



The North Atlantic

NAT Resource Guide



NAT

for United States Operators

Flight Technologies and Procedures Division

The links within this resource guide are provided as a service to help you easily find pertinent information. The validity of the links is re-checked quarterly. Documents and other information may change between updates. Information provided by non-FAA sites should be considered strictly "for information only." You should confirm the accuracy of all such non-FAA information against official FAA documentation.

[Email Comments to: 9-AWA-AVS-AFS-400-Flight-Technologies-Procedures@faa.gov](mailto:9-AWA-AVS-AFS-400-Flight-Technologies-Procedures@faa.gov)

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Emphasis Items



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Current Focus

- [SAFO 24002](#), *Jamming and Spoofing*
- [NAT OPS Bul 2025_001](#), [NAT GNSS Interference Procedures](#)
- [Notice 8900.678](#) and [InFO 23008](#) *OpSpec/MSpec/LOA A056, Data Link Communications*
- [NAT OPS Bul 2023_001 Rev6 Removal of NAT Oceanic Clearances.](#)
- [NAT Doc 007, paragraphs 1.4](#) *Aircraft not meeting HLA Requirements, Iceland-Greenland and Bodo Surveillance Corridors.*
- [FAA Site to lookup Prohibitions, Restrictions and Notices](#)
- [NAT-OPS-Bulletin-2026_001-OESB.pdf](#) *Oceanic ErrorsDel*
- [FAA Order 7110.65, Chapter 8](#)
- [AIP ENR 7.3](#) *Special Procedures for In-Flight Contingencies in Oceanic Airspace*
- [NAT Doc 007, Paragraph 10.6](#)
TCAS 7.1: From January 1st, 2017, TCAS 7.1 is required throughout the entire NAT region.
- [See NAT Doc 007](#) *Gross Nav Error: defined as 10nm or more (used to be 25nm)*
- [NAT Doc 007](#) *Contingency Procedure: Procedures in the Event of Navigation System Degradation or Failure.*
- [North Atlantic Operations](#), (SKYbrary)

TCAS/ACAS in HLA

- [ICAO Doc 7030](#) *Regional Supplementary Procedures (link to purchase)*
- [Annex 6 Part I, Chapter 6](#) and [Part II, Paragraph 3.6](#). *(link to purchase) Global TCAS/ACAS requirements*

International Oceanic Airspace

- [International Notices](#)

Application Guides

- [Oceanic and High Remote Continental Application Guides](#)
- [Polar and Areas of Magnetic Unreliability](#)

Cold Weather Operations

- [Cold Temperature Operation, AIM Altimeter Setting Procedures](#)
- [Updates to the Cold Temperature Airports Program, InFO 22002](#)

PBCS Operations

Performance-Based Communication and Surveillance (PBCS) began on March 29, 2018. See the following documents:

- [NAT OPS Bulletin 2024-001](#) *PBCS Tracks*
- [ENR 7.5](#) *Operational Policy Performance-Based Navigation (PBN) and Performance-Based Communication and Surveillance (PBCS)*
- [PBCS Operational Authorization Guide \(ICAO\)](#)
- [AC 90-117](#), *Data Link Communications*
- [Oceanic and Remote Continental Application Guides](#) *(B036, B037, B038, B039, and B054)*
- [ICAO Doc 4444](#) *(link to purchase)*
- [Data Link Communication Application Guide](#)

NAT OPS

- [NAT OPS Bulletins](#)
- [NAT Systems Planning Group](#)
- [EUR/NAT Meetings](#)
- [EUR/NAT Documents](#)
- [EUR/NAT Events Schedule](#)

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Fuel

- [Annex 6 Part 1 and Part 2](#) (link to purchase) ICAO Fuel Standards,
- [SKYbrary: Fuel-In-Flight Management \(Normal Operations\)](#)
- [SKYbrary: Fuel - Regulations](#)
- [14 CFR Part 91, §91.167](#)
- [14 CFR Part 121, §§ 121.639, 121.641, 121.643, 121.645](#)
- [14 CFR Part 135, §135.223](#)
- [AC 91-70D](#), Oceanic and Remote Continental Airspace Operations

Dynamic Regulatory System (DRS)

The Dynamic Regulatory System (DRS) is a comprehensive Knowledge Center of Regulatory and Guidance material from the Office of Aviation Safety and other services and offices. DRS is cloud based and can be accessed by any device that has Internet capability. Some document types within DRS are restricted to only FAA employees and contractors.

- [Main FAA Page for DRS](#)
- [Help and Training for DRS](#)

Iceland-Greenland Surveillance Corridor

The Blue Spruce Routes are no longer available as of March, 2025. Aircraft with a single long range navigation system and ADS-B may cross the NAT using the Iceland-Greenland Surveillance Corridor. See the following links

- [OPS Group: NAT Changes 2025: No More Blue Spruce Routes](#)
- [NAT Doc 007](#), (See Paragraphs 1.4, Diagram on 1.7.5)

Streamlined Part 91 Process



The Streamlined Part 91 Operational Approval is an innovative process for obtaining or amending up to ten commonly requested Part 91 Letters of Authorization (LOAs) when purchasing a new aircraft directly from the aircraft manufacturer. Aircraft manufacturers, training providers, manual vendors, and FAA policy experts collaborate to streamline the operational approval process for the operator and inspector.

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OCEANIC ERRORS



Gross Navigation Errors (GNE)
Large Height Deviations (LHD)
Erosion of Longitudinal Spacing

Oceanic Errors

- [NAT Doc 007](#) *Monitoring of Aircraft Systems and Flight Crew Performance Chapter 13*)
- [NAT OPS Bulletin 2026_00-OESB](#),
Oceanic Errors (supersedes 2017_002Rev09)
- [NAT Systems Planning Group](#)
- [PARMO Documentation](#)
- [FAA Order 8900.1, Volume 7 Investigation Chapter 3 Investigating Oceanic Events](#)
- Incidents, [FAA Order 8020.11](#) and [FAA Order 2150.3](#)



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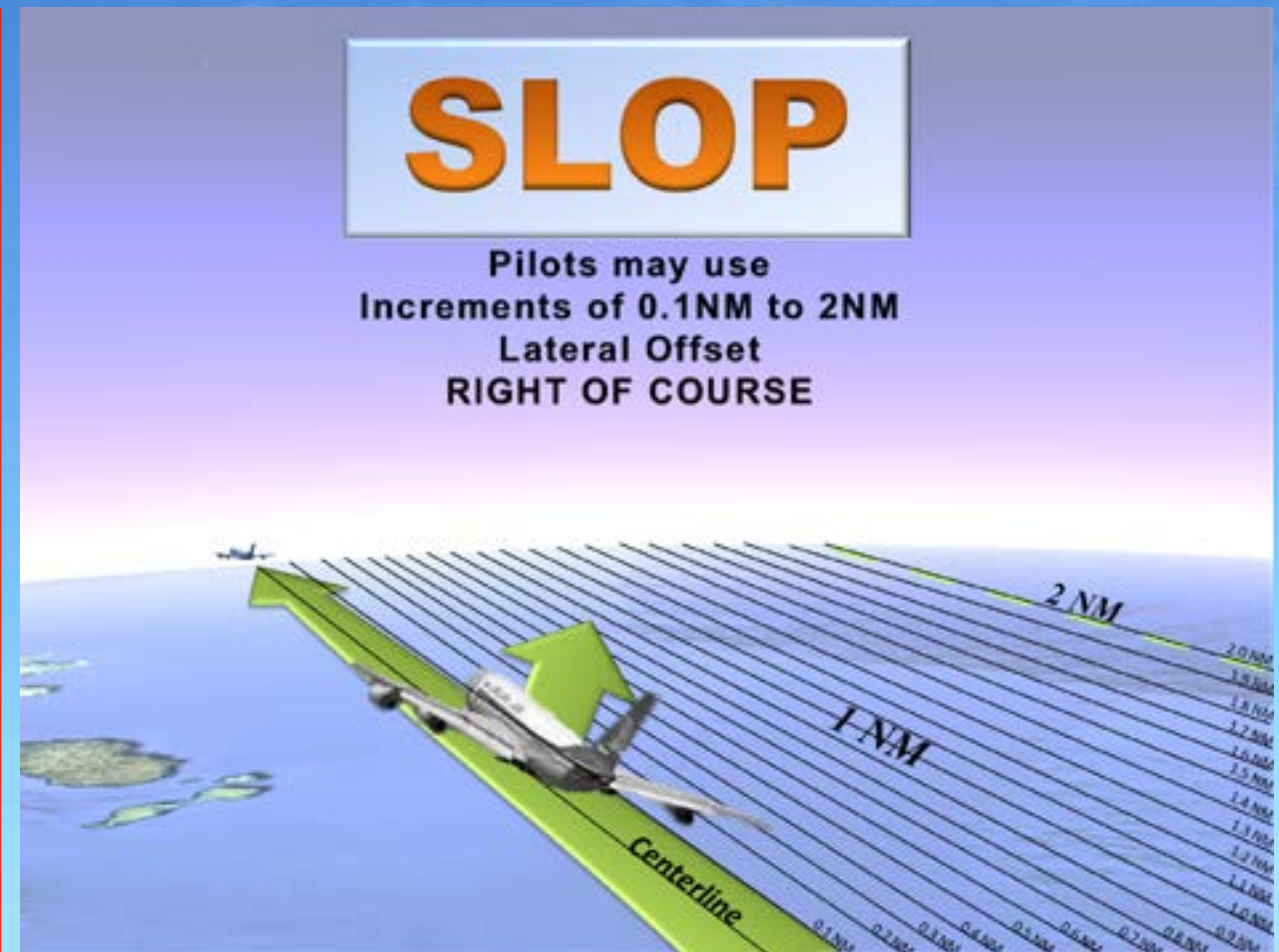


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Strategic Lateral Offset Procedures (SLOP)

- [ICAO Doc 4444, Air Traffic Management](#) (Link to Purchase) See chapter 15
- [NAT Doc 007, North Atlantic Operations and Airspace Manual](#) (Paragraphs, 6.2.50-6.2.51, 6.4.3-6.4.4)
- [AIP ENR 7.3 Special Procedures for In-Flight Contingencies in Oceanic Airspace](#)
- [Advisory Circular \(AC\) 91-70](#)
- [SLOP Video](#)



