

## **FOREWORD**

**The forward and CC instructions will be provided at a later date**

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Significant Difference			
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

1.1.1	<p>INTERNATIONAL STANDARDS AND RECOMMENDED PRACTICES</p> <p>CHAPTER 1. DEFINITIONS, APPLICABILITY AND AVAILABILITY</p> <p><b>1.1 Definitions</b></p> <p>When the following terms are used in the Standards and Recommended Practices for aeronautical charts, they have the following meanings:</p> <p><b><i>Aerodrome.</i></b> A defined area on land or water (including any buildings, installations and equipment) intended to be used either wholly or in part for the arrival, departure and surface movement of aircraft.</p>	AIS.TR.100 Reg (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.2	<b><i>Aerodrome elevation.</i></b> The elevation of the highest point of the landing area.	Reg. 2018/1139 Art. 34(5) and CS ADR.DSN.A.002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.3	<b><i>Aerodrome operating minima.</i></b> The limits of usability of an aerodrome for:  a) take-off, expressed in terms of runway visual range and/or visibility and, if necessary, cloud conditions;	Reg. (EU) 2017/373, Table 3 of Appendix I to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p>b) landing in precision approach and landing operations, expressed in terms of visibility and/or runway visual range and decision altitude/height (DA/H) as appropriate to the category of the operation;</p> <p>c) landing in approach and landing operations with vertical guidance, expressed in terms of visibility and/or runway visual range and decision altitude/height (DA/H); and</p> <p>d) landing in non-precision approach and landing operations, expressed in terms of visibility and/or runway visual range, minimum descent altitude/height (MDA/H) and, if necessary, cloud conditions.</p>									
1.1.4	<b>Aerodrome reference point.</b> The designated geographical location of an aerodrome.	Reg. (EU) 2017/373, Table 1 of Appendix I to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.5	<b>Aeronautical chart.</b> A representation of a portion of the Earth, its culture and relief, specifically designated to meet the requirements of air navigation.	Reg. (EU) 2017/373, AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition is not transposed but the term is used with the same meaning
1.1.6	<b>Aircraft stand.</b> A designated area on an apron intended to be used for parking an aircraft.	Reg. (EU) 139/2014,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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		Annex I (10), CS ADR.DSN.A.002								
1.1.7	<b>Air defence identification zone.</b> Special designated airspace of defined dimensions within which aircraft are required to comply with special identification and/or reporting procedures additional to those related to the provision of air traffic services (ATS).	Reg. (EU) 2017/373, AIS.TR.505	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition is not transposed but the term used with the same meaning
1.1.8	<b>Air traffic service.</b> A generic term meaning variously, flight information service, alerting service, air traffic advisory service, air traffic control service (area control service, approach control service or aerodrome control service).	Reg. (EU) 923/2012, Article 2 (32)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.9	<b>Air transit route.</b> A defined route for the air transiting of helicopters.	Reg. (EU) 2018/1139 Art. 34(5) and CS HPT-DSN.A.020. Reg. (EU) 2017/373, Appendix I to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.10	<b>Airway.</b> A control area or portion thereof established in the form of a corridor.	Reg. (EU) 923/2012, art.2 (36)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.11	<b>Altitude.</b> The vertical distance of a level, a point or an object considered as a point, measured from mean sea level (MSL).	Reg. (EU) 923/2012, art.2 (39)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.12	<b>Application.</b> Manipulation and processing of data in support of user requirements (ISO 19104*).  ----- * All ISO Standards are listed at the end of this chapter.	AIS.TR.100 Reg (EU) 2017/373	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		The definition has not been transposed because it is not used on its own
1.1.13	<b>Apron.</b> A defined area, on a land aerodrome, intended to accommodate aircraft for purposes of loading or unloading passengers, mail or cargo, fuelling, parking or maintenance.	Reg. (EU) 139/2014 Art. 2 (4). CS ADR.DSN.A.002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.14	<b>Area minimum altitude (AMA).</b> The minimum altitude to be used under instrument meteorological conditions (IMC), that provides a minimum obstacle clearance	Reg. (EU) 2017/373, Table 3 of	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	within a specified area, normally formed by parallels and meridians.	Appendix I to Annex III								
1.1.15	<b>Area navigation (RNAV).</b> A method of navigation which permits aircraft operation on any desired flight path within the coverage of ground- or space-based navigation aids or within the limits of the capability of self-contained aids, or a combination of these.  <i>Note.— Area navigation includes performance-based navigation as well as other operations that do not meet the definition of performance-based navigation.</i>	Reg. (EU) 923/2012, art.2 (45)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.16	<b>Arrival routes.</b> Routes identified in an instrument approach procedure by which aircraft may proceed from the en-route phase of flight to an initial approach fix.	Reg. (EU) 2017/373, Annex XI, Section II	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition is not transposed but the term used with the same meaning
1.1.17	<b>ATS route.</b> A specified route designed for channelling the flow of traffic as necessary for the provision of air traffic services.  <i>Note 1.— The term ATS route is used to mean variously, airway, advisory route, controlled or uncontrolled route, arrival or departure route, etc.</i>	Reg. (EU) 923/2012, art.2 (46)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>Note 2.— An ATS route is defined by route specifications that include an ATS route designator, the track to or from significant points (waypoints), distance between significant points, reporting requirements and, as determined by the appropriate ATS authority, the lowest safe altitude.</i>									
1.1.18	<b>ATS surveillance system.</b> A generic term meaning variously, ADS-B, PSR, SSR or any comparable ground-based system that enables the identification of aircraft.  <i>Note.— A comparable ground-based system is one that has been demonstrated, by comparative assessment or other methodology, to have a level of safety and performance equal to or better than monopulse SSR.</i>	Reg. (EU) 2017/373, Annex I (141)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.19	<b>Bare Earth.</b> Surface of the Earth including bodies of water and permanent ice and snow, and excluding vegetation and man-made objects.	Reg. (EU) 2017/373, GM1 (101)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition is not transposed but the term used with the same meaning
1.1.20	<b>Calendar.</b> Discrete temporal reference system that provides the basis for defining temporal position to a resolution of one day (ISO 19108*).	Reg. (EU) 2017/373, ATM/ANS.OR.A.090	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition is not transposed but the term

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1.1.21	<b>Canopy.</b> Bare Earth supplemented by vegetation height.	Reg. (EU) 2017/373, GM1 (101)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition is not transposed but the term used with the same meaning
1.1.22	<b>Change-over point.</b> The point at which an aircraft navigating on an ATS route segment defined by reference to very high frequency omnidirectional radio ranges is expected to transfer its primary navigational reference from the facility behind the aircraft to the next facility ahead of the aircraft.  <i>Note.— Change-over points are established to provide the optimum balance in respect of signal strength and quality between facilities at all levels to be used and to ensure a common source of azimuth guidance for all aircraft operating along the same portion of a route segment.</i>	Reg. (EU) 923/2012, art.2 (51); Reg. (EU) 2017/373 Annex IV, GM1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.23	<b>Clearway.</b> A defined rectangular area on the ground or water under the control of the appropriate authority, selected or prepared as a suitable area over which an aeroplane may make a portion of its initial climb to a specified height.	Reg. (EU) 139/2014 Annex I Def. (15). CS ADR.DSN.A.002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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1.1.24	<b>Contour line.</b> A line on a map or chart connecting points of equal elevation.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.25	<b>Culture.</b> All man-made features constructed on the surface of the Earth, such as cities, railways and canals.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4

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1.1.26	<b>Cyclic redundancy check (CRC).</b> A mathematical algorithm applied to the digital expression of data that provides a level of assurance against loss or alteration of data.	Reg. (EU) 2017/373, Annex I (161)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.27	<b>Danger area.</b> An airspace of defined dimensions within which activities dangerous to the flight of aircraft may exist at specified times.	Regulation (EU) 2017/373, Annex I (162)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.28	<b>Data product specification.</b> Detailed description of a data set or data set series together with additional information that will enable it to be created, supplied to and used by another party (ISO 19131*).  <i>Note.— A data product specification provides a description of the universe of discourse and a specification for mapping the universe of discourse to a data set. It may be used for production, sales, end-use or other purpose.</i>	Reg. (EU) 2017/373 , Annex I (170)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.29	<b>Data quality.</b> A degree or level of confidence that the data provided meet the requirements of the data user in terms of accuracy, resolution and integrity (or equivalent assurance level), traceability, timeliness, completeness and format.	Reg. (EU) 2017/373, Annex I (41)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.30	<b>Data resolution.</b> A number of units or digits to which a measured or calculated value is expressed and used.	Reg. (EU) 2017/373, Annex I (224)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.31	<b>Data set.</b> Identifiable collection of data (ISO 19101*).	Reg. (EU) 2017/373, Annex I (171)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.32	<b>Data set series.</b> Collection of data sets sharing the same product specification (ISO 19115*).	Reg. (EU) 2017/373 Annex I, (171)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The equivalent term used is "data sets".	
1.1.33	<b>Datum.</b> Any quantity or set of quantities that may serve as a reference or basis for the calculation of other quantities (ISO 19104*).	Reg. (EU) 2017/373, Annex I (172)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.34	<b>Digital Elevation Model (DEM).</b> The representation of terrain surface by continuous elevation values at all intersections of a defined grid, referenced to common datum.	Reg. (EU) 2017/373 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been

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	<i>Note.— Digital Terrain Model (DTM) is sometimes referred to as DEM.</i>	AMC1 AIS.OR.325								transpose d, because the EU regulatory framework refers directly to Annex 4
1.1.35	<b>Displaced threshold.</b> A threshold not located at the extremity of a runway.	Reg. (EU) 2018/1139, Art. 34(5) and CS ADR.DSN.A.002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.36	<b>Electronic aeronautical chart display.</b> An electronic device by which flight crews are enabled to execute, in a convenient and timely manner, route planning, route monitoring and navigation by displaying required information.	Reg. (EU) 965/2012, SPA.EFB.100 , GM1 SPA.EFB.100 (b)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Different terms are used, such as navigation chart display, or simply display, however having the same meaning as with the definition	

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									of electronic aeronautical chart display	
1.1.37	<b>Elevation.</b> The vertical distance of a point or a level, on or affixed to the surface of the earth, measured from mean sea level.	Reg. (EU) 2017/373 Annex I (46)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.38	<b>Ellipsoid height (Geodetic height).</b> The height related to the reference ellipsoid, measured along the ellipsoidal outer normal through the point in question.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.39	<b>Feature.</b> Abstraction of real world phenomena (ISO 19101*).	Reg. (EU) 2017/373, Annex I (179)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.40	<b>Feature attribute.</b> Characteristic of a feature (ISO 19101*).  <i>Note.— A feature attribute has a name, a data type and a value domain associated with it.</i>	Reg. (EU) 2017/373, Annex I (180)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.41	<b>Final approach.</b> That part of an instrument approach procedure which commences at the specified final approach fix or point, or where such a fix or point is not specified,  a) at the end of the last procedure turn, base turn or inbound turn of a racetrack procedure, if specified; or b) at the point of interception of the last track specified in the approach procedure; and  ends at a point in the vicinity of an aerodrome from which:  1) a landing can be made; or  2) a missed approach procedure is initiated.	Reg. (EU) 2017/373, Annex I (182)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.42	<b>Final approach and take-off area (FATO).</b> A defined area over which the final phase of the approach manoeuvre to hover or landing is completed and from which the take-off manoeuvre is commenced. Where the FATO is to be used by performance Class 1 helicopters, the defined area includes the rejected take-off area available.	Reg. (EU) 2018/1139, Art. 34(5) and CS HPT-DSN.A.020	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.43	<b>Final approach fix or point.</b> That fix or point of an instrument approach procedure where the final approach segment commences.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.44	<b>Final approach segment.</b> That segment of an instrument approach procedure in which alignment and descent for landing are accomplished.	Reg. (EU) 2017/373, Table 4 of Appendix I to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.45	<b>Flight information region.</b> An airspace of defined dimensions within which flight information service and alerting service are provided.	Reg. (EU) 2017/373, Annex I (51)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.46	<p><b>Flight level.</b> A surface of constant atmospheric pressure which is related to a specific pressure datum, 1 013.2 hectopascals (hPa), and is separated from other such surfaces by specific pressure intervals.</p> <p><i>Note 1.— A pressure type altimeter calibrated in accordance with the Standard Atmosphere:</i></p> <p>a) when set to a <i>QNH</i> altimeter setting, will indicate altitude;</p> <p>b) when set to a <i>QFE</i> altimeter setting, will indicate height above the <i>QFE</i> reference datum;</p> <p>c) when set to a pressure of 1 013.2 hPa, may be used to indicate flight levels.</p> <p><i>Note 2.— The terms “height” and “altitude”, used in Note 1 above, indicate altimetric rather than geometric heights and altitudes.</i></p>	Reg. (EU) 2017/373, Annex I (52)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.47	<p><b>Geodesic distance.</b> The shortest distance between any two points on a mathematically defined ellipsoidal surface.</p>	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers



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										directly to Annex 4
1.1.48	<b>Geodetic datum.</b> A minimum set of parameters required to define location and orientation of the local reference system with respect to the global reference system/frame.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.49	<b>Geoid.</b> The equipotential surface in the gravity field of the Earth which coincides with the undisturbed mean sea level (MSL) extended continuously through the continents.  <i>Note.— The geoid is irregular in shape because of local gravitational disturbances (wind tides, salinity, current, etc.) and the direction of gravity is perpendicular to the geoid at every point.</i>	Reg. (EU) 2017/373, Annex I (190)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.50	<b>Geoid undulation.</b> The distance of the geoid above (positive) or below (negative) the mathematical reference ellipsoid.	Reg. (EU) 2017/373, Annex I (191)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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	<i>Note.— In respect to the World Geodetic System — 1984 (WGS-84) defined ellipsoid, the difference between the WGS-84 ellipsoidal height and orthometric height represents WGS-84 geoid undulation.</i>									
1.1.51	<b>Glide path.</b> A descent profile determined for vertical guidance during a final approach.	Reg. (EU) 2017/373, Annex I (192)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.52	<b>Gregorian calendar.</b> Calendar in general use; first introduced in 1582 to define a year that more closely approximates the tropical year than the Julian calendar (ISO 19108*).  <i>Note.— In the Gregorian calendar, common years have 365 days and leap years 366 days divided into twelve sequential months.</i>	Reg. (EU) 2017/373, Annex III, ATM/ANS.OR.A.090 (c)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition is not transposed but the term used with the same meaning
1.1.53	<b>Height.</b> The vertical distance of a level, a point or an object considered as a point, measured from a specified datum.	Reg. (EU) 2017/373, Annex I (62)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.54	<b>Helicopter stand.</b> An aircraft stand which provides for parking a helicopter and where ground taxi operations are completed or where the helicopter touches down and lifts off for air taxi operations.	Reg. (EU) 2018/1139 Art. 34(5) and	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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		CS HPT-DSN.A.020								
1.1.55	<b>Heliport.</b> An aerodrome or a defined area on a structure intended to be used wholly or in part for the arrival, departure and surface movement of helicopters.	Reg. (EU) 2017/373, Annex I (195)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.56	<b>Heliport reference point (HRP).</b> The designated location of a heliport or a landing location.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.57	<b>Holding procedure.</b> A predetermined manoeuvre which keeps an aircraft within a specified airspace while awaiting further clearance.	Reg. (EU) 2017/373, Annex I (199)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.58	<b>Hot spot.</b> A location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.	Reg. (EU) 2018/1139 Art. 34(5) and CS.ADR.DS N.A.002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.59	<b>Human Factors principles.</b> Principles which apply to aeronautical design, certification, training, operations and maintenance and which seek safe interface between the human and other system components by proper consideration to human performance.	Reg. (EU) 139/2014 Annex I (20)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.60	<b>Hypsometric tints.</b> A succession of shades or colour gradations used to depict ranges of elevation.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.61	<b>Initial approach segment.</b> That segment of an instrument approach procedure between the initial approach fix and the intermediate approach fix or, where applicable, the final approach fix or point.	Reg. (EU) 2017/373, GM1 Annex IV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.62	<b>Instrument approach procedure.</b> A series of predetermined manoeuvres by reference to flight instruments with specified protection from obstacles from the initial approach fix, or where applicable, from the beginning of a defined arrival route to a point from which a landing can be completed and thereafter, if a landing is not completed, to a position at which holding or en-route obstacle clearance criteria apply.	Reg. (EU) 2017/373, Annex I (204)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.63	<b>Integrity classification (aeronautical data).</b> Classification based upon the potential risk resulting from the use of corrupted data. Aeronautical data is classified as:  a) routine data: there is a very low probability when using corrupted routine data that the continued safe flight and landing of an aircraft would be severely at risk with the potential for catastrophe;  b) essential data: there is a low probability when using corrupted essential data that the continued safe flight and landing of an aircraft would be severely at risk with the potential for catastrophe; and  c) critical data: there is a high probability when using corrupted critical data that the continued safe flight and landing of an aircraft would be severely at risk with the potential for catastrophe.	Reg. (EU) 2017/373, Annex I (196); GM1 (196) to Annex I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.64	<b>Intermediate approach segment.</b> That segment of an instrument approach procedure between either the intermediate approach fix and the final approach fix or point, or between the end of a reversal, racetrack or dead reckoning track procedure and the final approach fix or point, as appropriate.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.65	<b>Intermediate holding position.</b> A designated position intended for traffic control at which taxiing aircraft and vehicles shall stop and hold until further cleared to proceed, when so instructed by the aerodrome control tower.	Reg. (EU) 2018/1139 Art. 34(5) and CS ADR-DSN.A.002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.66	<b>Isogonal.</b> A line on a map or chart on which all points have the same magnetic variation for a specified epoch.	Reg. (EU) 2017/373 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has

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		AMC1 AIS.OR.325								not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.67	<b>Isogriv.</b> A line on a map or chart which joins points of equal angular difference between the North of the navigation grid and Magnetic North.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.68	<b>Landing area.</b> That part of a movement area intended for the landing or take-off of aircraft.	Reg. (EU) 2017/373, GM1 Annex IV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.69	<b>Landing direction indicator.</b> A device to indicate visually the direction currently designated for landing and for take-off.	Reg. (EU) 2017/373, Table 1, Appendix 1 to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.70	<b>Level.</b> A generic term relating to the vertical position of an aircraft in flight and meaning variously, height, altitude or flight level.	Reg. (EU) 2017/373, Annex I (63)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.71	<b>Logon address.</b> A specified code used for data link logon to an ATS unit.	Reg. (EU) 2017/373, Table 3, Appendix 1 to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.72	<b>Magnetic variation.</b> The angular difference between True North and Magnetic North.  <i>Note.— The value given indicates whether the angular difference is East or West of True North.</i>	Reg. (EU) 2017/373, Table 1, Appendix 1 to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.73	<b>Manoeuvring area.</b> That part of an aerodrome to be used for the take-off, landing and taxiing of aircraft, excluding aprons.	Reg. (EU) 2017/373, Annex I (207)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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1.1.74	<b>Marking.</b> A symbol or group of symbols displayed on the surface of the movement area in order to convey aeronautical information.	Reg. (EU) 139/2014 Annex I (31)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.75	<b>Metadata.</b> Data about data (ISO 19115*).  <i>Note.— Data that describes and documents data.</i>	Reg. (EU) 2017/373, Annex I (208)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.76	<b>Minimum en-route altitude (MEA).</b> The altitude for an en-route segment that provides adequate reception of relevant navigation facilities and ATS communications, complies with the airspace structure and provides the required obstacle clearance.	Reg. (EU) 2017/373, Table 3, Appendix 1 to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.77	<b>Minimum obstacle clearance altitude (MOCA).</b> The minimum altitude for a defined segment of flight that provides the required obstacle clearance.	Reg. (EU) 2017/373, Table 3, Appendix 1 to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.78	<b>Minimum sector altitude (MSA).</b> The lowest altitude which may be used which will provide a minimum clearance of 300 m (1 000 ft) above all objects located in an area contained within a sector of a circle of 46 km (25 NM) radius centred on a	Reg. (EU) 2017/373, Annex I (72)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	significant point, the aerodrome reference point (ARP) or the heliport reference point (HRP).									
1.1.79	<b>Missed approach point (MAPt).</b> That point in an instrument approach procedure at or before which the prescribed missed approach procedure must be initiated in order to ensure that the minimum obstacle clearance is not infringed.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.80	<b>Missed approach procedure.</b> The procedure to be followed if the approach cannot be continued.	Reg. (EU) 2017/373 Annex I (182); GM2 to AMC2 ATS.TR.155(c)(3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition is not transposed but the term used with the same meaning
1.1.81	<b>Movement area.</b> That part of an aerodrome to be used for the take-off, landing and taxiing of aircraft, consisting of the manoeuvring area and the apron(s).	Reg. (EU) 2017/373, Annex I (209)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.82	<p><b>Navigation specification.</b> A set of aircraft and flight crew requirements needed to support performance-based navigation operations within a defined airspace. There are two kinds of navigation specifications:</p> <p><i>Required navigation performance (RNP) specification.</i> A navigation specification based on area navigation that includes the requirement for performance monitoring and alerting, designated by the prefix RNP, e.g. RNP 4, RNP APCH.</p> <p><i>Area navigation (RNAV) specification.</i> A navigation specification based on area navigation that does not include the requirement for performance monitoring and alerting, designated by the prefix RNAV, e.g. RNAV 5, RNAV 1.</p> <p><i>Note 1.— The Performance-based Navigation (PBN) Manual (Doc 9613), Volume II, contains detailed guidance on navigation specifications.</i></p> <p><i>Note 2.— The term RNP, previously defined as “a statement of the navigation performance necessary for operation within a defined airspace”, has been removed from this Annex as the concept of RNP has been overtaken by the concept of PBN. The term RNP in this Annex is now solely used in the context of navigation specifications that require performance monitoring and alerting, e.g. RNP 4 refers to the aircraft and operating</i></p>	Reg. (EU) 2017/373, Table 4, Appendix 1 to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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	<i>requirements, including a 4 NM lateral performance with on-board performance monitoring and alerting that are detailed in Doc 9613.</i>									
1.1.83	<p><b>Obstacle.</b> All fixed (whether temporary or permanent) and mobile objects, or parts thereof, that:</p> <p>a) are located on an area intended for the surface movement of aircraft; or</p> <p>b) extend above a defined surface intended to protect aircraft in flight; or</p> <p>c) stand outside those defined surfaces and that have been assessed as being a hazard to air navigation.</p> <p><i>Note.— The term obstacle is used in this Annex solely for the purpose of specifying the charting of objects that are considered a potential hazard to the safe passage of aircraft in the type of operation for which the individual chart series is designed.</i></p>	Reg. (EU) 2017/373, Annex I (74)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.84	<p><b>Obstacle clearance altitude (OCA) or obstacle clearance height (OCH).</b> The lowest altitude or the lowest height above the elevation of the relevant runway threshold or the aerodrome elevation as applicable, used in establishing compliance with appropriate obstacle clearance criteria.</p> <p><i>Note 1.— Obstacle clearance altitude is referenced to mean sea level and obstacle clearance height is referenced to the threshold elevation or in the</i></p>	Reg. (EU) 2017/373, GM1 Annex IV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p><i>case of non-precision approaches to the aerodrome elevation or the threshold elevation if that is more than 2 m (7 ft) below the aerodrome elevation. An obstacle clearance height for a circling approach is referenced to the aerodrome elevation.</i></p> <p><i>Note 2.— For convenience when both expressions are used they may be written in the form “obstacle clearance altitude/height” and abbreviated “OCA/H”.</i></p> <p><i>Note 3.— See Procedures for Air Navigation Services — Aircraft Operations (Doc 8168), Volume I, Part I, Section 4, Chapter 1, 1.5, and Volume II, Part I, Section 4, Chapter 5, 5.4, for specific applications of this definition.</i></p>									
1.1.85	<b>Obstacle free zone (OFZ).</b> The airspace above the inner approach surface, inner transitional surfaces, and balked landing surface and that portion of the strip bounded by these surfaces, which is not penetrated by any fixed obstacle other than a low-mass and frangibly mounted one required for air navigation purposes.	Reg. (EU) 2018/1139 Art. 34(5) and CS ADR-DSN.A.002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.86	<b>Orthometric height.</b> Height of a point related to the geoid, generally presented as an MSL elevation.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU

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										regulatory framework refers directly to Annex 4
1.1.87	<b>Performance-based navigation (PBN).</b> Area navigation based on performance requirements for aircraft operating along an ATS route, on an instrument approach procedure or in a designated airspace.  <i>Note.— Performance requirements are expressed in navigation specifications (RNAV specification, RNP specification) in terms of accuracy, integrity, continuity, availability and functionality needed for the proposed operation in the context of a particular airspace concept.</i>	Reg. (EU) 2018/1048, article 2 (1) and Reg. (EU) 965/2012 article 2 (5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.88	<b>Point light.</b> A luminous signal appearing without perceptible length.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly

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1.1.89	<b>Portrayal.</b> Presentation of information to humans (ISO 19117*).	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.90	<b>Position (geographical).</b> Set of coordinates (latitude and longitude) referenced to the mathematical reference ellipsoid which define the position of a point on the surface of the Earth.	Reg. (EU) 2017/373, Annex I (214)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.91	<b>Precision approach procedure.</b> An instrument approach procedure utilizing azimuth and glide path information provided by ILS or PAR.	Reg. (EU) 2017/373, Annex I (204)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.92	<b>Procedure altitude/height.</b> A published altitude/height used in defining the vertical profile of a flight	Reg. (EU) 2017/373,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	procedure, at or above the minimum obstacle clearance altitude/height where established.	GM1 to Section V								
1.1.93	<p><b>Procedure turn.</b> A manoeuvre in which a turn is made away from a designated track followed by a turn in the opposite direction to permit the aircraft to intercept and proceed along the reciprocal of the designated track.</p> <p><i>Note 1.— Procedure turns are designated “left” or “right” according to the direction of the initial turn.</i></p> <p><i>Note 2.— Procedure turns may be designated as being made either in level flight or while descending, according to the circumstances of each individual procedure.</i></p>	Reg. (EU) 2017/373, GM1 to Annex IV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.94	<p><b>Prohibited area.</b> An airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is prohibited.</p>	Reg. (EU) 2017/373, Annex I (219)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.95	<p><b>Relief.</b> The inequalities in elevation of the surface of the Earth represented on aeronautical charts by contours, hypsometric tints, shading or spot elevations.</p>	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory



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				Level of implementation of SARPs						
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										ry framewo rk refers directly to Annex 4
1.1.96	<p><b>Reporting point.</b> A specified (named) geographical location in relation to which the position of an aircraft can be reported.</p> <p><i>Note.— There are three categories of reporting points: ground-based navigation aid, intersection and waypoint. In the context of this definition, intersection is a significant point expressed as radials, bearings and/or distances from ground-based navigation aids. A reporting point can be indicated as “on request” or as “compulsory”.</i></p>	Reg. (EU) 2017/373, GM1 to Annex IV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definitio n has not been tranpose d, because the EU regulato ry framewo rk refers directly to Annex 4
1.1.97	<p><b>Restricted area.</b> An airspace of defined dimensions, above the land areas or territorial waters of a State, within which the flight of aircraft is restricted in accordance with certain specified conditions.</p>	Reg. (EU) 2017/373, Annex I (225)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.98	<p><b>Reversal procedure.</b> A procedure designed to enable aircraft to reverse direction during the initial approach segment of an instrument approach procedure. The sequence may include procedure turns or base turns.</p>	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definitio n has not been tranpose

