircraft.


Part 2 — Taxiways, Aprons and Holding Bays.
Part 2 contains material on the general layout and description of the design criteria for taxiway physical characteristics, including taxiway fillets, shoulders and strips, as well as typical apron layouts and their design requirements. Holding bays, dual or multiple taxiways and the advantages and disadvantages of each are discussed. In addition guidance is given on taxiway fillet design and planning for future aircraft.

E, F, R, S ISBN 92-9194-473-4 Order No. 9157P2 $113.00

Part 3 — Pavements.
Part 3 provides guidance on the design of pavements including their evaluation and reporting of their bearing strength as well as detailed information concerning overload operations. Background information on the ACN/PCN method of reporting pavement bearing strength is also provided. Practices of some Member States have also been included.

Reprinted, incorporating Amendments 1 and 2.
E, F, R, S ISBN 92-9194-117-4 Order No. 9157P3 $237.00
Part 4 — Visual Aids.
Proper design and installation of visual aids are prerequisites for the safety of airport operations. Part 4 provides information on the characteristics of visual aids used at airports. Some of the topics covered are: functional requirements of visual ground aids; surface marking and markers; approach lighting systems; light characteristics for precision approach runways and taxiways; runway lead-in lighting systems; runway and taxiway lighting; surface movement guidance and control systems; taxiing guidance signs and obstacle lighting.

E, F, R, S  ISBN 92-9194-209-X  Order No. 9157P4  $147.00

Part 5 — Electrical Systems.
Part 5 discusses the general features of electrical practices and installations and also addresses those features which are of special significance for aerodrome installations. It is assumed the readers of the manual will be familiar with electrical circuits and design concepts, but may not be familiar with certain features of aerodrome installations which are less frequently encountered in other installations.


Part 6 — Frangibility.
At airports, various visual and non-visual aids are located near runways, taxiways and aprons where they may present a hazard to aircraft in the event of accidental impact during landing, take-off or ground manoeuvring. All such equipment and their supports shall be frangible and mounted as low as possible to ensure that impact will not result in loss of control of the aircraft. This manual provides guidance on the design, testing and installation of frangible structures at airports and heliports. Much of the material is closely associated with the specifications on frangibility of visual and non-visual aids contained in Annex 14 — Aerodromes, Volume I — Aerodrome Design and Operations and Volume II — Heliports.

E, F, R, S  ISBN 92-9194-646-X  Order No. 9157P6  $50.00


Part 1 — Master Planning.
Part 1 provides airport authorities with guidance on the development of airport master plans. Included are sections on the airport planning process, air side development, land side development and airport support elements.

E, F, R, S  ISBN 92-9194-338-X  Order No. 9184P1  $114.00

Part 2 — Land Use and Environmental Control.
The purpose of Part 2 is to provide guidance on land use planning in the vicinity of airports. The manual addresses the ecological considerations of choosing a site, environmental control measures, land use planning, and land use administration.

E, F, R, S  Order No. 9184P2  $74.00

Amendment 1 (27/3/09)  Order No. 9184P2/E/02  $54.00*

* Free with purchase of corresponding document.
Part 3 — *Guidelines for Consultant/Construction Services.*
Part 3 provides a general overview on contracting for designing or construction services. The manual outlines the various steps that should be taken, from the conception of the idea, to contracting for services, to the completion of the contract.

E, F, R, S ISBN 92-9194-321-5 Order No. 9184P3 $80.00

**Doc 9476 — Manual of Surface Movement Guidance and Control Systems (SMGCS).**
This manual has been developed to facilitate the implementation of specifications relating to SMGC systems found in various Annexes and the PANS-ATM. It contains information on: designing an SMGC system for an aerodrome; the functions and responsibilities of personnel, procedures; low visibility operations; high traffic volume operations; runway protection measures and apron management service.

Reprinted, incorporating Amendments 1 and 2.
E, F, R, S ISBN 92-9194-035-6 Order No. 9476 $72.00

**Doc 9774 — Manual on Certification of Aerodromes.**
This manual contains guidance material on establishing a framework for aerodrome certification, including identification of the need for appropriate legal provisions, model regulations for adoption or adaptation as appropriate, the certification procedure, a typical civil aviation administration staffing pattern, a sample application form and a sample certificate for use by a State. Information in support of the introduction of the concept of the safety management system for aerodromes is also included.


**Doc 9977 — Manual on Civil Aviation Jet Fuel Supply.**
English

**Cir 305 — Operation of New Larger Aeroplanes at Existing Aerodromes.**
This circular provides information on the development of suitable alternate measures, operating procedures and operating restrictions for new larger aeroplanes (NLAs) at existing aerodromes that do not meet the relevant Code F provisions of Annex 14, Volume I.
2004. 64 pp.
Reprinted, incorporating Corrigendum (14/3/05)

**Cir 329 — Assessment, Measurement and Reporting of Runway Surface Conditions.**
2012. 78 pp.
AIG — ACCIDENT INVESTIGATION

Doc 9756 — Manual of Aircraft Accident and Incident Investigation.
The purpose of this manual is to encourage the uniform application of the Standards and Recommended Practices contained in Annex 13 and to provide information and guidance to States on the procedures, practices and techniques that can be used in accident and incident investigations. It is issued in four parts which will eventually replace the Manual of Aircraft Accident Investigation (Doc 6920). Part II — Procedures and Checklists and Part III — Investigation will follow.

Part I — Organization and Planning.
Part I of this manual includes considerations for the establishment of an aircraft accident investigation authority in terms of its structure, staffing and legislation. The planning of an investigation and the notification process for accidents and incidents are also addressed, as are the initial actions to be taken at an accident site, with particular emphasis on the safety of personnel. A directory of the accident investigation authorities in all States and their contact details is included.

Reprinted, incorporating Amendment 1.

Part II — Procedures and Checklists.
Part II provides information on the common techniques and procedures, as well as checklists to assist States in aircraft accident and incident investigations. The manual also provides guidelines on major investigations that can be used, particularly, in the conduct of larger accident investigations.


Part III — Investigation.
Part III provides guidance for the investigation of all technical areas that could be involved in an aircraft accident or incident. Guidance is also provided for the several phases of an investigation. The content includes wreckage investigation, structures and systems investigation, flight recorders, aircraft performance, etc.


Part IV — Reporting.
Part IV provides guidance in developing the final reports as a result of the investigation of aircraft accidents and incidents. It outlines the format and content and the procedures for consultation, release, distribution, and dissemination of the final report.

Doc 9946 — *Manual on Regional Accident and Incident Investigation Organization.*
This manual provides information and guidance on the establishment and management of a regional accident and incident investigation organization (RAIO) to assist ICAO Contracting States in fulfilling their obligations pertaining to accident and incident investigation. A regional investigation system can provide economies of scale by allowing for the sharing of required resources. The manual outlines the duties and responsibilities of ICAO Contracting States, individually and/or collectively, with respect to the establishment and management of a regional accident and incident investigation system.

This manual is an implementation tool to assist States in developing a policies and procedures manual for accident and incident investigation. The contents of the manual provide a template for States to modify, as necessary, their accident investigation documentation to be in line with Annex 13 provisions and to standardize and harmonize accident investigation processes among ICAO Member States. The manual was developed in such a manner that States can adapt it by “filling in the blanks” with State-specific material such as legislation, regulations, etc.

Cir 285 — *Guidance on Assistance to Aircraft Accident Victims and their Families.*
This circular provides guidance on the types of family assistance that may be provided to aircraft accident victims and their families. It discusses the types of assistance that may be provided, as well as the providers and recipients of such assistance. Examples are provided of one State’s legislation and response plan for the provision of family assistance.
E, A, C, F, R, S Order No. CIR285 $80.00

Cir 298 — *Training Guidelines for Aircraft Accident Investigators.*
This circular outlines the training requirements for aircraft accident investigators, including background experience, initial and on-the-job training, and basic and advance investigation courses. It also provides guidelines for accident investigation courses.

Cir 315 — *Hazards at Aircraft Accident Sites.*
Working at aircraft accident sites has the potential to expose investigators, and search and rescue personnel, to a wide range of health and safety hazards. These hazards, generated by the damage to structures, systems, components and aircraft contents, will be variable in nature and will themselves be influenced by the factors associated with the accident scenario, e.g. location, weather conditions, environment, security. This circular is produced to assist individuals to consider and apply effective occupational safety management practices both to their own activities, and to the activities of the teams that they work with, or for which they are responsible. The circular discusses the nature and variety of occupational hazards and the management of risk associated with exposure to these hazards during the investigation of aircraft accidents.
Aircraft Accident Digests.
This yearly circular contains final reports on five to eight major accidents in a given year. The reports are usually published as received and in the language received.

Cir 263 — No. 37 — 1990.
Trilingual: E/F/S
Order No. CIR263 $183.00

Trilingual: E/F/S
Order No. CIR290 $231.00

Order No. CIR296 $305.00

Accident/Incident Reporting (ADREP).
This yearly circular contains accident statistics and data that may be useful for general safety studies and accident prevention programmes.

E, F, R, S
Order No. CIR276 $40.00

E, F, R, S
Order No. CIR282 $35.00

E, F, R, S
Order No. CIR289 $35.00

E, F, R, S
Order No. CIR294 $35.00

Order No. CIR297 $35.00

ISSN 0443-7926
AST — AVIATION SAFETY TRAINING

Doc 9941 — TRAINAIR PLUS — Training Development Guide — Competency-based Training Methodology
This document provides the aviation industry with an up-to-date methodology to achieve the systemic preparation of training materials to develop competency-based training courses, as well as to train course developers. In addition, the Guide is the tool to produce ICAO TRAINAIR PLUS Standardized Training Packages (STPs).
English

ATM — AIR TRAFFIC MANAGEMENT

This manual consists of guidance material previously contained in Annex 11 and the PANS-ATM, and, consequently, supplements the provisions governing ATS as specified in these documents as well as in Annex 2. The manual not only contains information which can, or should, be taken into account in the formulation of development programmes within State or regions, but also material which can, or should, be applied directly to the planning and operation of the ATS system.
Reprinted, incorporating Amendments 1–4.
E, F, R, S ISBN 92-9194-664-8 Order No. 9426 $337.00

This document contains numerous examples of radiotelephony phraseology in common use. The objective is to ensure a high standard of aeronautical radiotelephony which will contribute to safety.
E, F, R, S ISBN 92-9194-996-5 Order No. 9432 $78.00

Note.— Also available on the CD-ROM "Air Traffic Management" and online via the Web by subscription. See Electronic Publications section.

This document consolidates all of the ICAO provisions and special recommendations relevant to the subject of interception of civil aircraft. This is expected to assist in understanding of, and providing a ready reference on, the subject which should facilitate the implementation and application of the various provisions and special recommendations.

This document provides guidance material which is meant to assist States in providing for the safe and orderly flow of international air traffic in the event that military activities, which constitute potential hazards to civil aircraft, are planned and conducted. The overall objective of the guidance material contained in the document is to promote effective coordination so that such activities may be accommodated within agreed airspace and so that hazardous activities are not conducted over the high seas without prior consultation.
E, A, C, F, R, S Order No. 9554 $17.00
Doc 9574 — **Manual on a 300 m (1 000 ft) Vertical Separation Minimum Between FL 290 and FL 410 Inclusive.**
The material in this document provides regional planning groups with a basis for the development of documents, procedures and programmes to enable the introduction of a 300 m (1 000 ft) vertical separation minimum (VSM) above flight level (FL) 290 within their particular regions in accordance with the criteria and requirements developed by ICAO. It provides guidance to State aviation authorities on those measures necessary to ensure that the criteria and requirements are met within their area of responsibility as well as background information for operators to assist in the development of operating manuals and flight crew procedures. It is also a basic reference document from which the minimum aircraft system performance specifications for operations in 300 m (1 000 ft) VSM airspace above FL 290 can be developed.

E, A, S

*Note.— Also available on the CD-ROM “Air Traffic Management” and online via the Web by subscription. See Electronic Publications section.*

Doc 9643 — **Manual on Simultaneous Operations on Parallel or Near-Parallel Instrument Runways (SOIR).**
This manual contains guidance material that is complementary to the Standards and Recommended Practices in Annex 14 and the procedures in the PANS-ATM. It describes in greater detail how simultaneous operations on closely spaced parallel or near-parallel instrument runways can be implemented when the distance between the runway centre lines is 1 035 m (3 400 ft) or more.


Doc 9689 — **Manual on Airspace Planning Methodology for the Determination of Separation Minima.**
This document is intended for use by airspace planners as a basis for changing separation minima. Its primary objective is to guide airspace planners, ICAO Regional Offices and the regional planning groups and to assist them with implementation of CNS/ATM systems, particularly in relation to airspace planning and implementation of performance navigation. The methodology presented in this manual provides a framework by which airspace characteristics, aircraft capability and traffic demand can be assessed for the purpose of determining safe separation minima for en-route operations. The methodology has been designed to ensure that the intended safety level for a proposed airspace meets the required standard.

E, C, F, R, S Order No. 9689 $90.00

Amendment 1 (30/8/02) Order No. 9689/E/01 $74.00*

Doc 9694 — **Manual of Air Traffic Services Data Link Applications.**
This manual provides guidance on a number of air traffic services (ATS) data link applications including automatic dependent surveillance-contract (ADS-C), controller-pilot data link communications (CPDLC), the provision, via data link, of data link flight information services (DFIS) as well as material pertaining to data link initiation capability (DLIC) and ATS interfacility data communication (AIDC). This guidance material is considered part of the evolutionary process of the development and implementation of data link-related technology in support of global harmonization and standardization of data link-based air traffic control systems.

E, F, R, S Order No. 9694 $187.00

* Free with purchase of corresponding document.
**Doc 9731 — *International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual.***
The three volumes of this document provide guidelines for a common aviation and maritime approach to organizing and providing search and rescue (SAR) services.