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Contingency Procedures

- [United States Aeronautical Information Publication \(AIP\), See ENR 7.3, Special Procedures for In-Flight Contingencies in Oceanic Airspace](#)
- [NAT DOC 007 North Atlantic Operations and Airspace Manual \(Free\)](#)
Chapter 5: Communication and Position Reporting Procedures
Chapter 9: Procedures in the Event of Navigation System Degradation or Failure
Chapter 10: Special Procedures for In-flight Contingencies
Chapter 13: Monitoring of Aircraft Systems and Flight Crew Performance
- [ICAO DOC 4444 PANS-ATM \(Link to Purchase\)](#)
Chapter 15: Procedures Related To Emergencies, Communication Failure And Contingencies
- [ICAO Annex 2 \(Link to Purchase\)](#)
Chapter 3: General Rules
- [SKYbrary: North Atlantic Operations-Contingency](#)
- [SKYbrary: Emergency Decent:Guidance for Flight Crews](#)
- [Airborne Weather Radar Limitations](#)
- [AC 91-70, Appendix F, Special Procedures For In-Flight Contingencies In Oceanic Airspace](#)

- [AOPA: Safety Advisor Emergency Procedures](#)
- [NOTAMs, See most current publication](#)
- [NOTAM Search](#)
- [ICAO Doc 4444 PANS ATM \(Link to Purchase\):](#)
 - 1) *Special Procedures for In-Flight Contingencies in Oceanic Airspace- Ch.15 Para 15.2 (this covers the new guidance for divers and weather deviations)*
 - 2) *SLOP-Ch. 16 Para 16.5*
 - 3) *Wake Turbulence-Ch. 4 Para 4.9*
- [Order JO 7110.65 Emergency Assistance Guidance from Air Traffic Control Special Procedures for In-Flight Contingencies in Oceanic Air-space](#)
- [ICAO Doc 7030 \(Link to Purchase\) Regional Supplementary Procedures, PAC 9.3 Air-Ground Communication Failure](#)
- [SAFO 16014 Accuracy of Time Estimates in Oceanic Control Areas \(CTA\) Position Reports](#)
- [SAFO 24002, Jamming and Spoofing](#)

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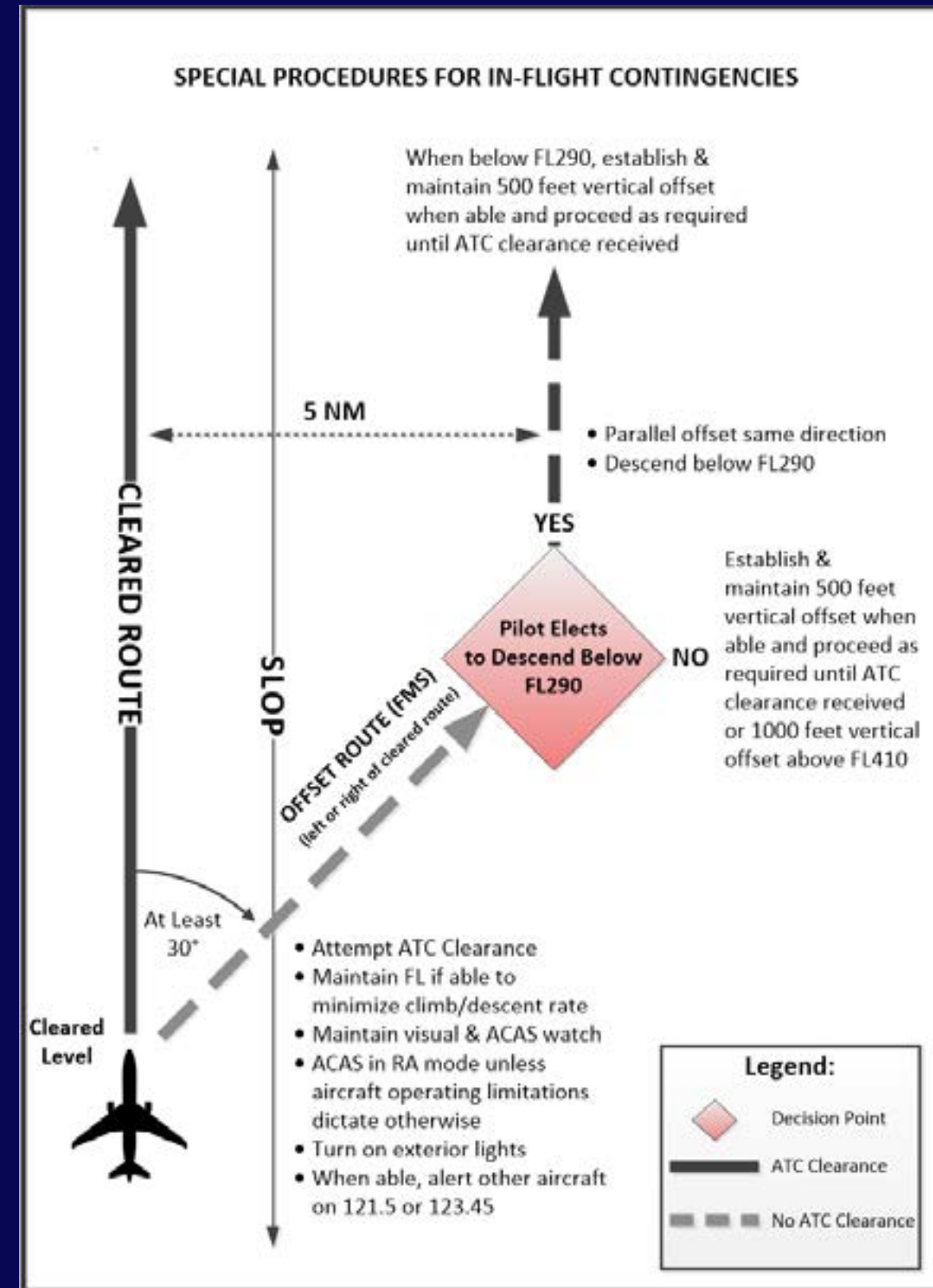


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For details, see:

AIP ENR 7.3 Special Procedures For In-Flight Contingencies in Oceanic Airspace (Fig ENR 7.3-1)



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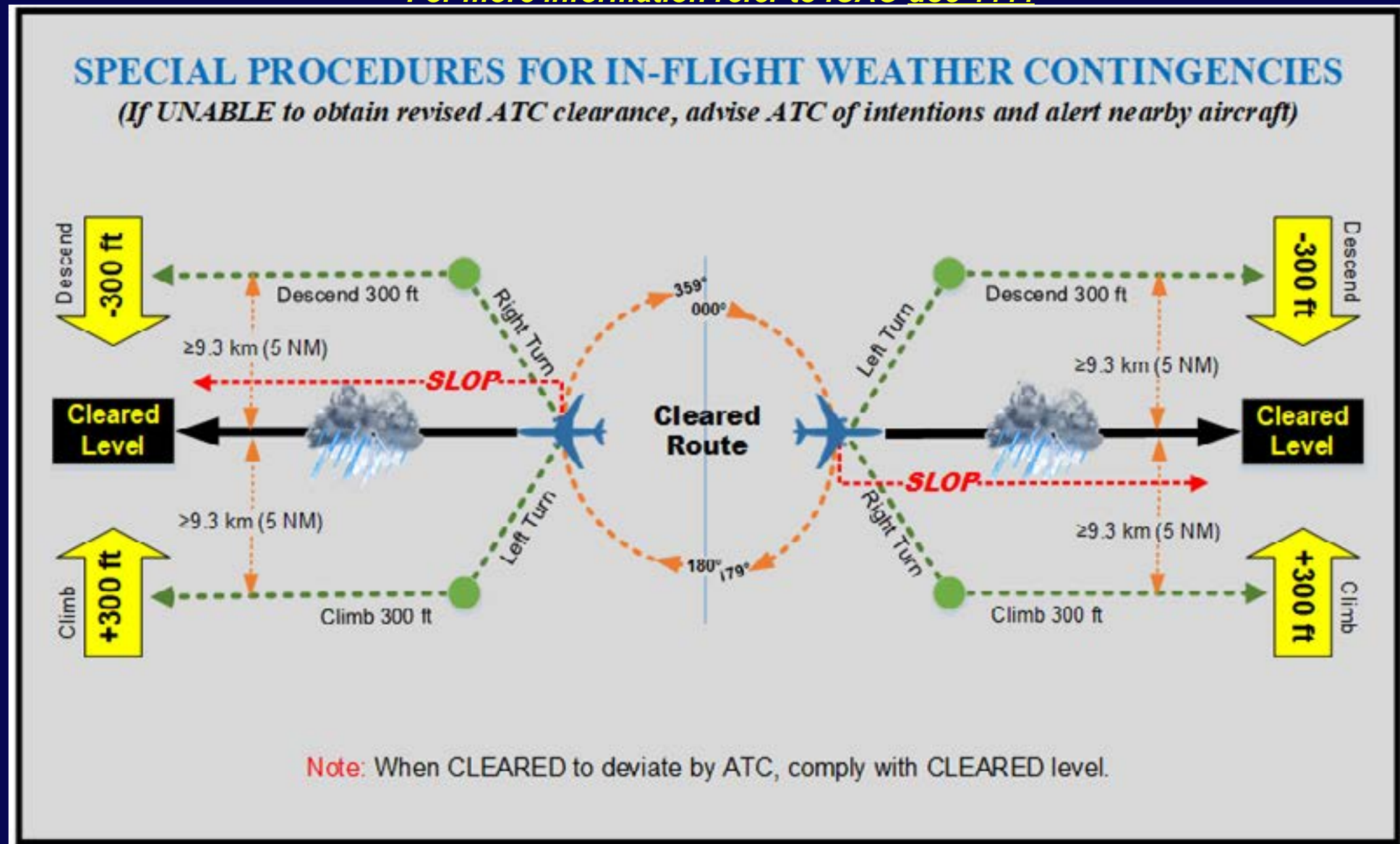
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For more information refer to ICAO doc 4444