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										d, because the EU regulatory framework refers directly to Annex 4
1.1.99	<b>Runway.</b> A defined rectangular area on a land aerodrome prepared for the landing and take-off of aircraft.	Reg. (EU) 2017/373, Annex I (86)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.100	<b>Runway-holding position.</b> A designated position intended to protect a runway, an obstacle limitation surface, or an ILS/MLS critical/sensitive area at which taxiing aircraft and vehicles shall stop and hold, unless otherwise authorized by the aerodrome control tower.  <i>Note.— In radiotelephony phraseologies, the expression “holding point” is used to designate the runway-holding position.</i>	Reg. (EU) 2017/373, GM1 Annex IV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.101	<b>Runway strip.</b> A defined area including the runway and stopway, if provided, intended:  a) to reduce the risk of damage to aircraft running off a runway; and	Reg. (EU) 2017/373, GM1 Annex IV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	b) to protect aircraft flying over it during take-off or landing operations.									
1.1.102	<b>Runway visual range (RVR).</b> The range over which the pilot of an aircraft on the centre line of a runway can see the runway surface markings or the lights delineating the runway or identifying its centre line.	Reg. (EU) 2017/373, Annex I (87)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.103	<b>Shoulder.</b> An area adjacent to the edge of a pavement so prepared as to provide a transition between the pavement and the adjacent surface.	Reg. (EU) 2018/1139 Art. 34(5) and CS ADR.DSN.A.002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.104	<b>Significant point.</b> A specified geographical location used in defining an ATS route or the flight path of an aircraft and for other navigation and ATS purposes.  <i>Note.— There are three categories of significant points: ground-based navigation aid, intersection and waypoint. In the context of this definition, intersection is a significant point expressed as radials, bearings and/or distances from ground-based navigation aids.</i>	Reg. (EU) 2017/373, Annex I (232)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.105	<b>Stopway.</b> A defined rectangular area on the ground at the end of take-off run available prepared as a suitable area in which an aircraft can be stopped in the case of an abandoned take-off.	Reg. (EU) 2017/373, GM1 Annex IV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.106	<b>Taxiing.</b> Movement of an aircraft on the surface of an aerodrome under its own power, excluding take-off and landing.	Reg. (EU) 2017/373, Annex I (237)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.107	<b>Taxi-route.</b> A defined path established for the movement of helicopters from one part of a heliport to another. A taxi-route includes a helicopter air or ground taxiway which is centred on the taxi-route.	Reg. (EU) 2017/373, Table 1, Appendix 1 to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.108	<b>Taxiway.</b> A defined path on a land aerodrome established for the taxiing of aircraft and intended to provide a link between one part of the aerodrome and another, including:  a) <i>Aircraft stand taxilane.</i> A portion of an apron designated as a taxiway and intended to provide access to aircraft stands only.  b) <i>Apron taxiway.</i> A portion of a taxiway system located on an apron and intended to provide a through taxi route across the apron.  c) <i>Rapid exit taxiway.</i> A taxiway connected to a runway at an acute angle and designed to allow landing aeroplanes to turn off at higher speeds than	Regulation (EU) 2017/373, Annex I (238)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	are achieved on other exit taxiways thereby minimizing runway occupancy times.									
1.1.109	<b>Terminal arrival altitude (TAA).</b> The lowest altitude that will provide a minimum clearance of 300 m (1 000 ft) above all objects located in an arc of a circle defined by a 46 km (25 NM) radius centred on the initial approach fix (IAF), or where there is no IAF on the intermediate approach fix (IF), delimited by straight lines joining the extremity of the arc to the IF. The combined TAAs associated with an approach procedure shall account for an area of 360 degrees around the IF.	Reg. (EU) 2017/373, Table 4, Appendix 1 to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.110	<b>Terrain.</b> The surface of the Earth containing naturally occurring features such as mountains, hills, ridges, valleys, bodies of water, permanent ice and snow, and excluding obstacles.  <i>Note.— In practical terms, depending on the method of data collection, terrain represents the continuous surface that exists at the bare Earth, the top of the canopy or something in-between, also known as “first reflective surface”.</i>	Reg. (EU) 2017/373, Annex I (101)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.111	<b>Threshold.</b> The beginning of that portion of the runway usable for landing.	Regulation (EU) 2017/373, Annex I (102)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.112	<b>Touchdown and lift-off area (TLOF).</b> A load bearing area on which a helicopter may touch down or lift off.	Reg. (EU) 2017/373, Table 1, Appendix 1 to Annex III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.113	<b>Touchdown zone.</b> The portion of a runway, beyond the threshold, where it is intended landing aeroplanes first contact the runway.	Reg. (EU) 2017/373, GM1 Annex IV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.114	<b>Track.</b> The projection on the earth's surface of the path of an aircraft, the direction of which path at any point is usually expressed in degrees from North (true, magnetic or grid).	Reg. (EU) 2017/373, Annex I (242)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.115	<b>Transition altitude.</b> The altitude at or below which the vertical position of an aircraft is controlled by reference to altitudes.	Reg. (EU) 2017/373, Annex I (246)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.1.116	<b>Vectoring.</b> Provision of navigational guidance to aircraft in the form of specific headings, based on the use of an ATS surveillance system.	Reg. (EU) 2017/373, Annex I (253)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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1.1.117	<b>Visual approach procedure.</b> A series of predetermined manoeuvres by visual reference, from the initial approach fix, or where applicable, from the beginning of a defined arrival route to a point from which a landing can be completed and thereafter, if a landing is not completed, a go-around procedure can be carried out.	Reg. (EU) 2017/373 AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		The definition has not been transposed, because the EU regulatory framework refers directly to Annex 4
1.1.118	<b>Waypoint.</b> A specified geographical location used to define an area navigation route or the flight path of an aircraft employing area navigation. Waypoints are identified as either:  <i>Fly-by waypoint.</i> A waypoint which requires turn anticipation to allow tangential interception of the next segment of a route or procedure; or  <i>Flyover waypoint.</i> A waypoint at which a turn is initiated in order to join the next segment of a route or procedure.	Reg. (EU) 2017/373, Annex I (259)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.2.1	<b>1.2 Applicability</b>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	1.2.1 The specifications in this Annex are applicable on and after 19 November 2009.  <i>Note.— Chapter 2, 2.4.4, and Chapter 5 are applicable on and after 18 November 2010.</i>	Reg. (EU) 2017/373								
1.2.2	1.2.2 All charts coming within the scope of this Annex and bearing the aeronautical information date of 19 November 2009 or later shall conform to the Standards relevant to the particular chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.2.2.1	1.2.2.1 <b>Recommendation.</b> — <i>All such charts should in addition conform to the Recommended Practices relevant to the particular chart.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.3.1	<b>1.3 Availability</b>  1.3.1 <i>Information.</i> A Contracting State shall on request by another Contracting State provide all information relating to its own territory that is necessary to enable the Standards of this Annex to be met.	AIS.OR.105, Reg. (EU) 2017/373	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS providers are required to exchange information with all other AIS providers	
1.3.2	1.3.2 <i>Charts.</i> Contracting States shall, when so specified, ensure the availability of charts in whichever of	AIS.TR.100 Reg (EU)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify	



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	the following ways is appropriate for a particular chart or single sheet of a chart series.  <i>Note.— The availability of charts includes specified electronic charts.</i>	2017/373							which charts have to be produced and be made available in a State	
1.3.2.1	1.3.2.1 For any chart or single sheet of a chart series entirely contained within the territory of a Contracting State, the State having jurisdiction over the territory shall either:  a) produce the chart or sheet itself; or  b) arrange for its production by another Contracting State or by an agency; or  c) provide another Contracting State prepared to accept an obligation to produce the chart or sheet with the data necessary for its production.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.3.2.2	1.3.2.2 For any chart or single sheet of a chart series which includes the territory of two or more Contracting States, the States having jurisdiction over the territory so included shall determine the manner in which the chart or sheet will be made available. This determination shall be made with due regard being given to regional air navigation agreements and to any programme of allocation established by the Council of ICAO.	AIS.TR.100 Reg. (EU) 2017/373	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not transposed	

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	<i>Note.— The phrase “regional air navigation agreements” refers to the agreements approved by the Council of ICAO normally on the advice of regional air navigation meetings.</i>									
1.3.3	1.3.3 A Contracting State shall take all reasonable measures to ensure that the information it provides and the aeronautical charts made available are adequate and accurate and that they are maintained up to date by an adequate revision service.	AIS.OR.325, AMC1 AIS.OR.325, and ATM/ANS.A R.C.010 of Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.3.4	1.3.4 <b>Recommendation.</b> — <i>To improve worldwide dissemination of information on new charting techniques and production methods, appropriate charts produced by Contracting States should be made available without charge to other Contracting States on request on a reciprocal basis.</i>  <i>Note.— Guidance material on the preparation of aeronautical charts, including sample formats, is contained in the Aeronautical Chart Manual (Doc 8697).</i>  * ISO Standard 19101, <i>Geographic information — Reference model</i> 19104, <i>Geographic information — Terminology</i> 19108, <i>Geographic information — Temporal schema</i> 19115, <i>Geographic information — Metadata</i> 19117, <i>Geographic information — Portrayal</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AMC1 AIS.OR. 325 refers directly to the specifications contained in ICAO Annex 4 with regard to chart production only.

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	19131, <i>Geographic information — Data product specifications</i>									
2.1.1	<p>CHAPTER 2. GENERAL SPECIFICATIONS</p> <p><i>Note.— The Standards and Recommended Practices contained in this chapter are applicable to all ICAO aeronautical charts unless otherwise stated in the specifications of the chart concerned.</i></p> <p><b>2.1 Operational requirements for charts</b></p> <p><i>Note.— For the purposes of this Annex, the total flight is divided into the following phases:</i></p> <p><i>Phase 1 — Taxi from aircraft stand to take-off point</i></p> <p><i>Phase 2 — Take-off and climb to en-route ATS route structure</i></p> <p><i>Phase 3 — En-route ATS route structure</i></p> <p><i>Phase 4 — Descent to approach</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p><i>Phase 5 — Approach to land and missed approach</i></p> <p><i>Phase 6 — Landing and taxi to aircraft stand.</i></p> <p>2.1.1 Each type of chart shall provide information relevant to the function of the chart and its design shall observe Human Factors principles which facilitate its optimum use.</p> <p><i>Note.— Guidance material on the application of Human Factors principles can be found in the Human Factors Training Manual (Doc 9683).</i></p>									
2.1.2	2.1.2 Each type of chart shall provide information appropriate to the phase of flight to ensure the safe and expeditious operation of the aircraft.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.1.3	2.1.3 The presentation of information shall be accurate, free from distortion and clutter, unambiguous, and be readable under all normal operating conditions.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.1.4	2.1.4 Colours or tints and type size used shall be such that the chart can be easily read and interpreted	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	by the pilot in varying conditions of natural and artificial light.	Reg. (EU) 2017/373								
2.1.5	2.1.5 The information shall be in a form which enables the pilot to acquire it in a reasonable time consistent with workload and operating conditions.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.1.6	2.1.6 The presentation of information provided on each type of chart shall permit smooth transition from chart to chart as appropriate to the phase of flight.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.1.7	2.1.7 <b>Recommendation.</b> — <i>The charts should be True North orientated.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.1.8	2.1.8 <b>Recommendation.</b> — <i>The basic sheet size of the charts should be 210 × 148 mm (8.27 × 5.82 in) (A5).</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.2	<b>2.2 Titles</b>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	The title of a chart or chart series prepared in accordance with the specifications contained in this Annex and intended to satisfy the function of the chart shall be that of the relevant chapter heading as modified by application of any Standard contained therein, except that such title shall not include “ICAO” unless the chart conforms with all Standards specified in this Chapter 2 and any specified for the particular chart.	Reg. (EU) 2017/373								
2.3.1	<b>2.3 Miscellaneous information</b>  2.3.1 The marginal note layout shall be as given in Appendix 1, except as otherwise specified for a particular chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.3.2	2.3.2 The following information shall be shown on the face of each chart unless otherwise stated in the specification of the chart concerned:  a) designation or title of the chart series;  <i>Note.— The title may be abbreviated.</i>  b) name and reference of the sheet;  c) on each margin an indication of the adjoining sheet (when applicable).	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.3.3	2.3.3 A legend to the symbols and abbreviations used shall be provided. The legend shall be	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	on the face or reverse of each chart except that, where it is impracticable for reasons of space, a legend may be published separately.	AIS.OR.325, Reg. (EU) 2017/373								
2.3.4	2.3.4 The name and adequate address of the producing agency shall be shown in the margin of the chart except that, where the chart is published as part of an aeronautical document, this information may be placed in the front of that document.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.4.1	<b>2.4 Symbols</b>  2.4.1 Symbols used shall conform to those shown in Appendix 2 — ICAO Chart Symbols, except that where it is desired to show on an aeronautical chart special features or items of importance to civil aviation for which no ICAO symbol is at present provided, any appropriate symbol may be chosen for this purpose, provided that it does not cause confusion with any existing ICAO chart symbol or impair the legibility of the chart.  <i>Note.— The size and prominence of symbols and the thickness and spacing of lines may be varied according to the scale and functions of the chart, with due regard to the importance of the information they convey.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.4.2	2.4.2 To represent ground-based navigation aids, intersections and waypoints, the same basic symbol	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	shall be used on all charts on which they appear, regardless of chart purpose.	AIS.OR.325, Reg. (EU) 2017/373								
2.4.3	2.4.3 The symbol used for significant points shall be based on a hierarchy of symbols and selected in the following order: ground-based navigation aid, intersection, waypoint symbol. A waypoint symbol shall be used only when a particular significant point does not already exist as either a ground-based navigation aid or intersection.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.4.4	2.4.4 States shall ensure that as of 18 November 2010, symbols are shown in the manner specified in 2.4.2, 2.4.3 and Appendix 2 — ICAO Chart Symbols, symbol number 121.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.4.5	2.4.5 <b>Recommendation.</b> — <i>States should ensure that symbols are shown in the manner specified in 2.4.2, 2.4.3 and Appendix 2 — ICAO Chart Symbols, symbol number 121.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.5.1	<b>2.5 Units of measurement</b>  2.5.1 Distances shall be derived as geodesic distances.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



Annex Reference & SARP Identifier	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
	AERONAUTICAL CHARTS -		No	Yes			Sigini ficant Difference			
				Level of implementation of SARPs						
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Annex Standard or Recommended Practice										
2.5.2	2.5.2 Distances shall be expressed in either kilometres or nautical miles or both, provided the units are clearly differentiated.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.5.3	2.5.3 Altitudes, elevations and heights shall be expressed in either metres or feet or both, provided the units are clearly differentiated.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.5.4	2.5.4 Linear dimensions on aerodromes and short distances shall be expressed in metres.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.5.5	2.5.5 The order of resolution of distances, dimensions, elevations and heights shall be that as specified for a particular chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.5.6	2.5.6 The units of measurement used to express distances, altitudes, elevations and heights shall be conspicuously stated on the face of each chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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2.5.7	2.5.7 Conversion scales (kilometres/nautical miles, metres/feet) shall be provided on each chart on which distances, elevations or altitudes are shown. The conversion scales shall be placed on the face of each chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.6.1	<b>2.6 Scale and projection</b>  2.6.1 For charts of large areas, the name and basic parameters and scale of the projection shall be indicated.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.6.2	2.6.2 For charts of small areas, a linear scale only shall be indicated.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.7	<b>2.7 Date of validity of aeronautical information</b>  The date of validity of aeronautical information shall be clearly indicated on the face of each chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.8.1	<b>2.8 Spelling of geographical names</b>	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	2.8.1 The symbols of the Roman alphabet shall be used for all writing.	AIS.OR.325, Reg. (EU) 2017/373								
2.8.2	2.8.2 The names of places and of geographical features in countries which officially use varieties of the Roman alphabet shall be accepted in their official spelling, including the accents and diacritical marks used in the respective alphabets.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.8.3	2.8.3 Where a geographical term such as “cape”, “point”, “gulf”, “river” is abbreviated on any particular chart, that word shall be spelt out in full in the language used by the publishing agency, in respect of the most important example of each type. Punctuation marks shall not be used in abbreviations within the body of a chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.8.4	2.8.4 <b>Recommendation.</b> — <i>In areas where romanized names have not been officially produced or adopted, and outside the territory of Contracting States, names should be transliterated from the non-Roman alphabet form by the system generally used by the producing agency.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.9.1	<b>2.9 Abbreviations</b>  2.9.1 Abbreviations shall be used on aeronautical charts whenever they are appropriate.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
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2.9.2	<b>2.9.2 Recommendation.</b> — <i>Where applicable, abbreviations should be selected from the Procedures for Air Navigation Services — ICAO Abbreviations and Codes (Doc 8400).</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.10.1	<b>2.10 Political boundaries</b>  2.10.1 International boundaries shall be shown, but may be interrupted if data more important to the use of the chart would be obscured.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.10.2	2.10.2 Where the territory of more than one State appears on a chart, the names identifying the countries shall be indicated.  <i>Note.— In the case of a dependent territory, the name of the sovereign State may be added in brackets.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.11.1	<b>2.11 Colours</b>  <b>Recommendation.</b> — <i>Colours used on charts should conform to Appendix 3 — Colour Guide.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.12.1	<b>2.12 Relief</b>	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p>2.12.1 Relief, where shown, shall be portrayed in a manner that will satisfy the chart users' need for:</p> <ul style="list-style-type: none"> <li>a) orientation and identification;</li> <li>b) safe terrain clearance;</li> <li>c) clarity of aeronautical information when shown;</li> <li>d) planning.</li> </ul> <p><i>Note.— Relief is usually portrayed by combinations of contours, hypsometric tints, spot elevations and hill shading, the choice of method being affected by the nature and scale of the chart and its intended use.</i></p>	AIS.OR.325, Reg. (EU) 2017/373								
2.12.2	<p>2.12.2 <b>Recommendation.</b>— Where relief is shown by hypsometric tints, the tints used should be based on those shown in the Hypsometric Tint Guide in Appendix 4.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.12.3	<p>2.12.3 Where spot elevations are used, they shall be shown for selected critical points.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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2.12.3.1	2.12.3.1 The value of spot elevations of doubtful accuracy shall be followed by the sign $\pm$ .	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.13	<b>2.13 Prohibited, restricted and danger areas</b>  When prohibited, restricted or danger areas are shown, the reference or other identification shall be included, except that the nationality letters may be omitted.  <i>Note.— Nationality letters are those contained in Doc 7910 — Location Indicators.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.14.1	<b>2.14 Air traffic services airspaces</b>  2.14.1 When ATS airspace is shown on a chart, the class of airspace, the type, name or call sign, the vertical limits and the radio frequency(ies) to be used shall be indicated and the horizontal limits depicted in accordance with Appendix 2 — ICAO Chart Symbols.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.14.2	2.14.2 <b>Recommendation.</b> — <i>On charts used for visual flight, those parts of the ATS Airspace Classes table (Appendix 4) in Annex 11 applicable to the airspace depicted on the chart should be on the face or reverse of each chart.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.15.1	<b>2.15 Magnetic variation</b>	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	2.15.1 True North and magnetic variation shall be indicated. The order of resolution of magnetic variation shall be that as specified for a particular chart.	AIS.OR.325, Reg. (EU) 2017/373								
2.15.2	<p>2.15.2 <b>Recommendation.</b>— <i>When magnetic variation is shown on a chart, the values shown should be those for the year nearest to the date of publication that is divisible by 5, i.e. 1980, 1985, etc. In exceptional cases where the current value would be more than one degree different, after applying the calculation for annual change, an interim date and value should be quoted.</i></p> <p><i>Note.— The date and the annual change may be shown.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.15.3	2.15.3 <b>Recommendation.</b> — <i>For instrument procedure charts, the publication of a magnetic variation change should be completed within a maximum of six AIRAC cycles.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.15.4	2.15.4 <b>Recommendation.</b> — <i>In large terminal areas with multiple aerodromes, a single rounded value of magnetic variation should be applied so that the procedures that service multiple aerodromes use a single, common variation value.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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2.16	<b>2.16 Typography</b>  <i>Note.— Samples of type suitable for use on aeronautical charts are included in the Aeronautical Chart Manual (Doc 8697).</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		This paragraph contains only a note.
2.17.1	<b>2.17 Aeronautical data</b>  2.17.1 Each Contracting State shall take all necessary measures to introduce a properly organized quality system containing procedures, processes and resources necessary to implement quality management at each function stage as outlined in Annex 15, 3.6. The execution of such quality management shall be made demonstrable for each function stage, when required. In addition, States shall ensure that established procedures exist in order that aeronautical data at any moment is traceable to its origin so to allow any data anomalies or errors, detected during the production/maintenance phases or in the operational use, to be corrected.  <i>Note.— Specifications governing the quality system are given in Annex 15, Chapter 3.</i>	Reg (EU) 2017/373, ATM/ANS.O R.B.005, ATM/ANS.O R.A.085	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.17.2	2.17.2 States shall ensure that the chart resolution of aeronautical data shall be that as specified for a particular chart.  <i>Note.— Specifications concerning the chart resolution for aeronautical data are contained in PANS-AIM (Doc 10066), Appendix 1.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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Annex Standard or Recommended Practice										
2.17.3	<p>2.17.3 Contracting States shall ensure that integrity of aeronautical data is maintained throughout the data process from origination to distribution to the next intended user.</p> <p><i>Note.— Specifications concerning the integrity classification related to aeronautical data are provided in PANS-AIM (Doc 10066), Appendix 1.</i></p>	Reg. (EU) 2017/373, ATM/ANS.O R.085, AIS.TR.200	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.17.4	<p>2.17.4 Digital data error detection techniques shall be used during the transmission and/or storage of aeronautical data and digital data sets.</p> <p><i>Note.— Detailed specifications concerning digital data error detection techniques are contained in PANS-AIM (Doc 10066).</i></p>	Reg. (EU) 2017/373, ATM/ANS.O R.085, AIS.TR.200	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.18.1.1	<p><b>2.18 Common reference systems</b></p> <p>2.18.1 Horizontal reference system</p> <p>2.18.1.1 World Geodetic System — 1984 (WGS-84) shall be used as the horizontal (geodetic) reference system. Published aeronautical geographical coordinates (indicating latitude and longitude) shall be expressed in terms of the WGS-84 geodetic reference datum.</p>	Reg. (EU) 2017/373, ATM/ANS.O R.A.090	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>Note.— Comprehensive guidance material concerning WGS-84 is contained in the World Geodetic System — 1984 (WGS-84) Manual (Doc 9674).</i>									
2.18.1.2	2.18.1.2 Geographical coordinates which have been transformed into WGS-84 coordinates but whose accuracy of original field work does not meet the requirements in Annex 11, Chapter 2, and Annex 14, Volumes I and II, Chapter 2, shall be identified by an asterisk.	GM2 ATM/ANS.O R.A.090(a), Reg. (EU) 2017/373	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The specification has been transposed as guidance	
2.18.1.3	2.18.1.3 The chart resolution of geographical coordinates shall be that specified for a particular chart series.  <i>Note 1.— Specifications concerning the determination and reporting (accuracy of field work and data integrity) of WGS-84-related aeronautical coordinates for geographical positions established by air traffic services are given in Annex 11, Chapter 2; and for aerodrome/heliport-related positions, in Annex 14, Volumes I and II, Chapter 2.</i>  <i>Note 2.— Specifications concerning the accuracy and integrity classification of WGS-84-related aeronautical data are contained in PANS-AIM (Doc 10066), Appendix 1.</i>	Reg. (EU) 2017/373, AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.18.2.1	2.18.2 Vertical reference system  2.18.2.1 Mean sea level (MSL) datum, which gives the relationship of gravity-related height (elevation)	Reg. (EU) 2017/373, ATM/ANS.O R.A.090	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Sigini ficant Differ ence			
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>to a surface known as the geoid, shall be used as the vertical reference system.</p> <p><i>Note 1.— The geoid globally most closely approximates MSL. It is defined as the equipotential surface in the gravity field of the Earth that coincides with the undisturbed MSL extended continuously through the continents.</i></p> <p><i>Note 2.— Gravity-related heights (elevations) are also referred to as orthometric heights while distances of points above the ellipsoid are referred to as ellipsoidal heights.</i></p>									
2.18.2.2	<p>2.18.2.2 In addition to the elevations referenced to MSL, for the specific surveyed ground positions, geoid undulation (referenced to the WGS-84 ellipsoid) for those positions shall also be published as specified for a particular chart.</p> <p><i>Note 1.— Specifications concerning the determination and reporting (accuracy of field work and data integrity) of elevation and geoid undulation at specific positions at aerodromes/heliports are given in Annex 14, Volumes I and II, Chapter 2.</i></p> <p><i>Note 2.— Specifications concerning the accuracy and integrity classification of elevation and geoid undulation at specific positions at aerodromes/heliports are contained in PANS-AIM (Doc 10066), Appendix 1.</i></p>	Reg. (EU) 2017/373, AIS.OR.325, AMC1 AIS.OR.325	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

