

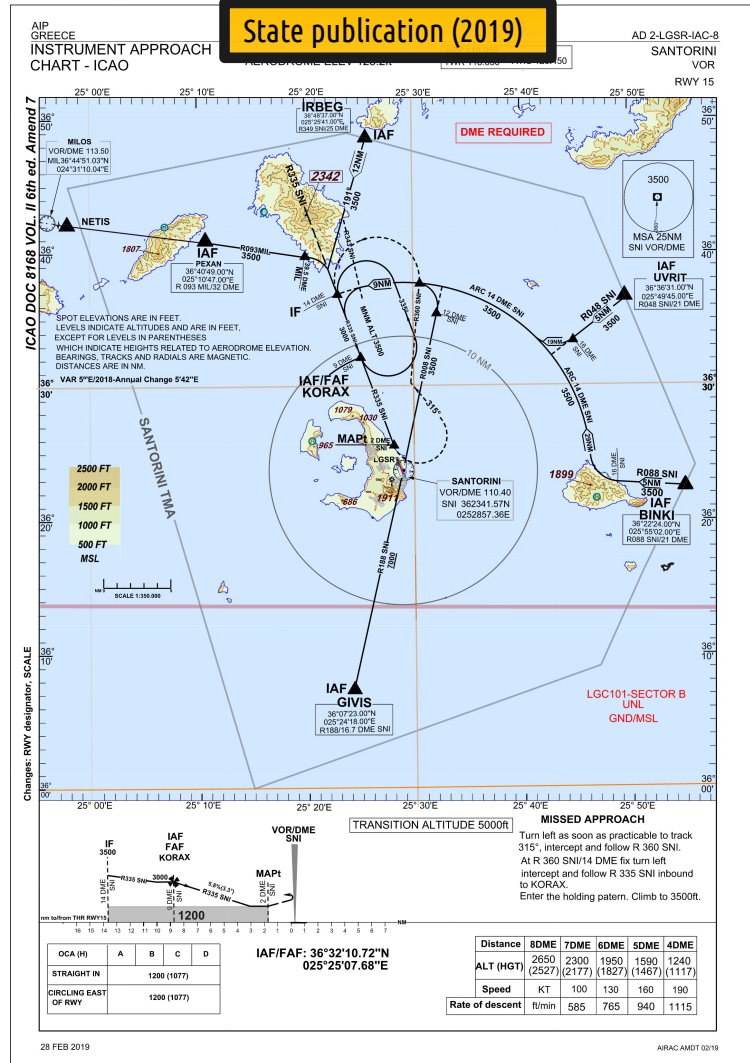
Jeppesen interpretation (2022)

In this short memo, I'll conduct a review of some key differences between LIDO and Jeppesen charts. NavBlue charts won't be covered here.

The Jeppesen chart will be on the left hand side !

LGSR VOR 15

State publication (2019)



Lufthansa Systems interpretation (2022)

The LIDO chart will be on the right hand side.

Here at the center of this page, we show the official State publication for the same approach that we shall use as an instance.

July, 2024

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Article L122-5 of the French Intellectual Property Code (CPI)

Article L122-5

Version in effect since January 1, 2023

Modified by LAW n°2021-1104 of August 22, 2021 - art. 32 (V)

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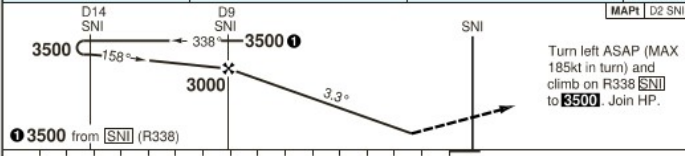
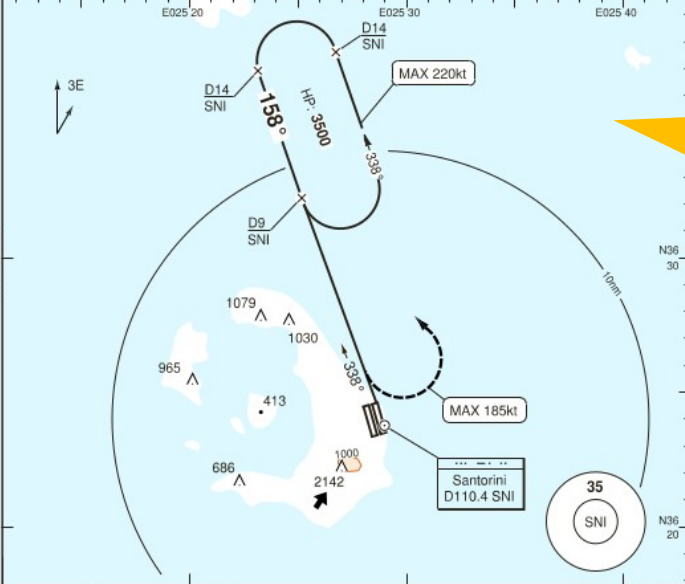
(...)