**Volume I — *Organization and Management.***
Volume I of Doc 9731 discusses the global SAR system concept, establishment and improvement of national and regional SAR systems, and cooperation with neighbouring States to provide effective and economical SAR services.

Incorporating amendments through 2009.

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**Volume II — *Mission Co-ordination.***
Volume II of Doc 9731 assists personnel who plan and coordinate SAR operations and exercises.

Incorporating amendments through 2009.

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**Volume III — *Mobile Facilities.***
Volume III of Doc 9731 is intended to be carried aboard rescue units, aircraft and vessels to help with the performance of a search, rescue or on-scene coordinator function and with aspects of search and rescue that pertain to their own State’s emergencies.

Incorporating amendments through 2009.

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*Note.— Also available on the CD-ROM “Air Traffic Management” and online via the Web by subscription. See Electronic Publications section.*

**Doc 9750 — *Global Air Navigation Plan.***
This two-part document defines and illustrates ICAO’s process for achieving a global ATM system. Chapters 1, 2 and 3 provide specific guidance on planning infrastructure development and include a set of 23 initiatives to support the planning process and facilitate near-term improvements. The appendices contain guidance material on technical, economic, organizational, legal, environmental and technical cooperation issues. This will lead to development of ATM infrastructure sufficient to support the implementation of a global ATM system.


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*Note.— Also available on the CD-ROM “Air Traffic Management” and online via the Web by subscription. See Electronic Publications section.*

This manual provides an overview of the A-SMGCS operational requirements in order to facilitate implementation of various functions in a modular form depending on specific local aerodrome circumstances. Chapters 1 and 2 contain an introduction and an operational concept for A-SMGCS. Chapters 3 to 5 contain performance requirements and guidance on the application of the operational and performance requirements, while the appendices contain operational requirements, A-SMGCS categorization, implementation levels, equipment evolution, target level of safety and A-SMGCS system research.


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Doc 9854 — **Global Air Traffic Management Operational Concept.**
The operational concept is intended to guide the planning and implementation of global air traffic management by providing a description of how the emerging and future ATM system should operate. It was developed by the Air Traffic Management Operational Concept Panel (ATMCP) and was endorsed by the Eleventh Air Navigation Conference in 2003 and the Thirty-Fifth Session of the Assembly in 2004.
E, A, C, F, R, S ISBN 92-9194-554-4 Order No. 9854 $64.00

Doc 9870 — **Manual on the Prevention of Runway Incursions.**
This manual provides guidance to States, international organizations, aerodrome operators, air traffic service (ATS) providers and aircraft operators for the implementation of runway safety programmes. Important aspects such as contributory factors, establishing runway incursion prevention programmes, recommendations for the prevention of runway incursions, incident reporting and data collection, classification of the severity of runway incursions and a compendium of best practices applicable to communications, flight deck, air traffic control, airside vehicles as well as references to runway safety toolkits are contained in the manual.
E, F, R, S ISBN 92-9194-874-8 Order No. 9870 $74.00

Doc 9882 — **Manual on Air Traffic Management System Requirements.**
This document, together with the Manual on Global Performance of the Air Navigation System (Doc 9883), provides a comprehensive understanding of the intent of, and delivery mechanisms for, the ATM system envisioned in the Global Air Traffic Management Operational Concept.

Note.— Also available on the CD-ROM “Air Traffic Management” and online via the Web by subscription. See Electronic Publications section.

Doc 9883 — **Manual on Global Performance of the Air Navigation System.**
This manual was produced by the ICAO Air Traffic Management (ATM) Requirements and Performance Panel within the context of a performance-based global air navigation system. The performance-based approach can be applied in economic management, transition management, safety management, security management, communications, etc. This manual is not replacing any existing ICAO guidance material in these areas, rather it is to be seen as overarching and complementary guidance, introducing a set of performance management terminology and techniques to assist the aviation community members in converging towards a globally harmonized and agreed upon approach.

Doc 9896 — **Manual on the Aeronautical Telecommunication Network (ATN) using Internet Protocol Suite (IPS) Standards and Protocols.**
This manual contains the minimum communication standards and protocols that will enable implementation of an ICAO aeronautical telecommunication network (ATN) based on the Internet protocol suite (IPS), referred to as the ATN/IPS. The focus of this manual is on interoperability across administrative domains in the ATN/IPS internetwork, although the material in this manual may also be used within an administrative domain.
The purpose of this manual is to provide guidance on continuous descent operations (CDO) and to harmonize its development and implementation. To achieve this, airspace design, instrument flight procedure design and air traffic control (ATC) techniques should all be employed in a cohesive manner. This will then facilitate the ability of flight crews to use in-flight techniques to reduce the overall environmental footprint and increase the efficiency of aircraft operations.
E, F, R, S
ISBN 978-92-9231-640-2 Order No. 9931 $55.00

Doc 9937 — Operating Procedures and Practices for Regional Monitoring Agencies in Relation to the Use of a 300 m (1 000 ft) Vertical Separation Minimum Between FL 290 and FL 410 Inclusive.
The purpose of this manual is to provide guidance on the operating procedures of Regional Monitoring Agencies (RMAs), in order to achieve a standardized approach to the way in which RMAs carry out the functions associated with the safe and efficient implementation and use of the reduced vertical separation minimum (RVSM) between FL 290 and FL 410.
E, F, R, S
ISBN 978-92-9231-679-2 Order No. 9937 $70.00

This manual is to present a concept for the Flight and Flow Information for a Collaborative Environment (FF-ICE) aiming at the realization of the vision for the future ATM system that requires an environment with significant information content and collaboration. It illustrates information for flow management, flight planning, and trajectory management associated to the ATM operational components and will be used by the ATM community, as the basis from which ICAO Standards and Recommended Practices (SARPs) will be developed, in order to ensure the global implementation in a consistent manner.
E, A, C, F, R, S
ISBN 978-92-9249-044-7 Order No. 9965 $111.00

This manual provides guidance on collaborative decision-making that is defined as an explicit supporting process focused on deciding on a course of action in pursuit of articulated objectives between two or more community members. It guides how ATM community members affected by a decision, share information related to that decision and agree on and apply a decision-making approach and principles. The overall objective of the process is to improve the performance of the ATM system as a whole while balancing against the individual performance needs of individual ATM community members.
E, A, C, F, R, S
ISBN 978-92-9249-048-5 Order No. 9971 $43.00

Cir 185 — Satellite-aided Search and Rescue — The COSPAS-SARSAT System.
The purpose of the circular is to acquaint personnel responsible for search and rescue, as well as air traffic services personnel, communications specialists and pilots, with the COSPAS-SARSAT (space system for search of vessels in distress/search and rescue satellite-aided tracking), which introduces space technology to assist in expediting search and rescue activities. It explains how the system assists with search and rescue, and informs States which may be interested in taking advantage of the COSPAS-SARSAT system, of the points of contact, levels of participation and likely costs.
E, F, R, S
Order No. CIR185 $36.00
Cir 211 — Aerodrome Flight Information Service (AFIS).
This circular provides guidance material concerning the designation of AFIS aerodromes; the basic elements of information to be provided; the requirements of AFIS units for information and communications, equipment and facilities; the training of personnel; and the procedures to be used. The document is also intended to facilitate the task of regional air navigation meetings or planning and implementation regional groups in determining ATS requirements and the nature and scope of the service to be provided at individual aerodromes.
E, F, R, S  Order No. CIR211  $14.00

Cir 213 — Pilot Skills to make “Look-Out” more effective in Visual Collision Avoidance.
This circular aims to make pilots aware of the skills required to make “look-out” more effective. These skills include the application of effective visual scanning, the ability to listen selectively to radio transmissions from ground stations and other aircraft to create a mental picture of the traffic situation, and the development of habit patterns that can be described as “good airmanship”.
E, F, R, S  Order No. CIR213  $14.00

Cir 278 — National Plan for CNS/ATM Systems.
This circular is intended to assist States in structuring, formulating, amending, enhancing and validating their national plans for the transition to CNS/ATM systems to meet both domestic and international operations. The guidance material presented in this circular is consistent with and complementary to the Global Air Navigation Plan for CNS/ATM Systems (Doc 9750) and covers operational, technical, economic and harmonization issues related to CNS/ATM systems.
E, A, C, F, R, S  Order No. CIR278  $124.00

This circular provides guidance to safety experts who have a background in probability and who want to acquire some expertise in the field of collision risk modelling applied to the determination of separation minima. It contains a theoretical introduction to all the collision risk models (CRMs) used in the Manual on Airspace Planning Methodology for the Determination of Separation Minima (Doc 9689) and the Manual on Implementation of a 300 m (1 000 ft) Vertical Separation Minimum Between FL 290 and FL 410 Inclusive (Doc 9574) and also provides further applications.
2009. 70 pp.

Cir 321 — Guidelines for the implementation of GNSS longitudinal separation minima.
The purpose of this circular is to provide guidance for applying the global navigation satellite system/distance measuring equipment (GNSS/DME) separation minima. It is aimed at a worldwide audience within the civil aviation authorities responsible for implementing these and other separation minima.
2010. 46 pp.
Cir 324 — Guidelines for Lateral Separation of Arriving and Departing Aircraft on Published Adjacent Instrument Flight Procedures.
The purpose of this circular is to apprise States of the ICAO guidelines and supporting material for the implementation of separation minima developed for arriving and departing aircraft on published adjacent instrument flight procedures (IFPs). This material supports provisions included in the Procedures for Air Navigation Services — Air Traffic Management (PANS-ATM, Doc 4444), Chapter 5, 5.4.1.2.1.4 (see Chapter 2 of this circular). It provides for two separation minima between certain performance-based navigation-capable aircraft utilizing IFPs and lateral separation between aircraft on IFPs using protected areas.

E, F, R, S
Order No. CIR324 $29.00

Cir 326 — Assessment of ADS-B and Multilateration Surveillance to Support Air Traffic Services and Guidelines for Implementation.
Automated Dependent Surveillance – Broadcast (ADS-B) and Multilateration (MLAT) are additional forms of electronic surveillance that may be used to support air traffic services in en-route and terminal area operations. ADS-B and MLAT may be introduced in areas that are either not served or are partially served by radar. Circular 326 contains the safety assessment carried out to conclude that ADS-B and MLAT may be used to provide a three (3) nautical mile separation minimum. Additionally, the document provides guidelines for the implementation of the minimum.

E, C, F, S
Order No. CIR326 $32.00

Cir 328 — Unmanned Aircraft Systems (UAS).
The purpose of this circular is to apprise States of the emerging ICAO perspective on the integration of unmanned aircraft systems (UAS) into non-segregated airspace and at aerodromes and consider the fundamental differences from manned aviation that such integration will involve. Legal considerations, aircraft certification, operations, communications, aerodromes and personnel licensing are all discussed, among other topics.

2011. 54 pp.
E, A, C, F, R, S
Order No. CIR328 $38.00

Cir 330 — Civil/Military Cooperation in Air Traffic Management.
This circular provides guidance and examples of successful practices of civil and military cooperation in support of optimum use of airspace by all users so as to effectively meet operational requirements of transportation, national defence and environmental sustainability. It contains information on institutional and regulatory framework of ICAO, civil/military interoperability concepts to facilitate the coordination among civil and military systems, description of general principles of airspace use and management including flexible use of airspace (FUA) principles, airspace structures and opportunities for collaborative decision-making, new concepts of ATM security and ATM in crisis situation, information on State aircraft operations, and appendices including best practices of civil/military cooperation and coordination in some States/organizations.

2011. 60 pp.
E, A, C, F, S, R
Order No. CIR330 $42.00
CMO — CONTINUOUS MONITORING AND OVERSIGHT

Part A — The Establishment and Management of a State’s Safety Oversight System.
This manual provides guidance on the establishment and management of a State’s safety oversight system and explains the critical items for safety oversight.

This manual provides procedures, information and guidance on the management and conduct of programme activities under the ICAO Universal Safety Oversight Audit Programme Continuous Monitoring Approach (USOAP CMA).

DGS — DANGEROUS GOODS

Known as the Technical Instructions or the TIs, this manual contains the only legal source of regulations for the safe transport of dangerous goods by air. Shippers, operators, State authorities and anyone else involved in the air transport chain will find in this manual all of the detailed regulations necessary for the safe transport of dangerous goods by air.
ISSN 1726-6181

This document provides information on the safe transport of dangerous goods by air that is primarily of interest to States. It supplements or explains in greater depth the basic information contained in the Technical Instructions.
ISSN 1726-6181

This manual has been designed to address the training needs of State and aviation employees who will be or are involved with ICAO’s Technical Instructions, the only legal source of regulations for the safe transport of dangerous goods by air. Additionally, ICAO offers a Dangerous Goods training course based on this manual.

English only ISBN 978-92-9231-515-3 Order No. 9375P1 $281.00
**Doc 9481 — Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods.**

This document provides guidance to States and operators for developing procedures and policies for dealing with dangerous goods incidents on board aircraft. It contains general information on the factors that may need to be considered when dealing with any dangerous goods incident and provides specific emergency response drill codes for each item listed in the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284).