2.18.2.3	2.18.2.3 The chart resolution of elevation and geoid undulation shall be that specified for a particular chart series.  <i>Note.— Specifications concerning the chart resolution of elevation and geoid undulation are contained in PANS-AIM (Doc 10066), Appendix 1.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.18.3.1	2.18.3 Temporal reference system  2.18.3.1 The Gregorian calendar and Coordinated Universal Time (UTC) shall be used as the temporal reference system.	ATM/ANS.O R.A.090, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.18.3.2	2.18.3.2 When a different temporal reference system is used for charting, this shall be indicated in GEN 2.1.2 of the Aeronautical Information Publication (AIP).	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.1	CHAPTER 3. AERODROME OBSTACLE CHART — ICAO TYPE A (OPERATING LIMITATIONS)  <b>3.1 Function</b>  This chart, in combination with the relevant information published in the AIP, shall provide the data necessary to enable an operator to comply with the operating	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	limitations of Annex 6, Part I, Chapter 5, and Part III, Section II, Chapter 3.									
3.2.1	<b>3.2 Availability</b>  3.2.1 Aerodrome Obstacle Charts — ICAO Type A (Operating Limitations) shall be made available in the manner prescribed in 1.3.2 for all aerodromes regularly used by international civil aviation, except for those aerodromes where there are no obstacles in the take-off flight path areas or where the Aerodrome Terrain and Obstacle Chart — ICAO (Electronic) is provided in accordance with Chapter 5.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which charts have to be produced and be made available in a State	
3.2.2	3.2.2 Where a chart is not required because no obstacles exist in the take-off flight path area, a notification to this effect shall be published in the AIP.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.3.1	<b>3.3 Units of measurement</b>  3.3.1 Elevations shall be shown to the nearest half-metre or to the nearest foot.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.3.2	3.3.2 Linear dimensions shall be shown to the nearest half-metre.	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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		AIS.OR.325, Reg. (EU) 2017/373								
3.4.1	<b>3.4 Coverage and scale</b>  3.4.1 The extent of each plan shall be sufficient to cover all obstacles.  <i>Note.— Isolated distant obstacles that would unnecessarily increase the sheet size may be indicated by the appropriate symbol and an arrow, provided that the distance and bearing from the end of the runway farthest removed and the elevation are given.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.4.2	3.4.2 The horizontal scale shall be within the range of 1:10 000 to 1:15 000.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.4.3	3.4.3 <b>Recommendation.</b> — <i>The horizontal scale should be 1:10 000.</i>  <i>Note.— When the production of the charts would be expedited thereby, a scale of 1:20 000 may be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.4.4	3.4.4 The vertical scale shall be ten times the horizontal scale.	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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		Reg. (EU) 2017/373								
3.4.5	3.4.5 <i>Linear scales.</i> Horizontal and vertical linear scales showing both metres and feet shall be included in the charts.	AIS.TR.100 Reg (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.5.1	<b>3.5 Format</b>  3.5.1 The charts shall depict a plan and profile of each runway, any associated stopway or clearway, the take-off flight path area and obstacles.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.5.2	3.5.2 The profile for each runway, stopway, clearway and the obstacles in the take-off flight path area shall be shown above its corresponding plan. The profile of an alternative take-off flight path area shall comprise a linear projection of the full take-off flight path and shall be disposed above its corresponding plan in the manner most suited to the ready interpretation of the information.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.5.3	3.5.3 A profile grid shall be ruled over the entire profile area exclusive of the runway. The zero for vertical coordinates shall be mean sea level. The zero for horizontal coordinates shall be the end of the runway furthest from the take-off flight path area concerned. Graduation marks indicating the sub-divisions of intervals	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	shall be shown along the base of the grid and along the vertical margins.									
3.5.3.1	<b>3.5.3.1 Recommendation.</b> — <i>The vertical grid should have intervals of 30 m (100 ft) and the horizontal grid should have intervals of 300 m (1 000 ft).</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.5.4	<b>3.5.4</b> The chart shall include:  a) a box for recording the operational data specified in 3.8.3;  b) a box for recording amendments and dates thereof.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.6	<b>3.6 Identification</b>  The chart shall be identified by the name of the country in which the aerodrome is located, the name of the city or town or area which the aerodrome serves, the name of the aerodrome and the designator(s) of the runway(s).	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.7	<b>3.7 Magnetic variation</b>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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	The magnetic variation to the nearest degree and date of information shall be indicated.	Reg. (EU) 2017/373								
3.8.1.1	<p><b>3.8 Aeronautical data</b></p> <p><b>3.8.1 Obstacles</b></p> <p>3.8.1.1 Objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area shall be regarded as obstacles, except that obstacles lying wholly below the shadow of other obstacles as defined in 3.8.1.2 need not be shown. Mobile objects such as boats, trains and trucks, which may project above the 1.2 per cent plane, shall be considered obstacles but shall not be considered as being capable of creating a shadow.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.8.1.2	3.8.1.2 The shadow of an obstacle is considered to be a plane surface originating at a horizontal line passing through the top of the obstacle at right angles to the centre line of the take-off flight path area. The plane covers the complete width of the take-off flight path area and extends to the plane defined in 3.8.1.1 or to the next higher obstacle if it occurs first. For the first 300 m (1 000 ft) of the take-off flight path area, the shadow planes are horizontal and beyond this point such planes have an upward slope of 1.2 per cent.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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3.8.1.3	3.8.1.3 If the obstacle creating a shadow is likely to be removed, objects that would become obstacles by its removal shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.8.2.1	<p>3.8.2 Take-off flight path area</p> <p>3.8.2.1 The take-off flight path area consists of a quadrilateral area on the surface of the earth lying directly below, and symmetrically disposed about, the take-off flight path. This area has the following characteristics:</p> <p>a) it commences at the end of the area declared suitable for take-off (i.e. at the end of the runway or clearway as appropriate);</p> <p>b) its width at the point of origin is 180 m (600 ft) and this width increases at the rate of 0.25D to a maximum of 1 800 m (6 000 ft), where D is the distance from the point of origin;</p> <p>c) it extends to the point beyond which no obstacles exist or to a distance of 10.0 km (5.4 NM), whichever is the lesser.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.8.2.2	3.8.2.2 For runways serving aircraft having operating limitations which do not preclude the use of a take-off flight path gradient of less than 1.2 per cent, the extent of the take-off flight path area specified in 3.8.2.1 c) shall be increased to not less than 12.0 km (6.5 NM)	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	and the slope of the plane surface specified in 3.8.1.1 and 3.8.1.2 shall be reduced to 1.0 per cent or less.  <i>Note.— When a 1.0 per cent survey plane touches no obstacles, this plane may be lowered until it touches the first obstacle.</i>									
3.8.3.1	<p>3.8.3 Declared distances</p> <p>3.8.3.1 The following information for each direction of each runway shall be entered in the space provided:</p> <p>a) take-off run available;</p> <p>b) accelerate-stop distance available;</p> <p>c) take-off distance available;</p> <p>d) landing distance available.</p> <p><i>Note.— In Annex 14, Volume I, Attachment A, Section 3, guidance is given on declared distances.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.8.3.2	<p>3.8.3.2 <b>Recommendation.</b>— Where a declared distance is not provided because a runway is usable in one direction only, that runway should be identified as “not usable for take-off, landing or both”.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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3.8.4.1	<p>3.8.4 Plan and profile views</p> <p>3.8.4.1 The plan view shall show:</p> <p>a) the outline of the runways by a solid line, including the length and width, the magnetic bearing to the nearest degree, and the runway number;</p> <p>b) the outline of the clearways by a broken line, including the length and identification as such;</p> <p>c) take-off flight path areas by a dashed line and the centre line by a fine line consisting of short and long dashes;</p> <p>d) alternative take-off flight path areas. When alternative take-off flight path areas not centred on the extension of the runway centre line are shown, notes shall be provided explaining the significance of such areas;</p> <p>e) obstacles, including:</p> <p>1) the exact location of each obstacle together with a symbol indicative of its type;</p> <p>2) the elevation and identification of each obstacle;</p> <p>3) the limits of penetration of obstacles of large extent in a distinctive manner identified in the legend.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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	<i>Note.— This does not exclude the necessity for indicating critical spot elevations within the take-off flight path area.</i>									
3.8.4.1.1	3.8.4.1.1 <b>Recommendation.</b> — <i>The nature of the runway and stopway surfaces should be indicated.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.8.4.1.2	3.8.4.1.2 <b>Recommendation.</b> — <i>Stopways should be identified as such and should be shown by a broken line.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.8.4.1.3	3.8.4.1.3 When stopways are shown, the length of each stopway shall be indicated.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.8.4.2	3.8.4.2 The profile view shall show:  a) the profile of the centre line of the runway by a solid line and the profile of the centre line of any associated stopways and clearways by a broken line;  b) the elevation of the runway centre line at each end of the runway, at the stopway and at the	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p>origin of each take-off flight path area, and at each significant change in slope of runway and stopway;</p> <p>c) obstacles, including:</p> <p>1) each obstacle by a solid vertical line extending from a convenient grid line over at least one other grid line to the elevation of the top of the obstacle;</p> <p>2) identification of each obstacle;</p> <p>3) the limits of penetration of obstacles of large extent in a distinctive manner identified in the legend.</p> <p><i>Note.— An obstacle profile consisting of a line joining the tops of each obstacle and representing the shadow created by successive obstacles may be shown.</i></p>									
3.9.1	<p><b>3.9 Accuracy</b></p> <p>3.9.1 The order of accuracy attained shall be shown on the chart.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.9.2	<p><b>3.9.2 Recommendation.</b>— <i>The horizontal dimensions and the elevations of the runway, stopway and clearway to be printed on the chart should be determined to the nearest 0.5 m (1 ft).</i></p>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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		Reg. (EU) 2017/373								
3.9.3	<p><b>3.9.3 Recommendation.</b>— <i>The order of accuracy of the field work and the precision of chart production should be such that measurements in the take-off flight path areas can be taken from the chart within the following maximum deviations:</i></p> <p><i>a) horizontal distances: 5 m (15 ft) at a point of origin increasing at a rate of 1 per 500;</i></p> <p><i>b) vertical distances: 0.5 m (1.5 ft) in the first 300 m (1 000ft) and increasing at a rate of 1 per 1 000.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.9.4	<p><b>3.9.4 Datum.</b> Where no accurate datum for vertical reference is available, the elevation of the datum used shall be stated and shall be identified as assumed.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.1	<p>CHAPTER 4. AERODROME OBSTACLE CHART — ICAO TYPE B</p> <p><b>4.1 Function</b></p> <p>This chart shall provide information to satisfy the following functions:</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>a) the determination of minimum safe altitudes/heights including those for circling procedures;</p> <p>b) the determination of procedures for use in the event of an emergency during take-off or landing;</p> <p>c) the application of obstacle clearing and marking criteria; and</p> <p>d) the provision of source material for aeronautical charts.</p>									
4.2.1	<p><b>4.2 Availability</b></p> <p><b>4.2.1 Recommendation.</b>— <i>Aerodrome Obstacle Charts — ICAO Type B should be made available, in the manner prescribed in 1.3.2, for all aerodromes regularly used by international civil aviation except for those aerodromes where the Aerodrome Terrain and Obstacle Chart — ICAO (Electronic) is provided in accordance with Chapter 5.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR. 325 does not specify which charts have to be produced and be made available in a State
4.2.2	<p>4.2.2 When a chart combining the specifications of Chapters 3 and 4 is made available, it shall be called the Aerodrome Obstacle Chart — ICAO (Comprehensive).</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

4.3.1	<b>4.3 Units of measurement</b>  4.3.1 Elevations shall be shown to the nearest half-metre or to the nearest foot.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.3.2	4.3.2 Linear dimensions shall be shown to the nearest half-metre.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.4.1	<b>4.4 Coverage and scale</b>  4.4.1 The extent of each plan shall be sufficient to cover all obstacles.  <i>Note.— Isolated distant obstacles that would unnecessarily increase the sheet size may be indicated by the appropriate symbol and an arrow, provided that the distance and bearing from the aerodrome reference point and elevation are given.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.4.2	4.4.2 The horizontal scale shall be within the range of 1:10 000 to 1:20 000.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
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4.4.3	4.4.3 A horizontal linear scale showing both metres and feet shall be included in the chart. When necessary, a linear scale for kilometres and a linear scale for nautical miles shall also be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.5	<p><b>4.5 Format</b></p> <p>The charts shall include:</p> <p>a) any necessary explanation of the projection used;</p> <p>b) any necessary identification of the grid used;</p> <p>c) a notation indicating that obstacles are those which penetrate the surfaces specified in Annex 14, Volume I, Chapter 4;</p> <p>d) a box for recording amendments and dates thereof; and</p> <p>e) outside the neat line, every minute of latitude and longitude marked in degrees and minutes.</p> <p><i>Note.— Lines of latitude and longitude may be shown across the face of the chart.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
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4.6	<b>4.6 Identification</b>  The chart shall be identified by the name of the country in which the aerodrome is located, the name of the city or town or area which the aerodrome serves, and the name of the aerodrome.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.7.1	<b>4.7 Culture and topography</b>  4.7.1 Drainage and hydrographic details shall be kept to a minimum.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.7.2	4.7.2 Buildings and other salient features associated with the aerodrome shall be shown. Wherever possible, they shall be shown to scale.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.7.3	4.7.3 All objects, either cultural or natural, that project above the take-off and approach surfaces specified in 4.9 or the clearing and marking surfaces specified in Annex 14, Volume I, Chapter 4, shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.7.4	4.7.4 Roads and railroads within the take-off and approach area, and less than 600 m (2 000 ft) from	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	the end of the runway or runway extensions, shall be shown.  <i>Note.— Geographical names of features may be shown if of significance.</i>	AIS.OR.325, Reg. (EU) 2017/373								
4.8	<b>4.8 Magnetic variation</b>  The chart shall show a compass rose orientated to the True North, or a North point, showing the magnetic variation to the nearest degree with the date of magnetic information and annual change.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.9.1	<b>4.9 Aeronautical data</b>  4.9.1 The charts shall show:  a) the aerodrome reference point and its geographical coordinates in degrees, minutes and seconds; b) the outline of the runways by a solid line;  c) the length and width of the runway;  d) the magnetic bearing to the nearest degree of the runway and the runway number;	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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				A) More Exactin- g or Exceed- s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>e) the elevation of the runway centre line at each end of the runway, at the stopway, at the origin of each take-off and approach area, and at each significant change of slope of runway and stopway;</p> <p>f) taxiways, aprons and parking areas identified as such, and the outlines by a solid line;</p> <p>g) stopways identified as such and depicted by a broken line;</p> <p>h) the length of each stopway;</p> <p>i) clearways identified as such and depicted by a broken line;</p> <p>j) the length of each clearway;</p> <p>k) take-off and approach surfaces identified as such and depicted by a broken line;</p> <p>l) take-off and approach areas;</p> <p><i>Note.— The take-off area is described in 3.8.2.1. The approach area consists of an area on the surface of the earth lying directly below the approach surface as specified in Annex 14, Volume I, Chapter 4.</i></p> <p>m) obstacles at their exact location, including:</p>									
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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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	<p>1) a symbol indicative of their type;</p> <p>2) elevation;</p> <p>3) identification;</p> <p>4) limits of penetration of large extent in a distinctive manner identified in the legend;</p> <p><i>Note.— This does not exclude the necessity for indicating critical spot elevations within the take-off and approach areas.</i></p> <p>n) any additional obstacles, as determined by 3.8.1.1 including the obstacles in the shadow of an obstacle, which would otherwise be exempted.</p> <p><i>Note.— The specifications in Annex 14, Volume I, Chapter 4, are minimum requirements. Where the competent authority has established lower surfaces, they may be used in the determination of obstacles.</i></p>									
4.9.1.1	4.9.1.1 <b>Recommendation.</b> — <i>The nature of the runway and stopway surfaces should be given.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.9.1.2	4.9.1.2 <b>Recommendation.</b> — <i>Wherever practicable, the highest object or obstacle between adjacent approach areas within a radius of 5 000 m</i>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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	<i>(15 000 ft) from the aerodrome reference point should be indicated in a prominent manner.</i>	Reg. (EU) 2017/373								
4.9.1.3	<b>4.9.1.3 Recommendation.</b> — <i>The extent of tree areas and relief features, part of which constitute obstacles, should be shown.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.10.1	<b>4.10 Accuracy</b>  4.10.1 The order of accuracy attained shall be shown on the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.10.2	<b>4.10.2 Recommendation.</b> — <i>The horizontal dimensions and the elevations of the movement area, stopways and clearways to be printed on the chart should be determined to the nearest 0.5 m (1 ft).</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.10.3	<b>4.10.3 Recommendation.</b> — <i>The order of accuracy of the field work and the precision of chart production should be such that the resulting data will be within the maximum deviations indicated herein:</i>  a) <i>Take-off and approach areas:</i>  1) <i>horizontal distances: 5 m (15 ft) at point of origin increasing at a rate of 1 per 500;</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>2) vertical distances: 0.5 m (1.5 ft) in the first 300 m (1 000 ft) and increasing at a rate of 1 per 1 000.</p> <p>b) Other areas:</p> <p>1) horizontal distances: 5 m (15 ft) within 5 000 m (15 000 ft) of the aerodrome reference point and 12 m (40 ft) beyond that area;</p> <p>2) vertical distances: 1 m (3 ft) within 1 500 m (5 000 ft) of the aerodrome reference point increasing at a rate of 1 per 1 000.</p>									
4.10.4	4.10.4 Datum. Where no accurate datum for vertical reference is available, the elevation of the datum used shall be stated and identified as assumed.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.1	<p>CHAPTER 5. AERODROME TERRAIN AND OBSTACLE CHART — ICAO (ELECTRONIC)</p> <p><b>5.1 Function</b></p> <p>This electronic chart shall portray the terrain and obstacle data in combination with aeronautical data, as appropriate, necessary to:</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.	



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	<p>a) enable an operator to comply with the operating limitations of Annex 6, Part I, Chapter 5, and Part III, Section II, Chapter 3, by developing contingency procedures for use in the event of an emergency during a missed approach or take-off, and by performing aircraft operating limitations analysis; and</p> <p>b) support the following air navigation applications:</p> <p>1) instrument procedure design (including circling procedure);</p> <p>2) aerodrome obstacle restriction and removal; and</p> <p>3) provision of source data for the production of other aeronautical charts.</p>									
5.2.1	<p><b>5.2 Availability</b></p> <p>5.2.1 From 12 November 2015, Aerodrome Terrain and Obstacle Charts — ICAO (Electronic) shall be made available in the manner prescribed in 1.3.2 for aerodromes regularly used by international civil aviation.</p> <p><i>Note 1.— Where the Aerodrome Terrain and Obstacle Chart — ICAO (Electronic) is made available, the Aerodrome Obstacle Chart — ICAO Type A (Operating Limitations) and the Aerodrome Obstacle</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
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	<p><i>Chart — ICAO Type B are not required (see 3.2.1 and 4.2.1).</i></p> <p><i>Note 2.— The information required by the Precision Approach Terrain Chart — ICAO may be provided in the Aerodrome Terrain and Obstacle Chart — ICAO (Electronic). Where this occurs, the Precision Approach Terrain Chart — ICAO is not required (see 6.2.1).</i></p>									
5.2.2	<p><b>5.2.2 Recommendation.—</b> <i>Aerodrome Terrain and Obstacle Charts — ICAO (Electronic) should be made available in the manner prescribed in 1.3.2 for all aerodromes regularly used by international civil aviation.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.
5.2.3	<p><b>5.2.3</b> The Aerodrome Terrain and Obstacle Chart — ICAO (Electronic) shall also be made available in hard copy format upon request.</p> <p><i>Note.— For specifications regarding hard copy printed output, see 5.7.7.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production/publication of the	

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
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				Level of implementation of SARPs						
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									electronic aerodrome terrain and obstacle chart.	
5.2.4	<p>5.2.4 The ISO 19100 series of standards for geographic information shall be used as a general data modelling framework.</p> <p><i>Note.— The use of the ISO 19100 series of standards for geographic information supports the interchange and use of the Aerodrome Terrain and Obstacle Chart — ICAO (Electronic) among different users.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publicatio n of the electronic aerodrome terrain and obstacle chart.	
5.3	<p><b>5.3 Identification</b></p> <p>Electronic charts shall be identified by the name of the country in which the aerodrome is located, the name of the city or town which the aerodrome serves, and the name of the aerodrome.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publicatio n of the electronic aerodrome terrain and obstacle chart.	
5.4	<p><b>5.4 Chart coverage</b></p> <p>The extent of each chart shall be sufficient to cover Area 2 as specified in Annex 15, Chapter 5.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publicatio n of the	

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Significant Difference			
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

									electronic aerodrome terrain and obstacle chart.	
5.5.1.1	<p><b>5.5 Chart content</b></p> <p><b>5.5.1 General</b></p> <p>5.5.1.1 When developing computer graphic applications that are used to portray features on the chart, the relationships between features, feature attributes, and the underlying spatial geometry and associated topological relationships shall be specified by an application schema. Portrayed information shall be provided on the basis of portrayal specifications applied according to defined portrayal rules. Portrayal specifications and portrayal rules shall not be part of the data set. Portrayal rules shall be stored in a portrayal catalogue which shall make reference to separately stored portrayal specifications.</p> <p><i>Note.— ISO Standard 19117 contains a definition of the schema describing the portrayal mechanism of feature-based geographic information, while ISO Standard 19109 contains rules for application schema. Spatial geometry and associated topological relationships are defined in ISO Standard 19107.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.	
5.5.1.2	5.5.1.2 Symbols used to portray features shall be in accordance with 2.4 and Appendix 2 — ICAO Chart Symbols.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the	

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
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									production/publication of the electronic aerodrome terrain and obstacle chart.	
5.5.2.1	<p>5.5.2 Terrain feature</p> <p>5.5.2.1 The terrain feature, and associated attributes, to be portrayed and database-linked to the chart shall be based on the terrain data sets which satisfy the requirements of Annex 15, Chapter 5.</p> <p><i>Note.— Specifications concerning terrain data sets are contained in PANS-AIM (Doc 10066), Chapter 5 and Appendices 1, 6 and 8.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.	
5.5.2.2	<p>5.5.2.2 The terrain feature shall be portrayed in a manner that provides an effective general impression of a terrain. This shall be a representation of terrain surface by continuous elevation values at all intersections of the defined grid, also known as the Digital Elevation Model (DEM).</p> <p><i>Note.— In accordance with Annex 15, Chapter 5 and PANS-AIM (Doc 10066), Chapter 5 and Appendices 1 and 8, the DEM for Area 2 post spacing (grid) is specified at 1 arc second (approximately 30 m).</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.	

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	AERONAUTICAL CHARTS -		No	Yes			Sigini ficant Difference			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				
Annex Standard or Recommended Practice										
5.5.2.3	5.5.2.3 <b>Recommendation.</b> — <i>Representation of terrain surface should be provided as a selectable layer of contour lines in addition to the DEM.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR. 325 does not foresee the producti on/publi cation of the electroni c aerodro me terrain and obstacle chart.
5.5.2.4	5.5.2.4 <b>Recommendation.</b> — <i>An ortho-rectified image which matches the features on the DEM with features on the overlying image should be used to enhance the DEM. The image should be provided as a separate selectable layer.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR. 325 does not foresee the producti on/publi cation of the electroni c aerodro me terrain and

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

										obstacle chart.
5.5.2.5	<p>5.5.2.5 The portrayed terrain feature shall be linked to the following associated attributes in the database(s):</p> <p>a) horizontal positions of grid points in geographic coordinates and elevations of the points;</p> <p>b) surface type;</p> <p>c) contour line values, if provided; and</p> <p>d) names of cities, towns and other prominent topographic features.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.	
5.5.2.6	<p>5.5.2.6 <b>Recommendation.</b>— <i>Additional terrain attributes provided in the database(s) should be linked to the portrayed terrain feature.</i></p> <p><i>Note.— Specifications concerning terrain attributes are contained in PANS-AIM (Doc 10066), Appendix 6, Table A6-1.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

5.5.3.1	<p>5.5.3 Obstacle features</p> <p>5.5.3.1 Obstacle features, and associated attributes, portrayed or database-linked to the chart shall be based on obstacle data sets which satisfy the requirements of Annex 15, Chapter 5.</p> <p><i>Note.— Specifications concerning obstacle data sets are contained in PANS-AIM (Doc 10066), Chapter 5 and Appendices 1, 6 and 8.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	
5.5.3.2	<p>5.5.3.2 Each obstacle shall be portrayed by an appropriate symbol and obstacle identifier.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	
5.5.3.3	<p>5.5.3.3 The portrayed obstacle feature shall be linked to the following associated attributes in the database(s):</p> <p>a) horizontal position in geographic coordinates and associated elevation;</p> <p>b) obstacle type; and</p> <p>c) obstacle extent, if appropriate.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	



	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Significant Difference			
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

5.5.3.4	<p><b>5.5.3.4 Recommendation.</b>— <i>Additional obstacle attributes provided in the database(s) should be linked to the portrayed obstacle feature.</i></p> <p><i>Note.</i>— <i>Specifications concerning obstacle attributes are contained in PANS-AIM (Doc 10066), Appendix 6, Table A6-2.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.
5.5.4.1	<p><b>5.5.4 Aerodrome features</b></p> <p><b>5.5.4.1</b> Aerodrome features, and associated attributes, portrayed and database-linked to the chart shall be based on aerodrome data which satisfy the requirements of Annex 15, Chapter 5.</p> <p><i>Note.</i>— <i>Specifications concerning aerodrome features and associated attributes are contained in PANS-AIM (Doc 10066), Chapter 5 and Appendix 1.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.	
5.5.4.2	<p><b>5.5.4.2</b> The following aerodrome features shall be portrayed by an appropriate symbol:</p> <p>a) aerodrome reference point;</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production/publication	

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigi nifi cant Differ ence			
				Level of implementation of SARPs						
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>b) runway(s), with designation numbers, and if available, stopway(s) and clearway(s); and</p> <p>c) taxiways, aprons, large buildings and other prominent aerodrome features.</p>								n of the electronic aerodrome terrain and obstacle chart.	
5.5.4.3	<p>5.5.4.3 The portrayed aerodrome feature shall be linked to the following associated attributes in the database(s):</p> <p>a) geographical coordinates of the aerodrome reference point;</p> <p>b) aerodrome magnetic variation, year of information and annual change;</p> <p><i>Note.— Magnetic variation may be database-linked to the aerodrome reference point.</i></p> <p>c) length and width of runway(s), stopway(s) and clearway(s);</p> <p>d) type of surface of runway(s) and stopway(s);</p> <p>e) magnetic bearings of the runway(s) to the nearest degree;</p> <p>f) elevations at each end of runway(s), stopway(s) and clearway(s), and at each significant change in slope of runway(s) and stopway(s);</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	g) declared distances for each runway direction, or the abbreviation “NU” where a runway direction cannot be used for take-off or landing or both.  <i>Note.— Annex 14, Volume I, Attachment A, provides guidance on declared distances.</i>									
5.5.5	5.5.5 Radio navigation aid features  Each radio navigation aid feature located within the chart coverage shall be portrayed by an appropriate symbol.  <i>Note.— Navigation aid feature attributes may be linked to the portrayed navigation aid features in the database(s).</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.	
5.6.1	<b>5.6 Accuracy and resolution</b>  5.6.1 The order of accuracy of aeronautical, terrain and obstacle data shall be in accordance with its intended use.  <i>Note.— Specifications concerning the accuracy of aeronautical, terrain and obstacle data are contained in the PANS-AIM (Doc 10066), Appendix 1.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.	
5.6.2	5.6.2 The aeronautical, terrain and obstacle data resolution shall be commensurate with the actual data accuracy.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the	

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<i>Note.— Specifications concerning the order of resolution for aeronautical, terrain and obstacle data are provided in the PANS-AIM (Doc 10066), Appendix 1.</i>									production/publication of the electronic aerodrome terrain and obstacle chart.	
5.7.1	<b>5.7 Electronic functionality</b>  5.7.1 It shall be possible to vary the scale at which the chart is viewed. Symbols and text size shall vary with chart scale to enhance readability.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.	
5.7.2	5.7.2 Information on the chart shall be geo-referenced, and it shall be possible to determine cursor position to at least the nearest second.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.	
5.7.3	5.7.3 The chart shall be compatible with widely available desktop computer hardware, software and media.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR.325 does not foresee the	

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
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				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

									production /publication of the electronic aerodrome terrain and obstacle chart.	
5.7.4	5.7.4 <b>Recommendation.</b> — <i>The chart should include its own “reader” software.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR.325 does not foresee the production/publication of the electronic aerodrome terrain and obstacle chart.
5.7.5	5.7.5 It shall not be possible to remove information from the chart without an authorized update.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production /publication of the electronic aerodrome	

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

									terrain and obstacle chart.	
5.7.6	<p>5.7.6 When, due to congestion of information, the details necessary to support the function of the chart cannot be shown with sufficient clarity on a single comprehensive chart view, selectable information layers shall be provided to allow for the customized combination of information.</p> <p><i>Note.— An electronic chart format with user-selectable information layers is the preferred method of presentation for most aerodrome features.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	
5.7.7	<p>5.7.7 It shall be possible to print the chart in hard copy format according to the content specifications and scale determined by the user.</p> <p><i>Note 1.— Printed output may consist of “tiled” sheets or specific selected areas according to user requirements.</i></p> <p><i>Note 2.— Feature attribute information available through database link may be supplied separately on appropriately referenced sheets.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	
5.8.1	<p><b>5.8 Chart data product specifications</b></p> <p>5.8.1 A comprehensive statement of the data sets comprising the chart shall be provided in the form of data product specifications on which basis air navigation</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publication	