VOR RWY 16L

SANTORINI

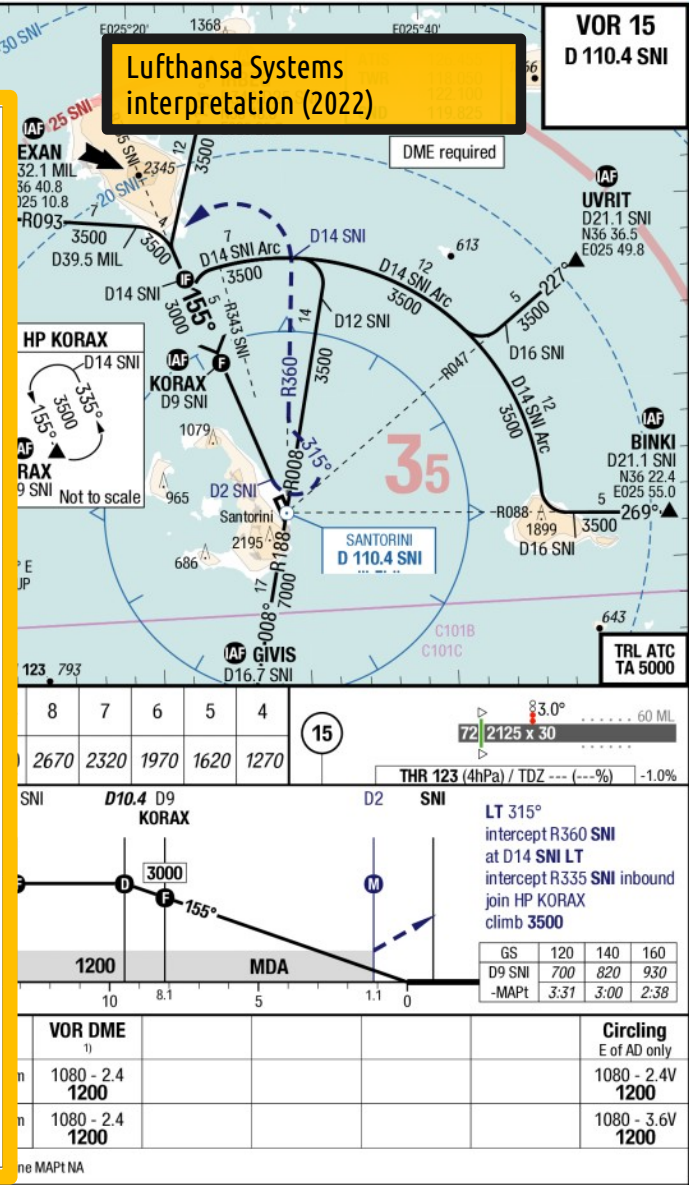
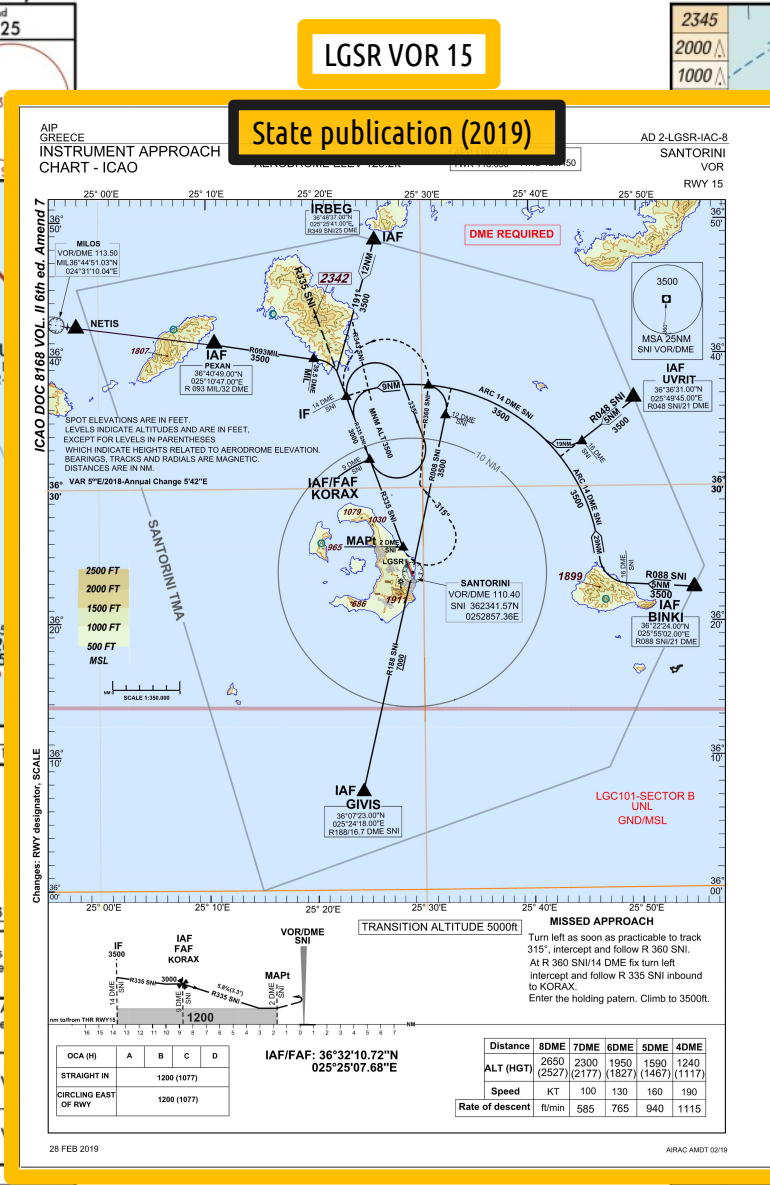
Santorini APP 118.05 122.1	TWR 118.05 122.1	ATIS 126.45