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GNSS Interference



Documents

- [SAFO \(24002\)](#) (Sometime it is necessary to click the refresh button in DRS)
- [AIM](#) (Click Button to Expand References) 
- [AIP](#) (Click Button to Expand References) 
- [EASA - Information on Conflict Zones](#)
- [EASA Safety Information Bulletin \(SIB\)](#)
- [NAT Ops Bulletin 2025-001](#)
- [Best Practices for Airport GPS Disruption Resiliency](#)



GNSS Interference Resource Guide

Videos

- [Boeing - 737 GPS Interference](#)
- [GPS Jamming \(& spoofing\) explained](#) (Flightradar 24 Video)

Tools/Trackers

- [GPSJAM.org](#)
- [Live GPS Spoofing and Jamming Tracker Map](#) (SKAI Data Services/GPSwise)
- [Flightradar24: GPS jamming map](#)
- [FAA: Prohibitions, Restrictions, and Notices](#)
- [EASA - Conflict Zone Information Bulletins \(CZIBs\)](#)
- [EUROCONTROL GNSS Threat Assessment Tool](#)
- [FAA: Public Notices](#) (Government GPS Interference Testing, Training and Evaluation)

Websites/Articles

- [Airbus Safety First 2024. GNSS Interference](#)
- [Flightradar24 article: GPS Jamming](#)
- [SKYBRARY: GNSS Jamming and Spoofing](#)
- [SKYBRARY: Interference to GNSS Signals](#)
- [OPS Group Report](#)
- [FAA: Report a GPS Anomaly](#)

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Volcanic Ash and Solar Storms

Volcanic Links

- [World VAAC Map](#)
- [SKYbrary](#)
- [Washington DC Volcanic Ash Advisory Center](#)
 1. [Current Volcanic Ash Advisories](#)
 2. [Volcanic Ash Advisory Archive](#)
- [Montreal Volcanic Ash Advisory Centre](#)
- [Wellington Ash Advisories](#)
- [VAAC Buenos Aires](#)
- [Toulouse VAAC](#)
- [Anchorage Volcanic Ash Advisory Center](#)
- [Current Space Weather Conditions, Alerts, Watches, and Warnings](#)
- [London Volcanic Ash Advisory Centre](#)
 1. [Volcanic Ash Advisories](#)
 2. [Volcanic Ash Concentration](#)
- [CAA Volcanic Ash](#)
- [ICAO: Doc 9974 ANB/487](#)
- [Volcanic Ash Reporting Form in the AIM](#)

Solar and Space Weather

- [Space Weather](#)
- [Solar Wind Prediction](#)
- [Current Space Weather Conditions, Alerts, Watches, and Warnings](#)

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Aviation Weather

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Aviation Weather

- [GOES Image View](#)
- [Aviation Weather Center \(NOAA\)](#)
- [Surface Weather Observation Stations ASOS/AWOS](#)
- [AIM: Thunderstorm Flying \(See 7-1-27\)](#)
- [Aviation Weather Handbook designated FAA-H-8083-28](#)
- [RVR Status Monitor](#)
- [Weather Glossary](#)
- [Table of Commonly Used Acronyms and Abbreviations](#)
- [FAA WeatherCams \(Does not work on IE\)](#)
- [NAV Canada Weather Cameras](#)
- [NAV Canada Aviation Weather](#)
- [Geoengineering Monitor Map](#)

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Flight Planning Information

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SIGMETS

[FAA Website](#)

[FAA Form 7233-4](#)

[ICAO Doc 7030](#) (Link to Purchase)

Flight Planning Links

- [FAA Flight Planning Information](#)
- [Aeronautical Information Manual \(AIM\)](#) (See Appendix 4 and 5)
- [Flight Plan Completion \(SKYbrary\)](#)
- [North Atlantic Operations - Flight Planning \(SKYbrary\)](#)
- [North Atlantic Airspace \(SKYbrary\)](#)
- [Filing for Data Link Operations \(See AC 90-117\)](#)
- [Flight Planning for Oceanic and Remote Continental Airspace \(See AC 91-70\)](#)
- [Fuel Planning Requirements, Annex 6, Part 1 and Part 2](#) (Link to Purchase)
- [Distance From To](#) (use Google Chrome)
- [Sunrise, Sunset, Solar Noon, and Solar Position](#)
- [SkyVector Aeronautical Charts](#)



VERSION 8.2

SEP 2024

Flight Plan

Quick Guide

2024



- (FPL-ACID-Fit Rules Flight Type
- AC Type/Wake Cat-Equip.&Capability
 - Departure EOBT
 - Speed Altitude [sp] Route
 - Destination ETE [sp] Alternate(s)
 - Other Information)

Example:

(FPL-TTT123-IS -C550L-SADE1E2GHUJ3J5P2RWZ/881D1
-KPWM1225
-N0440F310 SSOXS5 SSOXS DCT BUZRD
DCT SEY DCT HTO J174 ORF J121
CHS EESNT LUNNI1
-KJAX0214 KMCO
-PBN/A1L1B1C1D1O1T1 NAV/Z1 GBAS
DAT/1FANS2PDC SUR/A2 RSP180
DOF/220501 REG/N123A SEL/BPAM
CODE/A05ED7)

References:

[Aeronautical Information Manual \(AIM\) Appendix 4](#)
[Aeronautical Info. Publication \(AIP\) Appendix 2](#)
[FAA Flight Planning Website](#)
[Form FAA 7233-4](#)

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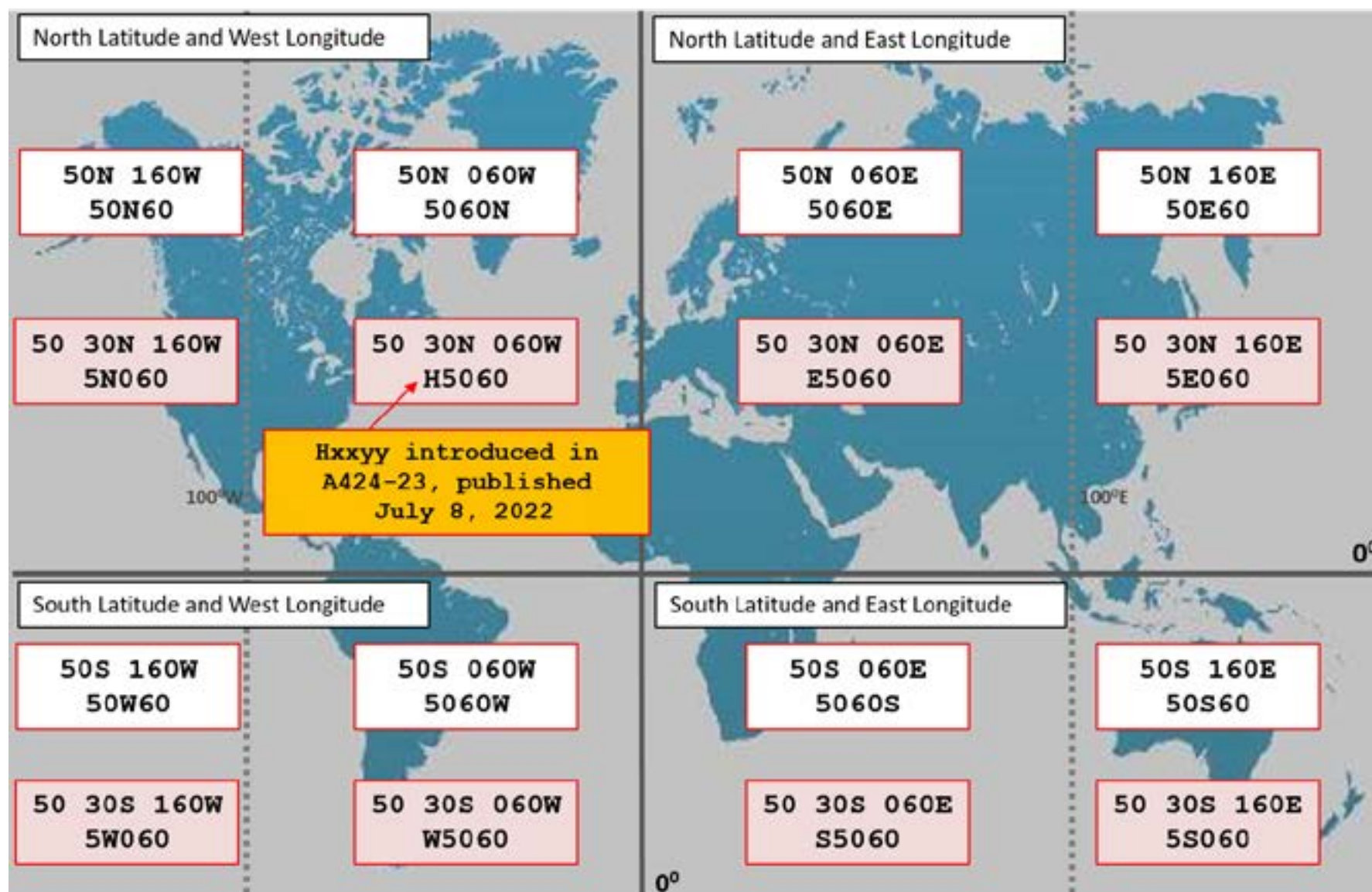


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Oceanic Waypoints ARINC 424 Shorthand System

(in accordance with ARINC 424 paragraph 7.2.5, Reporting Positions Defined by Coordinates)



ARINC 424 Shorthand System

- [NAT Doc 007](#), (North Atlantic Operations and Airspace Manual), chapter 3 "Prevention of Lateral Deviations from Track to "...review the 3.2, "The Solution"
- [Aeronautical Information Circular 23/15](#)
- [FAA Power Point Presentation](#)

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Current and Planned Implementations

Reference [Flight Prohibitions and International Oceanic Airspace Notices](#)

Performance Based Communication and Surveillance (PBCS)

NAT OPS Bulletin

→ [NAT OPS Bulletin 2017_004 Rev02](#) *Data Link Special Emphasis Items*

A056 Data Link Communications:

- [AC 90-117](#) *Data Link Communications*
- [AC 90-105](#) *Approval Guidance for RNP Operations and Barometric Vertical Navigation in the U.S. National Airspace System and in Oceanic and Remote Continental Airspace*
- [Data Link Communication Application Guide](#)

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The North Atlantic

NAT DOC 007

North Atlantic Operations and Airspace Manual

The North Atlantic is the busiest oceanic airspace in the world!