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
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	users will be able to evaluate the chart data product and determine whether it fulfils the requirements for its intended use (application).								n of the electronic aerodrome terrain and obstacle chart.	
5.8.2	<p>5.8.2 The chart data product specifications shall include an overview, a specification scope, a data product identification, data content information, the reference systems used, the data quality requirements, and information on data capture, data maintenance, data portrayal, data product delivery, as well as any additional information available, and metadata.</p> <p><i>Note.— ISO Standard 19131 specifies the requirements and outline of data product specifications for geographic information.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	
5.8.3	<p>5.8.3 The overview of the chart data product specifications shall provide an informal description of the product and shall contain general information about the data product. The specification scope of the chart data product specifications shall contain the spatial (horizontal) extent of the chart coverage. The chart data product identification shall include the title of the product, a brief narrative summary of the content and purpose, and a description of the geographic area covered by the chart.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	
5.8.4	<p>5.8.4 The data content of the chart data product specifications shall clearly identify the type of coverage and/or imagery and shall provide a narrative description of each.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.32 5 does not foresee the production	

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	<i>Note.— ISO Standard 19123 contains schema for coverage geometry and functions.</i>								/publication of the electronic aerodrome terrain and obstacle chart.	
5.8.5	<p>5.8.5 The chart data product specifications shall include information that defines the reference systems used. This shall include the spatial reference system (horizontal and vertical) and, if appropriate, temporal reference system. The chart data product specifications shall identify the data quality requirements. This shall include a statement on acceptable conformance quality levels and corresponding data quality measures. This statement shall cover all the data quality elements and data quality sub-elements, even if only to state that a specific data quality element or sub-element is not applicable.</p> <p><i>Note.— ISO Standard 19113 contains quality principles for geographic information while ISO Standard 19114 covers quality evaluation procedures.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	
5.8.6	<p>5.8.6 The chart data product specifications shall include a data capture statement which shall be a general description of the sources and of processes applied for the capture of chart data. The principles and criteria applied in the maintenance of the chart shall also be provided in the chart data product specifications, including the frequency with which the chart product is updated. Of particular importance shall be the maintenance information of obstacle data sets included on</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production /publication of the electronic aerodrome terrain and	



	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	the chart and an indication of the principles, methods and criteria applied for obstacle data maintenance.								obstacle chart.	
5.8.7	5.8.7 The chart data product specifications shall contain information on how data are portrayed on the chart, as detailed in 5.5.1.1. The chart data product specifications shall also contain data product delivery information which shall include delivery formats and delivery medium information.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	
5.8.8	5.8.8 The core chart metadata elements shall be included in the chart data product specifications. Any additional metadata items required to be supplied shall be stated in the product specifications together with the format and encoding of the metadata.  <i>Note 1.— ISO Standard 19115 specifies requirements for geographic information metadata.</i>  <i>Note 2.— The chart data product specifications document the chart data product which is implemented as data set. Those data sets are described by metadata.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not foresee the production /publication of the electronic aerodrome terrain and obstacle chart.	
6.1	CHAPTER 6. PRECISION APPROACH TERRAIN CHART — ICAO	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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	<p><b>6.1 Function</b></p> <p>The chart shall provide detailed terrain profile information within a defined portion of the final approach so as to enable aircraft operating agencies to assess the effect of the terrain on decision height determination by the use of radio altimeters.</p>	AIS.OR.325, Reg. (EU) 2017/373								
6.2.1	<p><b>6.2 Availability</b></p> <p>6.2.1 The Precision Approach Terrain Chart — ICAO shall be made available for all precision approach runways Categories II and III at aerodromes used by international civil aviation, except where the requisite information is provided in the Aerodrome Terrain and Obstacle Chart — ICAO (Electronic) in accordance with Chapter 5.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which charts have to be produced and be made available in a State	
6.2.2	<p>6.2.2 The Precision Approach Terrain Chart — ICAO shall be revised whenever any significant change occurs.</p>	AIS.TR.100 Reg (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.3.1	<p><b>6.3 Scale</b></p>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<b>6.3.1 Recommendation.</b> — <i>The horizontal scale should be 1:2 500, and the vertical scale 1:500.</i>	Reg. (EU) 2017/373								
6.3.2	<b>6.3.2 Recommendation.</b> — <i>When the chart includes a profile of the terrain to a distance greater than 900 m (3 000 ft) from the runway threshold, the horizontal scale should be 1:5 000.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.4	<b>6.4 Identification</b>  The chart shall be identified by the name of the country in which the aerodrome is located, the name of the city or town or area which the aerodrome serves, the name of the aerodrome and the designator of the runway.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.5.1	<b>6.5 Plan and profile information</b>  6.5.1 The chart shall include:  a) a plan showing contours at 1 m (3 ft) intervals in the area 60 m (200 ft) on either side of the extended centre line of the runway, to the same distance as the profile, the contours to be related to the runway threshold;  b) an indication where the terrain or any object thereon, within the plan defined in a), differs by $\pm 3$	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	m (10 ft) in height from the centre line profile and is likely to affect a radio altimeter;  c) a profile of the terrain to a distance of 900 m (3 000 ft) from the threshold along the extended centre line of the runway.									
6.5.2	<b>6.5.2 Recommendation.</b> — <i>Where the terrain at a distance greater than 900 m (3 000 ft) from the runway threshold is mountainous or otherwise significant to users of the chart, the profile of the terrain should be shown to a distance not exceeding 2 000 m (6 500 ft) from the runway threshold.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.5.3	<b>6.5.3 Recommendation.</b> — <i>The ILS reference datum height should be shown to the nearest half metre or foot.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.1	CHAPTER 7. ENROUTE CHART — ICAO  <b>7.1 Function</b>  This chart shall provide flight crews with information to facilitate navigation along ATS routes in compliance with air traffic services procedures.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<i>Note.— Simplified versions of these charts are appropriate for inclusion in Aeronautical Information Publications to complement the tabulation of communication and navigation facilities.</i>									
7.2.1	<p><b>7.2 Availability</b></p> <p>7.2.1 The Enroute Chart — ICAO shall be made available in the manner prescribed in 1.3.2 for all areas where flight information regions have been established.</p> <p><i>Note.— Under certain conditions, an Area Chart — ICAO may have to be provided. (See Chapter 8.)</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which charts have to be produced and be made available in a State	
7.2.2	<p>7.2.2 Where different air traffic services routes, position reporting requirements or lateral limits of flight information regions or control areas exist in different layers of airspace and cannot be shown with sufficient clarity on one chart, separate charts shall be provided.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.3.1	<p><b>7.3 Coverage and scale</b></p> <p><i>Note 1.— A uniform scale for charts of this type cannot be specified due to the varying degree of congestion of information in certain areas.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				Level of implementation of SARPs						
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	<i>Note 2.— A linear scale based on the mean scale of the chart may be shown.</i>  <b>7.3.1 Recommendation.—</b> <i>Layout of sheet lines should be determined by the density and pattern of the ATS route structure.</i>									
7.3.2	7.3.2 Large variations of scale between adjacent charts showing a continuous route structure shall be avoided.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.3.3	7.3.3 An adequate overlap of charts shall be provided to ensure continuity of navigation.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.4.1	<b>7.4 Projection</b>  <b>7.4.1 Recommendation.—</b> <i>A conformal projection on which a straight line approximates a great circle should be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.4.2	7.4.2 Parallels and meridians shall be shown at suitable intervals.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				Level of implementation of SARPs						
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7.4.3	7.4.3 Graduation marks shall be placed at consistent intervals along selected parallels and meridians.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.5	<b>7.5 Identification</b>  Each sheet shall be identified by chart series and number.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.6.1	<b>7.6 Culture and topography</b>  7.6.1 Generalized shore lines of all open water areas, large lakes and rivers shall be shown except where they conflict with data more applicable to the function of the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.6.2	7.6.2 Within each quadrilateral formed by the parallels and meridians, the area minimum altitude shall be shown, except as provided for in 7.6.3.  <i>Note 1.— Quadrilaterals formed by the parallels and meridians normally correspond to the whole degree of latitude and longitude. Regardless of the chart scale being used, the area minimum altitude relates to the consequent quadrilateral.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>Note 2. — Refer to the Procedures for Air Navigation — Aircraft Operations (PANS OPS, Doc 8168), Volume II, Part I, Section 2, Chapter 1, 1.8, for method for determination of area minimum altitude.</i>									
7.6.3	<b>7.6.3 Recommendation.</b> — <i>In areas of high latitude where it is determined by the appropriate authority that True North orientation of the chart is impractical, the area minimum altitude should be shown within each quadrilateral formed by reference lines of the graticule (grid) used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.6.4	<b>7.6.4</b> Where charts are not True North orientated, this fact and the selected orientation used shall be clearly indicated.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.7.1	<b>7.7 Magnetic variation</b>  <b>Recommendation.</b> — <i>Isogonals should be indicated and the date of the isogonic information given.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.8.1	<b>7.8 Bearings, tracks and radials</b>  7.8.1 Bearings, tracks and radials shall be magnetic, except as provided for in 7.8.2. Where bearings and tracks are additionally provided as true values for RNAV segments, they shall be shown in parentheses to the nearest tenth of a degree, e.g. 290° (294.9°T).	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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7.8.2	<b>7.8.2 Recommendation.</b> — <i>In areas of high latitude where it is determined by the appropriate authority that reference to Magnetic North is impractical, another suitable reference, i.e. True North or Grid North, should be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.8.3	<b>7.8.3</b> Where bearings, tracks or radials are given with reference to True North or Grid North, this shall be clearly indicated. When Grid North is used, its reference grid meridian shall be identified.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.9.1	<b>7.9 Aeronautical data</b>  <b>7.9.1 Aerodromes</b>  All aerodromes used by international civil aviation to which an instrument approach can be made shall be shown.  <i>Note.— Other aerodromes may be shown.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.9.2	<b>7.9.2</b> Prohibited, restricted and danger areas  Prohibited, restricted and danger areas relevant to the layer of airspace shall be depicted with their identification and vertical limits.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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7.9.3.1	7.9.3 Air traffic services system  7.9.3.1 Where appropriate, the components of the established air traffic services system shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.9.3.1.1	7.9.3.1.1 The components shall include the following:  a) the radio navigation aids associated with the air traffic services system together with their names, identifications, frequencies and geographical coordinates in degrees, minutes and seconds;  b) in respect of DME, additionally the elevation of the transmitting antenna of the DME to the nearest 30 m (100 ft);  c) an indication of all designated airspace, including lateral and vertical limits and the appropriate class of airspace;  d) All ATS routes for en-route flight including route designators, the track to the nearest degree in both directions along each segment of the routes and, where established, the designation of the navigation specification(s) including any limitations and the direction of traffic flow;  <i>Note.— Guidance material on the organization of ATS routes for en-route flight publication which may be used to facilitate charting is</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				Level of implementation of SARPs			Sigini ficant Differ ence			
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p><i>contained in the Aeronautical Information Services Manual (Doc 8126).</i></p> <p>e) all significant points which define the ATS routes and are not marked by the position of a radio navigation aid, together with their name-codes and geographical coordinates in degrees, minutes and seconds;</p> <p>f) in respect of waypoints defining VOR/DME area navigation routes, additionally,</p> <p>1) the station identification and radio frequency of the reference VOR/DME;</p> <p>2) the bearing to the nearest tenth of a degree and the distance to the nearest two-tenths of a kilometre (tenth of a nautical mile) from the reference VOR/ DME, if the waypoint is not collocated with it;</p> <p>g) an indication of all compulsory and “on-request” reporting points and ATS/MET reporting points;</p> <p>h) the distances to the nearest kilometre or nautical mile between significant points constituting turning points or reporting points;</p> <p><i>Note.— Overall distances between radio navigation aids may also be shown.</i></p> <p>i) change-over points on route segments defined by reference to very high frequency omnidirectional radio ranges, indicating the distances to</p>									
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	<p>the nearest kilometre or nautical mile to the navigation aids;</p> <p><i>Note.— Change-over points established at the mid-point between two aids, or at the intersection of two radials in the case of a route which changes direction between the aids, need not be shown for each route segment if a general statement regarding their existence is made.</i></p> <p>j) minimum en-route altitudes and minimum obstacle clearance altitudes, on ATS routes to the nearest higher 50 metres or 100 feet (see Annex 11, 2.22);</p> <p>k) communication facilities listed with their channels and, if applicable, logon address and satellite voice communications (SATVOICE) number; and</p> <p>l) air defence identification zone (ADIZ) properly identified.</p> <p><i>Note.— ADIZ procedures may be described in the chart legend.</i></p>									
7.9.4.1	<p>7.9.4 Supplementary information</p> <p>7.9.4.1 Details of departure and arrival routes and associated holding patterns in terminal areas shall be shown unless they are shown on an Area Chart, a Standard Departure Chart — Instrument (SID) — ICAO or a Standard Arrival Chart — Instrument (STAR) — ICAO.</p>	<p>AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p><i>Note 1.— For specifications of these charts, see Chapters 8, 9 and 10.</i></p> <p><i>Note 2.— Departure routes normally originate at the end of a runway; arrival routes normally terminate at the point where an instrument approach is initiated.</i></p>									
7.9.4.2	7.9.4.2 Where established, altimeter setting regions shall be shown and identified.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.1	<p>CHAPTER 8. AREA CHART — ICAO</p> <p><b>8.1 Function</b></p> <p>This chart shall provide the flight crew with information to facilitate the following phases of instrument flight:</p> <p>a) the transition between the en-route phase and approach to an aerodrome;</p> <p>b) the transition between take-off/missed approach and en-route phase of flight; and</p> <p>c) flights through areas of complex ATS routes or airspace structure.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>Note.— The function described in 8.1 c) may be satisfied by a separate chart or an inset on an Enroute Chart — ICAO.</i>									
8.2.1	<p><b>8.2 Availability</b></p> <p>8.2.1 The Area Chart — ICAO shall be made available in the manner prescribed in 1.3.2 where the air traffic services routes or position reporting requirements are complex and cannot be adequately shown on an Enroute Chart — ICAO.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which charts have to be produced and be made available in a State	
8.2.2	<p>8.2.2 Where air traffic services routes or position reporting requirements are different for arrivals and for departures, and these cannot be shown with sufficient clarity on one chart, separate charts shall be provided.</p> <p><i>Note.— Under certain conditions, a Standard Departure Chart — Instrument (SID) — ICAO and a Standard Arrival Chart — Instrument (STAR) — ICAO may have to be provided (see Chapters 9 and 10).</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.3.1	<b>8.3 Coverage and scale</b>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	8.3.1 The coverage of each chart shall extend to points that effectively show departure and arrival routes.	Reg. (EU) 2017/373								
8.3.2	8.3.2 The chart shall be drawn to scale and a scale-bar shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.4.1	<b>8.4 Projection</b>  8.4.1 <b>Recommendation.</b> — <i>A conformal projection on which a straight line approximates a great circle should be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.4.2	8.4.2 Parallels and meridians shall be shown at suitable intervals.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.4.3	8.4.3 Graduation marks shall be placed at consistent intervals along the neat lines, as appropriate.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.5	<b>8.5 Identification</b>  The chart shall be identified by a name associated with the airspace portrayed.	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>Note.— The name may be that of the air traffic services centre, the name of the largest city or town situated in the area covered by the chart or the name of the city that the aerodrome serves. Where more than one aerodrome serves the city or town, the name of the aerodrome on which the procedures are based should be added.</i>	Reg. (EU) 2017/373								
8.6.1	<b>8.6 Culture and topography</b>  8.6.1 Generalized shorelines of all open water areas, large lakes and rivers shall be shown except where they conflict with data more applicable to the function of the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.6.2	<b>8.6.2 Recommendation.—</b> <i>To improve situational awareness in areas where significant relief exists, all relief exceeding 300 m (1 000 ft) above the elevation of the primary aerodrome should be shown by smoothed contour lines, contour values and layer tints printed in brown. Appropriate spot elevations, including the highest elevation within each top contour line, should be shown printed in black. Obstacles should also be shown.</i>  <i>Note 1.— The next higher suitable contour line appearing on base topographic maps exceeding 300 m (1 000 ft) above the elevation of the primary aerodrome may be selected to start layer tinting.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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	<p><i>Note 2.— An appropriate brown colour, on which half-tone layer tinting is to be based, is specified in Appendix 3 — Colour Guide for contours and topographic features.</i></p> <p><i>Note 3.— Appropriate spot elevations and obstacles are those provided by the procedures specialist.</i></p>									
8.7	<p><b>8.7 Magnetic variation</b></p> <p>The average magnetic variation of the area covered by the chart shall be shown to the nearest degree.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.8.1	<p><b>8.8 Bearings, tracks and radials</b></p> <p>8.8.1 Bearings, tracks and radials shall be magnetic, except as provided for in 8.8.2. Where bearings and tracks are additionally provided as true values for RNAV segments, they shall be shown in parentheses to the nearest tenth of a degree, e.g. 290° (294.9°T).</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.8.2	<p><b>8.8.2 Recommendation.</b>— <i>In areas of high latitude, where it is determined by the appropriate authority that reference to Magnetic North is impractical, another suitable reference, i.e. True North or Grid North, should be used.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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8.8.3	8.8.3 Where bearings, tracks or radials are given with reference to True North or Grid North, this shall be clearly indicated. When Grid North is used, its reference grid meridian shall be identified.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.9.1	<b>8.9 Aeronautical data</b>  8.9.1 Aerodromes  All aerodromes which affect the terminal routings shall be shown. Where appropriate, a runway pattern symbol shall be used.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.9.2	8.9.2 Prohibited, restricted and danger areas  Prohibited, restricted and danger areas shall be depicted with their identification and vertical limits.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.9.3	8.9.3 Area minimum altitudes  Area minimum altitudes shall be shown within quadrilaterals formed by the parallels and meridians.  <i>Note 1.— Quadrilaterals formed by the parallels and meridians normally correspond to the whole degree of latitude and longitude. Regardless of the chart scale being used, the area minimum altitude relates to the consequent quadrilateral.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Sigini ficant Differ ence			
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<i>Note 2.— Refer to the Procedures for Air Navigation — Aircraft Operations (PANS OPS, Doc 8168), Volume II, Part I, Section 2, Chapter 1, 1.8, for method for determination of area minimum altitude.</i>									
8.9.4.1	8.9.4 Air traffic services system  8.9.4.1 The components of the established relevant air traffic services system shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.9.4.1.1	8.9.4.1.1 The components shall include the following:  a) the radio navigation aids associated with the air traffic services system, together with their names, identifications, frequencies and geographical coordinates in degrees, minutes and seconds;  b) in respect of DME, additionally the elevation of the transmitting antenna of the DME to the nearest 30 m (100 ft);  c) terminal radio aids which are required for outbound and inbound traffic and for holding patterns;  d) the lateral and vertical limits of all designated airspace and the appropriate class of airspace;	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				Level of implementation of SARPs						
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	<p>e) the designation of the navigation specification(s) including any limitations, where established;</p> <p>f) holding patterns and terminal routings, together with the route designators, and the track to the nearest degree along each segment of the prescribed airways and terminal routings;</p> <p>g) all significant points which define the terminal routings and are not marked by the position of a radio navigation aid, together with their name-codes and geographical coordinates in degrees, minutes and seconds;</p> <p>h) in respect of waypoints defining VOR/DME area navigation routes, additionally,</p> <p>1) the station identification and radio frequency of the reference VOR/DME;</p> <p>2) the bearing to the nearest tenth of a degree and the distance to the nearest two-tenths of a kilometre (tenth of a nautical mile) from the reference VOR/DME, if the waypoint is not collocated with it;</p> <p>i) an indication of all compulsory and “on-request” reporting points;</p> <p>j) the distances to the nearest kilometre or nautical mile between significant points constituting turning points or reporting points;</p>									
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				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p><i>Note.— Overall distances between radio navigation aids may also be shown.</i></p> <p>k) change-over points on route segments defined by reference to very high frequency omnidirectional radio ranges, indicating the distances to the nearest kilometre or nautical mile to the radio navigation aids;</p> <p><i>Note.— Change-over points established at midpoint between two aids, or at the intersection of two radials in the case of a route which changes direction between the aids, need not be shown for each route segment if a general statement regarding their existence is made.</i></p> <p>l) minimum en-route altitudes and minimum obstacle clearance altitudes, on ATS routes to the nearest higher 50 metres or 100 feet (see Annex 11, 2.22);</p> <p>m) established minimum vectoring altitudes to the nearest higher 50 m or 100 ft, clearly identified;</p> <p><i>Note 1.— Where ATS surveillance systems are used to vector aircraft to or from significant points on a published standard departure or arrival route or to issue clearance for descent below the minimum sector altitude during arrival, the relevant procedures may be shown on the Area Chart — ICAO unless excessive chart clutter will result.</i></p>									
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	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Significant Difference			
				Level of implementation of SARPs						
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p><i>Note 2.— Where excessive chart clutter will result, an ATC Surveillance Minimum Altitude Chart — ICAO may be provided (see Chapter 21), in which case the elements indicated by 8.9.4.1.1, l), need not be duplicated on the Area Chart — ICAO.</i></p> <p>n) area speed and level/altitude restrictions where established;</p> <p>o) communication facilities listed with their channels and, if applicable, logon address and SATVOICE number; and</p> <p>p) an indication of “flyover” significant points.</p>									
9.1	<p>CHAPTER 9. STANDARD DEPARTURE CHART — INSTRUMENT (SID) — ICAO</p> <p><b>9.1 Function</b></p> <p>This chart shall provide the flight crew with information to enable it to comply with the designated standard departure route — instrument from take-off phase to the en-route phase.</p>	<p>AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p><i>Note 1.— Provisions governing the identification of standard departure routes are in Annex 11, Appendix 3; guidance material relating to the establishment of such routes is contained in the Air Traffic Services Planning Manual (Doc 9426).</i></p> <p><i>Note 2.— Provisions governing obstacle clearance criteria and details of the minimum information to be published are contained in the Procedures for Air Navigation Services — Aircraft Operations (PANS-OPS, Doc 8168), Volume II, Part II.</i></p>									
9.2	<p><b>9.2 Availability</b></p> <p>The Standard Departure Chart — Instrument (SID) — ICAO shall be made available wherever a standard departure route — instrument has been established and cannot be shown with sufficient clarity on the Area Chart — ICAO.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which charts have to be produced and be made available in a State	
9.3.1	<p><b>9.3 Coverage and scale</b></p> <p>9.3.1 The coverage of the chart shall be sufficient to indicate the point where the departure route begins and the specified significant point at which the en-route phase of flight along a designated air traffic services route can be commenced.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Significant Difference			
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	<i>Note.— The departure route normally originates at the end of a runway.</i>									
9.3.2	<b>9.3.2 Recommendation.</b> — <i>The chart should be drawn to scale.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.3.3	<b>9.3.3</b> If the chart is drawn to scale, a scale-bar shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.3.4	<b>9.3.4</b> When the chart is not drawn to scale, the annotation “NOT TO SCALE” shall be shown and the symbol for scale- break shall be used on tracks and other aspects of the chart which are too large to be drawn to scale.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.4.1	<b>9.4 Projection</b>  <b>9.4.1 Recommendation.</b> — <i>A conformal projection on which a straight line approximates a great circle should be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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				Level of implementation of SARPs						
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9.4.2	<b>9.4.2 Recommendation.</b> — <i>When the chart is drawn to scale, parallels and meridians should be shown at suitable intervals.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.4.3	<b>9.4.3</b> Graduation marks shall be placed at consistent intervals along the neat lines.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.5	<b>9.5 Identification</b>  The chart shall be identified by the name of the city or town or area which the aerodrome serves, the name of the aerodrome and the identification of the standard departure route(s) — instrument as established in accordance with the <i>Procedures for Air Navigation Services — Aircraft Operations</i> (PANS-OPS, Doc 8168), Volume II, Part I, Section 3, Chapter 5.  <i>Note.— The identification of the standard departure route(s) — instrument is provided by the procedures specialist.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.6.1	<b>9.6 Culture and topography</b>  9.6.1 Where the chart is drawn to scale, generalized shore lines of all open water areas, large lakes	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	and rivers shall be shown except where they conflict with data more applicable to the function of the chart.	Reg. (EU) 2017/373								
9.6.2	<p><b>9.6.2 Recommendation.</b>— <i>To improve situational awareness in areas where significant relief exists, the chart should be drawn to scale and all relief exceeding 300 m (1 000 ft) above the aerodrome elevation should be shown by smoothed contour lines, contour values and layer tints printed in brown. Appropriate spot elevations, including the highest elevation within each top contour line, should be shown printed in black. Obstacles should also be shown.</i></p> <p><i>Note 1.— The next higher suitable contour line appearing on base topographic maps exceeding 300 m (1 000 ft) above the aerodrome elevation may be selected to start layer tinting.</i></p> <p><i>Note 2.— An appropriate brown colour, on which half-tone layer tinting is to be based, is specified in Appendix 3 — Colour Guide for contours and topographic features.</i></p> <p><i>Note 3.— Appropriate spot elevations and obstacles are those provided by the procedures specialist.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.7	<p><b>9.7 Magnetic variation</b></p> <p>Magnetic variation used in determining the magnetic bearings, tracks and radials shall be shown to the nearest degree.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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9.8.1	<b>9.8 Bearings, tracks and radials</b>  9.8.1 Bearings, tracks and radials shall be magnetic, except as provided for in 9.8.2. Where bearings and tracks are additionally provided as true values for RNAV segments, they shall be shown in parentheses to the nearest tenth of a degree, e.g. 290° (294.9°T).  <i>Note.— A note to this effect may be included on the chart.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.8.2	<b>9.8.2 Recommendation.—</b> <i>In areas of high latitude, where it is determined by the appropriate authority that reference to Magnetic North is impractical, another suitable reference, i.e. True North or Grid North, should be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.8.3	<b>9.8.3</b> Where bearings, tracks or radials are given with reference to True North or Grid North, this shall be clearly indicated. When Grid North is used, its reference grid meridian shall be identified.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.9.1.1	<b>9.9 Aeronautical data</b>  9.9.1 Aerodromes	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	9.9.1.1 The aerodrome of departure shall be shown by the runway pattern.	Reg. (EU) 2017/373								
9.9.1.2	9.9.1.2 All aerodromes which affect the designated standard departure route — instrument shall be shown and identified. Where appropriate, the aerodrome runway patterns shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.9.2	9.9.2 Prohibited, restricted and danger areas  Prohibited, restricted and danger areas which may affect the execution of the procedures shall be shown with their identification and vertical limits.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.9.3.1	9.9.3 Minimum sector altitude  9.9.3.1 The established minimum sector altitude shall be shown with a clear indication of the sector to which it applies.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.9.3.2	9.9.3.2 Where the minimum sector altitude has not been established, the chart shall be drawn to scale and area minimum altitudes shall be shown within quadrilaterals formed by the parallels and meridians. Area minimum altitudes shall also be shown in those parts of the chart not covered by the minimum sector altitude.  <i>Note 1.— Quadrilaterals formed by the parallels and meridians normally correspond to the half degree of latitude and longitude. Regardless of the chart scale</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p><i>being used, the area minimum altitude relates to the consequent quadrilateral.</i></p> <p><i>Note 2.— Refer to the Procedures for Air Navigation — Aircraft Operations (PANS OPS, Doc 8168), Volume II, Part I, Section 2, Chapter 1, 1.8, for method for determination of area minimum altitude.</i></p>									
9.9.4.1	<p>9.9.4 Air traffic services system</p> <p>9.9.4.1 The components of the established relevant air traffic services system shall be shown.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.9.4.1.1	<p>9.9.4.1.1 The components shall comprise the following:</p> <p>a) a graphic portrayal of each standard departure route — instrument, including:</p> <p>1) for departure procedures designed specifically for helicopters, the term “CAT H” shall be depicted in the departure chart plan view;</p> <p>2) route designator;</p> <p>3) significant points defining the route;</p> <p>4) track or radial to the nearest degree along each segment of the route;</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p>5) distances to the nearest kilometre or nautical mile between significant points;</p> <p>6) minimum obstacle clearance altitudes, along the route or route segments and altitudes required by the procedure to the nearest higher 50 m or 100 ft and flight level restrictions where established;</p> <p>7) where the chart is drawn to scale and vectoring on departure is provided, established minimum vectoring altitudes to the nearest higher 50 m or 100 ft, clearly identified;</p> <p><i>Note 1.— Where ATS surveillance systems are used to vector aircraft to or from significant points on a published standard departure route, the relevant procedures may be shown on the Standard Departure Chart — Instrument (SID) — ICAO unless excessive chart clutter will result.</i></p> <p><i>Note 2.— Where excessive chart clutter will result, an ATC Surveillance Minimum Altitude Chart — ICAO may be provided (see Chapter 21), in which case the elements indicated by 9.9.4.1.1, a) 6), need not be duplicated on the Standard Departure Chart — Instrument (SID) — ICAO.</i></p> <p>b) the radio navigation aid(s) associated with the route(s) including:</p> <p>1) when the radio navigation aid is used for conventional navigation:</p>									
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	<p>i) plain language name; ii) identification; iii) Morse code; iv) frequency; v) geographical coordinates in degrees, minutes and seconds; and vi) for DME, the channel and the elevation of the transmitting antenna of the DME to the nearest 30 m (100 ft);</p> <p>2) when the radio navigation aid is used as a significant point for area navigation:</p> <p>i) plain language name; and ii) identification;</p> <p>c) significant points not marked by the position of a radio navigation aid including:</p> <p>1) when the significant point is used for conventional navigation:</p> <p>i) name-code; ii) geographical coordinates in degrees, minutes and seconds; iii) bearing to the nearest tenth of a degree from the reference radio navigation aid; iv) distance to the nearest two-tenths of a kilometre (tenth of a nautical mile) from the reference radio navigation aid; and</p>									
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	<p>v) identification of the reference radio navigation aid;</p> <p>2) when the significant point is used for area navigation:</p> <p>i) name-code;</p> <p>d) applicable holding patterns;</p> <p>e) transition altitude/height to the nearest higher 300 m or 1 000 ft;</p> <p>f) the position and height of close-in obstacles which penetrate the obstacle identification surface (OIS). A note shall be included whenever close-in obstacles penetrating the OIS exist but which were not considered for the published procedure design gradient;</p> <p><i>Note.— In accordance with PANS-OPS, Volume II, information on close-in obstacles is provided by the procedures specialist.</i></p> <p>g) area speed restrictions, where established;</p> <p>h) the designation of the navigation specification(s) including any limitations, where established;</p> <p>i) all compulsory and “on-request” reporting points;</p>									
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				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	j) radio communication procedures, including: 1) call sign(s) of ATS unit(s); 2) frequency and, if applicable, SATVOICE number; 3) transponder setting, where appropriate; k) an indication of “flyover” significant points.									
9.9.4.2	9.9.4.2 <b>Recommendation.</b> — <i>A textual description of standard departure route(s) — instrument (SID) and relevant communication failure procedures should be provided and should, whenever feasible, be shown on the chart or on the same page which contains the chart.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.9.4.3	9.9.4.3 Aeronautical database requirements  Appropriate data to support navigation database coding shall be published in accordance with the <i>Procedures for Air Navigation Services — Aircraft Operations</i> (PANS-OPS, Doc 8168), Volume II, Part III, Section 5, Chapter 2, 2.1, on the verso of the chart or as a separate, properly referenced sheet.  <i>Note.</i> — <i>Appropriate data are those provided by the procedures specialist.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Significant Difference			
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