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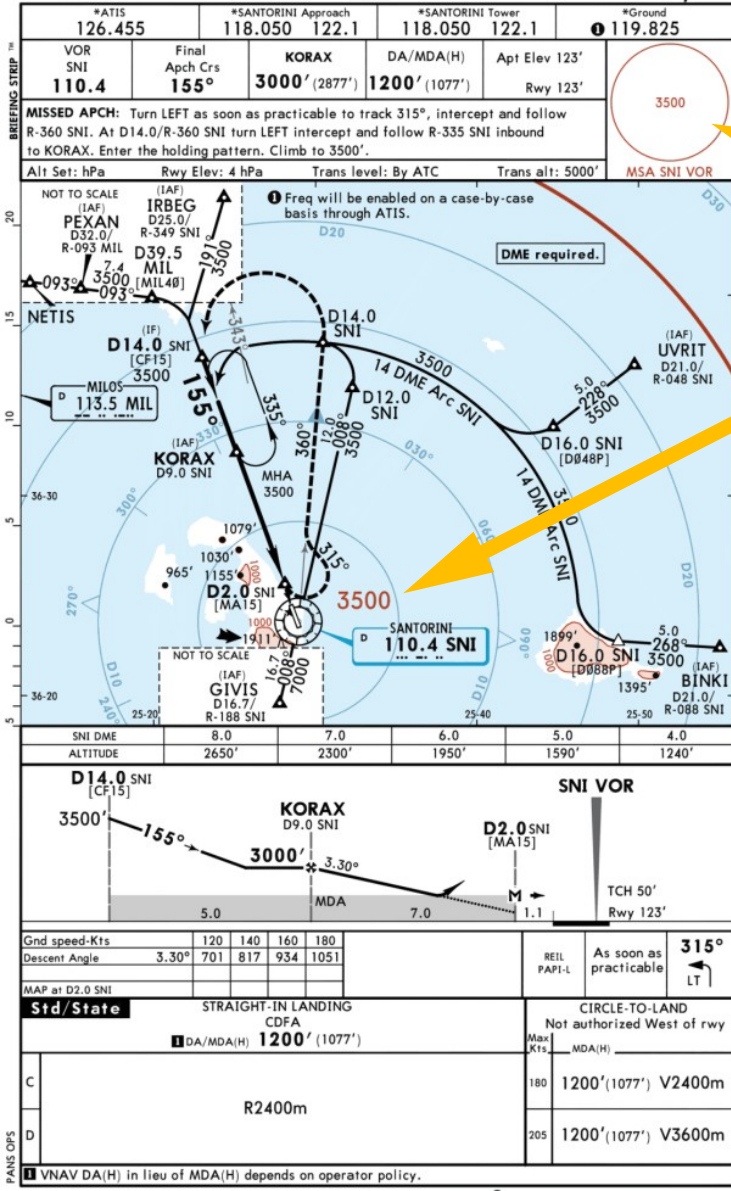
VOR/DME 110.4 SNI | FAT 158° | THR Elev 123 | AD Elev 123 | TL ATC | TA 5000