North Atlantic Links

- [NAT Doc 007](#) Chapter 7, RVSM in NAT HLA
- [ISAVIA \(Reykjavik\)](#)
- [AIP ENR 7.5](#) Operational Policy Performance-Based Navigation (PBN) and Performance-Based Communication and Surveillance (PBCS)
- [SKYbrary](#) North Atlantic Operations - Flight Planning
- [AC 20-150](#) Airworthiness Approval of Satellite Voice (SATVOICE) Equipment Supporting Air Traffic Service (ATS) Communication

See ICAO Annex 6 (Purchase)



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Oceanic Routings



Organized Track System

- [NAT Tracks - OTS](#)
- [North Atlantic Operation OTS, SKYbrary](#)
- [NAT DOC 007](#) Chapter 2, The Organized Track System (OTS)

Shanwick Preferred Routing

- [Daily West-bound Route Message \(Logon/Register\)](#)

Daily at approximately 8:30am London time, Shanwick posts preferred routing. Operators not filing the preferred routing are more likely to receive an amended oceanic route clearance.

Charts

- [FAA North Atlantic Charts](#)

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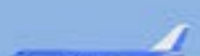
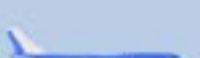
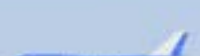
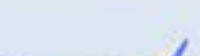
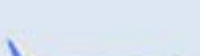
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Reduced Vertical Separation Minimum

RVSM

- [FAA RVSM Page](#)
- [NAARMO RVSM Approvals and Monitoring Status Results](#)
- [NAARMO RVSM Monitoring Methods](#)
- [AC 91-85](#) Authorization of Aircraft and Operators for Flight in Reduced Vertical Separation Minimum (RVSM) Airspace
- [14 CFR Part 91, Appendix G](#)
- [RVSM Approvals and AGHME Monitoring Status Results](#)
- [SKYbrary](#) Reduced Vertical Separation Minima (RVSM)
- [RVSM Documentation ADS-B Out RVSM Monitoring](#)
- [NAARMO FAQ](#)

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- [14 CFR Part 135](#)
- [Advisory Circulars \(AC\)](#)
- [Technical Standard Orders \(TSO\)](#)
- [FAA Orders](#)
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- [International Web Sources](#)
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Flight Standards: Certification and Application

- [Dynamic Regulatory System](#)
- [Examiner and Inspector Handbooks and Manuals](#)
- [Resources for Mechanics](#)
- [Application Guides](#)
- [Safety Assurance System \(SAS\) External Portal](#)

Flight Standards: Satellite and Performance Based Navigation

- [Satellite Navigation - GPS/WAAS Approaches](#)
- [Performance Based Navigation \(PBN\) Implementation and Usage](#)
- [Flight Technologies and Procedures Division: Flight Operations Group](#)
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 2. [Satellite Based Navigation \(SatNav\)](#)
 3. [Data Communications \(DataComm\)](#)
 4. [Oceanic and Remote Airspace \(Special Areas of Operation\)](#)

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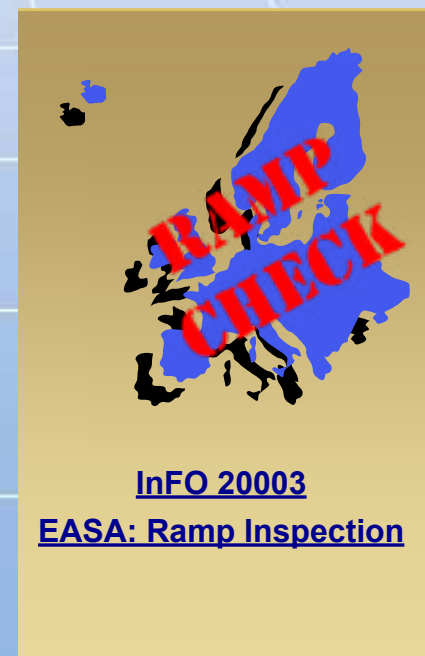
FAA Inspector Guidance FAA Order 8900.1

[8900.1 Contents](#)

Air Operator and Air Agency Certification and Application Process for 14 CFR 91K, 121, and 135

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3	Link	Link	Link
4	Link	Link	Link
5	Link	Link	Link

- [Conduct Certification of a 14 CFR Part 125 Operator](#)
- [Evaluate an Application for Deviation Authority Under Part 125](#)
- [Evaluation/Certification of a Part 125 Applicant/Operator's Maintenance Capabilities](#)



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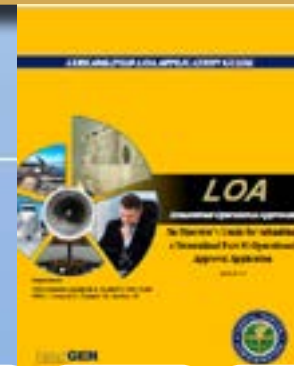
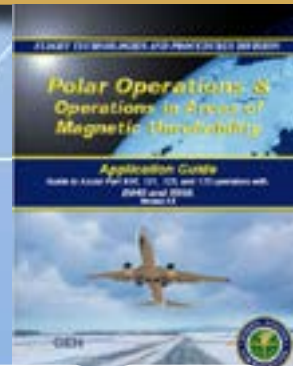
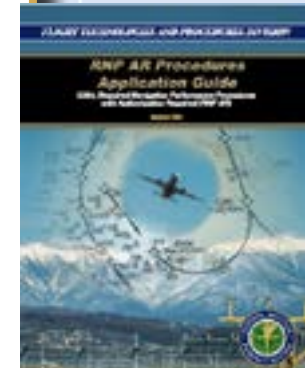
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- **Oceanic and Remote Continental Operations, Oceanic Required Navigation Performance**
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- **Special Procedures Domestic**
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- [91.511](#) Communication and Navigation Equipment for Overwater Operations
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- [AC 20-150](#) Airworthiness Approval of Satellite Voice Equipment Supporting Air
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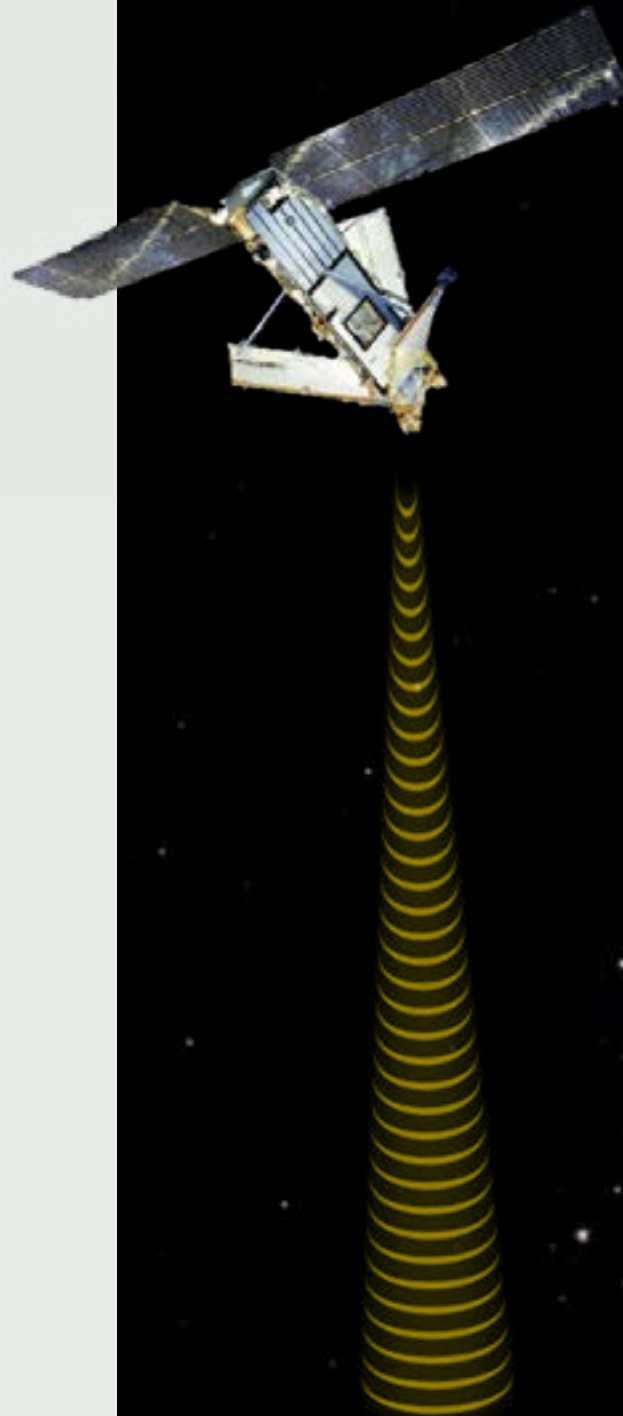


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- [A056 Communication Application Guide](#)
- [NAT OPS Bulletin 2023 001 Rev05 NAT Oceanic Clearance Removal](#)
- [MMEL Policy Letter \(PL\) 106, HF Communication](#)
- [InFO 23008 FAA Policy Change for United States \(U.S.\) Domestic](#)
- [Data Communcation Program \(DataComm\)](#)
- [AC 90-117](#), Data Link Communications
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- [AC 91-70](#), Oceanic and Remote Continental Airspace Operations
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- [AC 20-160](#), Onboard Recording of Controller Pilot Data Link Communication in Crash Survivable Memory
- [Annex 6](#), Operation Of Aircraft-Intl Commercial Air Transport 9th Edition - 6.3.3 Data Link Recorders
- [Annex 6 Part II](#), General Aviation 3.6.3 and Appendix 3.1 Flight Recorders
- [14 CFR Parts 23, 25, 27, §29.1457, §91.609](#)
- [Rule by the Federal Aviation Administration on 03/02/2015 Policy Regarding Datalink Communications Recording Requirements](#)