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**IIM — INTEGRATED INFRASTRUCTURE MANAGEMENT**


Volume I of Doc 8071 provides general guidance on the extent of testing and inspection normally carried out to ensure that radio navigation systems meet the Standards and Recommended Practices in Annex 10. The guidance is representative of practices existing in a number of States with considerable experience in the operation and maintenance of these systems. In addition to the radio navigation systems covered in the previous editions of Volume I, the 4th edition of this volume includes guidance on testing of ILS which was previously published in Volume II.


| E, F, R, S | Order No. 8071P1 | $142.00 |

Amendment 1 (31/10/02)

| Order No. 8071P1/E/01 | $52.00* |


Volume II of Doc 8071 contains guidance on testing of satellite-based radio navigation systems. Chapters 1 and 2 describe testing of non-precision approach (NPA) procedures using an aircraft-based augmentation system (ABAS). Chapters 3 and 4 describe testing of a satellite-based augmentation system (SBAS) and a ground-based augmentation system (GBAS).


| E, F, R, S | ISBN 92-9194-889-6 | Order No. 8071P2 | $56.00 |

Corrigendum (30/4/08)

| Order No. 8071P2/E/01 | FREE |

**Volume III — Testing of Surveillance Radar Systems.**

Volume III of Doc 8071 describes methods for evaluating the technical and operational performance of surveillance radar systems. It delineates the testing methods currently in use for both primary and secondary radar systems.


| E, F, R, S | Order No. 8071P3 | $131.00 |

Amendment 1 (9/10/02)

| Order No. 8071P3/E/01 | $48.00* |

Amendment 2 (31/12/06)

| Order No. 8071P3/E/02 | $11.00* |

* Free with purchase of corresponding document.
Doc 8126 — *Aeronautical Information Services Manual.*
Guidance material on aspects of the aeronautical information service (AIS), explaining the basic functions of an AIS and
the basic type of organization required to assist States in implementing the Standards and Recommended Practices of
Annex 15 — Aeronautical Information Services.
Reprinted, incorporating Amendment 1.
Amendment 2 (28/9/09) Order No. 8126/E/02  $128.00*

This document addresses policy matters, network performance and routing of traffic in the aeronautical fixed
telecommunication network (AFTN). It also contains an elaborate description of the common ICAO data interchange
network (CIDIN) and guidance material relating to the exchange of operational meteorological (OPMET) data over
aeronautical fixed service (AFS) circuits.
E, F, R, S  Order No. 8259  $107.00

Doc 8697 — *Aeronautical Chart Manual.*
Guidance material on aspects of aeronautical charting to assist States in implementing the Standards and
Reprinted, incorporating Amendments 1–3, including 13 specimen charts.

Guidance material on the provision of geographic coordinates referenced to the WGS-84 datum to assist States in the
uniform implementation of the Standards and Recommended Practices on WGS-84 as contained in Annexes 4, 11, 14
and 15.
E, F, R, S  Order No. 9674  $101.00

Doc 9718 — *Handbook on Radio Frequency Spectrum Requirements for Civil Aviation including statement of
approved ICAO policies.*
This document contains ICAO policy statements relevant to aviation requirements for radio frequency spectrum and
material relevant to the technical and operational aspects of the utilization of the radio frequency spectrum.
Amendment 1 (12/9/11) Order No. 9718/E/03  $39.00*
Doc 9741 — *Manual on HF Data Link.*
This document provides guidance material on the implementation and use of the high frequency data link (HFDL) which is defined in the Standards and Recommended Practices of Annex 10, Volume III. The guidance material covers several areas within the HFDL system, including airborne avionics, the propagation media and the terrestrial components.
Order No. 9741 $102.00

This document contains the detailed technical specifications for VDL Mode 2. These specifications need to be considered in conjunction with the Standards and Recommended Practices for VDL Mode 2. This document also includes guidance in the implementation of VDL Mode 2. VDL Mode 2 provides an air/ground data link which is compatible with the aeronautical telecommunication network (ATN).
Order No. 9776 $100.00

This document provides technical guidance, specifications and reference material to assist in the engineering of the ground voice communications facilities specified in Annex 10. It provides recommendations and technical guidance for administrations wishing to migrate their international ATS communications to make use of switched digital networking relating to international ATS communications.
Order No. 9804 $35.00

This manual contains guidance material for the Very High Frequency (VHF) Digital Link (VDL) Mode 3 integrated air-ground voice and data link system and provides implementation-related information. It includes material related to system description, concept of operations, and the characterization of the overall system performance.
Order No. 9805 $226.00

This manual contains a comprehensive description for the Very High Frequency (VHF) Digital Link (VDL) Mode 4, notably the capabilities, technical characteristics, and modes of operation of VDL Mode 4. It complements the Standards and Recommended Practices for VDL Mode 4 as contained in Annex 10.
Order No. 9816 $300.00

The primary purpose of this manual is to provide information on the implementation aspects of GNSS in order to assist States in the introduction of GNSS operations. It provides a general overview of GNSS-based operations, a GNSS system description and guidance on providing GNSS-based services and includes future prospects for the evolution of GNSS. This manual is to be used in conjunction with the relevant provisions in Annex 10, Volume I.
Order No. 9849 $58.00
Doc 9855 — Guidelines on the Use of the Public Internet for Aeronautical Applications.
This manual provides guidelines on the use of the public Internet for non-time-critical aeronautical applications. The guidelines are high-level and generic and are based on the currently available commercial products and solutions for the purpose of assuring the integrity of messages/data. The manual places a degree of emphasis on the approval/accreditation (by a State) of entities that provide aeronautical information over the Internet.
E, A, C, F, R, S ISBN 92-9194-519-6 Order No. 9855 $34.00

The objective of this manual (in conjunction with the UAT SARPs of Annex 10, Volume III) is to define internationally agreed detailed technical specifications for the UAT system that accomplish the following: a) establish a basis for RF compatibility of UAT with other systems operating in the 960 MHz to 1 215 MHz frequency band (ACAS, DME, SSR, TACAN, JTIDS/MIDS and GNSS E5/L5); and b) establish a common basis for UAT inter-system interoperability across implementations manufactured and certified in different regions of the world.

This document is a compendium of information on various technical, operational and other related aspects of the ACAS. It also contains some suggested outlines for the ACAS training of flight crews and air traffic controllers.
Corrigendum No. 1 (21/8/12) Order No. 9863/E/01 FREE
Corrigendum No. 2 (26/9/12) Order No. 9863/E/02 FREE

The purpose of this manual is to specify technical provisions for the formats and associated protocols used in Mode S services and extended squitter. The manual also includes implementation guidelines as well as information on future Mode S and extended squitter services that are under development. The provision of Mode S services, specified in this document, include the following: a) data formats for transponder registers; b) formats for Mode S specific protocols: traffic information broadcast; and dataflash; c) Mode S broadcast protocols, including: 1) uplink broadcast; and 2) downlink broadcast.
E, F, S (R in preparation) ISBN 978-92-9249-042-3 Order No. 9871 $239.00

This manual contains the detailed technical specifications for the ATN based on relevant standards and protocols established for open systems interconnection (OSI) by the International Organization for Standardization (ISO) and the Telecommunication Standardization Sector of the International Telecommunication Union (ITU-T).
Part I — Air-Ground Applications.
English only ISBN 978-92-9231-524-5 Order No. 9880P1 $205.00
Part II — *Ground-Ground Applications — Air Traffic Services Message Handling Services (ATSMHS).*
English only ISBN 978-92-9231-528-3 Order No. 9880P2 $87.00

Part III — *Upper Layer Communications Service (ULCS) and Internet Communications Service (ICS).*
English only ISBN 978-92-9231-525-2 Order No. 9880P3 $118.00

Amendment 1 (29/4/11) Order No. 9880P3/E/01 $172.00*

Part IV — *Directory Services, Security and Systems Management.*
English only ISBN 978-92-9231-531-3 Order No. 9880P4 $49.00

Doc 9869 — *Manual on Required Communication Performance (RCP).*
The purpose of this guidance material is to explain the concept of RCP, identify RCP requirements applicable to the provision and use of air traffic services, and provide a basis for the application of RCP in a specified airspace.

Air traffic is growing at a significant rate and at the same time there are increasing demands for more operating flexibility to improve aircraft efficiency and to reduce the impact of air travel on the environment. This document addresses aeronautical surveillance systems as major elements of modern air navigation infrastructure required to safely manage increasing levels and complexity of air traffic. It provides a basic understanding of various systems and how they are used for air traffic surveillance while the appendices contain detailed information on some specific systems and related topics.

Corrigendum No. 1 (16/2/12) Order No. 9924/E/01 FREE

Amendment 1 (5/4/12) Order No. 9924/E/02 $54.00*

The objective of this manual is to provide an overview of systems operating in the aeronautical mobile-satellite (route) service (AMS(R)S) and offer guidance on the consideration of satellite networks as a platform for AMS(R)S communications for the safety and regularity of flight.

* Free with purchase of corresponding document.
ISD-SAF — IMPLEMENTATION SUPPORT AND DEVELOPMENT — SAFETY


Part B — The Establishment and Management of a Regional Safety Oversight Organization.

This manual provides detailed guidance on the establishment, management and sustainable operation of a regional safety oversight organization (RSOO). This manual outlines the duties and responsibilities, individually and/or collectively, of ICAO Contracting States to the Chicago Convention with respect to the various options and formats of an RSOO.


ISM — INTEGRATED SAFETY MANAGEMENT


This manual provides detailed guidance on the principles and practices of aviation safety management. It is designed to assist States, aircraft and aerodrome operators and air traffic services providers in implementing the Annex provisions with respect to safety programmes and safety management systems.


MED — AVIATION MEDICINE


The main purpose of this manual is to assist and guide designated medical examiners and licensing authorities in decisions relating to the medical fitness of licence applicants as specified in Annex 1 — Personnel Licensing. It is also envisaged that the manual might be useful to supplement properly supervised theoretical and practical post-graduate training in aviation medicine. Topics discussed in the manual include licensing practices, aviation physiology, medical assessment, aviation pathology and aviation medical training.


The global spread of psychoactive substances, their general availability and the ever-increasing number of addicted users are becoming a growing threat to aviation safety in many States. This document was developed to provide States with a tool for decision-makers to use when deciding on the best policy for their States and for State licensing authorities when planning national strategies; at the same time, airlines and other employers can use this document to implement, on a practical level, established policies and strategies in a cost-effective way, with due regard for both aviation safety and the welfare of their employees. The manual is organized into five chapters: introduction; education of the aviation workforce; identification, treatment and rehabilitation; employment consequences of problematic substance use; and biochemical test programmes.


E, A, F, R, S  Order No. 9654  $72.00
This manual supports the laser-related SARPs in Annexes 11 and 14. It focuses on the medical, physiological and psychological effects on flight crew of exposure to laser emissions. The information and guidance material provided in this manual are primarily directed to decision-makers at government level, laser operators, air traffic control officers, aircrew, aviation medicine consultants to and medical officers of the regulatory authorities, and doctors involved in clinical aviation medicine, occupational health and preventive medicine. The manual is aimed both at reducing the need for regulatory authorities to seek individual expert advice and at reducing inconsistencies between Member States in the implementation of national regulations.


| E, A, C, F, R, S | ISBN 92-9194-058-5 | Order No. 9815 | $64.00 |

**MET — METEOROLOGY**

Doc 7488 — *Manual of the ICAO Standard Atmosphere (extended to 80 kilometres (262 500 feet)).*
This manual provides standard values of atmospheric parameters in tabular form for levels up to 80 kilometres. It also gives values of constants and coefficients, as well as the underlying equations used in the calculation of the atmospheric parameters. The document is intended for use in calculations in the design of aircraft, in presenting test results of aircraft and their components under identical conditions, and in facilitating standardization in the development and calibration of instruments. Its use is also recommended in the processing of data from geophysical and meteorological observations. This manual intends to facilitate the uniform application of the ICAO Standard Atmosphere defined in Annex 8 — *Airworthiness of Aircraft* and provides sets of data that are accurate enough for practical applications (identical to ISO standard atmosphere).


| Quadrilingual: E/F/S/R | Order No. 7488 | $240.00 |

*Note.— Also available on CD-ROM. See Electronic Publications section.*

This manual aims at meeting the needs of aeronautical meteorologists, particularly those at the working level, as well as the needs of pilots and other aeronautical personnel for guidance on practices to be used in the provision of meteorological service to air navigation. The body of the manual is based primarily on the content of Annex 3 — *Meteorological Service for International Air Navigation* and it contains detailed guidance on meteorological reports and forecasts. The appendices address specific issues such as location of instruments at aerodromes, and guidelines for authorized access to WAFS forecasts and OPMET data through the AFS satellite broadcast.


This manual provides guidance on the application of the provisions on RVR given in Annex 3 — *Meteorological Service for International Air Navigation* to the operational environment. The manual is intended to assist States in setting up efficient RVR systems or, where such systems exist, in updating and standardizing them.


| E, F, R, S | ISBN 92-9194-480-7 | Order No. 9328 | $87.00 |

| Amendment 1 (29/8/07) | Order No. 9328/E/03 | $11.00* |

* Free with purchase of corresponding document.
Doc 9377 — Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services.
The aim of this manual is to make available to States information and guidance concerning ways and means of improving the coordination between area control centres/flight information centres (ACCs/FICs) and their associated meteorological watch offices (MWOs). It also contains information on relevant modern methods employed by States, in particular in respect of the provision to air traffic services (ATS) units, of weather radar data and of meteorological information required by flights below flight level 100. In addition, the manual provides information on coordination between search and rescue units and meteorological offices.

The main purpose of this manual is to assist States and international organizations involved in the international airways volcano watch (IAVW) by assembling in one document all the issues related to volcanic ash and providing guidance regarding States’ responsibilities in the IAVW. The manual also provides information concerning the requirements for the provision of warnings to aircraft of radioactive materials and toxic chemical clouds and guidance regarding how these requirements may be satisfied.
E, F, R, S ISBN 92-9194-888-8 Order No. 9691 $128.00
Amendment 1 (14/12/07) Order No. 9691/E/04 $70.00*
Amendment 2 (29/10/10) Order No. 9691/E/06 $38.00*

This manual provides guidance on the application of the provisions related to wind shear detection, reporting and warnings given in Annex 3 — Meteorological Service for International Air Navigation. It also contains information on recent technical developments and research, including advances in the development of equipment to detect and warn of wind shear, both ground-based and airborne. The manual is intended to assist States in implementing efficient wind shear warning systems.
Reprinted, incorporating Amendment 1 and Corrigendum.
Amendment 2 (21/2/11) Order No. 9817/E/04 $66.00*

This manual provides guidance on the application of the provisions related to the use of automatic observing systems at aerodromes given in Annex 3 — Meteorological Service for International Air Navigation. The manual is intended to assist States in setting up efficient automatic observing systems at aerodromes or, where such systems exist, in updating and standardizing them.