ACFT	VOR+DME	Circling	East of AD	DME	3.3°	LDA 2125x30
A	1200 (1070)	1.5km		10.4	3500	6971x98ft
B	1500m	1200 (1070)		9	3010	P 3.02°
C	1200 (1070)	1200 (1070)		8	2660	
D	2400m	2.4km		7	2310	
		3.6km		6	1960	
GS	80	100	120	140	160	
ROD 3.3°	470	590	700	820	940	

NavBlue charts won't be covered here, they are not available for flight simulation at this point.





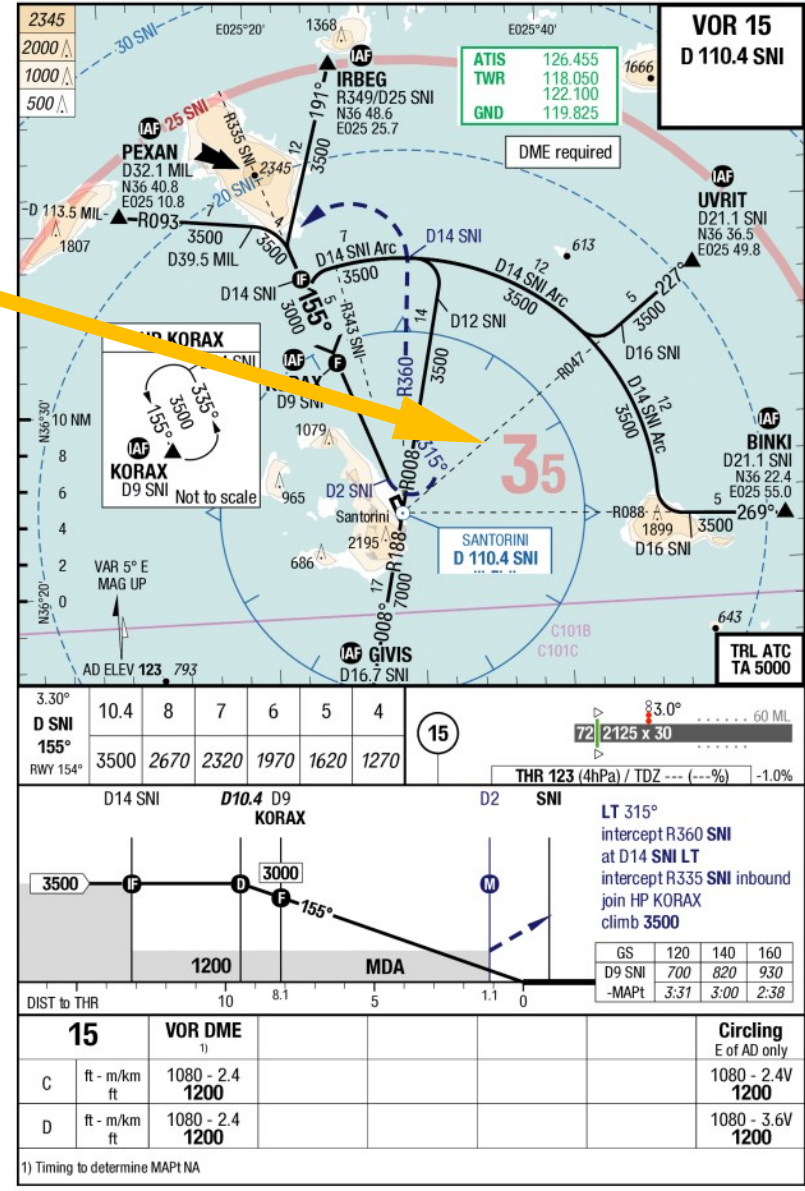
LGSR VOR 15

in a frame on the side

The MSA

the recent [airline variant] charts have it also integrated to scale

integrated to scale on the chart

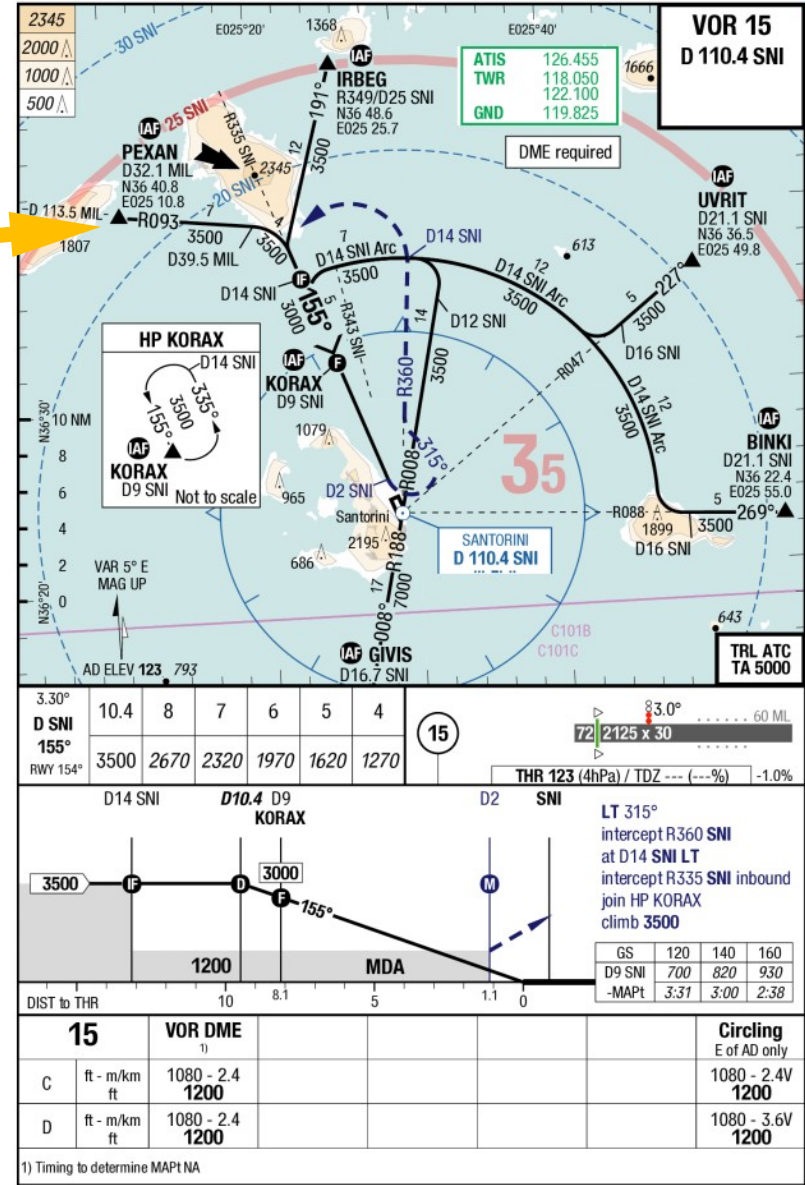




LGSR VOR 15

The scales