- [InFO 15008](#), Iridium Satellite Voice (SATVOICE) with Safety Services
- [NAS Data Communication Guide](#)
- [CPDLC End2End Description](#)
- [FAA Site: Oceanic and Remote Airspace \(Special Areas of Operation\)](#)
- [FAA Site: Data Comm](#)
- [AIP ENR 7.5](#) Operational Policy Performance-Based Navigation (PBN) and Performance-Based Communication and Surveillance (PBCS)
- [FANS 1/A Problem Reporting \(Works Better on Google Chrome\)](#)
- [ICAO DOC 9869](#), Performance-Based Communication and Surveillance (PBCS) Manual (Link to Purchase)
- [NAT OPS Bulletin 2019_003 Rev 05](#) Data Link Performance Improvement Options
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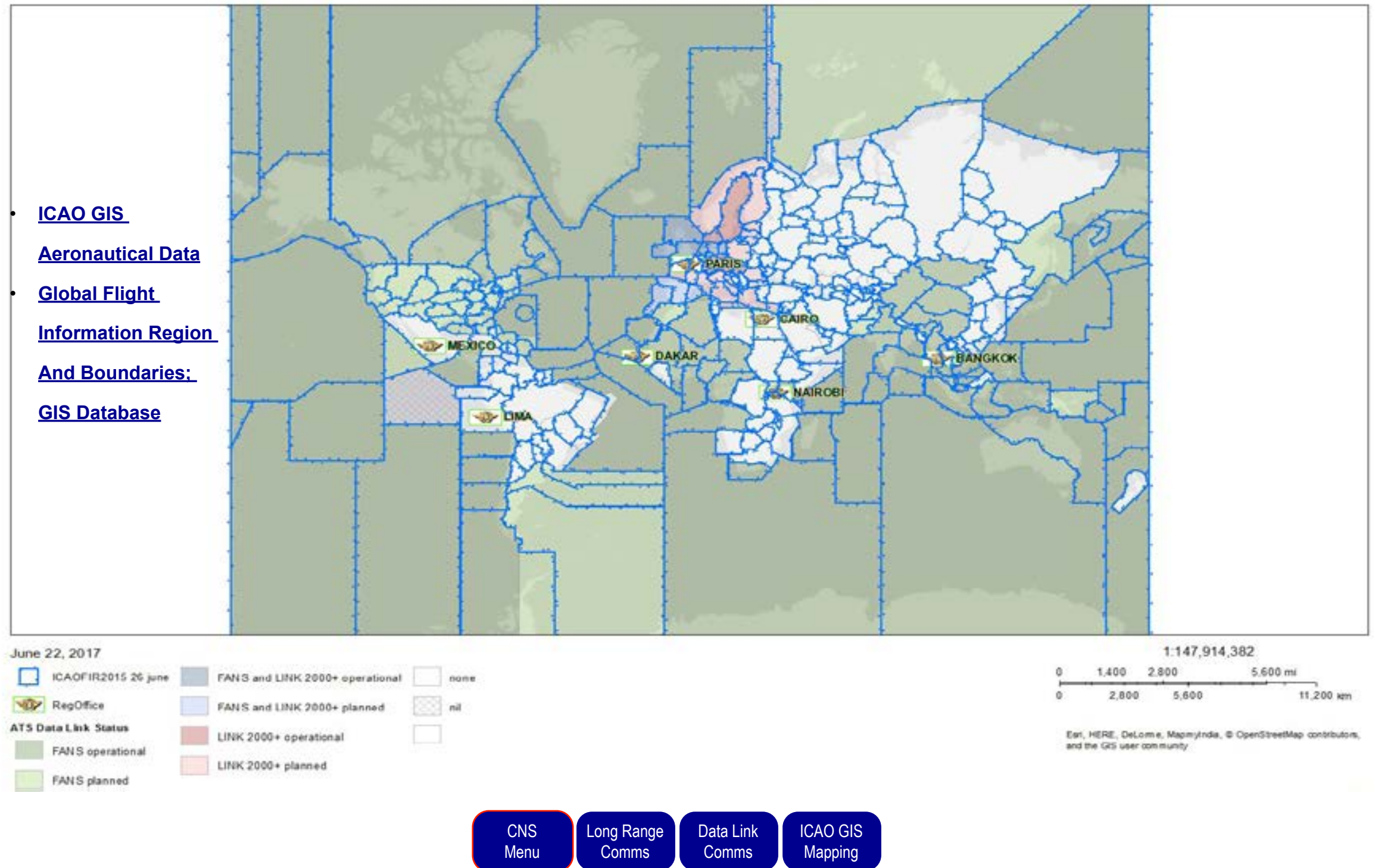


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Acronyms



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Acronym	Definition
1HFR	One Hour Reliable Fix
A	
A/FD	Airport/Facility Directory
AAA	Airport Airspace Analysis
AAD	Assigned Altitude Deviation
AAO	Adverse Assumption Obstacle
AAS	Airport Advisory Service
AAWU	Alaskan Aviation Weather Unit
ABAS	Aircraft Based Augmentation System
AC	Advisory Circular
ACA	Arctic Control Area
ACARS	Aircraft Communication Addressing and Reporting System
ACAS	Airborne Collision Avoidance System
ACC	Area Control Center
ACI	Airport Council International
ACL	ATC Clearance
ACM	ATC Communication Management
ACO	Aircraft Certification Office
ACP	Actual Communication Performance
ACSP	Aeronautical Communication Service Provider
ACTP	Actual Communication technical Performance
ADC	Air Data Computer
ADCUS	Advise Customs
ADDS	Aviation Digital Data Service
ADF	Automatic Direction Finder
ADIRU	Air Data Inertial Reference Unit
ADIZ	Air Defense Identification Zone
ADMS	Atmospheric Dispersion Modelling System
ADS	Automatic Dependent Surveillance
ADS-ADD	ADS Aircraft Derived Data
ADS-B	Automatic Dependent Surveillance-Broadcast
ADS-B In	ADS-B signal received onboard from another aircraft or ground station
ADS-B Out	ADS-B signal sent from aircraft to ground station or other aircraft
ADS-C	Automatic Dependent Surveillance-Contract

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Acronym	Definition
ADS-NRA	ADS in Non-Radar Airspace
ADS-RAD	ADS in Radar Airspace Blending of ADS & SSR
AEDT	Aviation Emissions Design Tool
AEEC	Airlines Electronic Engineering Committee
AEM III	Advanced Emission Model
AeroNav	Aeronautical Navigation Products
AFB	Air Force Base
AFCS	Automatic Flight Control System
AFIS	Automatic Flight Information Service
AFM	Airplane Flight Manual
AFN ATS	Facilities Notification (FANS logon)
AFS	FAA Office Symbol for Flight Standards Services
AFSS	Automated Flight Service Station
AFTN	Aeronautical Fixed Telecommunication Network
AGHME	Aircraft Geometric Height Measurement Element
AGL	Above Ground Level
AHRS	Attitude Heading Reference System
AIC	Aeronautical Information Circular
AIFSS	Aviation International Flight Service Station
AIM	Aeronautical Information Manual
AIP	Aeronautical Information Publication
AIR	FAA office symbol for: Aircraft Certification Services
AIRE	Atlantic Interoperability Initiative to Reduce Emissions
AIREP	Aircraft Reports
AIRMET	Airman's Meteorological Information
AIS	Aeronautical Information Service
AISR	All centers, some military facilities, some international ATC units
AKD	Altitude Keeping Device
ALAQS	Airport Local Air Quality Studies
ALD	Available Landing Distance
ALS	Approach Light Systems
ALTRV	Altitude Reservation
AMOC	Alternative Means of Compliance
AMSL	Above Mean Sea Level

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Acronym	Definition
AMSS	Aeronautical Mobile Satellite Service
AMU	Areas of Magnetic Unreliability
AMVER	Automated Merchant Vessel Report
ANC	Air Navigation Commission
ANCON	Aircraft Noise Control Model
ANP	Actual Navigation Performance
ANP	Air Navigation Plan
ANP	Aircraft Noise and Performance
ANSP	Air Navigation Service Provider
AOC	Aeronautical Operational Control
AOCC	Airline Operation Control Center
AOV	Air Traffic Safety Oversight Service
AP	Autopilot System
APM	Aircraft Performance Model
APMT	Aviation Environmental Portfolio Management Tool
APNT	Alternate Position Navigation and Time
APP	Airport Planning and Programming
APQI	Aircraft Position Quality Indicator
APU	Auxiliary Power Unit
APV	Approach with Vertical Guidance
AQP	Advance Qualification Program
AR	Authorization Required
ARENA	Areas Noted for Attention
ARFF IC	Aircraft Rescue and Fire Fighting Incident Commander
ARINC	Aeronautical Radio Incorporated
ARO	Airport Reservations Office
ARP	Airports
ARSA	Airport Radar Service Area
ARSR	Air Route Surveillance Radar
ARTCC	Air Route Traffic Control Center
ARTS	Automated Radar Terminal System
ASDE-X	Airport Surface Detection Equipment - Model X
ASE	Altimetry System Error
ASEPS	Advanced Surveillance - Enhanced Procedural Separation