* Free with purchase of corresponding document.
Doc 9873 — **Manual on the Quality Management System for the Provision of Meteorological Service for International Air Navigation.**

The manual provides guidance on the application of the requirements related to the establishment and implementation of a quality system for meteorological service for international air navigation as stipulated in Annex 3 — *Meteorological Service for International Air Navigation*. The manual is intended to assist States in setting up and maintaining a comprehensive quality management system based on the provisions of the International Standards Organization. The manual contains examples of the necessary documentation and additional guidance derived from States that have implemented such quality management systems.


English


Doc 9974 — **Flight Safety and Volcanic Ash — Risk management of flight operations with known or forecast volcanic ash contamination.**


English


*Note. — This document is available for free in electronic format on the ICAO public website: [www.icao.int](http://www.icao.int).*

**OPS — FLIGHT OPERATIONS**

Doc 7192 — **Training Manual.**

ICAO has issued guidance material in the form of Training Manuals to assist States in the implementation and uniform application of the Standards and Recommended Practices for the licensing of personnel as specified in Annex 1. The Training Manual is issued in several parts dealing with specific aspects of training for various categories of personnel.

Part B-5 — **Integrated Commercial Pilot Course.**

**Volume 1 — Course details.**

This volume of the Training Manual covers in general terms the ground training topics for an integrated course for a Commercial Pilot Licence with Instrument Rating and Class Rating Multi-Engine Land.


E, F, R, S Order No. 719251 $250.00

**Volume 2 — Instructor Briefing Sheets.**

This volume of the Training Manual comprises instructor briefing sheets intended to be used by ground instructors for developing individual lesson plans.


Part D-1 — *Aircraft Maintenance (Technician/Engineer/Mechanic).*
This part of the Training Manual contains training syllabi for AMEs that cover both knowledge and skill requirements outlined in Annex 1. The content of this edition has been updated to reflect new technologies and procedures. New subject matter has been included for the first time on topics such as airships, composite materials and Human Factors. The format of the manual reflects the concept of competency-based training and is now consistent with other manuals in the Doc 7192 series.

E, F, R, S  
Order No. 7192D1  
$100.00

Part D-3 — *Flight Operations Officers/Flight Dispatchers.*
This part of the Training Manual contains training syllabi for Flight Operations Officers/Flight Dispatchers both for basic training and re-qualification training. The syllabi suggested are not all-inclusive and are provided as a guideline to the minimum requirements for training according to Annex 1 and Annex 6.

E, F, R, S  
Order No. 7192D3  
$88.00

Part E-1 — *Cabin Attendants’ Safety Training.*
This part of the Training Manual contains training syllabi for the initial and recurrent training of cabin attendants. The syllabi suggested are not all-inclusive and are provided as a guideline to the minimum requirements for training according to Annex 6.

E, F, R, S  
Order No. 7192E1  
$34.00

Part E-2 — *Air Traffic Safety Electronics Personnel (ATSEP).*
E, F, R, S  
Order No. 7192E2  
$126.00

Part F-1 — *Meteorology for Air Traffic Controllers and Pilots.*
This part of the Training Manual presents an updated curriculum on meteorology training for Air Traffic Controllers and Pilots.

E, F, R, S  
Order No. 7192F1  
$28.00

**Doc 7383 — Aeronautical Information Services Provided by States.**
Part 1 provides essential data concerning the type of aeronautical information service available from various States and how it may be obtained, supplemented by a map indicating the geographical area of responsibility of each service. Part 2 shows the current exchange of NOTAM between NOTAM offices. Part 3 contains a listing of international airports, including those designated under Article 10 of the Convention on International Civil Aviation.

Quadrilingual: E/F/S/R  
Order No. 7383/100  
$106.00

**Note.—** Some parts of the document are given in English, French, Spanish and Russian. Other parts of the document are in English only.
This manual provides States and operators with detailed guidance concerning the establishment and maintenance of safe, regular and efficient international commercial air transport operations. This guidance presents broad objectives and details of acceptable means of compliance with Annex 6 — Operation of Aircraft, Part I — International Commercial Air Transport — Aeroplanes, and Part III — International Operations — Helicopters, which underscore a need for the State of the Operator to exercise a positive and continuing measure of control over operators. The manual outlines the duties and responsibilities of both the State of the Operator and the operator and recognizes their interdependence in maintaining an acceptable standard of operations and safe operating practices.

Doc 8585 — Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services.
The designators consist of: a) three-letter designators for use on the international aeronautical telecommunication service and for aircraft identification by air traffic control (ATC); and b) telephony designators for aircraft operating agencies and for authorities and services operating aircraft, which may be used as appropriate. Parts 1, 2 and 3 consist of encode and decode tables linking aircraft operating agencies, aeronautical authorities and services with their assigned ICAO three-letter and telephony designators. Addresses of government civil aviation authorities are listed in Part 4.
New edition quarterly.
ISSN 1014-0123
Yearly subscription Order No. 8585/S $880.00

Note 1.— Some parts of the document are given in English, French, Spanish and Russian. Other parts of the document are in English only.

Note 2.— Also available on CD-ROM. See Electronic Publications section.

This manual provides the instrument procedure designer guidance on how to design instrument flight procedures based on the criteria contained in the Procedures for Air Navigation Services OPS — Aircraft Operations, Volume II — Construction of Visual and Instrument Flight Procedures (Doc 8168).
E, F, R, S Order No. 9368 $231.00

This manual facilitates the construction of instrument flight procedures by providing a set of pre-calculated templates to draw the protection areas for holding, reversal and racetrack procedures.
E, F, R, S ISBN 92-9194-727-X Order No. 9371 $158.00

This manual contains guidance material for States about the procedures for the issuance and maintenance of licences to fulfil their obligations specified in Annex 1.
English ISBN 978-92-9249-117-8 Order No. 9379 $146.00
Doc 9516 — **Guidance on the Preparation of a Pilot's Operating Handbook for Light Aeroplanes.**
This document provides detailed guidance on the material that should be included in a pilot's operating handbook to satisfy the requirement in Annex 6 — *Operation of Aircraft*, Part II — *International General Aviation — Aeroplanes*, for an aeroplane engaged in international general aviation to carry a flight manual or other document or information concerning operating limitations.

Order No. 9516  $92.00

This manual identifies the relationship between RNAV and RNP applications and the advantages and limitations of choosing one or the other as the navigation requirement for an airspace concept. It also aims at providing practical guidance to States, air navigation service providers and airspace users on how to implement RNAV and RNP applications, and how to ensure that the performance requirements are appropriate for the planned application.

ISBN 978-92-9231-198-8  Order No. 9613  $231.00

Doc 9625 — **Manual of Criteria for the Qualification of Flight Simulation Training Devices.**
Volume I — *Aeroplanes.*
Volume I of this manual provides States, manufacturers and operators with guidance material covering the criteria for the initial and periodic qualification and evaluation of aeroplane flight simulation training devices (FSTD). Seven standard examples of FSTD are defined, to support identified training types. The manual also allows the determination of criteria for an FSTD tailored to specific training needs. This “à la carte” determination is constructed using a comprehensive list of training tasks, with associated requirements for FSTD features.

ISBN 978-92-9231-341-8  Order No. 9625-1  $475.00

Doc 9683 — **Human Factors Training Manual.**
Part 1 introduces basic aviation Human Factors concepts. Part 2 outlines Human Factors training programmes for operational personnel.

Reprinted, incorporating Amendments 1 and 2.  
ISBN 92-9194-905-1  Order No. 9683  $224.00

Doc 9758 — **Human Factors Guidelines for Air Traffic Management (ATM) Systems.**
This manual provides practical guidance to ICAO panels and study groups when developing CNS/ATM-related Standards and Recommended Practices. It also assists States in the consideration of Human Factors issues when purchasing and implementing CNS/ATM-related technology. Furthermore, this manual is a means of complying with Recommendations 6/11 (*Timely consideration of Human Factors issues*) and 6/12 (*Human Factors regulations*) of the Report of the Worldwide CNS/ATM Systems Implementation Conference (Doc 9719).

Order No. 9758  $102.00
Doc 9803 — *Line Operations Safety Audit (LOSA).*
This manual presents information available to the international civil aviation community on the control and management of human error and the development of countermeasures to error in operational environments.
E, A, C, F, R, S
Order No. 9803 $50.00

This manual provides the ICAO Universal Safety Oversight Audit Programme auditors, Member States and auditors in particular specialities with standard procedures for the conduct of safety oversight audits, with respect to those factors dealing with human performance. It is also designed to assist States in the evaluation of the implementation of Human Factors requirements contained in ICAO Annexes.
E, F, R, S ISBN 92-9194-007-0
Order No. 9806 $108.00

This manual presents the latest information available to the international aviation community on relevant Human Factors considerations in civil aviation security operations.
Order No. 9808 $73.00

This manual is an introduction to information available to the international aviation community on the control of human error and the development of countermeasures to error in aviation maintenance. Its target audience includes the managers of both civil aviation administrations and the airline industry including airline safety, training, operational and maintenance managers.
Order No. 9824 $126.00

This manual provides guidance on the implementation of the ICAO language proficiency Standards for flight crew and air traffic controllers. It contains comprehensive information on a range of aspects related to language proficiency and training that will assist Member States, operators and air traffic services providers in implementing efficient language training and testing. It also contains information that will help the language training and testing industry in providing services that are relevant to the civil aviation context.
Order No. 9835 $108.00

Doc 9841 — *Manual on the Approval of Training Organizations.*
This document provides information and guidance to the Licensing Authority on the implementation of Annex 1 Standards related to the approval of training organizations. It describes the process through which approval is granted to a training organization, the contents of an application proposal to become an approved training organization (ATO), the quality assurance system and, where applicable, the safety management system needed to maintain approval.
E, A, C, F, S
Order No. 9841 $63.00
This manual is intended for use by aircraft operators and procedure designers of instrument approaches based on RNP using RNAV avionics systems, where authorization is required (AR). The manual includes design criteria to aid States in the implementation of RNP AR approach procedures in accordance with the PBN Manual, Volume II, Part C, Chapter 6, Implementing RNP AR APCH. Similar criteria for departure procedures will be incorporated when developed.

E, A, C, F, R, S  
Order No. 9905  
$68.00  
Corrigendum (15/4/11)  
Order No. 9905/E/01  
FREE

Doc 9906 has been assembled to provide guidance in attaining the stringent requirements for quality assurance in the flight procedure design process.

Volume 1 — Flight Procedure Design Quality Assurance System.
This volume provides guidance for quality assurance in the procedure design processes, such as procedure design documentation, verification and validation methods, guidelines about the acquisition/processing of source information/data. It also provides a generic process flow diagram for the design and the implementation of flight procedures.

E, A, C, F, R, S  
Order No. 9906-1  
$43.00

This volume provides guidance for the establishment of flight procedure designer training. Training is the starting point for any quality assurance programme. This volume provides guidance for the establishment of a training programme.

E, A, C, F, R, S  
Order No. 9906-2  
$71.00

Volume 3 — Flight Procedure Design Software Validation.
This volume provides guidance for the validation (not certification) of procedure design tools, notably with regard to criteria.

E, A, C, F, R, S  
Order No. 9906-3  
$73.00  
Corrigendum (22/2/11)  
Order No. 9906-3/E/01  
FREE

Volume 5 — Validation of Instrument Flight Procedures.
This volume provides guidance for conducting validation of instrument flight procedures, including safety, flyability and design accuracy.

E, C, F, S  
(A, R in preparation)  
ISBN 978-92-9231-996-0  
Order No. 9906-5  
$39.00
Volume 6 — *Flight Validation Pilot Training and Evaluation (Development of a Flight Validation Pilot Training Programme)*.

This volume provides guidance for the establishment of flight procedure validation pilot training. Training is the starting point for any quality assurance system. This volume also provides guidance for the establishment of a training programme.


E, C, S


**Doc 9910 — Normal Operations Safety Survey (NOSS).**

This manual introduces the Normal Operations Safety Survey (NOSS), a methodology for capturing safety data during normal air traffic control (ATC) operations. The NOSS methodology is based on the Threat and Error Management (TEM) framework and is a safety management tool to monitor safety during normal aviation operations. Monitoring safety in normal operations is an essential activity within the safety management systems of air traffic services (ATS) provider organizations, and NOSS is proposed as a suitable way to do this. In introducing NOSS, the manual also presents the latest information available to international civil aviation on the control of systemic error in operational environments, from the perspective of safety management. Its target audience includes senior safety, training and operational personnel in ATS and regulatory bodies.


**Cir 234 — Human Factors Digest No. 5 — Operational Implications of Automation in Advanced Technology Flight Decks.**

This circular introduces basic Human Factors considerations in the operation and training of advanced-technology flight deck aircraft.


E, F, R, S Order No. CIR234 $33.00

**Cir 240 — Human Factors Digest No. 7 — Investigation of Human Factors in Accidents and Incidents.**

This circular discusses background and introduces a protocol for the investigation of Human Factors issues in accidents and incidents.

1993. 60 pp.

E, F, R, S ISBN 92-9194-296-0 Order No. CIR240 $48.00

**Cir 241 — Human Factors Digest No. 8 — Human Factors in Air Traffic Control.**

This circular discusses basic Human Factors issues in air traffic control, including workstation design and personnel selection and training.


E, F, R, S Order No. CIR241 $37.00

**Cir 247 — Human Factors Digest No. 10 — Human Factors, Management and Organization.**

This circular introduces the concept of systemic safety, and presents the background information as well as a protocol to implement safety programmes.