10.1	<p>CHAPTER 10. STANDARD ARRIVAL CHART — INSTRUMENT (STAR) — ICAO</p> <p><b>10.1 Function</b></p> <p>This chart shall provide the flight crew with information to enable it to comply with the designated standard arrival route— instrument from the en-route phase to the approach phase.</p> <p><i>Note 1.— Standard arrival routes — instrument are to be interpreted as including “standard descent profiles”, “continuous descent approach”, and other non-standard descriptions. In the case of a standard descent profile, the depiction of a cross-section is not required.</i></p> <p><i>Note 2.— Provisions governing the identification of standard arrival routes are in Annex 11, Appendix 3; guidance material relating to the establishment of such routes is contained in the Air Traffic Services Planning Manual (Doc 9426).</i></p>	<p>AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Significant Difference			
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

10.2	<b>10.2 Availability</b>  The Standard Arrival Chart — Instrument (STAR) — ICAO shall be made available wherever a standard arrival route — instrument has been established and cannot be shown with sufficient clarity on the Area Chart.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which charts have to be produced and be made available in a State	
10.3.1	<b>10.3 Coverage and scale</b>  10.3.1 The coverage of the chart shall be sufficient to indicate the points where the en-route phase ends and the approach phase begins.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.3.2	<b>10.3.2 Recommendation.</b> — <i>The chart should be drawn to scale.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.3.3	10.3.3 If the chart is drawn to scale, a scale-bar shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.3.4	10.3.4 When the chart is not drawn to scale, the annotation “NOT TO SCALE” shall be shown and the	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	symbol for scale break shall be used on tracks and other aspects of the chart which are too large to be drawn to scale.	AIS.OR.325, Reg. (EU) 2017/373								
10.4.1	<b>10.4 Projection</b>  10.4.1 <b>Recommendation.</b> — <i>A conformal projection on which a straight line approximates a great circle should be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.4.2	10.4.2 <b>Recommendation.</b> — <i>When the chart is drawn to scale, parallels and meridians should be shown at suitable intervals.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.4.3	10.4.3 Graduation marks shall be placed at consistent intervals along the neat lines.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.5	<b>10.5 Identification</b>  The chart shall be identified by the name of the city or town or area which the aerodrome serves, the name of the aerodrome, and the identification of the standard arrival	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	route(s) — instrument as established in accordance with the <i>Procedures for Air Navigation Services</i> — Aircraft Operations (PANS-OPS, Doc 8168), Volume II, Part I, Section 4, Chapter 2.  <i>Note.— The identification of the standard arrival route(s) — instrument is provided by the procedures specialist.</i>									
10.6.1	<b>10.6 Culture and topography</b>  10.6.1 Where the chart is drawn to scale, generalized shore lines of all open water areas, large lakes and rivers shall be shown except where they conflict with data more applicable to the function of the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.6.2	<b>10.6.2 Recommendation.—</b> <i>To improve situational awareness in areas where significant relief exists, the chart should be drawn to scale and all relief exceeding 300 m (1 000 ft) above the aerodrome elevation should be shown by smoothed contour lines, contour values and layer tints printed in brown. Appropriate spot elevations, including the highest elevation within each top contour line, should be shown printed in black. Obstacles should also be shown.</i>  <i>Note 1.— The next higher suitable contour line appearing on base topographic maps exceeding 300 m (1 000 ft) above the aerodrome elevation may be selected to start layer tinting.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p><i>Note 2.— An appropriate brown colour, on which half-tone layer tinting is to be based, is specified in Appendix 3 — Colour Guide for contours and topographic features.</i></p> <p><i>Note 3.— Appropriate spot elevations and obstacles are those provided by the procedures specialist.</i></p>									
10.7	<p><b>10.7 Magnetic variation</b></p> <p>Magnetic variation used in determining the magnetic bearings, tracks and radials shall be shown to the nearest degree.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.8.1	<p><b>10.8 Bearings, tracks and radials</b></p> <p>10.8.1 Bearings, tracks and radials shall be magnetic, except as provided for in 10.8.2. Where bearings and tracks are additionally provided as true values for RNAV segments, they shall be shown in parentheses to the nearest tenth of a degree, e.g. 290° (294.9°T).</p> <p><i>Note.— A note to this effect may be included on the chart.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.8.2	<p><b>10.8.2 Recommendation.—</b> <i>In areas of high latitude, where it is determined by the appropriate authority that reference to Magnetic North is impractical, another suitable reference, i.e. True North or Grid North, should be used.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
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10.8.3	10.8.3 Where bearings, tracks or radials are given with reference to True North or Grid North, this shall be clearly indicated. When Grid North is used, its reference grid meridian shall be identified.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.9.1.1	<b>10.9 Aeronautical data</b>  10.9.1 Aerodromes  10.9.1.1 The aerodrome of landing shall be shown by the runway pattern.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.9.1.2	10.9.1.2 All aerodromes which affect the designated standard arrival route — instrument shall be shown and identified. Where appropriate, the aerodrome runway patterns shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.9.2	10.9.2 Prohibited, restricted and danger areas  Prohibited, restricted and danger areas which may affect the execution of the procedures shall be shown with their identification and vertical limits.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.9.3.1	10.9.3 Minimum sector altitude	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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	10.9.3.1 The established minimum sector altitude shall be shown with a clear indication of the sector to which it applies.	AIS.OR.325, Reg. (EU) 2017/373								
10.9.3.2	<p>10.9.3.2 Where the minimum sector altitude has not been established, the chart shall be drawn to scale and area minimum altitudes shall be shown within quadrilaterals formed by the parallels and meridians. Area minimum altitudes shall also be shown in those parts of the chart not covered by the minimum sector altitude.</p> <p><i>Note 1.— Quadrilaterals formed by the parallels and meridians normally correspond to the half degree of latitude and longitude. Regardless of the chart scale being used, the area minimum altitude relates to the consequent quadrilateral.</i></p> <p><i>Note 2.— Refer to the Procedures for Air Navigation Services — Aircraft Operations (PANS-OPS, Doc 8168), Volume II, Part I, Section 2, Chapter 1, 1.8, for method for determination of area minimum altitude.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.9.4.1	<p>10.9.4 Air traffic services system</p> <p>10.9.4.1 The components of the established relevant air traffic services system shall be shown.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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10.9.4.1.1	<p>10.9.4.1.1 The components shall comprise the following:</p> <p>a) a graphic portrayal of each standard arrival route — instrument, including:</p> <ol style="list-style-type: none"> <li>1) route designator;</li> <li>2) significant points defining the route;</li> <li>3) track or radial to the nearest degree along each segment of the route;</li> <li>4) distances to the nearest kilometre or nautical mile between significant points;</li> <li>5) minimum obstacle clearance altitudes, along the route or route segments and altitudes required by the procedure to the nearest higher 50 m or 100 ft and flight level restrictions where established;</li> <li>6) where the chart is drawn to scale and vectoring on arrival is provided, established minimum vectoring altitudes to the nearest higher 50 m or 100 ft, clearly identified;</li> </ol> <p><i>Note 1.— Where ATS surveillance systems are used to vector aircraft to or from significant points on a published standard arrival route or to issue clearance for descent below the minimum sector altitude during arrival, the relevant procedures may be shown on the Standard Arrival Chart —</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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	<p><i>Instrument (STAR) — ICAO unless excessive chart clutter will result.</i></p> <p><i>Note 2.— Where excessive chart clutter will result, an ATC Surveillance Minimum Altitude Chart — ICAO may be provided (see Chapter 21), in which case the elements indicated by 10.9.4.1.1, a) 6), need not be duplicated on the Standard Arrival Chart — Instrument (STAR) — ICAO.</i></p> <p>b) the radio navigation aid(s) associated with the route(s) including:</p> <p>1) when the radio navigation aid is used for conventional navigation:</p> <p>i) plain language name;</p> <p>ii) identification;</p> <p>iii) Morse code;</p> <p>iv) frequency;</p> <p>v) geographical coordinates in degrees, minutes and seconds; and</p> <p>vi) for DME, the channel and the elevation of the transmitting antenna of the DME to the nearest 30 m (100 ft);</p> <p>2) when the radio navigation aid is used as a significant point for area navigation:</p> <p>i) plain language name;</p> <p>and</p> <p>ii) identification;</p>									
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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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				A) More Exactin- g or Exceed- s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>c) significant points not marked by the position of a radio navigation aid including:</p> <p>1) when the significant point is used for conventional navigation:</p> <p>i) name-code;</p> <p>ii) geographical coordinates in degrees, minutes and seconds;</p> <p>iii) bearing to the nearest tenth of a degree from the reference radio navigation aid;</p> <p>iv) distance to the nearest two-tenths of a kilometre (tenth of a nautical mile) from the reference radio navigation aid;</p> <p>v) identification of the reference radio navigation aid;</p> <p>2) when the significant point is used for area navigation:</p> <p>i) name-code;</p> <p>d) applicable holding patterns;</p> <p>e) transition altitude/height to the nearest higher 300 m or 1 000 ft;</p> <p>f) area speed restrictions, where established;</p>									
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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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	<p>g) the designation of the navigation specification(s) including any limitations, where established;</p> <p>h) all compulsory and “on-request” reporting points;</p> <p>i) radio communication procedures, including:</p> <p>1) call sign(s) of ATS unit(s);</p> <p>2) frequency and, if applicable, SATVOICE number;</p> <p>3) transponder setting, where appropriate;</p> <p>j) an indication of “flyover” significant waypoints; and</p> <p>k) for arrival procedures to an instrument approach designed specifically for helicopters, the term “CAT H” shall be depicted in the arrival chart plan view.</p>									
10.9.4.2	<p>10.9.4.2 <b>Recommendation.</b>— <i>A textual description of standard arrival route(s) — instrument (STAR) and relevant communication failure procedures should be provided and should, whenever feasible, be shown on the chart or on the same page which contains the chart.</i></p>	<p>AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	AERONAUTICAL CHARTS -		No	Yes			Significant Difference			
				Level of implementation of SARPs						
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				
Annex Standard or Recommended Practice										
10.9.4.3	<p>10.9.4.3 Aeronautical database requirements</p> <p>Appropriate data to support navigation database coding shall be published in accordance with the <i>Procedures for Air Navigation Services — Aircraft Operations</i> (PANS-OPS, Doc 8168), Volume II, Part III, Section 5, Chapter 2, 2.2, on the verso of the chart or as a separate, properly referenced sheet.</p> <p><i>Note.— Appropriate data are those provided by the procedures specialist.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.1	<p>CHAPTER 11. INSTRUMENT APPROACH CHART — ICAO</p> <p><b>11.1 Function</b></p> <p>This chart shall provide flight crews with information which will enable them to perform an approved instrument approach procedure to the runway of intended landing including the missed approach procedure and, where applicable, associated holding patterns.</p> <p><i>Note.— Detailed criteria for the establishment of instrument approach procedures and the resolutions of associated altitudes/heights are contained in the</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				Level of implementation of SARPs						
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	Procedures for Air Navigation Services — Aircraft Operations ( <i>PANS-OPS, Doc 8168</i> ).									
11.2.1	<p><b>11.2 Availability</b></p> <p>11.2.1 Instrument Approach Charts — ICAO shall be made available for all aerodromes used by international civil aviation where instrument approach procedures have been established by the State concerned.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which charts have to be produced and be made available in a State	
11.2.2	<p>11.2.2 A separate Instrument Approach Chart — ICAO shall normally be provided for each precision approach procedure established by the State.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which charts have to be produced and be made available in a State	
11.2.3	<p>11.2.3 A separate Instrument Approach Chart — ICAO shall normally be provided for each non-precision approach procedure established by the State.</p> <p><i>Note.— A single precision or non-precision approach procedure chart may be provided to portray more than one approach procedure when the procedures</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which charts have to be produced	

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				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<i>for the intermediate approach, final approach and missed approach segments are identical.</i>								and be made available in a State	
11.2.4	<p>11.2.4 When the values for track, time or altitude differ between categories of aircraft on other than the final approach segment of the instrument approach procedures and the listing of these differences on a single chart could cause clutter or confusion, more than one chart shall be provided.</p> <p><i>Note.— For categories of aircraft, see Procedures for Air Navigation Services — Aircraft Operations (PANS-OPS, Doc 8168), Volume II, Part I, Section 4, Chapter 9.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.2.5	<p>11.2.5 Instrument Approach Charts — ICAO shall be revised whenever information essential to safe operation becomes out of date.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.3.1	<p><b>11.3 Coverage and scale</b></p> <p>11.3.1 The coverage of the chart shall be sufficient to include all segments of the instrument approach procedure and such additional areas as may be necessary for the type of approach intended.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.3.2	<p>11.3.2 The scale selected shall ensure optimum legibility consistent with:</p>	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	a) the procedure shown on the chart; b) sheet size.	AIS.OR.325, Reg. (EU) 2017/373								
11.3.3	11.3.3 A scale indication shall be given.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.3.3.1	11.3.3.1 Except where this is not practicable, a distance circle with a radius of 20 km (10 NM) centred on a DME located on or close to the aerodrome, or on the aerodrome reference point where no suitable DME is available, shall be shown; its radius shall be indicated on the circumference.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.3.3.2	11.3.3.2 <b>Recommendation.</b> — <i>A distance scale should be shown directly below the profile.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.4.1	<b>11.4 Format</b>  <b>Recommendation.</b> — <i>The sheet size should be 210×148 mm (8.27 × 5.82 in).</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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11.5.1	<b>11.5 Projection</b>  11.5.1 A conformal projection on which a straight line approximates a great circle shall be used.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.5.2	11.5.2 <b>Recommendation.</b> — <i>Graduation marks should be placed at consistent intervals along the neat lines.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.6	<b>11.6 Identification</b>  The chart shall be identified by the name of the city or town or area which the aerodrome serves, the name of the aerodrome and the identification of the instrument approach procedure as established in accordance with the <i>Procedures for Air Navigation Services — Aircraft Operations</i> (PANS-OPS, Doc 8168), Volume II, Part I, Section 4, Chapter 9.  <i>Note.— The identification of the instrument approach procedure is provided by the procedures specialist.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.7.1	<b>11.7 Culture and topography</b>	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	11.7.1 Culture and topographic information pertinent to the safe execution of the instrument approach procedure, including the missed approach procedure, associated holding procedures and visual manoeuvring (circling) procedure when established, shall be shown. Topographic information shall be named, only when necessary, to facilitate the understanding of such information, and the minimum shall be a delineation of land masses and significant lakes and rivers.	AIS.OR.325, Reg. (EU) 2017/373								
11.7.2	<p>11.7.2 Relief shall be shown in a manner best suited to the particular elevation characteristics of the area. In areas where relief exceeds 1 200 m (4 000 ft) above the aerodrome elevation within the coverage of the chart or 600 m (2 000 ft) within 11 km (6 NM) of the aerodrome reference point or when final approach or missed approach procedure gradient is steeper than optimal due to terrain, all relief exceeding 150 m (500 ft) above the aerodrome elevation shall be shown by smoothed contour lines, contour values and layer tints printed in brown. Appropriate spot elevations, including the highest elevation within each top contour line, shall also be shown printed in black.</p> <p><i>Note 1.— The next higher suitable contour line appearing on base topographic maps exceeding 150 m (500 ft) above the aerodrome elevation may be selected to start layer tinting.</i></p> <p><i>Note 2.— An appropriate brown colour, on which half-tone layer tinting is to be based, is specified in Appendix 3 — Colour Guide for contours and topographic features.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>Note 3.— Appropriate spot elevations are those provided by the procedures specialist.</i>									
11.7.3	<p><b>11.7.3 Recommendation.</b>— In areas where relief is lower than specified in 11.7.2, all relief exceeding 150 m (500 ft) above the aerodrome elevation should be shown by smoothed contour lines, contour values and layer tints printed in brown. Appropriate spot elevations, including the highest elevation within each top contour line, should also be shown printed in black.</p> <p><i>Note 1.— The next higher suitable contour line appearing on base topographic maps exceeding 150 m (500 ft) above the aerodrome elevation may be selected to start layer tinting.</i></p> <p><i>Note 2.— An appropriate brown colour, on which half-tone layer tinting is to be based, is specified in Appendix 3 — Colour Guide for contours and topographic features.</i></p> <p><i>Note 3.— Appropriate spot elevations are those provided by the procedures specialist.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.8.1	<p><b>11.8 Magnetic variation</b></p> <p><b>11.8.1 Recommendation.</b>— The magnetic variation should be shown.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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11.8.2	11.8.2 When shown, the value of the variation, indicated to the nearest degree, shall agree with that used in determining magnetic bearings, tracks and radials.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.9.1	<p><b>11.9 Bearings, tracks and radials</b></p> <p>11.9.1 Bearings, tracks and radials shall be magnetic, except as provided for in 11.9.2. Where bearings and tracks are additionally provided as true values for RNAV segments, they shall be shown in parentheses to the nearest tenth of a degree, e.g. 290° (294.9°T).</p> <p><i>Note.— A note to this effect may be included on the chart.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.9.2	11.9.2 <b>Recommendation.</b> — <i>In areas of high latitude, where it is determined by the appropriate authority that reference to Magnetic North is impractical, another suitable reference, i.e. True North or Grid North, should be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.9.3	11.9.3 Where bearings, tracks or radials are given with reference to True North or Grid North, this shall be clearly indicated. When Grid North is used, its reference grid meridian shall be identified.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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11.10.1.1	<b>11.10 Aeronautical data</b>  11.10.1 Aerodromes  11.10.1.1 All aerodromes which show a distinctive pattern from the air shall be shown by the appropriate symbol. Abandoned aerodromes shall be identified as abandoned.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.1.2	11.10.1.2 The runway pattern, at a scale sufficiently large to show it clearly, shall be shown for:  a) the aerodrome on which the procedure is based;  b) aerodromes affecting the traffic pattern or so situated as to be likely, under adverse weather conditions, to be mistaken for the aerodrome of intended landing.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.1.3	11.10.1.3 The aerodrome elevation shall be shown to the nearest metre or foot in a prominent position on the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.1.4	11.10.1.4 The threshold elevation or, where applicable, the highest elevation of the touchdown zone shall be shown to the nearest metre or foot.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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11.10.2.1	<p>11.10.2 Obstacles</p> <p>11.10.2.1 Obstacles shall be shown on the plan view of the chart.</p> <p><i>Note.— Appropriate obstacles are those provided by the procedures specialist.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.2.2	<p>11.10.2.2 <b>Recommendation.</b>— <i>If one or more obstacles are the determining factor of an obstacle clearance altitude/height, those obstacles should be identified.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.2.3	<p>11.10.2.3 The elevation of the top of obstacles shall be shown to the nearest (next higher) metre or foot.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.2.4	<p>11.10.2.4 <b>Recommendation.</b>— <i>The heights of obstacles above a datum other than mean sea level (see 11.10.2.3) should be shown. When shown, they should be given in parentheses on the chart.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.2.5	<p>11.10.2.5 When the heights of obstacles above a datum other than mean sea level are shown, the datum shall be the aerodrome elevation except that, at aerodromes having an instrument runway (or runways)</p>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	with a threshold elevation more than 2 m (7 ft) below the aerodrome elevation, the chart datum shall be the threshold elevation of the runway to which the instrument approach is related.	Reg. (EU) 2017/373								
11.10.2.6	11.10.2.6 Where a datum other than mean sea level is used, it shall be stated in a prominent position on the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.2.7	11.10.2.7 Where an obstacle free zone has not been established for a precision approach runway Category I, this shall be indicated.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.3	11.10.3 Prohibited, restricted and danger areas  Prohibited areas, restricted areas, and danger areas which may affect the execution of the procedures shall be shown with their identification and vertical limits.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.4.1	11.10.4 Radio communication facilities and navigation aids  11.10.4.1 Radio navigation aids required for the procedures together with their frequencies, identifications and track-defining characteristics, if any, shall be shown. In the case of a procedure in which more than one station is located on the final approach track, the	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	facility to be used for track guidance for final approach shall be clearly identified. In addition, consideration shall be given to the elimination from the approach chart of those facilities that are not used by the procedure.									
11.10.4.1.1	11.10.4.1.1 When a radio navigation aid is used as a significant point for area navigation, only its plain language name and identification shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.4.2	11.10.4.2 The initial approach fix (IAF), the intermediate approach fix (IF), the final approach fix (FAF) (or final approach point (FAP) for an ILS approach procedure), the missed approach point (MAPt), where established, and other essential fixes or points comprising the procedure shall be shown and identified.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.4.3	11.10.4.3 <b>Recommendation.</b> — <i>When the final approach fix is used for conventional navigation (or final approach point for an ILS approach procedure), it should be identified with its geographical coordinates in degrees, minutes and seconds.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.4.4	11.10.4.4 Radio navigation aids that might be used in diversionary procedures together with their track-defining characteristics, if any, shall be shown or indicated on the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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11.10.4.5	11.10.4.5 Radio communication frequencies, including call signs, that are required for the execution of the procedures shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.4.6	11.10.4.6 When required by the procedures, the distance to the aerodrome from each radio navigation aid concerned with the final approach shall be shown to the nearest kilometre or nautical mile. When no track-defining aid indicates the bearing of the aerodrome, the bearing shall also be shown to the nearest degree.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.5	11.10.5 Minimum sector altitude or terminal arrival altitude  The minimum sector altitude or terminal arrival altitude established by the competent authority shall be shown, with a clear indication of the sector to which it applies.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.6.1	11.10.6 Portrayal of procedure tracks  11.10.6.1 The plan view shall show the following information in the manner indicated:  a) the approach procedure track by an arrowed continuous line indicating the direction of flight;  b) the missed approach procedure track by an arrowed broken line;	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p>c) any additional procedure track, other than those specified in a) and b), by an arrowed dotted line;</p> <p>d) bearings, tracks, radials to the nearest degree and distances to the nearest two-tenths of a kilometre or tenth of a nautical mile or times required for the procedure;</p> <p>e) where no track-defining aid is available, the magnetic bearing to the nearest degree to the aerodrome from the radio navigation aids concerned with the final approach;</p> <p>f) the boundaries of any sector in which visual manoeuvring (circling) is prohibited;</p> <p>g) where specified, the holding pattern and minimum holding altitude/height associated with the approach and missed approach;</p> <p>h) caution notes where required, prominently displayed on the face of the chart;</p> <p>i) an indication of “flyover” significant points.</p>									
11.10.6.2	11.10.6.2 <b>Recommendation.</b> — <i>The plan view should show the distance to the aerodrome from each radio navigation aid concerned with the final approach.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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11.10.6.3	<p>11.10.6.3 A profile shall be provided normally below the plan view showing the following data:</p> <p>a) the aerodrome by a solid block at aerodrome elevation;</p> <p>b) the profile of the approach procedure segments by an arrowed continuous line indicating the direction of flight;</p> <p>c) the profile of the missed approach procedure segment by an arrowed broken line and a description of the procedure;</p> <p>d) the profile of any additional procedure segment, other than those specified in b) and c), by an arrowed dotted line;</p> <p>e) bearings, tracks, radials to the nearest degree and distances to the nearest two-tenths of a kilometre or tenth of a nautical mile or times required for the procedure;</p> <p>f) altitudes/heights required by the procedures, including transition altitude, procedure altitudes/heights and heliport crossing height (HCH), where established;</p> <p>g) limiting distance to the nearest kilometre or nautical mile on procedure turn, when specified;</p>	<p>AIS.OR.325, AMC1</p> <p>AIS.OR.325, Reg. (EU) 2017/373</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p>h) the intermediate approach fix or point, on procedures where no course reversal is authorized;</p> <p>i) a line representing the aerodrome elevation or threshold elevation, as appropriate, extended across the width of the chart including a distance scale with its origin at the runway threshold.</p>									
11.10.6.4	<p>11.10.6.4 <b>Recommendation.</b>— <i>Heights required by procedures should be shown in parentheses, using the height datum selected in accordance with 11.10.2.5.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.6.5	<p>11.10.6.5 <b>Recommendation.</b>— <i>The profile view should include a ground profile or a minimum altitude/height portrayal as follows:</i></p> <p>a) <i>a ground profile shown by a solid line depicting the highest elevations of the relief occurring within the primary area of the final approach segment. The highest elevations of the relief occurring in the secondary areas of the final approach segment shown by a dashed line; or</i></p> <p>b) <i>minimum altitudes/heights in the intermediate and final approach segments indicated within bounded shaded blocks.</i></p> <p><i>Note 1.— For the ground profile portrayal, actual templates of the primary and secondary areas of</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p><i>the final approach segment are provided to the cartographer by the procedures specialist.</i></p> <p><i>Note 2.— The minimum altitude/height portrayal is intended for use on charts depicting non-precision approaches with a final approach fix.</i></p>									
11.10.7.1	<p>11.10.7 Aerodrome operating minima</p> <p>11.10.7.1 Aerodrome operating minima when established by the State shall be shown.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.7.2	<p>11.10.7.2 The obstacle clearance altitudes/heights for the aircraft categories for which the procedure is designed shall be shown; for precision approach procedures, additional OCA/H for Cat D<sub>L</sub> aircraft (wing span between 65 m and 80 m and/or vertical distance between the flight path of the wheels and the glide path antenna between 7 m and 8 m) shall be published, when necessary.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.8.1	<p>11.10.8 Supplementary information</p> <p>11.10.8.1 When the missed approach point is defined by:</p> <p>— a distance from the final approach fix,</p> <p>or</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	— a facility or a fix and the corresponding distance from the final approach fix,  the distance to the nearest two-tenths of a kilometre or tenth of a nautical mile and a table showing ground speeds and times from the final approach fix to the missed approach point shall be shown.									
11.10.8.2	11.10.8.2 When DME is required for use in the final approach segment, a table showing altitudes/heights for each 2 km or 1 NM, as appropriate, shall be shown. The table shall not include distances which would correspond to altitudes/heights below the OCA/H.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.8.3	11.10.8.3 <b>Recommendation.</b> — <i>For procedures in which DME is not required for use in the final approach segment but where a suitably located DME is available to provide advisory descent profile information, a table showing the altitudes/heights should be included.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.8.4	11.10.8.4 <b>Recommendation.</b> — <i>A rate of descent table should be shown.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.8.5	11.10.8.5 For non-precision approach procedures with a final approach fix, the final approach descent gradient to the nearest one-tenth of a per cent	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
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	and, in parentheses, descent angle to the nearest one-tenth of a degree shall be shown.	Reg. (EU) 2017/373								
11.10.8.6	11.10.8.6 For precision approach procedures and approach procedures with vertical guidance, the reference datum height to the nearest half metre or foot and the glide path/elevation/vertical path angle to the nearest one-tenth of a degree shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.8.7	11.10.8.7 When a final approach fix is specified at the final approach point for ILS, a clear indication shall be given whether it applies to the ILS, the associated ILS localizer only procedure, or both. In the case of MLS, a clear indication shall be given when an FAF has been specified at the final approach point.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.8.8	11.10.8.8 If the final approach descent gradient/angle for any type of instrument approach procedure exceeds the maximum value specified in the <i>Procedures for Air Navigation Services — Aircraft Operations</i> (PANS-OPS, Doc 8168), Volume II, a cautionary note shall be included.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.8.9	11.10.8.9 A note shall be included on the chart indicating the approach procedures that are authorized for simultaneous independent or dependent operations. The note shall include the runway(s) involved and if they are closely spaced.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11.10.9	11.10.9 Aeronautical database requirements	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
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	Appropriate data to support navigation database coding shall be published in accordance with the <i>Procedures for Air Navigation Services — Aircraft Operations</i> (PANS-OPS, Doc 8168), Volume II, Part III, Section 5, Chapter 2, 2.3, for RNAV procedures and Volume II, Part I, Section 4, Chapter 9, 9.4.1.3, for non-RNAV procedures, on the verso of the chart or as a separate, properly referenced sheet.  <i>Note.— Appropriate data are those provided by the procedures specialist.</i>	AIS.OR.325, Reg. (EU) 2017/373								
12.1	CHAPTER 12. VISUAL APPROACH CHART — ICAO  <b>12.1 Function</b>  This chart shall provide flight crews with information which will enable them to transit from the en-route/descent to approach phases of flight to the runway of intended landing by means of visual reference.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.2	<b>12.2 Availability</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which	