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Acronym	Definition
ASOS	Automated Surface Observing System
ASR	Aviation Safety Report
ASR	Airport Surveillance Radar
ASR	Antenna Structure Registration
ASRS	Aviation Safety Reporting System
ATA	Actual Time of Arrival
ATC	Air Traffic Control
ATCC	Air Traffic Control Center
ATCRBS	Air Traffic Control Radar Beacon System
ATCSCC	Air Traffic Control System Command Center
ATCT	Airport Traffic Control Tower
ATD	Along-Track Distance
ATIS	Automatic Terminal Information Service
ATM	Air Traffic Management
ATN	Aeronautical Telecommunication Network
ATO	Air Traffic Organization (FAA Office symbology)
ATOP	Advance Technologies and Oceanic Procedures (Oceanic Centers)
ATS	FAA office symbol for: Air Traffic Organization
ATSA-AIRB	Enhanced Traffic Situational Awareness when Airborne
ATSA-ITP	Enhanced Traffic Situational Awareness In-Trail-Procedures
ATSA-S&M	Enhanced Sequencing & Merging operations
ATSA-SURF	Enhanced Traffic Situational Awareness on the Airport Surface
ATSA-VSA	Enhanced Visual Separation on Approach
ATSP	Air Traffic Services Provider
ATSU	Air Traffic Service Unit
ATT	Attitude Retention System
AVS	FAA office symbol for: Office of Aviation Safety
AWC	Aviation Weather Center
AWO	All Weather Operations
AWOS	Automated Weather Observing System
AWPR	Automatic Waypoint Reporting
AWSS	Automated Weather Sensor System
AWTT	Aviation Weather Technology Transfer
AWW	Severe Weather Forecast Alert

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Acronym	Definition
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BAASS	Bigelow Aerospace Advanced Space Studies
BADA	Base of Aircraft Data
baro VNAV	Barometric Vertical Navigation
BBS	Bulletin Board System
BC	Back Course
BECMG	Becoming group
BITE	Built-In Test Equipment
BMVBS	German Ministry of Transport
BORPC	Basic Operational Requirements and Planning Criteria
BOTA	Brest Oceanic Transition Area
BRG	Bearing
B-RNAV	Basic Area Navigation
C	
CAA	Civil Aviation Authority
CAASD	Center for Advanced Aviation Systems Development
CAATS	Canadian Automated Air Traffic System
CAD	Centralized ADS-C system
CAEP	ICAO Committee on Aviation Environmental Protection
CANSO	Civil Air Navigation Services Organization
CAR	Caribbean Region
CAR-SAM	Caribbean–South America (ICAO term)
CARTS	Common Automated Radar Terminal System
CAT	Clear Air Turbulence
CATEX	Categorical Exclusion
CB	Cumulonimbus Clouds
CC	Connection
CD	Controller Display
CDA	Current Data Authority
CDFA	Continuous Descent Final Approach
CDI	Course Deviation Indicator
CDL	Configuration Deviation List
CDR	Coded Departure Route
CDTI	Cockpit Display of Traffic Information

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Acronym	Definition
CDU	Control Display Unit
CENPAC	Central Pacific
CEP	Central East Pacific
CERAP	Combined Center/RAPCON
CFA	Controlled Firing Area
CFIT	Controlled Flight into Terrain
CFL	Cleared Flight Level
CFM	Company Flight Manual
CFP	Computer Flight Plan
CFR	Code of Federal Regulations
CFRS	Centralized FMC Waypoint System
CHDO	Certificate-Holding District Office
CIS	Commonwealth of Independent States
CM	Context Management
CMA	Central Monitoring Agency
CMO	Certificate Management Office
CNS	Communications, Navigation, and Surveillance
CNS/ATM	Communications, Navigation and Surveillance/Air Traffic Management
CO	Carbon Monoxide
CO2	Carbon Dioxide
COA	Certificate of Waiver or Authorization
COSPAS	Space System for the Search of Vessels in Distress (Acronym transliterated from Russian, meaning)
CPC	Connect Request (Euro Control)
CPDLC	Controller-Pilot Data Link Communications
CPDLC-DCL	Controller-Pilot Data Link Communications Departure Clearance
CR	Connect Request
CRC	Cyclic Redundancy Check
CRM	Collision Risk Model
CRM	Cockpit Resource Management
CSP	Communication Service Providers
CSPO	Closely Spaced Parallel Operations
CTA	Control Area
CTAF	Common Traffic Advisory Frequency
CTR	Control Zone

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Acronym	Definition
CU	Cumulus Clouds
CVFP	Charted Visual Flight Procedure
CVRS	Computerized Voice Reservation System
CWA	Center Weather Advisory
CWSU	Center Weather Service Unit
D	
DA	Decision Altitude
DA	Data Authority
DARP	Dynamic Airborne Reroute Procedure
D-ATIS	Data link (or Digital) Automatic Terminal Information Service
DCDU	Datalink Control & Display Unit
DCL	Departure Clearance
DCNS	Data Communication Network System
DCP	Data Collection Package
DCPC	Direct Controller Pilot Communications
DDTC	Data link Delivery of Taxi Clearance
DER	Departure End of Runway
DEWIZ	Distant Early Warning Identification Zone
DF	Direction Finder
DfT	Department for Transport
DH	Decision Height
DL	Data Link (CPDLC, ATN, ACARS, AFIS)
DLIC	Data Link Initiation Capability
DLS	Data Link Services
DM	Downlink Message
DME	Distance Measuring Equipment
DME/N	Standard DME
DME/P	Precision DME
DOD	Department of Defense
DOF	Digital Obstacle File
DOI	Department of Interior
D-ORIS	Data link Operational “En-Route” Information Service
DP	Instrument Departure Procedure
DPU	Data Processor Unit

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Acronym	Definition
DR	Dead Reckoning
DRS	Dynamic Regulatory System
DRT	Diversion Recovery Tool
DRVSM	Domestic Reduced Vertical Separation Minimum
DSC	Downstream Clearance
D-SIG	Data link Surface Information & Guidance
D-TAXI	Data link Taxi Instruction
DTC DUATS	Direct File Over the Internet
DTED	Digital Terrain Elevation Data
DUATS	Direct User Access Terminal System
DVA	Diverse Vector Area
DVFR	Defense Visual Flight Rules
DVRSN	Diversion
E	
EA	Environmental Assessment
EASA	European Aviation Safety Agency
ECAC	European Civil Aviation Conference
ECI	Environmental Condition Indicator
EDCT	Expect Departure Clearance Time
EDMS	Emissions and Dispersion Modelling System
EDR	Excessive Descent Rate
EDTO	Extended Diversion Time Operations
EFAS	En Route Flight Advisory Service
EFB	Electronic Flight Bag
EFIS	Electronic Flight Instrument System
EFV	Enhanced Flight Visibility
EFVS	Enhanced Flight Vision System
EGPWS	Enhanced Ground Proximity Warning System
EICAS	Engine Indicating and Crew Alerting System
EIS	Environmental Impact Statement
ELT	Emergency Locator Transmitter
EMAS	Engineered Materials Arresting System
EPE	Estimate of Position Error
EPI	Environmental Key Performance Indicator

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Acronym	Definition
EPU	Estimate of Position Uncertainty
ERAM	Enroute Automated Modernization
ESV	Expanded Service Volume
ETA	Estimated Time of Arrival
ETD	Estimated Time of Departure
ETE	Estimated Time En Route
ETOPS	Extended Operations
ETP	Equal Time Point
EUR	Europe
EUR/NAT	Europe and North Atlantic
EUROCAE	European Organization for Civil Aviation Equipment
EUROCONTROL	European Organization for the Safety Air Navigation
EVS	Enhanced Vision System
EWINS	Enhanced Weather Information System
F	
FA	Area Forecast
FAA	Federal Aviation Administration
FAB	Functional Airspace Blocks
FAF	Final Approach Fix
FANS	Future Air Navigation System
FAROS	Final Approach Runway Occupancy Signal
FAS	Final Approach Segment
FASID	Facilities and Services Implementation Document
FAST	Future Aviation Scenario Tool
FAWP	Final Approach Waypoint
FB	Fly-by
FBO	Fixed Base Operator
FCC	Federal Communications Commission
FD	Flight Director
FDC	Flight Data Center
FDE	Fault Detection and Exclusion
FDP2000	Flight Data Processing 2000 (Anchorage Domestic Center)
FDPS	Flight Data Processing System
FESG	ICAO Forecasting and Economic Support Group

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Acronym	Definition
FIC	Flight Information Center
FIP	Flight Inspection and Procedures
FIR	Flight Information Region
FIS	Flight Information Service
FIS-B	Flight Information Services Broadcast
FISDL	Flight Information Services Data Link
FL	Flight Level
FLAS	Flight Level Allocation Scheme
FLIP	Flight Information Publication
FLIPCY	Flight Plan Consistency
FLIPINT	Flight Path Intent
FLTA	Forward Looking Terrain Avoidance
FMC	Flight Management Computer
FMC WPR	Flight Management Computer Waypoint Position Reporting
FMCS	Flight Management Computer System
FMS	Flight Management System
FMSP	Flight Management System Procedure
FN_AK	FANS 1/A (+) Logon Response
FN_CAD	FANS 1/A (+) Contact Request
FN_COMP	FANS 1/A (+) Contact Complete
FN_CON	FANS 1/A (+) Logon Request
FN_RESP	FANS 1/A (+) Contact Response
FO	Fly-over
FOCA	Federal Office of Civil Aviation (Germany)
FOM	Figure of Merit
FOM	Forecasting and Operations Module
FOM	Flight Operations Manual
FOV	Field of View
FPA	Flight Path Angle
FPFO	Flight Procedures Field Office
FPNM	Feet Per Nautical Mile
FPO	Flight Procedures Office
FPV	Flight Path Vector
FRMS	Fatigue Risk Management System

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Acronym	Definition
FROP	Final Roll-Out point
FRT	Fixed Radius Transition
FSDO	Flight Standards District Office
FSIMS	Flight Standards Information Management System
FSS	Flight Service Station
FSTD	Flight System Training Device
FTE	Flight Technical Error
FTR	Flexible Track Route
FTS	Flexible Track System
FUA	Flexible Use of Airspace
G	
GBAS	Ground Based Augmentation System
GCO	Ground Communication Outlet
GEO	Geostationary Satellite
GFAAF	Global Framework for Aviation Alternative Fuels
GHG	Green House Gas (emissions)
GIS	Geographical Information System
GLONASS	Global Orbiting Navigation Satellite System (Russian)
GLS	"Global Navigation Satellite System [GNSS] Landing System "
GMS	Global Positioning System Monitoring System
GMT	Greenwich Mean Time
GMU	GPS (Height) Monitoring Unit
GNE	Gross Navigation Error
GNSS	Global Navigation Satellite System
GNSSP	Global Navigation Satellite System Panel
GOLD	Global Operational Data Link Document
GP	General Purpose
GPS	Global Positioning System
GPU	Ground Power Unit
GPWS	Ground Proximity Warning System
GRAS	Ground-based Regional Augmentation System
GRECO	Graphical Trajectory Co-ordination
GRI	Group Repetition Interval

