



# AVIOportolano<sup>ITALIA</sup><sup>®</sup>

## Flight Guides & Charts

ICAO Aeronautical Chart (chapt. 17)	ICAO Annex 4	Compliance with the ICAO Chapter 17 standard in 1: 500,000	
		AVIOPORTOLANO AERONAUTICAL CHARTS	
<b>CULTURE AND TOPOGRAPHY</b>			
<b>LINEAR REFERENCES</b>			
Highways		YES +	increased visibility
Great communication roads		YES	
Main Roads		YES	
Secondary roads		YES	
Local roads		YES	
Railways		YES+	increased visibility
Rivers		YES	
<b>AREAS AND REFERENCE POINTS</b>			
Built up areas		YES	
lakes		YES	
Bridges		YES	
Tunnels		YES	
<b>ALTITUDE AND VERTICAL REFERENCES SYSTEM</b>			
Pictorial indication of the mountainous areas		NO	ICAO not foreseen it
Elevation level curves		YES	
Elevation tints		YES	By international range 0/500 FT (white) - 500/2000FT (green) - over 2000 FT (brown)
Altitude identification mountain/hill/plain		YES+	
Spot elevation		YES	
Indication of the units of measurement adopted		YES	
Minimum grid area altitude		YES	
<b>GEOGRAPHIC PROJECTION - FORMAT - PROPERTIES</b>			
A conformal (orthomorphic) projection shall be used.		YES	SE1 and SE2 Lambert Conformal Conic Projection. LI series (Italy) and LO (Austria) UTM 32 (Universal Transverse of Mercator)
Name and basic parameters of the projection shall be indicated		YES	
<b>PROJECTION AND GEOGRAPHICAL GRID</b>			
Reference Geoid WGS84		YES	on all Avioportolano Aeronautical Charts
Identification of the central meridian		YES	
Identification of standard parallels		YES	
Meridian of origin		YES	
Parallels shall be shown at intervals of 30'.		YES	
Meridians shall normally be shown at intervals of 30'.		YES	
Graduation marks shall be shown at 1' intervals		YES	Inserted letters and numbers of panels to facilitate the search for individual airports in Avioportolano publications
Graduation marks at 1' intervals approximately 1.3 mm		YES	
Graduation marks at 10' intervals approximately 2 mm		YES	
Grid area indicated with letters and numbers at 30' intervals		YES	
Meridians and parallels numbered in the borders of the chart		YES	
Meridians and parallels numbered also inside the grid		YES	
Isogonic lines shall be shown		YES+	The Isogonic lines in the Avioportolano Aeronautical Charts are updated every year
Date of isogonic lines		YES+	
Average annual variation		YES+	
<b>FORMAT</b>			
Dimensions suitable for use in limited spaces		YES	
Horizontal fold near the average parallel		YES	
Face out		YES	

# AERONAUTICAL DATA

## AIR TRAFFIC SERVICE SYSTEM

CTR (Control Zone)		YES	For symbol and colours see "SYMBOLS" below
CTA (Control Area)		YES	
TMA (Terminal Area)		YES	
ATZ (Aerodrome Traffic Zone)		YES	
P (Prohibited Area)		YES	
D (Danger Area)		YES	
R (Restricted Area)		YES	
FIS (Flight Information Service)		YES	
FIR (Flight Information Region)		YES	
Natural parks		YES	
Maximum altitude of aeronautical information		YES	FL195
Table of general classification of airspace		YES	
Semicircular levels		YES	
Speed conversion table		YES	
Conversion table of distances		YES	
Graphic synthesis of air spaces		YES	

## SPECIAL AREAS

ULM activity corridors within controlled areas		YES	
Areas of military activity		YES	
UAV Military Activities		YES	
Low-altitude military flight areas		YES	

## RADIO NAVIGATION AIDS

VOR-VORDME-VORTAC		YES	
NDB		YES	
DME TACAN		YES	
NDB TACAN		YES	

## VFR

VFR routes with distance and altitude		YES	
Reporting point not compulsory		YES	Indicated in white
VFR waiting points with mandatory clearance to ATC		YES	Indicated in red
Reporting points in and out of the CTR		YES	Indicated in green
IFR reporting points		YES	

## AERODROMES, PRIVATE REGISTERED AIRFIELDS AND ULM AIRFIELDS

Civilian land Aerodrome		YES	
Military land Aerodrome		YES	
Joint Civil and Military land Aerodrome		YES	
Abandoned or closed Aerodrome		YES	
Civil Water Aerodrome		YES	
Registered Private Airfields <sup>1</sup>		YES	485 airfield not listed by Italian Aeronautical Authority and npon published on AIP Italy are located. See the Note 1 below
ULM Airfields <sup>1</sup>		YES	

## AERODROME INFORMATIONS AND SERVICES

Elevation		YES	
Runway length		YES	rounded downward
Radio frequency		YES	
Code and name		YES+	ICAO fo airport and AVIOPORTOLANO code for airfields
Type of traffic allowed		YES+	AG Aircraft, advanced ULM, ULM
Type of fuel available		YES+	mogas/Avgas/JetA1 are indicated
Services available <sup>2</sup>		YES+	

## SYMBOLS

Symbols and colors indicated by ICAO in the Annex 4 - Appendix 2 - "ICAO Charts Symbols", which define the graphic features of the contents of an Aeronautical Chart are respected by AVIOPORTOLANO in most cases. However AVIOPORTOLANO considers that the literal and impersonal application of the symbologies and colors indicated by ICAO leads - in some areas - to non-readability of Air Spaces boundaries and to non-comprehension of contents of the Aeronautical Data. For this reason some variations - about symbols and colours - have been introduced by AVIOPORTOLANO in their own Aeronautical Charts (as well as some Nations have done in their own) which are clearly indicated in the legend. For the same reason, AVIOPORTOLANO has chosen not to publish the obstacles in its 1:500,000 scale charts in order to not compromise the legibility of the topography and of the information. The obstacles are published in the approach charts at a scale more appropriate to the purpose and condition of low-level flight.

### NOTE:

1. Since 1987 Avioportolano monitors and updates by specific yearly censuses all the information regarding over 450 private landing runways which are not listed by ENAC (Ente Nazionale Aviazione Civile) and therefore are not in Italy's AIP (Aeronautical Information Publication). These censuses are supported by the Italian Ministry for Transport and Civil Aviation, the Department for the Development of Tourism, the National Tourist Agency, AOPA Italia and the Italian Aero Club. The Avioportolano Aeronautical database is protected legally by the laws on Authors' rights as prescribed by Legislative Decree no. 169 of 6 May 1999, implementing EC Directive 96/9; the official Avioportolano's Airfield and Aerodrome informations are marked by a specific Avioportolano code consisting of two letters and two numbers which can only be used by authorized companies. In the Avioportolano Aeronautical charts the position of the RWY is defined by a specific icon.

2. workshop, restaurant, overnight accomodation, swimming pool, car rental are indicated by icons

LEGENDA	
Mandatory or recommended information in the ICAO standard	
Non-mandatory information in the ICAO standard	
Information not mandatory and not included in the chart	NO
Information not included in the chart	NO
Information included in the chart	YES
Information included and increased in the chart	YES +