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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	The Visual Approach Chart — ICAO shall be made available in the manner prescribed in 1.3.2 for all aerodromes used by international civil aviation where:  a) only limited navigation facilities are available; or  b) radio communication facilities are not available; or  c) no adequate aeronautical charts of the aerodrome and its surroundings at 1:500 000 or greater scale are available; or  d) visual approach procedures have been established.								charts have to be produced and be made available in a State	
12.3.1	<b>12.3 Scale</b>  12.3.1 The scale shall be sufficiently large to permit depiction of significant features and indication of the aerodrome layout.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.3.2	12.3.2 <b>Recommendation.</b> — <i>The scale should not be smaller than 1:500 000.</i>  <i>Note.— A scale of 1:250 000 or 1:200 000 is preferred.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.3.3	12.3.3 <b>Recommendation.</b> — <i>When an Instrument Approach Chart is available for a given</i>	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<i>aerodrome, the Visual Approach Chart should be drawn to the same scale.</i>	AIS.OR.325, Reg. (EU) 2017/373								
12.4.1	<p><b>12.4 Format</b></p> <p><b>Recommendation.</b>— <i>The sheet size should be 210 × 148 mm (8.27 × 5.82 in).</i></p> <p><i>Note.</i>— <i>It would be advantageous to print the charts in several colours, selected to provide maximum legibility in varying degrees and kinds of light.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.5.1	<p><b>12.5 Projection</b></p> <p>12.5.1 A conformal projection on which a straight line approximates a great circle shall be used.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.5.2	<p>12.5.2 <b>Recommendation.</b>— <i>Graduation marks should be placed at consistent intervals along the neat lines.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.6	<b>12.6 Identification</b>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
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	The chart shall be identified by the name of the city or town which the aerodrome serves and the name of the aerodrome.	Reg. (EU) 2017/373								
12.7.1	<b>12.7 Culture and topography</b>  12.7.1 Natural and cultural landmarks shall be shown (e.g. bluffs, cliffs, sand dunes, cities, towns, roads, railroads, isolated lighthouses).	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.7.1.1	12.7.1.1 <b>Recommendation.</b> — <i>Geographical place names should be included only when they are required to avoid confusion or ambiguity.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.7.2	12.7.2 Shore lines, lakes, rivers and streams shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.7.3	12.7.3 Relief shall be shown in a manner best suited to the particular elevation and obstacle characteristics of the area covered by the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	AERONAUTICAL CHARTS -		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
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	Annex Standard or Recommended Practice									
12.7.4	12.7.4 <b>Recommendation.</b> — <i>When shown, spot elevations should be carefully selected.</i>  <i>Note.</i> — <i>The value of certain spot elevations/heights in relation to both mean sea level and aerodrome elevation may be given.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.7.5	12.7.5 The figures relating to different reference levels shall be clearly differentiated in their presentation.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.8	<b>12.8 Magnetic variation</b>  The magnetic variation shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.9.1	<b>12.9 Bearings, tracks and radials</b>  12.9.1 Bearings, tracks and radials shall be magnetic except as provided for in 12.9.2.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.9.2	12.9.2 <b>Recommendation.</b> — <i>In areas of high latitude, where it is determined by the appropriate authority that reference to Magnetic North is impractical, another suitable reference, i.e. True North or Grid North, should be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
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12.9.3	12.9.3 Where bearings, tracks or radials are given with reference to True North or Grid North, this shall be clearly indicated. When Grid North is used, its reference grid meridian shall be identified.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.10.1.1	<b>12.10 Aeronautical data</b>  12.10.1 Aerodromes  12.10.1.1 All aerodromes shall be shown by the runway pattern. Restrictions on the use of any landing direction shall be indicated. Where there is any risk of confusion between two neighbouring aerodromes, this shall be indicated. Abandoned aerodromes shall be identified as abandoned.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.10.1.2	12.10.1.2 The aerodrome elevation shall be shown in a prominent position on the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.10.2.1	12.10.2 Obstacles  12.10.2.1 Obstacles shall be shown and identified.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
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12.10.2.2	12.10.2.2 The elevation of the top of obstacles shall be shown to the nearest (next higher) metre or foot.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.10.2.3	12.10.2.3 <b>Recommendation.</b> — <i>The heights of obstacles above the aerodrome elevation should be shown.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.10.2.3.1	12.10.2.3.1 When the heights of obstacles are shown, the height datum shall be stated in a prominent position on the chart and the heights shall be given in parentheses on the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.10.3	12.10.3 Prohibited, restricted and danger areas  Prohibited areas, restricted areas, and danger areas shall be depicted with their identification and vertical limits.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.10.4	12.10.4 Designated airspace  Where applicable, control zones and aerodrome traffic zones shall be depicted with their vertical limits and the appropriate class of airspace.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	AERONAUTICAL CHARTS -		No	Yes			Sigini ficant Differ ence			
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				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				
	Annex Standard or Recommended Practice									
12.10.5.1	12.10.5 Visual approach information  12.10.5.1 Visual approach procedures shall be shown where applicable.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.10.5.2	12.10.5.2 Visual aids for navigation shall be shown as appropriate.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.10.5.3	12.10.5.3 Location and type of the visual approach slope indicator systems with their nominal approach slope angle(s), minimum eye height(s) over the threshold of the on-slope signal(s), and where the axis of the system is not parallel to the runway centre line, the angle and direction of displacement, i.e. left or right, shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.10.6.1	12.10.6 Supplementary information  12.10.6.1 Radio navigation aids together with their frequencies and identifications shall be shown as appropriate.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.10.6.2	12.10.6.2 Radio communication facilities with their frequencies shall be shown as appropriate.	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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		Reg. (EU) 2017/373								
13.1	<p>CHAPTER 13. AERODROME/HELIPORT CHART — ICAO</p> <p><b>13.1 Function</b></p> <p>This chart shall provide flight crews with information which will facilitate the ground movement of aircraft:</p> <p>a) from the aircraft stand to the runway; and</p> <p>b) from the runway to the aircraft stand; and helicopter movement:</p> <p>a) from the helicopter stand to the touchdown and lift-off area and to the final approach and take-off area;</p> <p>b) from the final approach and take-off area to the touchdown and lift-off area and to the helicopter stand;</p> <p>c) along helicopter ground and air taxiways; and</p> <p>d) along air transit routes;</p>	<p>AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Significant Difference			
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	it shall also provide essential operational information at the aerodrome/heliport.									
13.2.1	<b>13.2 Availability</b>  13.2.1 The Aerodrome/Heliport Chart — ICAO shall be made available in the manner prescribed in 1.3.2 for all aerodromes/heliports regularly used by international civil aviation.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which charts have to be produced and be made available in a State	
13.2.2	<b>13.2.2 Recommendation.—</b> <i>The Aerodrome/Heliport Chart — ICAO should be made available also, in the manner prescribed in 1.3.2, for all other aerodromes/heliports available for use by international civil aviation.</i>  <i>Note.— Under certain conditions, an Aerodrome Ground Movement Chart — ICAO and an Aircraft Parking/Docking Chart — ICAO may have to be provided (see Chapters 14 and 15); in which case, the elements portrayed on these supplementary charts need not be duplicated on the Aerodrome/Heliport Chart — ICAO.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR.325 does not specify which charts have to be produced and be made available in a State
13.3.1	<b>13.3 Coverage and scale</b>	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	13.3.1 The coverage and scale shall be sufficiently large to show clearly all the elements listed in 13.6.1.	AIS.OR.325, Reg. (EU) 2017/373								
13.3.2	13.3.2 A linear scale shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
13.4	<b>13.4 Identification</b>  The chart shall be identified by the name of the city or town or area which the aerodrome/heliport serves and the name of the aerodrome/heliport.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
13.5	<b>13.5 Magnetic variation</b>  True and Magnetic North arrows and magnetic variation to the nearest degree and annual change of the magnetic variation shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
13.6.1	<b>13.6 Aerodrome/heliport data</b>  13.6.1 This chart shall show:	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>a) geographical coordinates in degrees, minutes and seconds for the aerodrome/heliport reference point;</p> <p>b) elevations, to the nearest metre or foot, of the aerodrome/heliport and apron (altimeter checkpoint locations) where applicable; and for non-precision approaches, elevations and geoid undulations of runway thresholds and the geometric centre of the touchdown and lift-off area;</p> <p>c) elevations and geoid undulations, to the nearest half-metre or foot, of the precision approach runway threshold, the geometric centre of the touchdown and lift-off area, and at the highest elevation of the touchdown zone of a precision approach runway;</p> <p>d) all runways including those under construction with designation number, length and width to the nearest metre, bearing strength, displaced thresholds, stopways, clearways, runway directions to the nearest degree magnetic, type of surface and runway markings;</p> <p style="text-align: center;"><i>Note.— Bearing strengths may be shown in tabular form on the face or verso of the chart.</i></p> <p>e) all aprons, with aircraft/helicopter stands, lighting, markings and other visual guidance and control aids, where applicable, including location and type of visual docking guidance systems, type of surface for heliports, and bearing strengths or aircraft type</p>									
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	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Significant Difference			
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>restrictions where the bearing strength is less than that of the associated runways;</p> <p><i>Note.— Bearing strengths or aircraft type restrictions may be shown in tabular form on the face or verso of the chart.</i></p> <p>f) geographical coordinates in degrees, minutes and seconds for thresholds, geometric centre of touchdown and lift-off area and/or thresholds of the final approach and take-off area (where appropriate);</p> <p>g) all taxiways, helicopter air and ground taxiways with type of surface, helicopter air transit routes, with designations, width, lighting, markings (including runway-holding positions and, where established, intermediate holding positions), stop bars, other visual guidance and control aids, and bearing strength or aircraft type restrictions where the bearing strength is less than that of the associated runways;</p> <p><i>Note.— Bearing strengths or aircraft type restrictions may be shown in tabular form on the face or verso of the chart.</i></p> <p>h) where established, hot spot locations with additional information properly annotated;</p> <p><i>Note.— Additional information regarding hot spots may be shown in tabular form on the face or verso of the chart.</i></p>									
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	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>i) geographical coordinates in degrees, minutes, seconds and hundredths of seconds for appropriate taxiway centre line points and aircraft stands;</p> <p>j) where established, standard routes for taxiing aircraft with their designators;</p> <p>k) the boundaries of the air traffic control service;</p> <p>l) position of runway visual range (RVR) observation sites;</p> <p>m) approach and runway lighting;</p> <p>n) location and type of the visual approach slope indicator systems with their nominal approach slope angle(s), minimum eye height(s) over the threshold of the on-slope signal(s), and where the axis of the system is not parallel to the runway centre line, the angle and direction of the displacement, i.e. left or right;</p> <p>o) relevant communication facilities listed with their channels and, if applicable, logon address and SATVOICE number;</p> <p>p) obstacles to taxiing;</p> <p>q) aircraft servicing areas and buildings of operational significance;</p> <p>r) VOR checkpoint and radio frequency of the aid concerned;</p>									
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	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	s) any part of the depicted movement area permanently unsuitable for aircraft, clearly identified as such.									
13.6.2	13.6.2 <b>Recommendation.</b> — <i>For aerodromes accommodating aeroplanes with folding wing tips, the location where the wing tips may be safely extended should be shown on the chart.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
13.6.3	13.6.3 In addition to the items in 13.6.1 relating to heliports, the chart shall show:  a) heliport type;  <i>Note.— Heliport types are identified in Annex 14, Volume II, as surface-level, elevated or helideck.</i>  b) touchdown and lift-off area including dimensions to the nearest metre, slope, type of surface and bearing strength in tonnes;  c) final approach and take-off area including type, true bearing to the nearest degree, designation number (where appropriate), length and width to the nearest metre, slope and type of surface;  d) safety area including length, width and type of surface;	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>e) helicopter clearway including length and ground profile;</p> <p>f) obstacles including type and elevation of the top of the obstacles to the nearest (next higher) metre or foot;</p> <p>g) visual aids for approach procedures, marking and lighting of final approach and take-off area, and of touchdown and lift-off area;</p> <p>h) declared distances to the nearest metre for heliports, where relevant, including:</p> <p>1) take-off distance available;</p> <p>2) rejected take-off distance available;</p> <p>3) landing distance available.</p>									
14.1	<p>CHAPTER 14. AERODROME GROUND MOVEMENT CHART — ICAO</p> <p><b>14.1 Function</b></p>	<p>AIS.OR.325, AMC1</p> <p>AIS.OR.325, Reg. (EU) 2017/373</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Significant Difference			
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	This supplementary chart shall provide flight crews with detailed information to facilitate the ground movement of aircraft to and from the aircraft stands and the parking/docking of aircraft.									
14.2.1	<p><b>14.2 Availability</b></p> <p><b>Recommendation.</b>— <i>The Aerodrome Ground Movement Chart — ICAO should be made available in the manner prescribed in 1.3.2 where, due to congestion of information, details necessary for the ground movement of aircraft along the taxiways to and from the aircraft stands cannot be shown with sufficient clarity on the Aerodrome/Heliport Chart — ICAO.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR. 325 does not specify which charts have to be produced and be made available in a State.
14.3.1	<p><b>14.3 Coverage and scale</b></p> <p>14.3.1 The coverage and scale shall be sufficiently large to show clearly all the elements listed in 14.6.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14.3.2	<p>14.3.2 <b>Recommendation.</b>— <i>A linear scale should be shown.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

14.4	<b>14.4 Identification</b>  The chart shall be identified by the name of the city or town or area which the aerodrome serves and the name of the aerodrome.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14.5.1	<b>14.5 Magnetic variation</b>  14.5.1 A True North arrow shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14.5.2	<b>14.5.2 Recommendation.</b> — <i>Magnetic variation to the nearest degree and its annual change should be shown.</i>  <i>Note.— This chart need not be True North orientated.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14.6.1	<b>14.6 Aerodrome data</b>  14.6.1 This chart shall show in a similar manner all the information on the Aerodrome/Heliport Chart — ICAO relevant to the area depicted, including:	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>a) apron elevation to the nearest metre or foot;</p> <p>b) aprons with aircraft stands, bearing strengths or aircraft type restrictions, lighting, marking and other visual guidance and control aids, where applicable, including location and type of visual docking guidance systems;</p> <p>c) geographical coordinates in degrees, minutes, seconds and hundredths of seconds for aircraft stands;</p> <p>d) taxiways with designations, width to the nearest metre, bearing strength or aircraft type restrictions where applicable, lighting, markings (including runway-holding positions and, where established, intermediate holding positions), stop bars, and other visual guidance and control aids;</p> <p>e) where established, hot spot locations with additional information properly annotated;</p> <p><i>Note.— Additional information regarding hot spots may be shown in tabular form on the face or verso of the chart.</i></p> <p>f) where established, standard routes for taxiing aircraft, with their designators;</p> <p>g) geographical coordinates in degrees, minutes, seconds and hundredths of seconds for appropriate taxiway centre line points;</p>									
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	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>h) the boundaries of the air traffic control service;</p> <p>i) relevant communication facilities listed with their channels and, if applicable, logon address;</p> <p>j) obstacles to taxiing;</p> <p>k) aircraft servicing areas and buildings of operational significance;</p> <p>l) VOR checkpoint and radio frequency of the aid concerned;</p> <p>m) any part of the depicted movement area permanently unsuitable for aircraft, clearly identified as such.</p>									
14.6.2	<p>14.6.2 <b>Recommendation.</b>— <i>For aerodromes accommodating aeroplanes with folding wing tips, the location where the wing tips may be safely extended should be shown on the chart.</i></p>	<p>AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15.1	<p>CHAPTER 15. AIRCRAFT PARKING/DOCKING CHART — ICAO</p>	<p>AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Significant Difference			
				Level of implementation of SARPs						
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<b>15.1 Function</b>  This supplementary chart shall provide flight crews with detailed information to facilitate the ground movement of aircraft between the taxiways and the aircraft stands and the parking/docking of aircraft.									
15.2.1	<b>15.2 Availability</b>  <b>Recommendation.</b> — <i>The Aircraft Parking/Docking Chart — ICAO should be made available in the manner prescribed in 1.3.2 where, due to the complexity of the terminal facilities, the information cannot be shown with sufficient clarity on the Aerodrome/Heliport Chart — ICAO or on the Aerodrome Ground Movement Chart — ICAO.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR. 325 does not specify which charts have to be produced and be made available in a State.
15.3.1	<b>15.3 Coverage and scale</b>  15.3.1 The coverage and scale shall be sufficiently large to show clearly all the elements listed in 15.6.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15.3.2	15.3.2 <b>Recommendation.</b> — <i>A linear scale should be shown.</i>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

		Reg. (EU) 2017/373								
15.4	<b>15.4 Identification</b>  The chart shall be identified by the name of the city or town or area which the aerodrome serves and the name of the aerodrome.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15.5.1	<b>15.5 Magnetic variation</b>  15.5.1 A True North arrow shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15.5.2	15.5.2 <b>Recommendation.</b> — <i>Magnetic variation to the nearest degree and its annual change should be shown.</i>  <i>Note.— This chart need not be True North orientated.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15.6	<b>15.6 Aerodrome data</b>  This chart shall show in a similar manner all the information on the Aerodrome/Heliport Chart — ICAO	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signifi- cant Differ- ence			
				A) More Exactin- g or Exceed- s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>and the Aerodrome Ground Movement Chart — ICAO relevant to the area depicted, including:</p> <p>a) apron elevation to the nearest metre or foot;</p> <p>b) aprons with aircraft stands, bearing strengths or aircraft type restrictions, lighting, marking and other visual guidance and control aids, where applicable, including location and type of visual docking guidance systems;</p> <p>c) geographical coordinates in degrees, minutes, seconds and hundredths of seconds for aircraft stands;</p> <p>d) taxiway entries with designations, including runway-holding positions and, where established, intermediate holding positions, and stop bars;</p> <p>e) where established, hot spot locations with additional information properly annotated;</p> <p><i>Note.— Additional information regarding hot spots may be shown in tabular form on the face or verso of the chart.</i></p> <p>f) geographical coordinates in degrees, minutes, seconds and hundredths of seconds for appropriate taxiway centre line points;</p> <p>g) the boundaries of the air traffic control service;</p>									
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	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Sigini ficant Differ ence			
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>h) relevant communication facilities listed with their channels and, if applicable, logon address;</p> <p>i) obstacles to taxiing;</p> <p>j) aircraft servicing areas and buildings of operational significance;</p> <p>k) VOR checkpoint and radio frequency of the aid concerned;</p> <p>l) any part of the depicted movement area permanently unsuitable for aircraft, clearly identified as such.</p>									
16.1	<p>CHAPTER 16. WORLD AERONAUTICAL CHART — ICAO 1:1 000 000</p> <p><b>16.1 Function</b></p> <p>This chart shall provide information to satisfy the requirements of visual air navigation.</p> <p><i>Note.— This chart may also serve:</i></p> <p>a) as a basic aeronautical chart:</p>	<p>AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>1) when highly specialized charts lacking visual information do not provide essential data;</p> <p>2) to provide complete world coverage at a constant scale with a uniform presentation of planimetric data;</p> <p>3) in the production of other charts required by international civil aviation;</p> <p>b) as a pre-flight planning chart.</p>									
16.2.1	<p><b>16.2 Availability</b></p> <p>16.2.1 The World Aeronautical Chart — ICAO 1:1 000 000 shall be made available in the manner prescribed in 1.3.2 for all areas delineated in Appendix 5.</p> <p><i>Note.— When operational or chart production considerations indicate that operational requirements can be effectively satisfied by Aeronautical Charts — ICAO 1:500 000 or Aeronautical Navigation Charts — ICAO Small Scale, either of these charts may be made available instead of the basic 1:1 000 000 chart.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AIS.OR.325 does not specify which charts have to be produced and be made available in a State	
16.2.2	<p><b>16.2.2 Recommendation.—</b> To ensure complete coverage of all land areas and adequate continuity in any one coordinated series, the selection of a scale of other than 1:1 000 000 should be determined by regional agreement.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR.325 does not specify which



	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

										charts have to be produced and be made available in a State
16.3.1	<p><b>16.3 Scales</b></p> <p>16.3.1 Linear scales for kilometres and nautical miles arranged in the following order:</p> <p>— kilometres,</p> <p>— nautical miles,</p> <p>with their zero points in the same vertical line shall be shown in the margin.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.3.1.1	<p>16.3.1.1 <b>Recommendation.</b>— <i>The length of the linear scales should represent at least 200 km (110 NM).</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.3.2	<p>16.3.2 A conversion scale (metres/feet) shall be shown in the margin.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Significant Difference			
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