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Acronym	Definition
GSD	Geographical Situation Display
GSE	Ground Support Equipment
GUS	Ground Uplink Station
H	
HAA	Height Above Airport or Helicopter Air Ambulance
HAR	High Altitude Redesign
HAT	Height Above Touchdown
HDG	Heading
HDTA	High Density Traffic Airports
HEDA	Helicopter En Route Descent Area
HEMS	Helicopter Emergency Medical Services
HF	High Frequency
HFDL	High Frequency Data Link
HIL	Horizontal Integrity Limit (is equal to the Horizontal Alert Limit)
HIRL	High Intensity Runway Lights
HLA	High Level Airspace
HMI	Human Machine Interface
HMU	Height Monitoring Unit
hPa	Hectopascals
HR	Human Range
HRR	Helicopter Rapid Refueling Procedures
HSI	Horizontal Situation Indicator
HUD	Head-Up Display
Hz	Hertz
I	
I&I	Implementation and Impact
IAF	Initial Approach Fix
IAP	Instrument Approach Procedure
IAS	Indicated Air Speed
IATA	International Air Transport Association
IAWP	Initial Approach Waypoint
ICAO	International Civil Aviation Organization
ICD	Interface Control Document
IF	Intermediate Fix

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Acronym	Definition
IFP	Instrument Flight Procedures
IFR	Instrument Flight Rules
IFSET	ICAO Fuel Savings Estimation Tool
IGA	International General Aviation
ILS	Instrument Landing System
ILS/PRM	Instrument Landing System/Precision Runway Monitor
IM	Inner Marker
IMC	Instrument Meteorological Conditions
IN	International Notice to Airmen
INM	Integrated Noise Model
INS	Inertial Navigation System
IOC	Initial Operational Capability
IPDS	Instrument Procedure Design System
IR	IFR Military Training Route
IRS	Inertial Reference System
IRU	Inertial Reference Unit
ISA	International Standard Atmosphere
ITCZ	Intertropical Convergence Zone
ITP	In-Trail Procedures
ITWS	Integrated Terminal Weather System
J	
JAA	Joint Aviation Authority
K	
KHz	Kilohertz
km	Kilometer
KPA	Key Performance Areas
KPI	Key Performance Indicator
L	
LAA	Local Airport Advisory (within 10 miles of an airport with FSS)
LAA	Lowest Authorized Altitude
LAAS	Local Area Augmentation System
LAHSO	Land and Hold Short Operations
LAQ	Local Air Quality
LAT	Latitude

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Acronym	Definition
LAWRS	Limited Aviation Weather Reporting Station
LDA	Landing Distance Available
LDA	Localizer Type Directional Aid
LDA/PRM	Localizer Type Directional Aid/Precision Runway Monitor
LDE	Lateral Deviation Event (LDE)
LDOC	Long Distance Operational Control
LIRL	Low Intensity Runway Lights
LLWAS	Low Level Wind Shear Alert System
LLWAS NE	Low Level Wind Shear Alert System Network Expansion
LLWAS-RS	Low Level Wind Shear Alert System Relocation/Sustainment
LNAV	Lateral Navigation
LOA	Letter of Authorization
LOC	Localizer
LODA	Letter of Design Approval
LOE	Line Oriented Evaluation
LOFT	Line Oriented Flight Training
LONG	Longitude
LOP	Line-of-Position
LP	Localizer Performance
LPV	Localizer Performance with Vertical Guidance
LRCS	Long-Range Communication System
LRDE	Level Range Deviation Event
LRNP	Long-Range Navigation Program
LRNS	Long-Range Navigation System
LTP	Landing Threshold Point
LUAW	Line Up and Wait
LZ	Landing Zone
M	
MACS	Military Aviation Communication System
MAGENTA	Model for Assessing Global Exposure to the Noise of Transport Aircraft
MAHWP	Missed Approach Holding Waypoint
MAP	Missed Approach Point
MARSA	Military Assumes Responsibility for Separation of Aircraft
MAS	Message Assurance

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Acronym	Definition
MASPS	Minimum Aircraft System Performance Specification
MAWP	Missed Approach Waypoint
MBM	Market Based Measures
MCA	Ministry of Civil Aviation
MCDU	Multi-function Cockpit Display Unit
MDA	Minimum Descent Altitude
MEA	Minimum En Route Altitude
MEARTS	Micro En Route Automated Radar Tracking System
MEL	Minimum Equipment List
MET	Meteorology Information
MET	Meteorological
METAR	Aviation Routine Weather Report
MHz	Megahertz
MIA	Minimum IFR Altitude
MIRL	Medium Intensity Runway Lights
MLS	Microwave Landing System
MM	Middle Marker
MMEL	Master Minimum Equipment List
MMS	Mineral Management Service
MNPS	Minimum Navigation Performance Specification
MOA	Memorandum of Agreement
MOA	Military Operations Area
MOCA	Minimum Obstruction Clearance Altitude
MOPS	Minimum Operational Performance Standards
MORA	Minimum Off-Route Altitude
MPI	Management Performance Indicator
MRA	Minimum Reception Altitude
MRB	Magnetic Reference Bearing
MRN	Message Reference Number
MSA	Minimum Sector Altitude
MSA	Minimum Safe Altitude
MSAW	Minimum Safe Altitude Warning
MSL	Mean Sea Level
MSpec	Management Specification

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Acronym	Definition
MTBF	Mean Time Between Failures
MTI	Moving Target Indicator
MTOS	Mountain Obscuration
MTR	Military Training Route
MTT	Minimum Time Track
MTTR	Mean Time To Repair
MVA	Minimum Vectoring Altitude
MWA	Mountain Wave Activity
MWO	Meteorological Watch Office
N	
NAA	National Airworthiness Authority
NAARMO	North American Approval Registry and Monitoring Organization
NACO	National Aeronautical Charting Office (predecessor to FAA Aeronautical Information Services)
NAM	North American Region
NAPT	National Airspace and Procedures Team
NAR	North American Route
NAS	National Airspace System
NASA	National Aeronautics and Space Administration
NASR	National Airspace System Resource
NAT	North Atlantic Region
NAT OTS	North Atlantic Organized Track System
NAT SPG	North Atlantic Systems Planning Group
NATS	National Air Traffic Services (UK Air Traffic Service Provider)
NAV	Navigation
Nav Specs	Navigation Specifications
NAVAID	Navigational Aid
NAVCEN	Coast Guard Navigation Center
NCA	Northern Control Area (Canada)
NCR	Negative Climb Rate
NCWF	National Convective Weather Forecast
ND	Navigation Display
NDA	Next Data Authority
NDB	Nondirectional Radio Beacon
NDB	Navigation Data Base

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Acronym	Definition
NEPA	National Environmental Policy Act
NEXRAD	Next Generation Weather Radar
NextGen	Next Generation
NFDC	National Flight Data Center
NFPG	National Flight Procedures Group
NFPO	National Flight Procedures Office
NGA	National Geospatial-Intelligence Agency
NIRS	Noise Integrated Routing System
NM	Nautical Miles
NMAC	Near Midair Collision
NOAA	National Oceanic and Atmospheric Administration
NOF	NOTAM offices
NOPAC	North Pacific
NoPT	No Procedure Turn Required
NOTA	Northern Oceanic Transition Area
NOTAM	Notice to Airmen
NOx	Nitrogen Oxides
NOx-CSM	Nitrogen Oxides Cost Spreadsheet Model
NPA	Nonprecision Approach
NPOLE	North Pole
NRA	Non-Radar Airspace
NRS	Navigation Reference System
NRS	National Reference System
NSA	National Security Area
NSE	Navigation Sensor Error
NSE	Navigation System Error
NSW	No Significant Weather
NTSB	National Transportation Safety Board
NTZ	No Transgression Zone
NWS	National Weather Service
O	
OAC	Oceanic Area Control Center
OADR	Oceanic Altitude Deviation Reports
OASIS	Flight Services in Alaska

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Acronym	Definition
OAT	Outside Air Temperature
OBS	Omni-bearing Selector
OCA	Obstacle Clearance Altitude
OCA	Oceanic Control Area
OCD	Oceanic Clearance Delivery
OCEAN 21	FAA oceanic Flight Data Processing Sytstem. See also ATOP.
OCH	Obstacle Clearance Height
OCL	Oceanic Clearance
OCS	Obstacle Clearance Surface
ODP	Obstacle Departure Procedure
OE	Obstruction Evaluation
OEM	Original Equipment Manufacturers
OESB	Oceanic Errors Safety Bulletin
OFDPS	Offshore Flight Data Processing System
OIS	Operational Information System
OIS	Obstacle Identification Surface
OM	Outer Marker
OPI	Operational Performance Indicator
OPR	Office of Primary Responsibility
OpSpecs	Operation Specification
ORT	Operational Requirements Table
OSAP	Offshore Standard Approach Procedure
OTS	Organized Track System
P	
P/CG	Pilot/Controller Glossary
PA	Precision Approach
PAC	Pacific Region
PACOTS	Pacific Organized Track System
PAI	Principal Avionics Inspector
PAM	Path Arrival Management
PANS	Procedures for Air Navigation Services
PANS-ABC	ICAO Abbreviations and Codes
PANS-ATM	Procedures for Air Navigation Services-Air Traffic Management
PAPI	Precision Approach Path Indicator