All distances always to scale



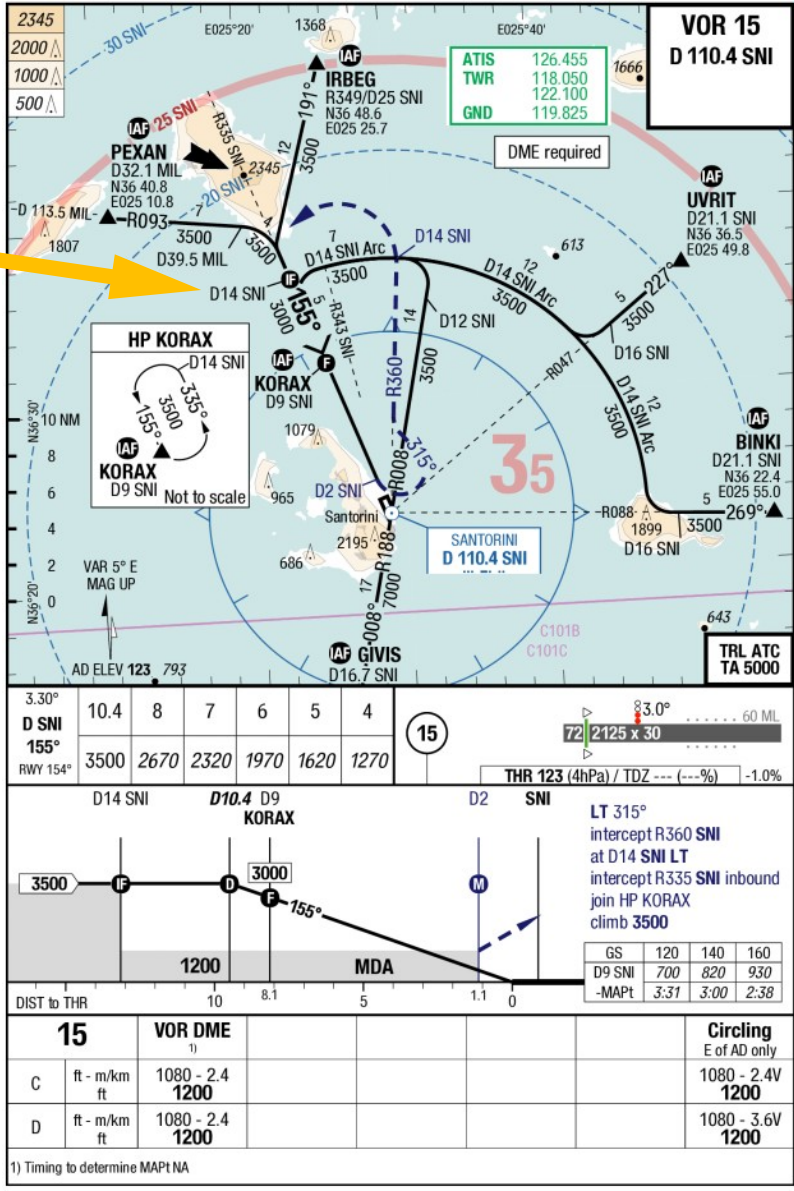


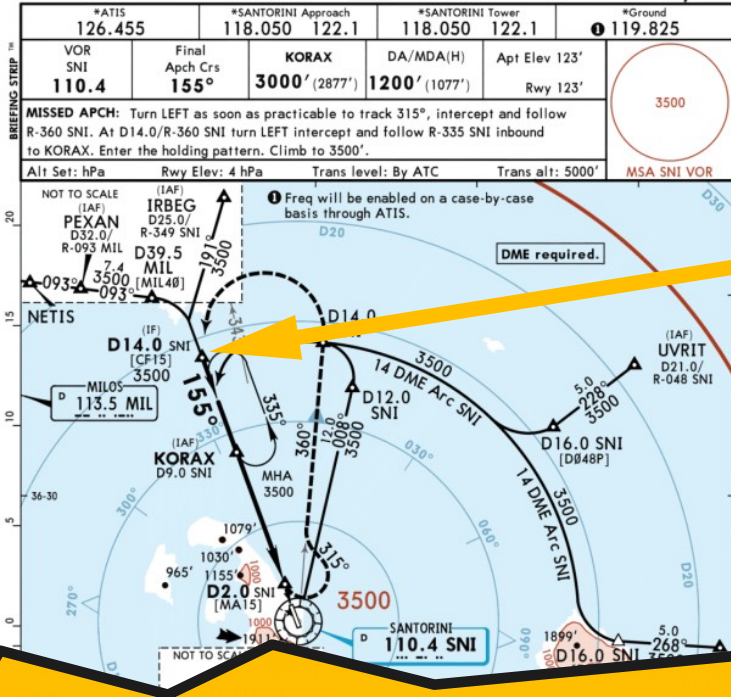
Waypoint naming convention

The reference beacon is explicit only on the recent charts.

The corresponding fix in the Jeppesen navigation database is written: "[CF15]"

Distance to the beacon "D14 SNI"