E, F, R, S Order No. CIR247 $37.00
Cir 249 — Human Factors Digest No. 11 — Human Factors in CNS/ATM Systems.
This circular introduces the concept of human-centred automation.
E, F, R, S
Order No. CIR249
$30.00

Cir 253 — Human Factors Digest No. 12 — Human Factors in Aircraft Maintenance and Inspection.
This circular discusses basic Human Factors issues in aircraft maintenance and inspection, including maintenance personnel selection and training.
E, F, R, S
Order No. CIR253
$37.00

Cir 300 — Human Factors Digest No. 15 — Human Factors in Cabin Safety.
This digest is an introduction to the latest information available to the international aviation community on relevant Human Factors considerations for aircraft passenger cabin safety. Its target audience includes safety, training and front-line operational personnel in industry, regulatory bodies, and manufacturers.
2003. 64 pp.
E, A, C, F, R, S
ISBN 92-9194-164-6
ISSN 1729-1097
Order No. CIR300
$51.00

Cir 301 — New Larger Aeroplanes — Infringement of the Obstacle Free Zone: Operational Measures and Aeronautical Study.
The purpose of this circular is to provide operational information to Member States wishing to introduce new larger aeroplane operations at existing aerodromes. It describes a study focused on the dimensions of the obstacle free zone, as described in Annex 14. The study utilized flight simulators and computer simulations to investigate the probability of collision during a balked landing for code letter F aeroplane operations at code letter E aerodromes.
E, A, C, F, R, S
ISBN 92-9194-560-9
Order No. CIR301
$199.00

Cir 302 — Human Factors Digest No. 16 — Cross-Cultural Factors in Aviation Safety.
This digest presents the safety case for cross-cultural factors in aviation by focusing not on cultures per se but on cultural interfaces, those situations where members of one culture encounter people or artifacts from other cultures. Its target audience includes international and local regulatory authorities, aircraft manufacturers, airline personnel, as well as managers of both civil aviation administrations and the airline industry, including airline operational and training managers, regulatory bodies, safety and investigation agencies and training establishments, and senior and middle non-operational airline management.
E, A, F, R, S
ISBN 92-9194-227-8
ISSN 1729-1097
Order No. CIR302
$35.00

Cir 314 — Threat and Error Management (TEM) in Air Traffic Control.
This circular describes an overarching safety framework intended to contribute to the management of safety in aviation operations and known as TEM. The main objective of introducing the TEM framework to the ATS community in general, and the ATC community in particular, is to enhance aviation safety and efficiency. This is achieved by providing an operationally relevant and highly intuitive framework for understanding and managing system and human performance in operational contexts.
E, A, C, F, R, S
Order No. CIR314
$28.00
Cir 318 — Language Testing Criteria for Global Harmonization.
This circular provides guidance in processes for testing candidates in accordance with the ICAO language proficiency requirements as well as recommended criteria for the development or selection of aviation language testing programmes. The guidance material presented in this circular is complementary to the Manual on the Implementation of ICAO Language Proficiency Requirements (Doc 9835).

Cir 323 — Guidelines for Aviation English Training Programmes.
Currently, there is no system of accreditation or qualification for schools or teachers developing and delivering aviation English training. Like aviation English testing, aviation English training is an unregulated industry. This circular seeks to lay down a set of principles of best practice and guidelines by which any aviation English training can be assessed. The circular addresses four areas: Aviation English training design and development; Aviation English training delivery; Aviation English trainer profiles and backgrounds; and Aviation English trainer training.

SAST — State Aviation Safety Tools

Doc 7910 — Location Indicators.
A listing of four-letter location indicators and, where available, corresponding three-character International Air Transport Association (IATA) location identifier codes for geographical locations throughout the world, and a list of the addresses of centres in charge of flight information regions (FIR) and/or upper flight information regions (UIR).
New edition quarterly.
ISSN 1727-2610 Order No. 7910/145 $220.00
Yearly subscription Order No. 7910/S $740.00

Note 1.— Some parts of the document are given in English, French, Spanish and Russian. Other parts of the document are in English only.

Note 2.— Also available online via the Web by subscription. See Electronic Publications Section, under ICAO Online Subscriptions.

Doc 8643 — Aircraft Type Designators.
Designators for aircraft types commonly provided with air traffic services (ATS): Part 1 lists the common names of aircraft manufacturers and their aircraft types; Part 2 lists aircraft by their type designators showing manufacturers and models; Part 3 lists aircraft by model number and/or model name; and Part 4 lists the full names of aircraft manufacturers.
ISSN 1014-0107 Order No. 8643/40 $270.00

Note.— Also available on CD-ROM. See Electronic Publications Section.
AIR NAVIGATION PLANS

Air Navigation Plans set forth the facilities, services and procedures required for international air navigation within each ICAO region. Such Plans contain specifications which governments can follow in programming the provision of their air navigation facilities and services, with the assurance that facilities and services furnished in accordance with the Plan will form, with those of other States, an integrated system adequate for the foreseeable future.

In technical scope, each Plan comprises statements of required facilities and services in the following fields: aircraft operations, aerodromes and ground aids; aeronautical information services; air traffic services; communications, navigation and surveillance; meteorology; and search and rescue.

In geographical scope, the Plan is related to one or more of the nine ICAO air navigation regions. However, the Plan may call for the provision of facilities and services beyond the charted boundaries of a region, where such facilities and services are necessary to meet the requirements of international air navigation within that region.

The format of Air Navigation Plans is in the process of transition from the present one volume to the new two-volume format. The first volume of this document is the Basic Air Navigation Plan (Basic ANP). It contains general planning criteria, implementation guidelines and stable plan elements. The second volume, the Facilities and Services Implementation Document (FASID) sets forth in general terms the facilities, services and procedures required for international air navigation within a specified area. With the exception of the trial editions of the North Atlantic Region ANP and FASID (Docs 9634 and 9635), the Basic ANP and FASID are considered to be one saleable document.

Doc 7474 — Africa-Indian Ocean Region.

Volume I, Basic ANP. ISBN 92-9194-431-9
Reprinted, incorporating Amendment 1.

Amendment 2 (27/6/05) Order No. 7474/T/03 $35.00*

Volume II, FASID. ISBN 92-9194-432-7

Trilingual: E/F/S
Order No. 7474 $758.00

Doc 7754 — European Region.

Volume I, Basic ANP.

Volume II, FASID.

Amendment 1 (Vol. I & II) (8/8/02) Order No. 7754/E/06 $161.00*
Amendment 2 (Vol. I & II) (20/8/03) Order No. 7754/E/08 $287.00*
Amendment 3 (Vol. I & II) (27/5/05) Order No. 7754/E/13 $255.00*
Amendment 4 (Vol. I & II) (27/6/05) Order No. 7754/E/14 $11.00*

E, F, R, S
Order No. 7754 $474.00

* Free with purchase of corresponding document.
**Doc 8733 — Caribbean and South American Regions.**

Volume I, Basic ANP.

- Amendment 1 (27/2/04)  
  Order No. 8733/T/01 $18.00*

- Amendment 2 (27/6/05)  
  Order No. 8733/T/02 $35.00*

- Amendment 3 (7/12/07)  
  Order No. 8733/T/03 $87.00*

Volume II, FASID.

  Order No. 8733 $769.00*

**Doc 8755 — North Atlantic, North American and Pacific Regions.**

Reprinted, incorporating Amendments 1–3.

- Order No. 8755 $250.00

**Doc 9634 — North Atlantic Region.**

Trilingual: E/F/S

- Amendment 1 (15/8/97)  
  Order No. 9634/T/01 $20.00*

- Amendment 2 (27/6/05)  
  Order No. 9634/T/02 $35.00*

**Doc 9635 — Facilities and Services Implementation Document (FASID) — North Atlantic Region.**

Trilingual: E/F/S

- Amendment 1 (15/8/97)  
  Order No. 9635/T/02 $22.00*

- Amendment 2 (5/8/02)  
  Order No. 9635/T/03 $11.00*

- Amendment 3 (27/2/04)  
  Order No. 9635/T/04 $11.00*

**Doc 9673 — Asia and Pacific Regions.**

Volume I, Basic ANP.  
ISBN 92-9194-678-8

Volume II, FASID.  
ISBN 92-9194-679-6

  Order No. 9673 $359.00

* Free with purchase of corresponding document.
REPORTS OF MEETINGS

Reports of divisional-type, regional-type, and panel-type meetings of worldwide interest, containing the recommendations and main considerations relating to the agenda of each meeting.

DIVISIONAL-TYPE MEETINGS

The reports of the earlier meetings are out of print.

Air Navigation Conferences

E, A, F, R, S
Order No. 9707 $40.00

E, A, F, R, S
Order No. 9719 $43.00

Order No. 9828 $148.00

AIG — Accident Investigation

E, A, F, R, S
Order No. 9753 $89.00

Order No. 9914 $66.00
Supplement
Order No. 9914/E/01 $11.00*

* Free with purchase of corresponding document.
MET — METEOROLOGY

E, F, R, S Order No. 9650 $201.00

IIM — Integrated Infrastructure Management

E, A, F, R, S Order No. 9733 $464.00

REGIONAL-TYPE MEETINGS

The reports of the earlier meetings are out of print.

AFI — Africa-Indian Ocean Region

E, F Order No. 9702 $458.00

E, F

CAR/SAM — Caribbean and South American Regions

E, S Order No. 9749 $215.00

EUR — European Region

E, F, R, S Order No. 9639 $113.00
**MID — Middle East Region**

**Doc 9672 — Report of the Limited Middle East (COM/MET/RAC) Regional Air Navigation Meeting.**
E, A, F  
Order No. 9672  
$287.00

**PANEL-TYPE MEETINGS**

The reports of the earlier meetings are out of print.

**VAP — Visual Aids Panel**

**Doc 9603 — Report of the Twelfth Meeting.**
E, F, R, S  
Order No. 9603  
$182.00

**Doc 9710 — Report of the Thirteenth Meeting.**
E, F, R, S  
Order No. 9710  
$206.00

**Doc 9821 — Report of the Fourteenth Meeting.**
E, F, R, S  
ISBN 92-9194-124-7  
Order No. 9821  
$123.00
USER CHARGES

This document lists airport and air navigation service charges levied in 184 States. The document also contains various background information including: a comparison by State of landing, take-off and passenger-related charges for three different types of aircraft; exchange rates; and a list showing maximum permissible aircraft weight by aircraft type.
Quadrilingual: E/F/S/R
ISSN 1728-0176
Order No. 7100 $400.00

Note 1.— Some parts of the document are given in English, French, Spanish and Russian. Other parts of the document are in English only.

Note 2.— Also available online via the Web by subscription. See Electronic Publications section, under ICAO Online Subscriptions.

ECONOMIC PUBLICATIONS

Specialized information on air transport activities; economic studies concerning airports and air navigation services, air carrier economics, economic contribution of civil aviation regulation of international air transport; forecasting and economic planning; and summaries of treaties or agreements registered with ICAO, etc.

Economics of Airports and Air Navigation Services

This document sets forth the recommendations and conclusions of the ICAO Council on airport and air navigation services charges for international civil aviation.
E, A, C, F, R, S
Order No. 9082 $30.00

This report provides policy and practical guidance with regard to GNSS on organizational and financial aspects.
May 1996. 32 pp.
E, A, F, R, S
Order No. 9660 $29.00
Supplement (May 1996)
Order No. 9660/E/01 $11.00*

* Free if purchased with corresponding document
This circular presents information on developments in ownership and management in the provision of airports and air navigation services, provides definitions and analyses of the options available, together with the possible implications of these options. It also discusses major issues to be examined by States when considering a change in ownership and management and brings to the notice of States important provisions of the Convention on International Civil Aviation (Doc 7300) and other ICAO policy and guidance documents regarding regulatory measures.
E, A, F, R, S
Order No. CIR284 $31.00

This circular presents information on the economic, organizational and regulatory status of airports and air navigation service providers in the year 2000. It is based on a survey of Member States conducted prior to the Conference on the Economics of Airports and Air Navigation Services (ANSConf 2000), Montreal, 19–28 June 2000.
E, A, F, R, S
Order No. CIR286 $93.00

Air Carrier Economics

Regional Differences in International Airline Operating Economics.
This circular analyses how differences in operations and input prices may affect the level of international air transport operating costs and the impact that changes in costs may have on air transport tariffs. Chapter 2 presents passenger, freight and mail revenue yield data of scheduled services for 17 international route groups, comprising all international routes along with passenger revenue yield data for non-scheduled operations. For the same route groups, regional differences in the costs related to the scheduled service passenger yields are presented in Chapter 3. Major causes of regional differences in costs are identified in Chapter 4.

Cir 280 — Regional Differences in International Airline Operating Economics, 1997.
E, F, R, S
Order No. CIR280 $40.00

Order No. CIR293 $36.00


Cir 310 — Regional Differences in International Airline Operating Economics: 2002 and 2003.

Cir 316 — Regional Differences in International Airline Operating Economics: 2004 and 2005.

Cir 327 — Regional Differences in International Airline Operating Economics: 2006 and 2007.
In Chapters 2 and 3, the 2007 results are compared with those for 2005.

Note.— Circulars 306, 310, 316 and 327 are available on CD-ROM only in PDF format. See Electronic Publications section.
General

**Doc 8632 — ICAO’s Policies on Taxation in the Field of International Air Transport.**
This document contains a consolidated Resolution on Taxation of International Air Transport and associated commentary adopted by the ICAO Council in 1999 for guidance to States and international operators, which covers ICAO policies with regard to the taxation of fuel, lubricants and other consumable technical supplies; the taxation of income of international air transport enterprises and aircraft and other movable property; and taxes related to the sale and use of international air transport (such as taxes on air waybills, tickets and passengers).

- Order No. 8632 $14.00
- Supplement (24/11/09) Order No. 8632/E/04 $120.00*

**Doc 9587 — Policy and Guidance Material on the Economic Regulation of International Air Transport.**
This is a compendium of conclusions, decisions adopted by the ICAO Assembly and the Council, and guidance material developed by ICAO for its Member States concerning the economic regulation of international air transport.