16.4.1	<p><b>16.4 Format</b></p> <p><b>16.4.1 Recommendation.</b>— <i>The title and marginal notes should be in one of the working languages of ICAO.</i></p> <p><i>Note.</i>— <i>The language of the publishing country may be used in addition to the ICAO working language.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.4.2	<p><b>16.4.2</b> The information regarding the number of the adjoining sheets and the unit of measurement to express elevations shall be so located as to be clearly visible when the sheet is folded.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.4.3	<p><b>16.4.3 Recommendation.</b>— <i>The method of folding should be as follows:</i></p> <p><i>Fold the chart on the long axis near the mid-parallel of latitude, face out, with the bottom part of the chart face upward. Fold inward near the meridian, and fold both halves backward in accordion folds.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.4.4	<p><b>16.4.4 Recommendation.</b>— <i>Whenever practicable, the sheet lines should conform with those shown in the index in Appendix 5.</i></p> <p><i>Note 1.</i>— <i>The area covered by a sheet may vary from the lines shown to satisfy particular requirements.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<i>Note 2.— The value of adopting identical sheet lines for ICAO 1:1 000 000 Charts and the corresponding sheet of the International Map of the World (IMW), provided aeronautical requirements are not compromised, is recognized.</i>									
16.4.5	<b>16.4.5 Recommendation.</b> — <i>Overlaps should be provided by extending the chart area on the top and right side beyond the area given on the index. This overlap area should contain all aeronautical, topographical, hydrographical and cultural information. The overlap should extend up to 28 km (15 NM), if possible, but in any case from the limiting parallels and meridians of each chart to the neat line.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.5.1	<b>16.5 Projection</b>  16.5.1 The projections shall be as follows:  a) between the Equator and 80° latitude: the Lambert conformal conic projection, in separate bands for each tier of charts. The standard parallels for each 4° band shall be 40' south of the northern parallel and 40' north of the southern parallel;  b) between 80° and 90° latitude: the Polar stereographic projection with scale matching that of the Lambert conformal conic projection at latitude 80°, except that in the northern hemisphere the Lambert conformal conic projection may be used between 80° and	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	84° latitude and the Polar stereographic projection between 84° and 90° with the scales matching at 84° North.																																							
16.5.2	<div>16.5.2 Graticules and graduations shall be shown as follows:</div> <div>a) Parallels:</div> <table><thead><tr><th>Latitude</th><th>Distance between parallels</th><th>Graduations on parallels</th></tr></thead><tbody><tr><td>0° to 72°</td><td>30'</td><td>1'</td></tr><tr><td>72° to 84°</td><td>30'</td><td>5'</td></tr><tr><td>84° to 89°</td><td>30'</td><td>1°</td></tr><tr><td>89° to 90°</td><td>30'</td><td>5°</td></tr></tbody></table> <div>(Only on degree parallels from 72° to 89°)</div> <div>b) Meridians:</div> <table><thead><tr><th>Latitude</th><th>Interval between meridians</th><th>Graduations on meridians</th></tr></thead><tbody><tr><td>0° to 52°</td><td>30'</td><td>1'</td></tr><tr><td>52° to 72°</td><td>30'</td><td>1'</td></tr></tbody></table> <div>(Only on even numbered meridians)</div> <table><tbody><tr><td>72° to 84°</td><td>1°</td><td>1'</td></tr><tr><td>84° to 89°</td><td>5°</td><td>1'</td></tr></tbody></table>	Latitude	Distance between parallels	Graduations on parallels	0° to 72°	30'	1'	72° to 84°	30'	5'	84° to 89°	30'	1°	89° to 90°	30'	5°	Latitude	Interval between meridians	Graduations on meridians	0° to 52°	30'	1'	52° to 72°	30'	1'	72° to 84°	1°	1'	84° to 89°	5°	1'	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Latitude	Distance between parallels	Graduations on parallels																																						
0° to 72°	30'	1'																																						
72° to 84°	30'	5'																																						
84° to 89°	30'	1°																																						
89° to 90°	30'	5°																																						
Latitude	Interval between meridians	Graduations on meridians																																						
0° to 52°	30'	1'																																						
52° to 72°	30'	1'																																						
72° to 84°	1°	1'																																						
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	89° to 90°      15°      1' (Only on every fourth meridian)									
16.5.3	16.5.3 The graduation marks at 1' and 5' intervals shall extend away from the Greenwich Meridian and from the Equator. Each 10' interval shall be shown by a mark on both sides of the graticule line.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.5.3.1	16.5.3.1 <b>Recommendation.</b> — <i>The length of the graduation marks should be approximately 1.3 mm (0.05 in) for the 1' intervals, and 2 mm (0.08 in) for the 5' intervals and 2 mm (0.08 in) extending on both sides of the graticule line for the 10' intervals.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.5.4	16.5.4 All meridians and parallels shown shall be numbered in the borders of the chart. In addition, each parallel shall be numbered within the body of the chart in such a manner that the parallel can be readily identified when the chart is folded.  <i>Note.— Meridians may be numbered within the body of the chart.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.5.5	16.5.5 The name and basic parameters of the projection shall be indicated in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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16.6	<b>16.6 Identification</b>  Sheet numbering shall be in conformity with the index in Appendix 5.  <i>Note.— The corresponding International Map of the World (IMW) sheet number may also be shown.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.1.1	<b>16.7 Culture and topography</b>  16.7.1 Built-up areas  16.7.1.1 Cities, towns and villages shall be selected and shown according to their relative importance to visual air navigation.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.1.2	16.7.1.2 <b>Recommendation.</b> — <i>Cities and towns of sufficient size should be indicated by the outline of their built-up areas and not of their established city limits.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.2.1	16.7.2 Railroads  16.7.2.1 All railroads having landmark value shall be shown.  <i>Note 1.— In congested areas, some railroads may be omitted in the interest of legibility.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>Note 2.— Railroads may be named where space permits.</i>									
16.7.2.2	<p>16.7.2.2 <b>Recommendation.</b>— <i>Important tunnels should be shown.</i></p> <p><i>Note.— A descriptive note may be added.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.3.1	<p>16.7.3 Highways and roads</p> <p>16.7.3.1 Road systems shall be shown in sufficient detail to indicate significant patterns from the air.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.3.2	<p>16.7.3.2 <b>Recommendation.</b>— <i>Roads should not be shown in built-up areas unless they can be distinguished from the air as definite landmarks.</i></p> <p><i>Note.— The numbers or names of important highways may be shown.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.4.1	<p>16.7.4 Landmarks</p> <p><b>Recommendation.</b>— <i>Natural and cultural landmarks, such as bridges, prominent transmission lines, permanent cable car installations, wind turbines, mine structures, forts, ruins, levees, pipelines, rocks, bluffs, cliffs, sand dunes, isolated lighthouses and</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>lightships, when considered to be of importance for visual air navigation, should be shown.</i>  <i>Note.— Descriptive notes may be added.</i>									
16.7.5	16.7.5 Political boundaries  International boundaries shall be shown. Undemarcated and undefined boundaries shall be distinguished by descriptive notes.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.6.1	16.7.6 Hydrography  16.7.6.1 All water features compatible with the scale of the chart comprising shore lines, lakes, rivers and streams (including those non-perennial in nature), salt lakes, glaciers and ice caps shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.6.2	16.7.6.2 <b>Recommendation.</b> — <i>The tint covering large open water areas should be kept very light.</i>  <i>Note.— A narrow band of darker tone may be used along the shore line to emphasize this feature.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.6.3	16.7.6.3 <b>Recommendation.</b> — <i>Reefs and shoals, including rocky ledges, tidal flats, isolated rocks, sand, gravel, stone and all similar areas, should be shown by symbols when of significant landmark value.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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	<i>Note.— Groups of rocks may be shown by a few representative rock symbols within the area.</i>									
16.7.7.1	16.7.7 Contours  16.7.7.1 Contours shall be shown. The selection of intervals shall be governed by the requirement to depict clearly the relief features required in air navigation.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.7.2	16.7.7.2 The values of the contours used shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.8.1	16.7.8 Hypsometric tints  16.7.8.1 When hypsometric tints are used, the range of elevations for the tints shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.8.2	16.7.8.2 The scale of the hypsometric tints used on the chart shall be shown in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	Annex Standard or Recommended Practice									
16.7.9.1	16.7.9 Spot elevations  16.7.9.1 Spot elevations shall be shown at selected critical points. The elevations selected shall always be the highest in the immediate vicinity and shall generally indicate the top of a peak, ridge, etc. Elevations in valleys and at lake surface levels which are of special value to the aviator shall be shown. The position of each selected elevation shall be indicated by a dot.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.9.2	16.7.9.2 The elevation (in metres or feet) of the highest point on the chart and its geographical position to the nearest five minutes shall be indicated in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.9.3	16.7.9.3 <b>Recommendation.</b> — <i>The spot elevation of the highest point in any sheet should be cleared of hypsometric tinting.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.10.1	16.7.10 Incomplete or unreliable relief  16.7.10.1 Areas that have not been surveyed for contour information shall be labelled “Relief data incomplete”.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.10.2	16.7.10.2 Charts on which spot elevations are generally unreliable shall bear a warning note	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	prominently displayed on the face of the chart in the colour used for aeronautical information, as follows:  “Warning — The reliability of relief information on this chart is doubtful and elevations should be used with caution.”	Reg. (EU) 2017/373								
16.7.11.1	16.7.11 Escarpments  <b>Recommendation.</b> — <i>Escarpments should be shown when they are prominent landmarks or when cultural detail is very sparse.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.12.1	16.7.12 Wooded areas  16.7.12.1 <b>Recommendation.</b> — <i>Wooded areas should be shown.</i>  <i>Note.</i> — <i>On high latitude charts, the approximate extreme northern or southern limits of tree growth may be shown.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.12.2	16.7.12.2 Where shown, the approximate extreme northern or southern limits of tree growth shall be indicated by a dashed black line and shall be appropriately labelled.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.7.13	16.7.13 Date of topographic information	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	The date of latest information shown on the topographic base shall be indicated in the margin.	AIS.OR.325, Reg. (EU) 2017/373								
16.8.1	<b>16.8 Magnetic variation</b>  16.8.1 Isogonic lines shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.8.2	16.8.2 The date of the isogonic information shall be indicated in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.9.1	<b>16.9 Aeronautical data</b>  16.9.1 General  Aeronautical data shown shall be kept to a minimum consistent with the use of the chart for visual navigation and the revision cycle (see 16.9.6).	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.9.2.1	16.9.2 Aerodromes  16.9.2.1 Land and water aerodromes and heliports shall be shown with their names, to the extent	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	that they do not produce undesirable congestion on the chart, priority being given to those of greatest aeronautical significance.	Reg. (EU) 2017/373								
16.9.2.2	16.9.2.2 The aerodrome elevation, the lighting available, the type of runway surface and the length of the longest runway or channel, shown in abbreviated form for each aerodrome in conformity with the example given in Appendix 2, provided they do not cause undesirable clutter on the chart, shall be indicated.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.9.2.3	16.9.2.3 Abandoned aerodromes which are still recognizable as aerodromes from the air shall be shown and identified as abandoned.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.9.3.1	16.9.3 Obstacles  16.9.3.1 Obstacles shall be shown.  <i>Note.— Objects of a height of 100 m (300 ft) or more above ground are normally regarded as obstacles.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.9.3.2	16.9.3.2 When considered of importance to visual flight, prominent transmission lines, permanent cable car installations and wind turbines, which are obstacles, shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.9.4	16.9.4 Prohibited, restricted and danger areas	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	Prohibited, restricted and danger areas shall be shown.	AIS.OR.325, Reg. (EU) 2017/373								
16.9.5.1	16.9.5 Air traffic services system  16.9.5.1 Significant elements of the air traffic services system including, where practicable, control zones, aerodrome traffic zones, control areas, flight information regions and other airspaces in which VFR flights operate shall be shown together with the appropriate class of airspace.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.9.5.2	16.9.5.2 Where appropriate, the air defence identification zone (ADIZ) shall be shown and properly identified.  <i>Note.— ADIZ procedures may be described in the chart legend.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.9.6	16.9.6 Radio navigation aids  Radio navigation aids shall be shown by the appropriate symbol and named, but excluding their frequencies, coded designators, times of operation and other characteristics unless any or all of this information which is shown is kept up to date by means of new editions of the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				
16.9.7.1	16.9.7    Supplementary information  16.9.7.1    Aeronautical ground lights together with their characteristics or their identifications or both shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.9.7.2	16.9.7.2    Marine lights on outer prominent coastal or isolated features of not less than 28 km (15 NM) visibility range shall be shown:  a)            where they are not less distinguishable than more powerful marine lights in the vicinity;  b)            where they are readily distinguishable from other marine or other types of lights in the vicinity of built-up coastal areas;  c)            where they are the only lights of significance available.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.1	CHAPTER 17.    AERONAUTICAL CHART — ICAO 1:500 000  17.1    Function	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p>This chart shall provide information to satisfy the requirements of visual air navigation for low speed, short- or medium-range operations at low and intermediate altitudes.</p> <p><i>Note 1.— This chart may be used:</i></p> <p>a) <i>to serve as a basic aeronautical chart;</i></p> <p>b) <i>to provide a suitable medium for basic pilot and navigation training;</i></p> <p>c) <i>to supplement highly specialized charts which do not provide essential visual information;</i></p> <p>d) <i>in pre-flight planning.</i></p> <p><i>Note 2.— It is intended that these charts be provided for land areas where charts of this scale are required for civil air operations employing visual air navigation independently or in support of other forms of air navigation.</i></p> <p><i>Note 3.— Where States produce charts of this series covering their national territories, the entire area being portrayed is usually treated on a regional basis.</i></p>									
17.2.1	<p><b>17.2 Availability</b></p> <p><b>Recommendation.—</b> <i>The Aeronautical Chart — ICAO 1:500 000 should be made available in the</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR. 325 does not specify



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	<p><i>manner prescribed in 1.3.2 for all areas delineated in Appendix 5.</i></p> <p><i>Note.— The selection of this scale as an alternative to the World Aeronautical Chart — ICAO 1:1 000 000 is covered by 16.2.1 and 16.2.2.</i></p>									which charts have to be produced and be made available in a State.
17.3.1	<p><b>17.3 Scales</b></p> <p>17.3.1 Linear scales for kilometres and nautical miles arranged in the following order:</p> <p>— kilometres,</p> <p>— nautical miles,</p> <p>with their zero points in the same vertical line shall be shown in the margin.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.3.1.1	<p>17.3.1.1 <b>Recommendation.</b>— <i>The length of the linear scale should be not less than 200 mm (8 in).</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.3.2	<p>17.3.2 A conversion scale (metres/feet) shall be shown in the margin.</p>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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		Reg. (EU) 2017/373								
17.4.1	<p><b>17.4 Format</b></p> <p>17.4.1 The title and marginal notes shall be in one of the working languages of ICAO.</p> <p><i>Note.— The language of the publishing country or any other language may be used in addition to the ICAO working language.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.4.2	<p>17.4.2 The information regarding the number of the adjoining sheets and the unit of measurement used to express elevation shall be so located as to be clearly visible when the sheet is folded.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.4.3	<p><b>17.4.3 Recommendation.—</b> <i>The method of folding should be as follows:</i></p> <p><i>Fold the chart on the long axis near the mid-parallel of latitude, face out, with the bottom part of the chart face upward. Fold inward near the meridian, and fold both halves backward in accordion folds.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.4.4	<p><b>17.4.4 Recommendation.—</b> <i>Whenever practicable, sheets should be quarter sheets of the World Aeronautical Chart — ICAO 1:1 000 000. An appropriate index to adjacent sheets, showing the relationship between the two chart series, should be included on the face of the chart or on the reverse side.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>Note.— Sheet lines may be varied to satisfy particular requirements.</i>									
17.4.5	<b>17.4.5 Recommendation.</b> — <i>Overlaps should be provided by extending the chart area on the top and right side beyond the area given on the index. This overlap area should contain all aeronautical, topographical, hydrographical and cultural information. The overlap should extend up to 15 km (8 NM), if possible, but in any case from the limiting parallels and meridians of each chart to the neat line.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.5.1	<b>17.5 Projection</b>  17.5.1 A conformal (orthomorphic) projection shall be used.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.5.2	<b>17.5.2 Recommendation.</b> — <i>The projection of the World Aeronautical Chart — ICAO 1:1 000 000 should be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.5.3	17.5.3 Parallels shall be shown at intervals of 30'.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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17.5.3.1	<p>17.5.3.1 Meridians shall normally be shown at intervals of 30'.</p> <p><i>Note.— At high latitudes, this interval may be increased.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.5.4	17.5.4 Graduation marks shall be shown at 1' intervals along each whole degree meridian and parallel, extending away from the Greenwich Meridian and from the Equator. Each 10' interval shall be shown by a mark on both sides of the graticule line.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.5.4.1	17.5.4.1 <b>Recommendation.</b> — <i>The length of the graduation marks should be approximately 1.3 mm (0.05 in) for the 1' intervals, and 2 mm (0.08 in) for the 5' intervals and 2 mm (0.08 in) extending on both sides of the graticule line for the 10' intervals.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.5.5	17.5.5 All meridians and parallels shown shall be numbered in the borders of the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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17.5.5.1	17.5.5.1 <b>Recommendation.</b> — <i>Each meridian and parallel should be numbered within the body of the chart whenever this data is required operationally.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
17.5.6	17.5.6 The name and basic parameters of the projection shall be indicated in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
17.6.1	<b>17.6 Identification</b>  17.6.1 Each sheet shall be identified by a name which should be that of the principal town or of a main geographical feature appearing on the sheet.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
17.6.1.1	17.6.1.1 <b>Recommendation.</b> — <i>Where applicable, sheets should also be identified by the reference number of the corresponding World Aeronautical Chart — ICAO 1:1 000 000, with the addition of one or more of the following letter suffixes indicating the quadrant or quadrants:</i>  <table><tr><td><i>Letter</i></td><td><i>Chart quadrant</i></td></tr><tr><td><i>A</i></td><td><i>North-West</i></td></tr><tr><td><i>B</i></td><td><i>North-East</i></td></tr><tr><td><i>C</i></td><td><i>South-East</i></td></tr></table>	<i>Letter</i>	<i>Chart quadrant</i>	<i>A</i>	<i>North-West</i>	<i>B</i>	<i>North-East</i>	<i>C</i>	<i>South-East</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<i>Letter</i>	<i>Chart quadrant</i>																	
<i>A</i>	<i>North-West</i>																	
<i>B</i>	<i>North-East</i>																	
<i>C</i>	<i>South-East</i>																	

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	<i>D South-West</i>									
17.7.1.1	<b>17.7 Culture and topography</b>  17.7.1 Built-up areas  17.7.1.1 Cities, towns and villages shall be selected and shown according to their relative importance to visual air navigation.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.1.2	17.7.1.2 <b>Recommendation.</b> — <i>Cities and towns of sufficient size should be indicated by the outline of their built-up areas and not of their established city limits.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.2.1	17.7.2 Railroads  17.7.2.1 All railroads having landmark value shall be shown.  <i>Note 1.— In congested areas, some railroads may be omitted in the interest of legibility.</i>  <i>Note 2.— Railroads may be named.</i>  <i>Note 3.— Rail stations may be shown.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.2.2	17.7.2.2 Tunnels shall be shown when they serve as prominent landmarks.	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>Note.— A descriptive note may be added, if necessary, to accentuate this feature.</i>	AIS.OR.325, Reg. (EU) 2017/373								
17.7.3.1	<p>17.7.3 Highways and roads</p> <p>17.7.3.1 Road systems shall be shown in sufficient detail to indicate significant patterns from the air.</p> <p><i>Note.— Roads under construction may be shown.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.3.2	<p>17.7.3.2 <b>Recommendation.</b>— Roads should not be shown in built-up areas unless they can be distinguished from the air as definite landmarks.</p> <p><i>Note.— The numbers or names of important highways may be shown.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.4.1	<p>17.7.4 Landmarks</p> <p><b>Recommendation.</b>— Natural and cultural landmarks, such as bridges, prominent transmission lines, permanent cable car installations, wind turbines, mine structures, lookout towers, forts, ruins, levees, pipelines, rocks, bluffs, cliffs, sand dunes, isolated lighthouses and lightships, when considered to be of importance for visual air navigation, should be shown.</p> <p><i>Note.— Descriptive notes may be added.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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17.7.5	<p>17.7.5 Political boundaries</p> <p>International boundaries shall be shown. Undemarcated and undefined boundaries shall be distinguished by descriptive notes.</p> <p><i>Note.— Other boundaries may be shown.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.6.1	<p>17.7.6 Hydrography</p> <p>17.7.6.1 All water features compatible with the scale of the chart comprising shore lines, lakes, rivers and streams (including those non-perennial in nature), salt lakes, glaciers and ice caps shall be shown.</p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.6.2	<p>17.7.6.2 <b>Recommendation.</b>— <i>The tint covering large open water areas should be kept very light.</i></p> <p><i>Note.— A narrow band of darker tone may be used along the shore line to emphasize this feature.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.6.3	<p>17.7.6.3 <b>Recommendation.</b>— <i>Reefs and shoals, including rocky ledges, tidal flats, isolated rocks, sand, gravel, stone and all similar areas, should be shown by symbols when of significant landmark value.</i></p> <p><i>Note.— Groups of rocks may be shown by a few representative rock symbols within the area.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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17.7.7.1	17.7.7 Contours  17.7.7.1 Contours shall be shown. The selection of intervals shall be governed by the requirement to depict clearly the relief features required in air navigation.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.7.2	17.7.7.2 The values of the contours used shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.8.1	17.7.8 Hypsometric tints  17.7.8.1 When hypsometric tints are used, the range of elevations for the tints shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.8.2	17.7.8.2 The scale of the hypsometric tints used on the chart shall be shown in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.9.1	17.7.9 Spot elevations  17.7.9.1 Spot elevations shall be shown at selected critical points. The elevations selected shall always be the highest in the immediate vicinity and shall	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	generally indicate the top of a peak, ridge, etc. Elevations in valleys and at lake surface levels which are of navigational value shall be shown. The position of each selected elevation shall be indicated by a dot.									
17.7.9.2	17.7.9.2 The elevation (in metres or feet) of the highest point on the chart and its geographical position to the nearest five minutes shall be indicated in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.9.3	17.7.9.3 <b>Recommendation.</b> — <i>The spot elevation of the highest point on any sheet should be cleared of hypsometric tinting.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.10.1	17.7.10 Incomplete or unreliable relief  17.7.10.1 Areas that have not been surveyed for contour information shall be labelled “Relief data incomplete”.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.10.2	17.7.10.2 Charts on which spot elevations are generally unreliable shall bear a warning note prominently displayed on the face of the chart in the colour used for aeronautical information, as follows:	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	“Warning — The reliability of relief information on this chart is doubtful and elevations should be used with caution.”									
17.7.11.1	17.7.11 Escarpments  <b>Recommendation.</b> — <i>Escarpments should be shown when they are prominent landmarks or when cultural detail is very sparse.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.12.1	17.7.12 Wooded areas  17.7.12.1 <b>Recommendation.</b> — <i>Wooded areas should be shown.</i>  <i>Note.</i> — <i>On high latitude charts, the approximate extreme northern or southern limits of tree growth may be shown.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.12.2	17.7.12.2 Where shown, the approximate northern or southern limits of tree growth shall be indicated by a dashed black line and shall be appropriately labelled.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.7.13	17.7.13 Date of topographic information  The date of latest information shown on the topographic base shall be indicated in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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17.8.1	<b>17.8 Magnetic variation</b>  17.8.1 Isogonic lines shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.8.2	17.8.2 The date of the isogonic information shall be indicated in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.9.1	<b>17.9 Aeronautical data</b>  17.9.1 General  Aeronautical information shall be shown consistent with the use of the chart and the revision cycle.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.9.2.1	17.9.2 Aerodromes  17.9.2.1 Land and water aerodromes and heliports shall be shown with their names, to the extent that they do not produce undesirable congestion on the	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	chart, priority being given to those of greatest aeronautical significance.									
17.9.2.2	17.9.2.2 The aerodrome elevation, the lighting available, the type of runway surface and the length of the longest runway or channel, shown in abbreviated form for each aerodrome in conformity with the example given in Appendix 2, provided they do not cause undesirable clutter on the chart, shall be indicated.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.9.2.3	17.9.2.3 Abandoned aerodromes which are still recognizable as aerodromes from the air shall be shown and identified as abandoned.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.9.3.1	17.9.3 Obstacles  17.9.3.1 Obstacles shall be shown.  <i>Note.— Objects of a height of 100 m (300 ft) or more above ground are normally regarded as obstacles.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.9.3.2	17.9.3.2 When considered of importance to visual flight, prominent transmission lines, permanent cable car installations and wind turbines, which are obstacles, shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.9.4	17.9.4 Prohibited, restricted and danger areas	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	Prohibited, restricted and danger areas shall be shown.	AIS.OR.325, Reg. (EU) 2017/373								
17.9.5.1	17.9.5 Air traffic services system  17.9.5.1 Significant elements of the air traffic services system including, where practicable, control zones, aerodrome traffic zones, control areas, flight information regions and other airspaces in which VFR flights operate shall be shown together with the appropriate class of airspace.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.9.5.2	17.9.5.2 Where appropriate, the air defence identification zone (ADIZ) shall be shown and properly identified.  <i>Note.— ADIZ procedures may be described in the chart legend.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.9.6	17.9.6 Radio navigation aids  Radio navigation aids shall be shown by the appropriate symbol and named, but excluding their frequencies, coded designators, times of operation and other characteristics unless any or all of this information which is shown is kept up to date by means of new editions of the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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17.9.7.1	17.9.7 Supplementary information  17.9.7.1 Aeronautical ground lights together with their characteristics or their identifications or both shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.9.7.2	17.9.7.2 Marine lights on outer prominent coastal or isolated features of not less than 28 km (15 NM) visibility range shall be shown:  a) where they are not less distinguishable than more powerful marine lights in the vicinity;  b) where they are readily distinguishable from other marine or other types of lights in the vicinity of built-up coastal areas;  c) where they are the only lights of significance available.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.1	CHAPTER 18. AERONAUTICAL NAVIGATION CHART — ICAO SMALL SCALE	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Significant Difference			
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p><b>18.1 Function</b></p> <p>This chart shall:</p> <p>a) serve as an air navigation aid for flight crews of long-range aircraft at high altitudes;</p> <p>b) provide selective checkpoints over extensive ranges for identification at high altitudes and speeds, which are required for visual confirmation of position;</p> <p>c) provide for continuous visual reference to the ground during long-range flights over areas lacking radio or other electronic navigation aids, or over areas where visual navigation is preferred or becomes necessary;</p> <p>d) provide a general purpose chart series for long-range flight planning and plotting.</p>									
18.2.1	<p><b>18.2 Availability</b></p> <p><b>Recommendation.</b>— <i>The Aeronautical Navigation Chart — ICAO Small Scale should be made available in the manner prescribed in 1.3.2 for all areas delineated in Appendix 5.</i></p> <p><b>Note.</b>— <i>The selection of this scale as an alternative to the World Aeronautical Chart — ICAO 1:1 000 000 is covered by 16.2.1 and 16.2.2.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR. 325 does not specify which charts have to be produced and be made



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										available in a State.
18.3.1	<p><b>18.3 Coverage and scale</b></p> <p><b>18.3.1 Recommendation.</b>— <i>The Aeronautical Navigation Chart — ICAO Small Scale should provide, as a minimum, complete coverage of the major land masses of the world.</i></p> <p><i>Note 1.— A sheet layout for this series is contained in the Aeronautical Chart Manual (Doc 8697).</i></p> <p><i>Note 2.— The sheet size may represent the maximum press size available to the producing agency.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.3.2	18.3.2 The scale shall be in the range of 1:2 000 000 to 1:5 000 000.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.3.3	18.3.3 The scale of the chart shall be substituted in the title for the words “Small Scale”.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.3.4	18.3.4 Linear scales for kilometres and nautical miles arranged in the following order:	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
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	— kilometres,  — nautical miles,  with their zero points in the same vertical line shall be shown in the margin.	Reg. (EU) 2017/373								
18.3.5	18.3.5 <b>Recommendation.</b> — <i>The length of the linear scale should be not less than 200 mm (8 in).</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.3.6	18.3.6 A conversion scale (metres/feet) shall be shown in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.4.1	<b>18.4 Format</b>  18.4.1 The title and marginal notes shall be in one of the working languages of ICAO.  <i>Note.— The language of the publishing country or any other language may be used in addition to the ICAO working language.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.4.2	18.4.2 The information regarding the number of the adjoining sheets and the unit of measurement to express elevations shall be so located as to be clearly visible when the sheet is folded.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>Note.— There is no internationally agreed sheet numbering.</i>									
18.5.1	<b>18.5 Projection</b>  18.5.1 A conformal (orthomorphic) projection shall be used.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.5.1.1	18.5.1.1 The name and basic parameters of the projection shall be shown in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.5.2	18.5.2 Parallels shall be shown at intervals of 1°.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.5.2.1	18.5.2.1 Graduations on the parallels shall be shown at sufficiently close intervals compatible with the latitude and the scale of the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Annex Reference & SARP Identifier	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
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	Annex Standard or Recommended Practice									
18.5.3	18.5.3 Meridians shall be shown at intervals compatible with the latitude and the scale of the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.5.3.1	18.5.3.1 Graduations on the meridians shall be shown at intervals not exceeding 5'.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.5.4	18.5.4 The graduation marks shall extend away from the Greenwich Meridian and from the Equator.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.5.5	18.5.5 All meridians and parallels shown shall be numbered in the borders of the chart. In addition, when required, meridians and parallels shall be numbered within the body of the chart in such a manner that they can be readily identified when the chart is folded.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.1.1	<b>18.6 Culture and topography</b>  18.6.1 Built-up areas	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	18.6.1.1 Cities, towns and villages shall be selected and shown according to their relative importance to visual air navigation.	Reg. (EU) 2017/373								
18.6.1.2	18.6.1.2 <b>Recommendation.</b> — <i>Cities and towns of sufficient size should be indicated by the outline of their built-up areas and not of their established city limits.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.2.1	18.6.2 Railroads  18.6.2.1 All railroads having landmark value shall be shown.  <i>Note.— In congested areas, some railroads may be omitted in the interest of legibility.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.2.2	18.6.2.2 <b>Recommendation.</b> — <i>Important tunnels should be shown.</i>  <i>Note.— A descriptive note may be added.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.3.1	18.6.3 Highways and roads  18.6.3.1 Road systems shall be shown in sufficient detail to indicate significant patterns from the air.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