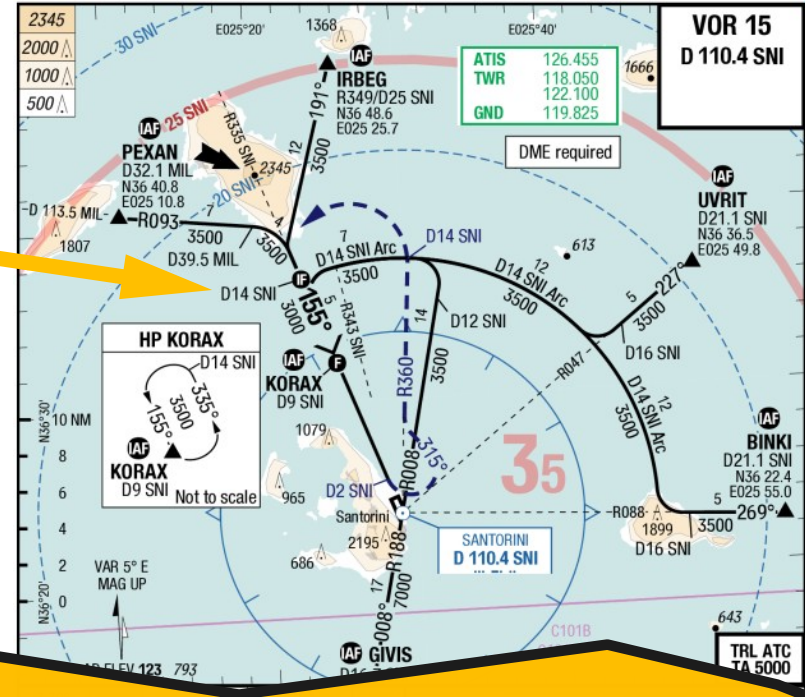


The reference beacon is explicit only on the recent charts.

The corresponding fix in the Jeppesen navigation database is written : "[CF15]"

Waypoint naming convention

Distance to the beacon "D14 SNI"



Jeppesen navigation data (X-Plane 12, Embraer E-Jet)

CF15	00+00	---	○	/	---
000°	5.0NM	---	○	/	---
KORAX	00+00	---	○	/	---
000°	7.0NM	---	○	/	---
MA15	00+00	---	○	/	---
000°	1.1NM	---	○	/	---
RW15	00+00	---	○	/	---
DEST LGSR					

"CF15" in the navdata

"D14 SNI" in the navdata as well

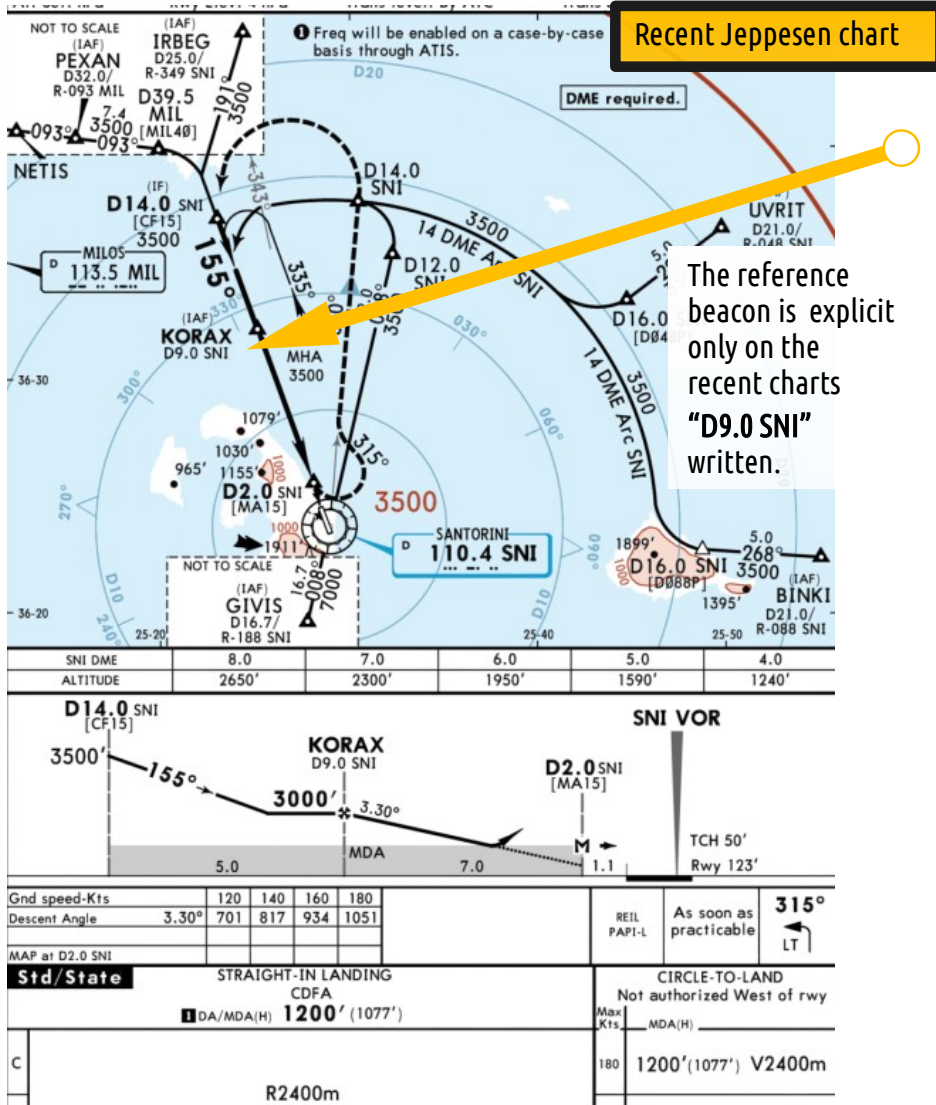
More explicit, don't you think ?
Some airlines mix their providers, if you have a Jeppesen navdata and LIDO charts, how do you do the correspondance of CF15 quickly ?