- ISBN 978-92-9231-200-8 Order No. 9587 $248.00

**Doc 9956 — Global and Regional 20-year Forecasts — Pilots, Maintenance Personnel, Air Traffic Controllers.**
This forecast represents an independent study of civil aviation personnel dynamics for the next 20 years and contributes to the unbiased aviation data and traffic forecasts for which the International Civil Aviation Organization (ICAO) is recognized. Its exclusive findings are based on first-hand information collected from different air transport industry stakeholders. Executives of airlines, maintenance, repair and overhaul organizations; aircraft manufacturers; air navigation service providers; and civil aviation authority officials with a professional interest in air transport human resource planning will appreciate this first edition of one of the foremost works in the field. Training institutions, future aviation professionals, as well as aviation consulting businesses, will also consider it a valuable resource.


**Cir 257 — Economics of Satellite-based Air Navigation Services.**
Guidelines for cost/benefit analysis of communications, navigation and surveillance/air traffic management (CNS/ATM) systems.

- ISBN 92-9194-322-3 Order No. CIR257 $59.00

*Note.— Also available on CD-ROM. See Electronic Publications section.*

**Cir 269 — Implications of Airline Codesharing.**
This circular contains a ICAO Secretariat study on the subject, which provides comprehensive information on this evolving and increasingly popular airline practice and a detailed analysis of its economic and regulatory implications.

- Order No. CIR269 $67.00

* Free with purchase of corresponding document.
Air Transport

Cir 283 — Regulatory Implications of the Allocation of Flight Departure and Arrival Slots at International Airports.
This circular contains an ICAO Secretariat study which provides a detailed analysis of the growing problem of capacity constraints at airports; the regulatory framework involved and the means by which governments, airports and airlines have sought to alleviate or minimize this situation. The study also assesses current and potential mechanisms for dealing with a chronic shortage of airport capacity and suggests possible improvements and alternatives to the existing systems.
E, A, F, R, S
Order No. CIR283 $23.00

2006. 40 pp.
Order No. CIR308 $30.00

Note.— ICAO no longer publishes the circulars The World of Civil Aviation and Airline Traffic Forecasts and Financial Trends. For further details, please refer to the Electronic Publications section.

Cir 313 — Outlook for Air Transport to the Year 2025.
This circular contains an analysis of air transport trends and challenges and provides long-term airline passenger, freight and aircraft movements forecasts, as well as related parameters, supporting planning activities of airlines, airports, air navigation systems and others. The forecasts are provided at the global, regional and major route-group levels for the period 2005–2025.
2007. 60 pp.
Order No. CIR313 $42.00

The World of Civil Aviation.
This annual circular reviews the main events in or affecting international civil aviation in Part I; analyses trends in the world economy and the air transport industry and presents global forecasts of airline scheduled passenger traffic in Part II; and reviews developments in civil aviation and gives prospects in Part III.

ISSN 1727-0154
Order No. CIR291 $119.00

ISSN 1727-0154
Order No. CIR299 $119.00

ISSN 1727-0154
Order No. CIR307 $86.00
ENVIRONMENTAL PUBLICATIONS

Volume I — Procedures for the Noise Certification of Aircraft.  
This manual provides guidance to States regarding the technical procedures to be used for noise certification and promotes uniformity of implementation of the technical procedures of Annex 16 — Environmental Protection, Volume I — Aircraft Noise, in order that the same degree of stringency is applied by all certificating authorities and that the same criteria for acceptance in approving applications for the use of equivalent procedures are used.  

Volume II — Procedures for the Emissions Certification of Aircraft Engines.  
This manual provides guidance to States regarding the technical procedures to be used for emissions certification and promotes uniformity of implementation of the technical procedures of Annex 16 — Environmental Protection, Volume II — Aircraft Engine Emissions, in order that the same degree of stringency is applied by all certificating authorities and that the same criteria for acceptance in approving applications for the use of equivalent procedures are used.  

The aim of this guidance material is to provide States with advice and practical information on implementing a Balanced Approach to noise management. The Balanced Approach, which was adopted by the ICAO Assembly in 2001, encompasses four principal elements: reduction of noise at source, land-use planning and management, noise abatement operational procedures and operating restrictions on aircraft. This guidance material describes some of the measures available under each element, their interrelationship, and the tools that might be used to assess and compare their costs and benefits.  
Amendment 1 (10/10/10) Order No. 9829/E/01 $30.00*

Doc 9884 — Guidance on Aircraft Emissions Charges Related to Local Air Quality.  
This publication deals with emissions levies related to local air quality. It was developed by CAEP consistent with ICAO policy.  

This guidance material supports the incorporation of international aviation emissions into States’ emissions trading schemes, consistent with the United Nations Framework Convention on Climate Change process. It focuses on aviation-specific issues, identifies options and offers potential solutions.  

* Free with purchase of corresponding document.
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Doc 9948 — *Scoping Study on the Application of Emissions Trading and Offsets for Local Air Quality in Aviation.*

This document outlines a study exploring the scope for the application of emissions trading and offsetting to the mitigation of airport local air quality (LAQ). The focus of this study is on the total effect of the range of sources of LAQ emissions within a particular area, rather than on emissions from any particular source.


E, A, C, F, R, S  
ISBN 978-92-9231-743-0  
Order No. 9948  
$28.00


This document presents a study reviewing the issues related to the linking of GHG emissions trading systems. This study is limited to considering and assessing emissions trading systems for GHGs. For aviation, only the CO₂ emissions are considered.


E, A, C, F, R, S  
ISBN 978-92-9231-800-0  
Order No. 9949  
$36.00


Further to the preliminary version of the Report on Voluntary Emissions Trading for Aviation, available online (http://www.icao.int/icao/en/env2010/Publications.htm), this document supports the development of a voluntary trading system that interested Contracting States and international organizations might propose.


English only  
Order No. 9950  
$30.00

Doc 9951 — *Offsetting Emissions from the Aviation Sector.*

The purpose of this document is to examine the potential for emissions offset measures as a further means of mitigating the effects of aviation emissions on global climate change.


E, A, C, F, R, S  
Order No. 9951  
$29.00


Further to the 2006 first Oxides of Nitrogen (NOx) Review (Doc 9887), the report by the panel of external Independent Experts (IEs) selected by CAEP records the key findings of the second Review conducted in March 2009 in London, UK. It also contains the medium- and long-term goals for reduction of NOx recommended by the IE panel.

2010. 60 pp.

English only  
Order No. 9953  
$42.00


The report by the panel of external Independent Experts (IEs) selected by CAEP records the key findings of the Review conducted in May 2010 in Atlanta, GA, USA. It also contains the medium and long term goals for reduction of fuel burn recommended by the IE panel.

2010. 70 pp.

English only  
Order No. 9963  
$50.00
E, A, C, F, S
(R in preparation) ISBN 978-92-9231-834-5 Order No. 9968 $46.00

This report consolidates comprehensive and reliable information on aviation and climate change. It covers a full range of environmental issues, developments and trends. For ease of reading and consulting, each section begins with an overview to bring readers up to speed on the subject discussed, followed by articles from experts. Most of the material covered in this report reflects the work of ICAO and its groups of experts on aviation and the environment.
2010. 244 pp.
English only Order No. ENVREP $95.00

Note.— Electronic copy is available for free on the ICAO Public website.

Cir 303 — Operational Opportunities to Minimize Fuel Use and Reduce Emissions.
This circular identifies and reviews various operational opportunities and techniques for minimizing fuel consumption and therefore emissions in civil aviation flight and ground operations. It should be noted that the circular is not intended to be the basis for regulatory action but examines some of the primary considerations associated with operational opportunities and the benefits and technical limitations that may be associated with them.

The purpose of this document is to provide information to aircraft and aerodrome operators with regard to the selection and development of noise abatement departure procedures designed according to the guidance in PANS-OPS, Volume I. Quantitative information regarding the effects of noise abatement departure procedures on noise and gaseous emissions are provided for a limited number of today’s commercial transport jet aircraft. The scope of this document is limited to noise abatement departure procedures that can be operated with aircraft currently in service.

FACILITATION PUBLICATIONS

These publications contain certain material of a policy nature or provide guidance to Member States as far as Facilitation of international air transport is concerned.

Doc 9636 — International Signs to Provide Guidance to Persons at Airports and Marine Terminals.
This is a joint multilingual ICAO/IMO publication containing signs and symbols for use at international airports and marine terminals.
Multilingual: E/F/R/S/A/C Order No. 9636 $82.00
Doc 9944 — Guidelines on Passenger Name Record (PNR) Data.
This document contains updated guidelines that establish uniform measures for Passenger Name Record (PNR) data transfer and the subsequent handling of that data by the States concerned.

The Facilitation Manual contains explanations of the provisions of Annex 9, from a historical and current perspective. It has been designed with the aim of increasing the level of knowledge of air transport facilitation issues, improving the results of Facilitation Programmes in States and increasing compliance with Annex 9. It is also meant to serve both as an instructional and a reference tool for States and other interested users on the various immigration, customs, health and quarantine civil aviation-related aspects covered by Annex 9.

Cir 274 — Access to Air Transport by Persons with Disabilities.
This circular contains guidance material that elaborates on Annex 9 Standards and Recommended Practices relating to persons with disabilities. The material is also intended to assist the civil aviation community in the day-to-day application of these SARPs.
E, A, F, R, S Order No. CIR274 $11.00

Air Transport Manuals
Guidance and information on economics of airports and air navigation services; air traffic forecasting; regulation of international air transport; and reporting and using ICAO civil aviation statistics.

Doc 8973 provides States with detailed guidance on how to comply with the Standards and Recommended Practices (SARPs) of Annex 17 – Security, and assists with the development of a robust security framework able to prevent and respond when necessary to acts of unlawful interference. To help States implement Annex 17-compliant procedures, the manual covers a wide range of topics including, but not limited to, legislation, oversight, selection and training of personnel, and airport design and operations.
English

Corrigendum No. 2 (10/12/12) Order No. 8973/E/04 FREE

IMPORTANT NOTICE: Distribution of Doc 8973 is restricted and limited to national civil aviation authorities and other entities responsible for implementing aviation security measures, such as airports and aircraft operators. Purchase requests must be submitted on letterhead clearly identifying the purchaser by name, official title, contact information and the reason for purchase. Mail requests to SFP@icao.int with “Purchase request for Doc 8973” indicated in subject line.
Doc 8991 — *Manual on Air Traffic Forecasting.*
This manual is addressed to civil aviation administration personnel, airline planners, planners of airports and air navigation systems and others actively engaged in practical forecasting work. It provides a survey of techniques currently used for air traffic forecasting and practical guidance on the application of these techniques. The advantages and disadvantages of the techniques as well as the criteria for selection of a particular technique for the forecast concerned are discussed.
English
(F, R, S in preparation) ISBN 92-9194-717-2 Order No. 8991 $71.00

This manual contains practical guidance material on: ICAO policy on air navigation services charges; organizational structures of air navigation services; financial management of air navigation services; determining the cost basis for air navigation services charges; the collection of air navigation services charges; and financing air navigation services infrastructure.

Doc 9562 — *Airport Economics Manual.*
This manual contains practical guidance material on ICAO policy on airport charges; organizational structures of airports; airport financial management; determining the cost basis for charging purposes; charges on air traffic and their collection; development and management of non-aeronautical activities; and financing airport infrastructure.

Note.— Available free online.

Doc 9626 — *Manual on the Regulation of International Air Transport.*
This is a comprehensive and objective source of information about the many facets of international air transport regulation, which complements and supplements Doc 9587. It contains descriptive and analytical material on existing regulatory processes and structure at the national, bilateral and multilateral levels, as well as regulatory content and key issues. It can be used as a dictionary of international air transport terms, an encyclopedia and a textbook for academic or other educational and training purposes.

E, A, C, F
REPORTS OF MEETINGS

Reports of Conferences on Air Transport and Aviation Security, and Divisional-type Meetings. The reports of the earlier sessions and conferences are out of print.

CONFERENCES

E, A, F, R, S
Order No. 9579 $57.00

Supplement (November 1991)
Order No. 9579/E/01 $11.00*

E, A, F, R, S
Order No. 9644 $74.00

Doc 9800 — High-Level, Ministerial Conference on Aviation Security.
E, A, C, F, R, S
Order No. 9800 $38.00

Challenges and Opportunities of Liberalization.
Order No. 9819 $71.00

Note. — Electronic copy is available for free on the ICAO public website.

Order No. 9908 $57.00

Order No. 9933 $41.00

DIVISIONAL-TYPE MEETINGS

FAL — Facilitation Division

E, A, F, R, S
Order No. 9649 $93.00

Supplement (April 1995)
Order No. 9649/E/02 $11.00*

* Free with purchase of corresponding document.
Cairo, 22 March–1 April 2004. 104 pp.
E, A, F, R, S ISBN 92-9194-373-8 Order No. 9838 $80.00

STA — Statistics Division

Doc 9703 — *Ninth Session.*

Doc 9932 — *Tenth Session.*

Corrigendum No. 1 (1/2/12) Order No. 9932/E/01 FREE

CIVIL AVIATION STATISTICS

For further details on technical matters, contact:

Economic Analysis and Policy Section
International Civil Aviation Organization
999 University Street
Montréal, Quebec, Canada H3C 5H7
Telephone: +1 514-954-8219 ext. 8147
Fax: +1 514-954-6744
Email: sta@icao.int

Statistical information received from Member States on Air Transport Reporting Forms is in accordance with Articles 54 (i) and 67 of the Convention.

*Note.—* ICAO no longer publishes Digests of Statistics in hard copy. The civil aviation statistics collected by ICAO are available online, free of charge, to staff of the national civil aviation administrations of Member States. See Electronic Publications section.

AVIATION SECURITY TRAINING PACKAGES (ASTPs) AND COURSES

*Note.—* ASTPs and courses can be ordered only from ICAO. See ordering address below.