18.6.3.2	18.6.3.2 <b>Recommendation.</b> — Roads should not be shown in built-up areas unless they can be distinguished from the air as definite landmarks.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.4.1	18.6.4 Landmarks  <b>Recommendation.</b> — Natural and cultural landmarks, such as bridges, prominent transmission lines, permanent cable car installations, mine structures, forts, ruins, levees, pipelines, rocks, bluffs, cliffs, sand dunes, isolated lighthouses and lightships, when considered to be of importance for visual air navigation, should be shown.  <i>Note.</i> — Descriptive notes may be added.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.5	18.6.5 Political boundaries  International boundaries shall be shown. Undemarcated and undefined boundaries shall be distinguished by descriptive notes.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.6.1	18.6.6 Hydrography	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Sigini ficant Differ ence			
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	18.6.6.1 All water features compatible with the scale of the chart comprising shore lines, lakes, rivers and streams (including those non-perennial in nature), salt lakes, glaciers and ice caps shall be shown.	Reg. (EU) 2017/373								
18.6.6.2	18.6.6.2 <b>Recommendation.</b> — <i>The tint covering large open water areas should be kept very light.</i>  <i>Note.</i> — <i>A narrow band of darker tone may be used along the shore line to emphasize this feature.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.6.3	18.6.6.3 <b>Recommendation.</b> — <i>Reefs and shoals, including rocky ledges, tidal flats, isolated rocks, sand, gravel, stone and all similar areas, should be shown by symbols when of significant landmark value.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.7.1	18.6.7 Contours  18.6.7.1 Contours shall be shown. The selection of intervals shall be governed by the requirement to depict clearly the relief features required in air navigation.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.7.2	18.6.7.2 The values of the contours used shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

18.6.8.1	18.6.8 Hypsometric tints  18.6.8.1 When hypsometric tints are used, the range of elevations for the tints shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.8.2	18.6.8.2 The scale of the hypsometric tints used on the chart shall be shown in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.9.1	18.6.9 Spot elevations  18.6.9.1 Spot elevations shall be shown at selected critical points. The elevations selected shall always be the highest in the immediate vicinity and shall generally indicate the top of a peak, ridge, etc. Elevations in valleys and at lake surface levels which are of value to visual air navigation shall be shown. The position of each selected elevation shall be indicated by a dot.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.9.2	18.6.9.2 The elevation (in metres or feet) of the highest point on the chart and its geographical position to the nearest five minutes shall be indicated in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



Annex Reference & SARP Identifier	European Union Aviation Safety Agency-Annex 4 Amendment 61	State Reference	Difference					Not Applicable	Details of Difference	Remarks
	AERONAUTICAL CHARTS -		No	Yes			Significant Difference			
				Level of implementation of SARPs						
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				
	Annex Standard or Recommended Practice									
18.6.9.3	18.6.9.3 <b>Recommendation.</b> — <i>The spot elevation of the highest point in any sheet should be cleared of hypsometric tinting.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.10.1	18.6.10 Incomplete or unreliable relief  18.6.10.1 Areas that have not been surveyed for contour information shall be labelled “Relief data incomplete”.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.10.2	18.6.10.2 Charts on which spot elevations are generally unreliable shall bear a warning note prominently displayed on the face of the chart in the colour used for aeronautical information, as follows:  “Warning — The reliability of relief information on this chart is doubtful and elevations should be used with caution.”	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.11.1	18.6.11 Escarpments  <b>Recommendation.</b> — <i>Escarpments should be shown when they are prominent landmarks or when cultural detail is very sparse.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	AERONAUTICAL CHARTS -		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				
	Annex Standard or Recommended Practice									
18.6.12.1	18.6.12   Wooded areas  <b>Recommendation.</b> — <i>Wooded areas of large extent should be shown.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.13	18.6.13   Date of topographic information  The date of latest information shown on the topographic base shall be indicated in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.14.1	18.6.14   Colours  18.6.14.1 <b>Recommendation.</b> — <i>Subdued colours should be used for the chart background to facilitate plotting.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.6.14.2	18.6.14.2 <b>Recommendation.</b> — <i>Good colour contrast should be ensured to emphasize features important to visual air navigation.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.7.1	18.7 <b>Magnetic variation</b>  18.7.1    Isogonic lines shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

18.7.2	18.7.2 The date of isogonic information shall be indicated in the margin.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.8.1	<b>18.8 Aeronautical data</b>  18.8.1 Aerodromes  Land and water aerodromes and heliports shall be shown with their names, to the extent that they do not produce undesirable congestion on the chart, priority being given to those of greatest aeronautical significance.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.8.2	18.8.2 Obstacles  Obstacles shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.8.3.1	18.8.3 Prohibited, restricted and danger areas  <b>Recommendation.</b> — <i>Prohibited, restricted and danger areas should be shown when considered to be of importance to air navigation.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

18.8.4.1	18.8.4 Air traffic services system  18.8.4.1 <b>Recommendation.</b> — <i>Significant elements of the air traffic services system should be shown when considered to be of importance to air navigation.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.8.4.2	18.8.4.2 <b>Recommendation.</b> — <i>Where appropriate, the air defence identification zone (ADIZ) should be shown and properly identified.</i>  <i>Note.</i> — <i>ADIZ procedures may be described in the chart legend.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
18.8.5	18.8.5 Radio navigation aids  <i>Note.</i> — <i>Radio aids to navigation may be shown by the appropriate symbol and named.</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		There is no actual provision in this paragraph, except from a note
19.1	CHAPTER 19. PLOTTING CHART — ICAO  19.1 <b>Function</b>  This chart shall provide a means of maintaining a continuous flight record of the aircraft position by various	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes						
				Level of implementation of SARPs			Signi ficant Differ ence			
				A) More Exact ing or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	fixing methods and dead reckoning in order to maintain an intended flight path.									
19.2.1	<p><b>19.2 Availability</b></p> <p><b>Recommendation.</b>— <i>This chart should be made available, in the manner prescribed in 1.3.2, to cover major air routes over oceanic areas and sparsely settled areas used by international civil aviation.</i></p> <p><i>Note.</i>— <i>In areas where the Enroute Chart — ICAO is provided, there may be no requirement for a plotting chart.</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR. 325 does not specify which charts have to be produced and be made available in a State.
19.3.1	<p><b>19.3 Coverage and scale</b></p> <p>19.3.1 <b>Recommendation.</b>— <i>Where practicable, the chart for a particular region should cover major air routes and their terminals on a single sheet.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.3.2	<p>19.3.2 <b>Recommendation.</b>— <i>The scale should be governed by the area to be covered.</i></p> <p><i>Note.</i>— <i>Normally the scale will range from 1:3 000 000 to 1:7 500 000.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
				Level of implementation of SARPs						
				A) More Exactin g or Exceed s	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

19.4.1	<b>19.4 Format</b>  <b>Recommendation.</b> — <i>The sheet should be of a size that can be adapted for use on a navigator's plotting table.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.5.1	<b>19.5 Projection</b>  19.5.1 <b>Recommendation.</b> — <i>A conformal projection on which a straight line approximates a great circle should be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.5.2	19.5.2 Parallels and meridians shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.5.2.1	19.5.2.1 <b>Recommendation.</b> — <i>The intervals should be arranged to permit accurate plotting to be carried out with a minimum of time and effort.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.5.2.2	19.5.2.2 Graduation marks shall be shown at consistent intervals along an appropriate number of parallels and meridians. The interval selected shall,	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Signi ficant Differ ence			
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	regardless of scale, minimize the amount of interpolation required for accurate plotting.	Reg. (EU) 2017/373								
19.5.2.3	<b>19.5.2.3 Recommendation.</b> — <i>Parallels and meridians should be numbered so that a number appears at least once every 15 cm (6 in) on the face of the chart.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.5.2.4	<b>19.5.2.4</b> If a navigational grid is shown on charts covering the higher latitudes, it shall comprise lines parallel to the Meridian or anti-Meridian of Greenwich.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.6	<b>19.6 Identification</b>  Each sheet shall be identified by chart series and number.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.7.1	<b>19.7 Culture and topography</b>  19.7.1 Generalized shore lines of all open water areas, large lakes and rivers shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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19.7.2	19.7.2 Spot elevations for selected features constituting a hazard to air navigation shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.7.3	19.7.3 <b>Recommendation.</b> — <i>Particularly hazardous or prominent relief features should be emphasized.</i>  <i>Note.— Large cities and towns may be shown.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.8.1	<b>19.8 Magnetic variation</b>  19.8.1 Isogonals or, in higher latitudes, isogrivs, or both, shall be shown at consistent intervals throughout the chart. The interval selected shall, regardless of scale, minimize the amount of interpolation required.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.8.2	19.8.2 The date of the isogonic information shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.9.1	<b>19.9 Aeronautical data</b>	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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	<p>19.9.1 The following aeronautical data shall be shown:</p> <p>a) aerodromes regularly used by international commercial air transport together with their names;</p> <p>b) selected radio aids to navigation that will contribute to position-finding together with their names and identifications;</p> <p>c) lattices of long-range electronic aids to navigation, as required;</p> <p>d) boundaries of flight information regions, control areas and control zones necessary to the function of the chart;</p> <p>e) designated reporting points necessary to the function of the chart;</p> <p>f) ocean station vessels.</p> <p><i>Note.— Other aeronautical data may be shown provided that they do not detract from the legibility of essential information.</i></p>	AIS.OR.325, Reg. (EU) 2017/373								
19.9.2	<p>19.9.2 <b>Recommendation.</b>— <i>Aeronautical ground lights and marine lights useful for air navigation should be shown where other means of navigation are non-existent.</i></p>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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20.1	<p>CHAPTER 20. ELECTRONIC AERONAUTICAL CHART DISPLAY — ICAO</p> <p><b>20.1 Function</b></p> <p>The Electronic Aeronautical Chart Display — ICAO, with adequate back-up arrangements and in compliance with the requirements of Annex 6 for charts, shall enable flight crews to execute, in a convenient and timely manner, route planning, route monitoring and navigation by displaying required information.</p>	CAT.GEN.M PA.180 (a)(12); SPA.EFB.100 ; NCC.GEN.13 1(b) Reg. (EU) 965/2012; AMC1 CAT.GEN.M PA.180; AMC1 NCC.GEN.14 0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.2.1	<p><b>20.2 Information available for display</b></p> <p>20.2.1 The Electronic Aeronautical Chart Display — ICAO shall be capable of displaying all aeronautical, cultural and topographic information required by Chapter 5 and Chapters 7 through 19.</p>	CAT.GEN.M PA.180 (a)(12); SPA.EFB.100 ; NCC.GEN.13 1(b)(2); NCC.GEN.14 0(a)(11) Reg. (EU) 965/2012; AMC8 SPA.EFB.100 (b)(3); AMC7 NCC.GEN.13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Annex Reference & SARP Identifier	AERONAUTICAL CHARTS -  Annex Standard or Recommended Practice		No	Yes			Sigini ficant Differ ence			
				Level of implementation of SARPs						
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		1(b)(2); AMC1 NCC.GEN.14 0(a)(11)								
20.2.2	<p><b>20.2.2 Recommendation.</b>— <i>The Electronic Aeronautical Chart Display — ICAO should be capable of displaying all aeronautical, cultural and topographic information recommended by Chapter 5 and Chapters 7 through 19.</i></p> <p><i>Note.</i>— <i>The Electronic Aeronautical Chart Display — ICAO may display supplementary information, in addition to that required for the equivalent paper chart, which may be considered useful for safe navigation.</i></p>	CAT.GEN.M PA.180(a)(12 ); CAT.GEN.M PA.141; SPA.EFB.100 ; NCC.GEN.13 1(b)(2); NCC.GEN.14 0(a)(11) Reg. (EU) 965/2012; AMC8 SPA.EFB.100 (b)(3); AMC1 NCC.GEN.14 0(a)(11); AMC7 NCC.GEN.13 1(b)(2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.3.1.1	<p><b>20.3 Display requirements</b></p> <p>20.3.1 Display categories</p> <p>20.3.1.1 Information available for display shall be subdivided into the following categories:</p>	CAT.GEN.M PA.180(a)(12 ); SPA.EFB.100 ; NCC.GEN.13 1(b) Reg (EU)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p>a) basic display information, permanently retained on the display and consisting of the minimum information essential for the safe conduct of flight; and</p> <p>b) other display information, which may be removed from the display or displayed individually on demand, and consisting of information not considered essential for the safe conduct of flight.</p>	965/2012; AMC1 CAT.GEN.M PA.141(b); AMC8 SPA.EFB.100 (b)(3); AMC7 NCC.GEN.13 1(b)(2); AMC1 NCC.GEN.13 1(b)								
20.3.1.2	20.3.1.2 It shall be a simple function to add or remove other display information but shall not be possible to remove information contained in the basic display.	CAT.GEN.M PA.180 (a)(12); SPA.EFB.100 ; NCC.GEN.13 1(b) Reg. (EU) 965/2012; AMC1 SPA.EFB.100 (b)(2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.3.2.1	<p>20.3.2 Display mode and generation of neighbouring area</p> <p>20.3.2.1 The Electronic Aeronautical Chart Display — ICAO shall be capable of continuously plotting the aircraft's position in a true motion mode where reset and generation of the surrounding area shall take place automatically.</p>	CAT.GEN.M PA.180(a)(12); SPA.EFB.100 Reg. (EU) 965/2012; AMC10 SPA.EFB.100 (b)(3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<i>Note.— Other modes, such as static chart displays, may be available.</i>									
20.3.2.2	20.3.2.2 It shall be possible manually to change the chart area and the position of the aircraft relative to the edge of the display.	CAT.GEN.M PA.180(a)(12); SPA.EFB.100; NCC.GEN.13 1(b) Reg. (EU) 965/2012; AMC8 SPA.EFB.100 (b)(3); AMC10 SPA.EFB.100 (b)(3); AMC7 NCC.GEN.13 1(b)(2); AMC9 NCC.GEN.13 1(b)(2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.3.3	20.3.3 Scale  It shall be possible to vary the scale at which a chart is displayed.	CAT.GEN.M PA.180(a)(12); SPA.EFB.100; NCC.GEN.13 1(b)(2) Reg. (EU) 965/2012;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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		AMC8 SPA.EFB.100 (b)(3); AMC7 NCC.GEN.13 1(b)(2)								
20.3.4	<p>20.3.4 Symbols</p> <p>Symbols used shall conform to those specified for electronic charts in Appendix 2 — ICAO Chart Symbols except where it is desired to show items for which no ICAO chart symbol is provided. In these cases, electronic chart symbols shall be chosen which:</p> <p>a) employ a minimum use of lines, arcs and area fills;</p> <p>b) do not cause confusion with any existing aeronautical chart symbol;</p> <p>c) do not impair the legibility of the display.</p> <p><i>Note.— Additional details for each symbol may be added according to the resolution of the output media, but any enhancements may not change the basic recognizability of the symbol.</i></p>	CAT.GEN.M PA.180(a)(12); SPA.EFB.100; NCC.GEN.13 1(b)(2) Reg. (EU) 965/2012; AMC1 SPA.EFB.100 (b)(2) and AMC8 SPA.EFB.100 (b)(3); AMC7 NCC.GEN.13 1 (b)(2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.3.5.1	<p>20.3.5 Display hardware</p> <p>20.3.5.1 The effective size of the chart presentation shall be sufficient to display the information required by 20.2 without excessive scrolling.</p>	SPA.EFB.100; NCC.GEN.13 1(b) Reg. (EU)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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		965/2012 AMC1 SPA.EFB.100 (b) and AMC8 SPA.EFB.100 (b)(3); AMC7 NCC.GEN.13 1(b)(2)								
20.3.5.2	20.3.5.2 The display shall have the capabilities required to accurately portray required elements of Appendix 2 — ICAO Chart Symbols.	SPA.EFB.100 ; NCC.GEN.13 1(b) Reg. (EU) 965/2012 AMC1 SPA.EFB.100 (b) and AMC8 SPA.EFB.100 (b)(3); AMC7 NCC.GEN.13 1(b)(2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.3.5.3	20.3.5.3 The method of presentation shall ensure that the displayed information is clearly visible to the observer in the conditions of natural and artificial light experienced in the cockpit.	SPA.EFB.100 ; NCC.GEN.13 1(b) Reg. (EU) 965/2012 AMC1 SPA.EFB.100 (b); AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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		NCC.GEN.13 1(a)								
20.3.5.4	20.3.5.4 The display luminance shall be adjustable by the flight crew.	SPA.EFB.100 ; NCC.GEN.13 1(b) Reg. (EU) 965/2012 AMC1 SPA.EFB.100 (b); AMC1 NCC.GEN.13 1(a)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.4.1	<b>20.4 Provision and updating of data</b>  20.4.1 The provision and updating of data for use by the display shall be in conformance with the aeronautical data quality system requirements.  <i>Note.— For aeronautical data quality system requirements, see Chapter 2, 2.17, and Annex 15, Chapter 3, 3.2.</i>	SPA.EFB.100 ; NCC.GEN.13 1(b) Reg. (EU) 965/2012 AMC3 SPA.EFB.100 (b)(3); AMC2 NCC.GEN.13 1(b)(2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.4.2	20.4.2 The display shall be capable of automatically accepting authorized updates to existing data. A means of ensuring that authorized data and all relevant updates to that data have been correctly loaded into the display shall be provided.	SPA.EFB.100 ; NCC.GEN.13 1(b) Reg. (EU) 965/2012 AMC3 SPA.EFB.100 (b)(3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



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20.4.3	20.4.3 The display shall be capable of accepting updates to authorized data entered manually with simple means for verification prior to final acceptance of the data. Updates entered manually shall be distinguishable on the display from authorized data and its authorized updates and shall not affect display legibility.	SPA.EFB.100 ; NCC.GEN.13 1(b) Reg. (EU) 965/2012 AMC3 SPA.EFB.100 (b)(3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.4.4	20.4.4 A record shall be kept of all updates, including date and time of application.	SPA.EFB.100 ; NCC.GEN.13 1(b) Reg. (EU) 965/2012 AMC2 SPA.EFB.100 (b)(3); AMC3 SPA.EFB.100 (b)(3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.4.5	20.4.5 The display shall allow the flight crew to display updates so that the flight crew may review the contents of the updates and determine that they have been included in the system.	SPA.EFB.100 Reg. (EU) 965/2012 AMC3 SPA.EFB.100 (b)(3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.5.1	<b>20.5 Performance tests, malfunction alarms and indications</b>  20.5.1 A means shall be provided for carrying out on-board tests of major functions. In case of a failure,	SPA.EFB.100 ; NCC.GEN.13 1(b) Reg. (EU) 965/2012	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	the test shall display information to indicate which part of the system is at fault.	AMC1 SPA.EFB.100 (b)(2)								
20.5.2	20.5.2 A suitable alarm or indication of system malfunction shall be provided.	SPA.EFB.100 Reg. (EU) 965/2012 AMC1 SPA.EFB.100 (b)(2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
20.6	<p><b>20.6 Back-up arrangements</b></p> <p>To ensure safe navigation in case of a failure of the Electronic Aeronautical Chart Display — ICAO, the provision of adequate back-up arrangements shall include:</p> <p>a) facilities enabling a safe takeover of display functions in order to ensure that a failure does not result in a critical situation; and</p> <p>b) a back-up arrangement facilitating the means for safe navigation of the remaining part of the flight.</p> <p><i>Note.— A suitable back-up system may include the carriage of paper charts.</i></p>	SPA.EFB.100 Reg. (EU) 965/2012 AMC1 SPA.EFB.100 (b)(1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.1.1	CHAPTER 21. ATC SURVEILLANCE MINIMUM ALTITUDE CHART — ICAO	AIS.OR.325, AMC1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p><b>21.1 Function</b></p> <p>21.1.1 This supplementary chart shall provide information that will enable flight crews to monitor and cross-check altitudes assigned by a controller using an ATS surveillance system.</p> <p><i>Note.— The objectives of the air traffic control service as prescribed in Annex 11 do not include prevention of collision with terrain. The procedures prescribed in the Procedures for Air Navigation Services — Air Traffic Management (PANS-ATM, Doc 4444) do not relieve pilots of their responsibility to ensure that any clearances issued by air traffic control units are safe in this respect. When an IFR flight is vectored or is given a direct routing which takes the aircraft off an ATS route, the PANS-ATM, Chapter 8, 8.6.5.2, applies.</i></p>	AIS.OR.325, Reg. (EU) 2017/373								
21.1.2	21.1.2 A note indicating that the chart may only be used for cross-checking of altitudes assigned while the aircraft is identified shall be prominently displayed on the face of the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.2.1	<p><b>21.2 Availability</b></p> <p><b>Recommendation.</b>— <i>The ATC Surveillance Minimum Altitude Chart — ICAO should be made available, in the manner prescribed in 1.3.2, where</i></p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		AIS.OR. 325 does not specify which

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	<i>vectoring procedures are established and minimum vectoring altitudes cannot be shown adequately on the Area Chart — ICAO, Standard Departure Chart — Instrument (SID) — ICAO or Standard Arrival Chart — Instrument (STAR) — ICAO.</i>									charts have to be produced and be made available in a State.
21.3.1	<b>21.3 Coverage and scale</b>  21.3.1 The coverage of the chart shall be sufficient to effectively show the information associated with vectoring procedures.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.3.2	21.3.2 The chart shall be drawn to scale.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.3.3	21.3.3 <b>Recommendation.</b> — <i>The chart should be drawn to the same scale as the associated Area Chart — ICAO.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.4.1	<b>21.4 Projection</b>	AIS.OR.325, AMC1 AIS.OR.325,	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<b>21.4.1 Recommendation.</b> — <i>A conformal projection on which a straight line approximates a geodesic line should be used.</i>	Reg. (EU) 2017/373								
21.4.2	<b>21.4.2 Recommendation.</b> — <i>Graduation marks should be placed at consistent intervals along the neat lines, as appropriate.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.5	<b>21.5 Identification</b>  The chart shall be identified by the name of the aerodrome for which the vectoring procedures are established or, when procedures apply to more than one aerodrome, the name associated with the airspace portrayed.  <i>Note.— The name may be that of the city which the aerodrome serves or, when the procedures apply to more than one aerodrome, that of the air traffic services centre or the largest city or town situated in the area covered by the chart.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.6.1	<b>21.6 Culture and topography</b>  21.6.1 Generalized shorelines of all open water areas, large lakes and rivers shall be shown except where they conflict with data more applicable to the function of the chart.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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21.6.2	21.6.2 Appropriate spot elevations and obstacles shall be shown.  <i>Note.— Appropriate spot elevations and obstacles are those provided by the procedures specialist.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.7	<b>21.7 Magnetic variation</b>  The average magnetic variation of the area covered by the chart shall be shown to the nearest degree.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.8.1	<b>21.8 Bearings, tracks and radials</b>  21.8.1 Bearings, tracks and radials shall be magnetic, except as provided for in 21.8.2.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.8.2	21.8.2 <b>Recommendation.</b> — <i>In areas of high latitude, where it is determined by the appropriate authority that reference to Magnetic North is impractical, another suitable reference, i.e. True North or Grid North, should be used.</i>	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.8.3	21.8.3 Where bearings, tracks or radials are given with reference to True North or Grid North, this shall be clearly indicated. When Grid North is used, its reference grid meridian shall be identified.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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		Reg. (EU) 2017/373								
21.9.1.1	<b>21.9 Aeronautical data</b>  21.9.1 Aerodromes  21.9.1.1 All aerodromes that affect the terminal routings shall be shown. Where appropriate, a runway pattern symbol shall be used.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.9.1.2	21.9.1.2 The elevation of the primary aerodrome to the nearest metre or foot shall be shown.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.9.2	21.9.2 Prohibited, restricted and danger areas  Prohibited, restricted and danger areas shall be depicted with their identification.	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
21.9.3.1	21.9.3 Air traffic services system  21.9.3.1 The chart shall show components of the established air traffic services system including:  a) relevant radio navigation aids together with their identifications;	AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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	<p>b) lateral limits of relevant designated airspace;</p> <p>c) relevant significant points associated with standard instrument departure and arrival procedures;</p> <p><i>Note.— Routes used in the vectoring of aircraft to and from the significant points may be shown.</i></p> <p>d) transition altitude, where established;</p> <p>e) information associated with vectoring including:</p> <p>1) minimum vectoring altitudes to the nearest higher 50 m or 100 ft, clearly identified;</p> <p>2) lateral limits of minimum vectoring altitude sectors normally defined by bearings and radials to/from radio navigation aids to the nearest degree or, if not practicable, geographical coordinates in degrees, minutes and seconds and shown by heavy lines so as to clearly differentiate between established sectors;</p> <p><i>Note.— In congested areas, geographical coordinates may be omitted in the interest of legibility.</i></p> <p>3) distance circles at 20-km or 10-NM intervals or, when practicable, 10-km or 5-NM</p>									
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				Level of implementation of SARPs			Significant Difference			
				A) More Exacting or Exceeds	B) Different in character or Other means of compliance	C) Less protective or partially implemented or not implemented				

	<p>intervals shown as fine dashed lines with the radius indicated on the circumference and centred on the identified aerodrome main VOR radio navigation aid or, if not available, on the aerodrome/heliport reference point;</p> <p>4) notes concerning correction for low temperature effect, as applicable;</p> <p>f) communications procedures including call sign(s) and channel(s) of the ATC unit(s) concerned.</p>									
21.9.3.2	<p>21.9.3.2 <b>Recommendation.</b>— <i>A textual description of relevant communication failure procedures should be provided and should, whenever feasible, be shown on the chart or on the same page that contains the chart.</i></p>	<p>AIS.OR.325, AMC1 AIS.OR.325, Reg. (EU) 2017/373</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		