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Acronym	Definition
PAR	Precision Approach Radar
PAR	Preferred Arrival Route
PARC	Performance-Based Operations Aviation Rulemaking Committee
PBCS	Performance-Based Communication and Surveillance
PBN	Performance Based Navigation
PC	Proficiency Check
PDA	Premature Descent Alert
PDC	Pre-departure Clearance
PDE	Path Definition Error
PEC	Position Error Correction
PEE	Position Estimate Error
PEGAS	Russian Federation Air Quality Model
PFD	Personal Flotation Device
PID	Pilot Initiated Downlink
PinS	Point-in-Space
PIREP	Pilot Weather Report
PMI	Principal Maintenance Inspector
PNF	Pilot-Not-Flying
POB	Persons on Board
POC	Point of Contact
POFZ	Precision Obstacle Free Zone
POH	Pilot's Operating Handbook
POI	Principal Operations Inspector
PORT	Pilot Operational Response Time
POS	Position
PPO	Prior Permission Only
PPS	Precise Positioning Service
PQI	Position Quality Indicator
PRB	Procedure Review Board
PRM	Precision Runway Monitor
PRM	Preferred Route Message
P-RNAV	Precision RNAV
PSE	Path Steering Error
PSR	Primary Surveillance Radar

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Acronym	Definition
PT	Procedure Turn
PT	Proficiency Training
PVT	Position, Velocity & Time
Q	
Q Routes	High-altitude RNAV routes
QA	Quality Assurance
R	
R/T	Radio Telephony
RA	Resolution Advisory
RAA	Remote Advisory Airport
RAIM	Receiver Autonomous Integrity Monitoring
RAIS	Remote Airport Information Service
RAPT	Regional Airspace and Procedures Team
RBDT	Ribbon Display Terminals
RCAG	Remote Center Air/Ground
RCC	Rescue Coordination Center
RCLS	Runway Centerline Lighting System
RCO	Remote Communications Outlet
RCP	Required Communication Performance
RCP A	Required Communication Performance Availability
RCP C	Required Communication Performance Continuity
RCP ET	Required Communication Performance Expiration Time
RCP I	Required Communication Performance Integrity
RD	Rotor Diameter
REF	Reference
REIL	Runway End Identifier Lights
REL	Runway Entrance Lights
RF	Radius-to-Fix
RFM	Rotorcraft Flight Manual
RGS	Radio Ground Station
RIL	Runway Intersection Lights
RLIM	Runway Light Intensity Monitor
RNAV	Area Navigation
RNP AR	RNP Authorization Required

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Acronym	Definition
RNL	Reference Noise Levels
RNP	Required Navigation Performance
ROC	Required Obstacle Clearance
RPAT	RNP Parallel Approach Runway Transitions
RSP	Required Surveillance Performance
RSTP	Required Surveillance Technical Performance
RTA	Required Time of Arrival
RTC	Required Terrain Clearance
RVFP	Area Navigation Visual Flight Procedure
RVR	Runway Visual Range
RVSM	Reduced Vertical Separation Minimum
RWS	Runway Segment
RWSL	Runway Status Light
RWY	Runway
S	
S&M	Sequencing and Merging
SAGE	System for Assessing Aviation's Global Emissions
SAM	System Area Monitor
SAM	South America Region
SAO	Special Areas of Operations
SAR	Search and Rescue
SARP	Standards and Recommended Practices (ICAO)
SARPSS	Standards and Recommended Practices, also FAA's Safety Assurance System
SARSAT	Search and Rescue Satellite-Aided Tracking
SAS	Stability Augmentation System
SAT	Static Air Temperature
SATCOM	Satellite Communication
SATCOM Voice or SATVOICE	Satellite Voice Communication
SBAS	Satellite-based Augmentation System
SC	Stratocumulus Clouds
SCA	Southern Control Area (Canada)
SDF	Simplified Directional Facility
SDL	Satcom Data Link

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Acronym	Definition
SELCAL	Selective Calling (<i>ICAO managed communications method used to notify aircraft that a ground radio station wishes to communicate</i>)
SESAR	Single European Sky ATM Research
SET	Select Event Training
SFL	Sequenced Flashing Lights
SFR	Special Flight Rules
SIA	Standard Instrument Approach
SIAP	Standard Instrument Approach Procedure
SID	Standard Instrument Departure
SIGMET	Significant Meteorological Information
SLA	Standard Landing Aid
SLOP	Strategic Lateral Offset Procedures
S-LRCS	Single Long Range Communication System
S-LRNS	Single Long-Range Navigation System
SM	Statute Mile
SMGCS	Surface Movement Guidance Control System
SMO	System Management Office
SMS	Safety Management System
SNR	Signal-to-noise Ratio
SOIA	Simultaneous Offset Instrument Approaches
SONDEO	Study on Noise Exposure Around European Airports
SOP	Standard Operating Procedure
SOTA	Shannon Oceanic Transition Area
SPC	Storm Prediction Center
SPF	Special Procedure Form
SPI	Special Pulse Identification
SPOT	Special Purpose Operational Training
SPS	Standard Positioning Service
SRM	Safety Risk Management
SRMD	Safety Risk Management Document
SRMDM	Safety Risk Management Decision Memorandum
SSB	Single Sideband
SSEC	Static Source Error Correction
SSR	Secondary Surveillance Radar
STAPES	System for Airport Noise Exposure Studies

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**Federal Aviation
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Acronym	Definition
STAR	Standard Terminal Arrival
STARS	Standard Terminal Automation Replacement System
STC	Supplemental Type Certificate
STMP	Special Traffic Management Program
SUPPS	Supplementary Procedures
SVA	Enhanced Successive Visual Approaches
SVS	Synthetic Vision System
SWIM	System Wide Information Management
SWSL	Supplemental Weather Service Locations
T	
TA	Traffic Advisory
TAA	Terminal Arrival Area
TAC	Terminal Area Chart
TACAN	Tactical Air Navigation
TAF	Terminal Area Forecast
TARGETS	Terminal Area Route Generation Evaluation and Traffic Simulation
TAS	True Airspeed
TAWS	Terrain Awareness Warning System
TC	Type Certificate
TCAS	Traffic Alert and Collision Avoidance System
TCH	Threshold Crossing Height
TD	Time Difference
TDLS	Tower Data Link System
TDM	Track Definition Message
TDWR	Terminal Doppler Weather Radar
TDZ	Touchdown Zone
TDZE	Touchdown Zone Elevation
TDZL	Touchdown Zone Lights
TEC	Tower En Route Control
TERPS	Terminal Instrument Procedures
TF-5	Task Force-5
TGL	Temporary Guidance Leaflet
THL	Takeoff Hold Lights
TIS	Traffic Information Service

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Acronym	Definition
TIS-B	Terminal Information Service - Broadcast
TKE	Track Keeping Error
TLS	Target Level of Safety
TLS	Transponder Landing System
TMA	Terminal Maneuvering Area
TMI	Track Message Identification
TOD	Top of Descent
TPP	Terminal Procedures Publications
TQM	Total Quality Management
TRACON	Terminal Radar Approach Control Facility
TRN	Monitored Operational Performance
TRSA	Terminal Radar Service Area
TSA	Transportation Security Administration
TSE	Total System Error
TSO	Technical Standard Order
TSOA	Technical Standard Order Authorization
TVE	Total Vertical Error
TWDL	Two-Way Data Link
TWIB	Terminal Weather Information Broadcast
TWIP	Terminal Weather Information for Pilots
U	
UA	Unmanned Aircraft
UAS	Unmanned Aircraft System
UAV	Unmanned Aerial Vehicle
UDDF	Universal Data Delivery Format
UFO	Unidentified Flying Object
UHF	Ultrahigh Frequency
UM	Uplink Message
UNEP	United Nations Environment Program
UNFCCC	United Nations Framework Convention on Climate Change
UPR	User Preferred Route
USB	Upper Sideband
USIFPP	United States Instrument Flight Procedures Panel

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Acronym	Definition
USNOF	United States NOTAM Office
UTA	Upper Control Area
UTC	Universal Time Coordinated
UWS	Urgent Weather SIGMET
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VAR	Volcanic Activity Reporting
VASI	Visual Approach Slope Indicator
VCOA	Visual Climb Over the Airport
VDA	Vertical Descent Angle
VDL	VHF Data Link
VDP	Visual Descent Point
VFR	Visual Flight Rules
VGSI	Visual Glide Slope Indicator
VHF	Very High Frequency
VIP	Video Integrator Processor
VLF	Very Low Frequency
VMC	Visual Meteorological Conditions
VMINI	Instrument Flight Minimum Speed
VNAV	Vertical Navigation
Vne	Never Exceed Speed
VNEI	Instrument Flight Never Exceed Speed
VOLMET	Meteorological Information For Aircraft In Flight
VOR	Very High Frequency Omni-directional Range
VOR/DME	VHF Omnidirectional Range/Distance Measuring Equipment
VORTAC	VHF Omni-directional Range/Tactical Air Navigation
VOT	VOR Test Facility
VR	VFR Military Training Route
VRE	Vertical Rate of Change Event
Vref	Reference landing approach speed
VSM	Vertical Separation Minimum
Vso	Stalling speed or the minimum steady flight speed in the landing configuration at maximum weight
VTF	Vector to Final
VV	Vertical Visibility
VVI	Vertical Velocity Indicator

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Acronym	Definition
Vx	Speed for Best Angle of Climb
Vy	Speed for Best Rate of Climb
VYI	Instrument Climb Speed, Utilized Instead of VY for Compliance with the Climb Requirements for Instrument Flight
W	
WA	AIRMET
WAAS	Wide Area Augmentation System
WAC	World Aeronautical Chart
WAH	When Able Higher
WAT	West Atlantic
WCE	Waypoint Change Event
WFO	Weather Forecast Office
WG	Working Group
WGS-84	World Geodetic System of 1984
WGS-84 Ellipsoid	A mathematical model of the earth's shape based on WGS-84 survey information
WMO	World Meteorological Organization
WMS	Wide-Area Master Station
WMSC	Weather Message Switching Center
WMSCR	Weather Message Switching Center Replacement
WP	Waypoint
WPR	Waypoint Position Report
WRS	Wide-Area Ground Reference Station
WS	SIGMET
WSO	Weather Service Office
WSP	Weather System Processor
WST	Convective Significant Meteorological Information
WW	Severe Weather Watch Bulletin
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XTK	Cross-Track Error

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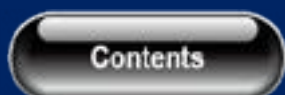
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