Sales and Customer Relationship Unit
International Civil Aviation Organization
999 University Street
Montréal, Quebec, Canada H3C 5H7
Telephone: +1 514-954-8022
Fax: +1 514-954-6769
Email: sales@icao.int
For further information on ASTPs, please visit the Implementation Support and Development (ISD-DEC) Section — Security training page on the ICAO AVSEC website at www.icao.int/atb/AVSEC or contact:

Chief, Implementation Support and Development — Security (ISD-SEC) Section
Telephone: +1 514-954-6194
Fax: +1 514-954-6408
Email: isd@icao.int

**STP/Basic (2010 version)**
This 12-day course is designed to train base- or entry-level airport security personnel to enforce, monitor and apply airport security measures in accordance with approved programmes, and to communicate and cooperate with other airport agencies.

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<td>E, A, C, F, R, S</td>
<td>STP123</td>
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**ASTP/Cargo (2010 version)**
This 5-day course is intended for personnel involved in the handling of cargo and mail. It provides information on the purpose and intent of existing security measures, the implementation of appropriate security controls to cargo consignments, and the appropriate emergency response procedures in the event of a cargo security incident.

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<td>E, A, C, F, R, S</td>
<td>ASTP123P5</td>
<td>$2,600.00</td>
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**ASTP/Crisis Management (2010 version)**
This 5-day course is designed to provide senior management personnel with the knowledge and skills needed to develop and implement sound crisis management procedures.

<table>
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<th>Language Code</th>
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<th>Price</th>
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<td>E, A, C, F, R, S</td>
<td>ASTP123P4</td>
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**ASTP/Exercise (2010 version)**
This 3-day course is for aviation security mid-management and senior management personnel who have been assigned to organize, plan, conduct and assess aviation security crisis management exercises to ensure that the overall crisis management system is properly prepared.

<table>
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<th>Language Code</th>
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<tr>
<td>English only</td>
<td>ASTP123P8</td>
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**ASTP/Instructors (2010 version)**
This 7-day course enables graduates to conduct AVSEC courses and be fully versed in the general application of training principles, the preparation of appropriate teaching aids, and the tailoring of course material to harmonize course objectives with local and national requirements. It is intended for aviation personnel who require AVSEC instruction guidance and materials.

<table>
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<td>E, C, F, R, S</td>
<td>ASTP123P3</td>
<td>$1,700.00</td>
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**ASTP/National Inspectors (2009 version)**
This 7-day course provides supervisory and management personnel with the theoretical and practical knowledge and skills necessary for establishing, maintaining and conducting national audits and inspection programmes.

<table>
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<th>Language Code</th>
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<th>Price</th>
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<td>ASTP123P11</td>
<td>$2,600.00</td>
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### ASTP/Management (2007 version)
This 10-day course is designed to train aviation security personnel at managerial level to plan, coordinate and implement the application of airport security preventive measures in accordance with approved programmes.

<table>
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<tr>
<td>English</td>
<td>ASTP123P2</td>
<td>$1 900.00</td>
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### UNIVERSAL SECURITY AUDIT PROGRAMME

**Doc 9734 — Oversight Manual.**

*Part C — The Establishment and Management of a State’s Aviation Security Oversight System.*

This manual provides guidance on the establishment and management of a State’s aviation security oversight system. The manual outlines the duties and responsibilities of States and explains the critical elements of a national civil aviation security system.


<table>
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<td>92-9194-962-0</td>
<td>9734C</td>
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MINUTES AND DOCUMENTS OF THE LEGAL COMMITTEE

The minutes and documents of the first 31 sessions of the Legal Committee are out of print.

**Doc 9832 — Report of the 32nd Session.**

**Doc 9907 — Report of the 33rd Session.**

**Doc 9926 — Report of the 34th Session.**

Corrigendum (20/11/09) Order No. 9926/E/01 FREE

MINUTES AND DOCUMENTS OF CONFERENCES ON AIR LAW

**Doc 9773 — International Conference on Air Law.**
(The Authentic Chinese Text of the Convention on International Civil Aviation)
Montreal, 28 September–1 October 1998.
Minutes and Documents.
E, A, C, F, R, S Order No. 9773 $148.00

*Note.*— Also available on CD-ROM. See Electronic Publications section.

**Doc 9775 — International Conference on Air Law.**
(Convention for the Unification of Certain Rules for International Carriage by Air)

Volume I — Minutes.
This document contains the minutes of the Conference on the subject of the modernization of the “Warsaw System” of air carrier liability. This volume sets forth the minutes of the Plenary Meetings of the Conference, the minutes of the Commission of the Whole and the minutes of the “Friends of the Chairman” Group.
English (A, F, R, S in preparation) Order No. 9775-1 $196.00
Volume II — Documents.
This document contains all working papers submitted to the Conference, including the reports of the Drafting Committee, the Final Act, and the text of the Convention for the Unification of Certain Rules for International Carriage by Air.

E, F, S
(A, R in preparation)  
Order No. 9775-2 $389.00

Volume III — Preparatory Material.
This volume contains documentation pertaining to the preparatory stage of the Conference, including the reports of the meetings of the Secretariat Study Group and the report of the meeting of the Special Group on the Modernization and Consolidation of the “Warsaw System”.

E, F, S
(A, R in preparation)  
Order No. 9775-3 $294.00

Note.— Also available on CD-ROM. See Electronic Publications section.

Doc 9783 — International Conference on Air Law.
(The Authentic Arabic Text of the Convention on International Civil Aviation)
Minutes and Documents.
E, A, F, R, S  
Order No. 9783 $144.00

Note.— Also available on CD-ROM. See Electronic Publications section.

Doc 9801 — International Conference on Air Law.
(Convention on the Marking of Plastic Explosives for the Purpose of Detection)

Volume I — Minutes.
This volume contains the Minutes of the Plenary Meetings of the Conference and of the Commission of the Whole.

E, F  
Order No. 9801-1 $128.00

Volume II — Documents.
Part I — Preparatory material: Report of the Sub-Committee on the Preparation of a New Legal Instrument regarding the Marking of Explosives for Detectability and the Report of the 27th Session of the Legal Committee
Part II — Documentation of the Conference
Part III — The text of the Convention on the Marking of Plastic Explosives for the Purpose of Detection
Part IV — Final Act of the Conference

E, F  
Order No. 9801-2 $211.00

Note.— Also available on CD-ROM. See Electronic Publications section.
Doc 9823 — **International Conference on Air Law.**
(Protocol for the Suppression of Unlawful Acts of Violence at Airports Serving International Civil Aviation, Supplementary to the Convention for the Suppression of Unlawful Acts Against the Safety of Civil Aviation)
*Minutes and Documents.*
English only ISBN 92-9194-169-7  Order No. 9823 $236.00

*Note.— Also available on CD-ROM. See Electronic Publications section.*

**AERONAUTICAL AGREEMENTS AND ARRANGEMENTS**

Doc 6685 — **Rules for Registration with ICAO of Aeronautical Agreements and Arrangements.**
This document contains the current version of the Rules adopted in 1949 and amended by the Council over the years, including amendments made in 2003.

Doc 9813 — **Aeronautical Agreements and Arrangements — Tables of Agreements and Arrangements Registered with the Organization, 1 January 1946 – 31 October 2002.**
This document contains in table form a list of the multilateral and bilateral aeronautical agreements and arrangements registered with ICAO. Each table includes, when available, references to the subject matter of the agreement, the date of signature, the date of entry into force and the ICAO and UN registration numbers. The accuracy and completeness of this record depends on the information provided by States.
Volume I — Agreements and Arrangements which are still in force.
Volume II — Agreements and Arrangements which are no longer in force.
English only  Order No. 9813 $534.00

**GUIDANCE MATERIAL**

Cir 288 — **Guidance Material on the Legal Aspects of Unruly/Disruptive Passengers.**
This circular is intended to facilitate the implementation of Resolution A33-4 of the 33rd Session of the ICAO Assembly: *Adoption of national legislation on certain offences committed on board civil aircraft (unruly/disruptive passengers).* The material covers three major aspects of the unruly passenger problem: the list of specific offences for inclusion in national law, extension of jurisdiction over such offences, and appropriate legal mechanisms available for addressing them. Resolution A33-4 and the model legislation are included in the circular.

This circular is aimed at assisting Member States in developing appropriate policies with respect to the implementation of Article 83 bis of the *Convention on International Civil Aviation* (Chicago, 1944), which entered into force on 20 June 1997. It is intended to provide better regulation and oversight over air safety regarding international lease, charter or interchange of aircraft. This material comprises, inter alia, background information on the subject, as well as Guidelines and a Model Agreement for the implementation of Article 83 bis.


Order No. CIR295 $40.00
Miscellaneous Publications

Information of a more general nature, for both Member States and the general public, on the activities of the Organization.

GENERAL

This is a repertory of practice of the Organization concerning the application and interpretation of the Chicago Convention. It provides an article-by-article guide to Assembly resolutions and decisions of the Council and its subordinate bodies, evidencing how certain articles of the Convention have been interpreted and applied in the period from the inception of ICAO until mid-1976.
E, F, S
Order No. 8900 $357.00

PUBLIC INFORMATION

ICAO Journal.
The ICAO Journal is published six times annually in separate English, French and Spanish editions. It contains a concise account of activities of the Organization, with the addition of information of general interest to Member States and to the aeronautical world. Published since November 1946.
Single copy ISSN 1014-8876
Annual subscription ISSN 1014-8876
Order No. 310019 $10.00
Order No. 3101-A $40.00
Also available online in English, French, Spanish and Russian at www.icao.int.

THE INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO)

ICAO Flag.
The flag was created specially to mark ICAO’s 50th Anniversary and was flown officially for the first time on 7 December 1994 at ICAO Headquarters, Montréal. The ICAO flag bears the blue and white colours of the United Nations, as well as its depiction of the land masses of the earth, enveloped by two olive branches symbolizing peace. To these symbols of the United Nations, ICAO added the wings which have come to symbolize how international civil aviation helps to bring the peoples of the world together in the pursuit of peace.

In order to ensure the proper use of the ICAO flag, Doc 9638, the ICAO Flag Code and Regulations, is included in the purchase price of the flag.
1.80 m × 1.20 m (72” × 48”)
Order No. FLAG $67.00
ELECTRONIC PUBLICATIONS

Note.— Some ICAO publications are now available as free downloadable files. Please check the Free Publications section on the ICAO website at www.icao.int.

ICAO Aviation Training Directory.
The online directory provides aviation training centres unrivalled and innovative promotion opportunities enabling them to reach aviation training stakeholders from ICAO’s 191 Member States. To register your centre, please visit our website: www.icao.int/TD.

- Take-Off (Basic)
  - Order No. ATD1
  - $499.00
  - English only

- High-Altitude (Enhanced)
  - Order No. ATD2
  - $749.00
  - English only

Directory of National Civil Aviation Administrations.
ICAO has developed an electronic database of information on national civil aviation administrations from around the world, based on information received from ICAO’s Member States. Access to this online directory is by subscription only. If you wish to subscribe, please complete the order form at the back of this Catalogue.

- Order No. 7604-E
  - $200.00/year
  - English only

For additional information, please contact the database administrator at dgca@icao.int.

Making an ICAO Standard.
The process of creating and modernizing Standards and Recommended Practices is explained in detail on the web page at http://www.icao.int/anb/mais.

- E, A, C, F, R, S
  - FREE

2011. In PDF format.

- Order No. 9961-CD
  - $42.00
  - English only
CIVIL AVIATION STATISTICS

Civil aviation statistics collected by ICAO can be accessed online by purchasing an annual subscription to one or more of the data series distributed by ICAO through its commercial website. For more information and/or to sign on for a free trial, interested users should go to http://www.icaodata.com, a website developed in cooperation with and managed by Reed Business Information Ltd. (RBI) trading as Air Transport Intelligence (ATI).

For further details on technical matters, contact:

Economic Analysis and Policy Section
International Civil Aviation Organization
999 University Street
Montréal, Quebec, Canada  H3C 5H7
Telephone: +1 514-954-8219 ext. 8147
Fax: +1 514-954-6744
Email: sta@icao.int

A brief description of the contents of each of the data series is provided below. Please note that each series shown below contains only data reported to ICAO by its Member States. However, the website (http://www.icaodata.com) also contains a global area where users can find air carrier data aggregated by country/region and the world. It also includes some of the ICAO publications dealing with international air carriers economics as well as regional and global air traffic forecasting.

Air Navigation Services

Air Navigation Services — Financial Data
Covers on an annual basis (calendar or fiscal year) income, expenses and investments for air traffic control centres.

En-route Traffic
Shows on a yearly basis the number of overflights handled by the reporting control centre(s).

Airports

Airport — Financial Data
Covers on an annual basis (calendar or fiscal year) income, expenses and investments for major international airports.

Airport — Traffic
Covers monthly or annual traffic data for major international airports. The data consist of aircraft movements, number of passengers embarked and disembarked, and tonnes of freight and mail loaded and unloaded.

Civil Aircraft on Register

Civil Aircraft on Register
Contains the number of civil aircraft on the register of a State at the end of the year. The data shown for commercial and other operators are classified by the type of wing (fixed or rotary), type of propulsion used (jet, turboprop or piston) and the number of engines. Aircraft with a maximum certificated take-off mass (MCTOM) of over 9 tonnes are identified by type and model.

More detailed information on individual civil aircraft on the national registers may be found on the website of the International Register of Civil Aircraft (IRCA), with whom ICAO cooperates, at http://www.aviation-register.com.
ICAO DATA PLUS

DTPL-1U: Air Carrier Traffic (ACT)
This module includes operational, traffic and capacity statistics of both international and domestic scheduled airlines as well as non-scheduled operators. The new tool allows you to quickly visualize monthly traffic and capacity trends for passenger, freight and mail services for an individual carrier, group of carriers or compare these between different air carriers.
ENGLISH ONLY

Order No. DTPL-1U $1 375.00

DTPL-2U: Traffic by Flight Stage (TFS)
TFS contains annual traffic on-board aircraft on individual flight stages of international scheduled services. The data, classified by international flight stage, shows for each air carrier and aircraft type used, the number of flights operated, the aircraft capacity offered and the traffic (passengers, freight and mail) carried.
ENGLISH ONLY

Order No. DTPL-2U $1 995.00

DTPL-3U: Air Carrier Finances (ACF)
This module shows international scheduled airlines financial data, including revenues and expenditures for the year (calendar or fiscal), assets and liabilities at the end of the year and retained earnings as well as summary traffic data. In addition, comparisons are provided of unit costs and revenue yields over time and between air carriers, break-even load factors, the distribution of the main accounts included in the operating revenues and costs, as well as a few financial ratios.
ENGLISH ONLY

Order No. DTPL-3U $1 250.00

DTPL-4U: Airport Traffic (AT)
Covers monthly or annual traffic data for major international airports. The data consists of aircraft movements, number of passengers embarked and disembarked and tonnes of freight and mail loaded and unloaded.
ENGLISH ONLY

Order No. DTPL-4U $1 250.00

DTPL-5U: On-Flight Origin and Destination (OFOD)
Shows on an aggregate basis the number of passengers, freight and mail tonnes carried between all international city-pairs on scheduled services. These data are collected on a quarterly basis, but due to confidentiality restrictions, they can only be shown six months after the end of each reporting period.
ENGLISH ONLY

Order No. DTPL-5U $1 995.00

DTPL-6U: Air Carrier Fleet and Personnel (ACFP)
Part one covers the fleet data of international and domestic scheduled airlines as well as non-scheduled operators. The data consist of statistics on the number and types of aircraft operated, their capacity and their utilization.

Part two deals with the personnel data of international and domestic scheduled airlines as well as non-scheduled operators. The data consist of statistics on the number of airline personnel by job category and the annual expenditures for these personnel.
ENGLISH ONLY

Order No. DTPL-6U $1 000.00

DTPL-3MU Bundle of 3 Data Plus modules.
ENGLISH ONLY

Order No. DTPL-3MU $3 750.00

DTPL-6MU Bundle of 6 Data Plus modules.
ENGLISH ONLY

Order No. DTPL-6MU $7 535.00
ICAO ONLINE SUBSCRIPTIONS

ICAO Online Subscriptions is a Web-based information service that offers ICAO customers online access to various sets of ICAO documentation for an annual fee (in U.S. dollars). Subscriptions give access to the full texts of International Conventions and Protocols, Annexes to the Convention on International Civil Aviation, documents pertaining to Air Traffic Management and the Annual Reports of the Council. Please note that documents listed under “ICAO Online Subscriptions” are up to date. This service is currently available in English only.

With a subscription to any of our first three services, you obtain free access to the Annual Reports of the Council.

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<th>Service</th>
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<th>Annual fee</th>
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<td>1. International Conventions and Protocols</td>
<td>7300-E</td>
<td>$338.00</td>
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<td>2. Annexes to the Convention on International Civil Aviation*</td>
<td>AN-E</td>
<td>$1 590.00</td>
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<td>3. Air Traffic Management</td>
<td>4444-E</td>
<td>$885.00</td>
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<td>4. Location Indicators</td>
<td>7910-E</td>
<td>$1 040.00</td>
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<tr>
<td>5. World Air Services Agreements (WASA)</td>
<td>WASA-E</td>
<td>$1 250.00</td>
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<td>ICAO World Air Services Agreements (WASA) database is being launched as a new enhanced online product accessible to States, the industry, and the general public. The database contains the text of the bilateral agreements and their amendments as well as an analysis identifying the existence or absence of up to 90 distinct provisions covering the scope and type of the agreement, administrative clauses, grant of traffic rights, exercise of rights, and capacity and tariff clauses. The database also includes a summary of the routes exchanged through the agreement. A built-in search engine allows users to select a list of agreements for particular States which contain or omit similar provisions and review the corresponding text in the agreements. Agreements and/or amendments to existing agreements will be continuously updated as these become available. ICAO’s WASA is a unique analytical tool for air services negotiations and consultations.</td>
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<td>6. Tariffs for Airports and Air Navigation Services</td>
<td>7100-E</td>
<td>$600.00</td>
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<td>7. Annual Reports of the Council (Up to 1999)</td>
<td>AR-E</td>
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<td>8. Combo (Items 1, 2 and 3)</td>
<td>EMC1</td>
<td>$2 310.00</td>
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* Subscribers also obtain access to a number of previous editions of the Annexes.
CD-ROMs

Doc 8643 — Aircraft Type Designators.
Designators for aircraft types commonly provided with air traffic services (ATS): Part 1 lists the common names of aircraft manufacturers and their aircraft types; Part 2 lists aircraft by their type designators showing manufacturers and models; Part 3 lists aircraft by model number and/or model name; and Part 4 lists the full names of aircraft manufacturers.

Quadrilingual: E/F/S/R
(PDF format)
ISBN 978-92-9249-014-0 Order No. 8643-CD $270.00

Note.— Also available via email (Order No. 8643-EF) for the same price (single user). Please contact the Sales and Customer Relationship Unit for a multi-user licence quotation.

This report contains long-term air traffic forecasts for the major route groups to, from and within the Africa-Indian Ocean area, in terms of both passengers and aircraft movements. It also contains movement forecasts at city-pair level for the top 25 city-pairs and an analysis of the year 2005 FIR traffic data for the airspace controlled by ASECNA including various peak period parameters.

English only
ISBN 92-9194-834-9 Order No. 9879-CD $40.00

This annual circular analyses trends in airline traffic and financial results, along with factors underlying air traffic demand, and presents medium-term global and regional forecasts of scheduled passenger traffic and basic global airline financial trends.

E, A, F, R, S
ISBN 92-9194-800-4 Order No. CIR312-CD $31.00

Air Traffic Management.
This CD-ROM contains the following complete documents:
• Convention on International Civil Aviation. (Doc 7300)
• Annex 2 — Rules of the Air.
• Annex 11 — Air Traffic Services.
• Annex 12 — Search and Rescue.
• PANS/ATM — Air Traffic Management. (Doc 4444)
• Global Air Navigation Plan. (Doc 9750)
• Global Air Traffic Management Operational Concept. (Doc 9854)
• International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual. (Doc 9731)
• Manual of Radiotelephony. (Doc 9432)
• Manual on the Prevention of Runway Incursions. (Doc 9870)
• Manual on the Air Traffic Management System Requirements. (Doc 9882)
• Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services. (Doc 9377)
• Manual on a 300 m (1 000 ft) Vertical Separation Minimum Between FL 290 and FL 410 Inclusive. (Doc 9574)
Electronic Publications

  New edition yearly.
  English only  ISBN 978-92-9249-020-1  Order No. 4444-CD  $1 225.00
  ISSN 1726-9253

- **Manual on Global Performance of the Air Navigation System.** (Doc 9983)

- **Continuous Descent Operations (CDO) Manual.** (Doc 9931)

This CD-ROM is in PDF format.

**Annexes to the Convention on International Civil Aviation — 2012 Edition.**
This CD-ROM contains a complete set of Annexes 1 to 18 and the *Convention on International Civil Aviation* (Doc 7300).
New edition yearly.
English only  ISBN 978-92-9249-177-2  Order No. AN  $2 120.00
ISSN 1726-8540

This CD-ROM is in PDF format.

**Doc 9915 — Asia/Pacific Area Traffic Forecasts, 2008–2025.**
This report contains long-term forecasts for the transpacific and Asia/Pacific markets with the horizon to the year 2025, including intermediate forecasts for the years 2008–2010, 2015 and 2020. Forecasts are provided for total passenger traffic and aircraft movements and, in the case of the transpacific area, also for peak hour movements on selected route groups for the year 2012. The peak-period analysis is based on a detailed review of traffic during a typical July week of 2007 and 2008. The report also includes passenger forecasts for selected top city-pair markets of intra-Asia/Pacific and transpacific for the year 2012.
English only  ISBN 978-92-9231-228-2  Order No. 9915-CD  $49.00

**Doc 9917 — Caribbean/South American Regional Traffic Forecasts 2007–2027.**
Report of the Seventh Meeting of the CAR/SAM Traffic Forecasting Group (CAR/SAM TFG).
English only  ISBN 978-92-9231-264-0  Order No. 9917-CD  $40.00

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The CNS/ATM Database and Financial Analysis Computer System (DFACS) model is an interactive, analytical tool that enables air navigation service providers (ANSPs) and airspace users to build, evaluate and compare the economics of alternative options or scenarios for the implementation of CNS/ATM systems. The CD-ROM includes a User’s Manual, along with an illustrative example.
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Preventing CFIT accidents is the major goal of this training aid. The CD-ROM consists primarily of a document in five sections developed by an international CFIT Task Force. Section one provides management with a concise but comprehensive view of the document. Section two identifies areas where those people who govern, regulate and run the industry can best put their efforts to prevent CFIT. Section three provides the history of CFIT, along with causal factors, traps and solutions. Section four provides academic and simulator training programmes aimed at flight crews and their responsibilities and duties in preventing CFIT. Appendices include briefings, the narrative of the video *CFIT Awareness and Prevention* and aeroplane-specific examples of the CFIT escape manoeuvre. Section five contains CFIT accident/incident information and the CFIT checklist.

2000.

English only

Order No. 725281 $131.00

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**Doc 8585 — Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services.**

The designators consist of: a) three-letter designators for use on the international aeronautical telecommunication service and for aircraft identification by air traffic control (ATC); and b) telephony designators for aircraft operating agencies and for authorities and services operating aircraft, which may be used as appropriate. Parts 1, 2 and 3 consist of encode and decode tables linking aircraft operating agencies, aeronautical authorities and services with their assigned ICAO three-letter and telephony designators. Addresses of government civil aviation authorities are listed in Part 4.

New edition quarterly.

Quadriilingual: E/F/S/R


Order No. 8585-CD $245.00

This CD-ROM is in PDF format.

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**Cir 292 — Economic Contribution of Civil Aviation.**

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**Volume I — Global Perspective** reviews the performance of air transport services at regional and global levels and estimates the direct contribution of civil aviation to and multiplier effects on the global economy.

**Volume II — Assessment Methodologies** contains guidance material on the underlying methodology of input-output analyses and possible applications or approaches to evaluate the demand effects of economic activities associated with civil aviation industries in terms of output/value added and employment. The first part describes how to assess the contribution of an airport to a local/regional and, if applicable, national economy with or without the expanded impact of tourism activities. The second part describes how to explore the contribution of civil aviation industries throughout a national economy with an expanded impact assessment. It also introduces the concept of a national Transportation Satellite Account.

Order No. CIR292-CD $120.00

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**Cir 257 — Economics of Satellite-based Air Navigation Services.**

Guidelines for cost/benefit analysis of communications, navigation and surveillance/air traffic management (CNS/ATM) systems. Formulated spreadsheets using Excel are available on this CD-ROM.

Order No. CIR257-CD $269.00
**ICAO Template Air Services Agreements, 2004 Edition.**
This CD-ROM contains the text of two Template Air Services Agreements (TASAs) in both their bilateral and plurilateral/regional versions, in all six working languages. Each version of the TASA presents a comprehensive framework of provisions on traditional, transitional and most liberal approaches, including Explanatory Notes on the use of a particular approach. This CD-ROM also provides a basic search function, as well as the traditional, transitional and full liberalization bilateral approaches, in MS Word format in English.

ISBN 92-9194-266-9        Order No. CD-104        $133.00

**Doc 9705 — Manual of Technical Provisions for the Aeronautical Telecommunication Network (ATN).**

English only
ISBN 92-9194-003-8        Order No. 9705-CD        $375.00

**Doc 7488 — Manual of the ICAO Standard Atmosphere (extended to 80 kilometres (262 500 feet)).**
This CD-ROM provides standard values of atmospheric parameters in tabular form for levels up to 80 km and the underlying equations used in the calculation of the atmospheric parameters. It is intended for use in calculations in the design of aircraft, in presenting test results of aircraft and their components and in facilitating standardization in the development and calibration of instruments.

Quadrilingual: E/F/S/R
ISBN 92-9194-004-8        Order No. 7488-CD        $240.00

**Cir 306 — Regional Differences in International Airline Operating Economics: 2000 and 2001.**
E, F, R, S
ISBN 92-9194-489-0        Order No. CIR306-CD        $36.00

This CD-ROM is in PDF format.

**Cir 310 — Regional Differences in International Airline Operating Economics: 2002 and 2003.**
E, F, R, S
ISBN 92-9194-814-4        Order No. CIR310-CD        $51.00

This CD-ROM is in PDF format.

**Cir 316 — Regional Differences in International Airline Operating Economics: 2004 and 2005.**
E, F, R, S

This CD-ROM is in PDF format.

**Cir 327 — Regional Differences in International Airline Operating Economics: 2006 and 2007.**
E, F, R, S

This CD-ROM is in PDF format.

This CD-ROM contains the following documentation:

*International Conference on Air Law* (Doc 9775-DC/2)
- Volume I — Minutes
- Volume II — Documents
- Volume III — Preparatory Material

Convention
*Convention for the Unification of Certain Rules for International Carriage by Air* (Doc 9740)
- Done at Montreal on 28 May 1999

Warsaw Convention and Other Related Air Law Instruments
- Warsaw Convention 1929 (English translation) (French text, Doc 7838)
- The Hague Protocol 1955, Doc 7632
- Guadalajara Convention 1961, Doc 8181
- Guatemala City Protocol 1971, Doc 8932/2 (not in force)
- Additional Protocol No. 1, Montreal 1975, Doc 9145
- Additional Protocol No. 2, Montreal 1975, Doc 9146
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