LSY (Lufthansa Systems) navigation data (X-Plane 12, Embraer E-Jet)

14SNI	00+00	---	○	/	---
000°	5.0NM	---	○	/	---
KORAX	00+00	---	○	/	---
000°	7.0NM	---	○	/	---
02SNI	00+00	---	○	/	---
000°	1.1NM	---	○	/	---
RW15	00+00	---	○	/	---
DEST LGSR					

Provided by Aerosoft

10th of June, 2022

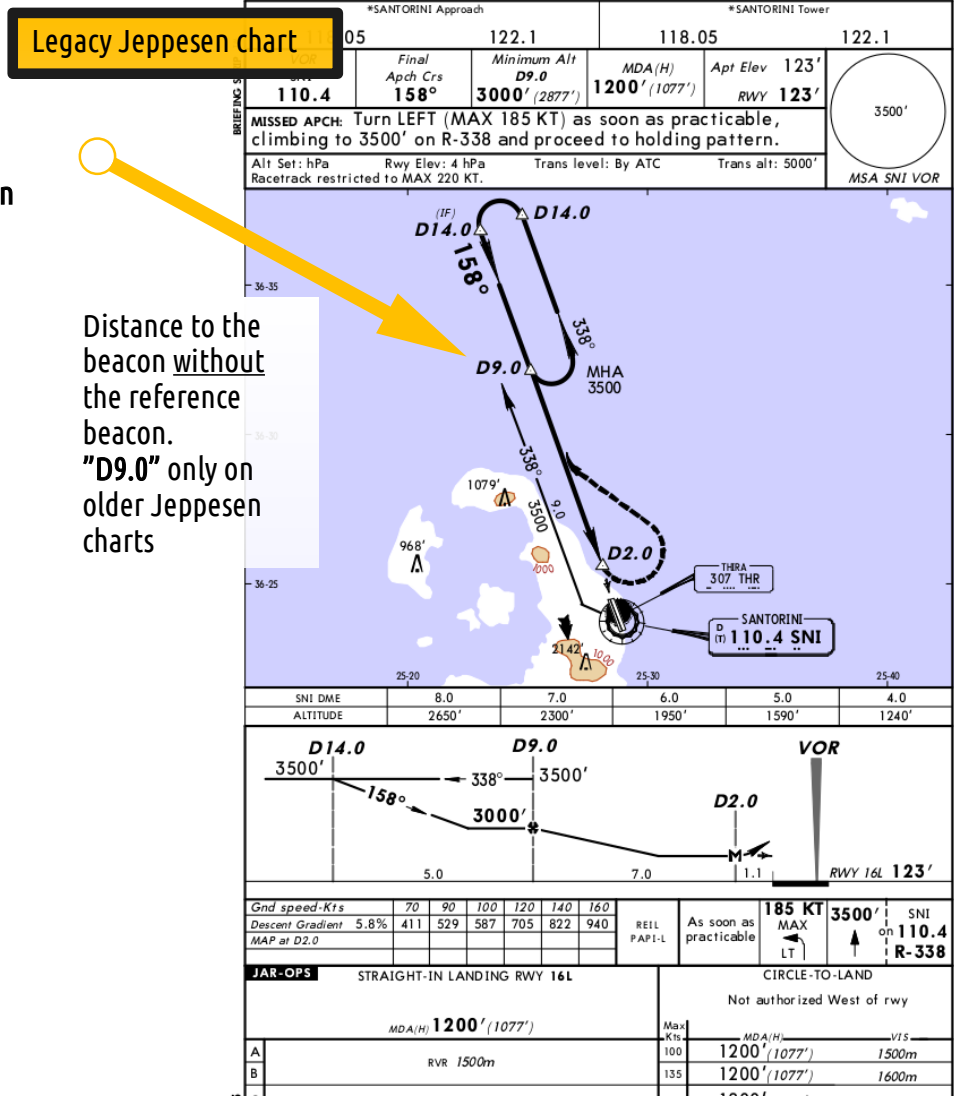


Recent Jeppesen chart

Waypoint naming convention

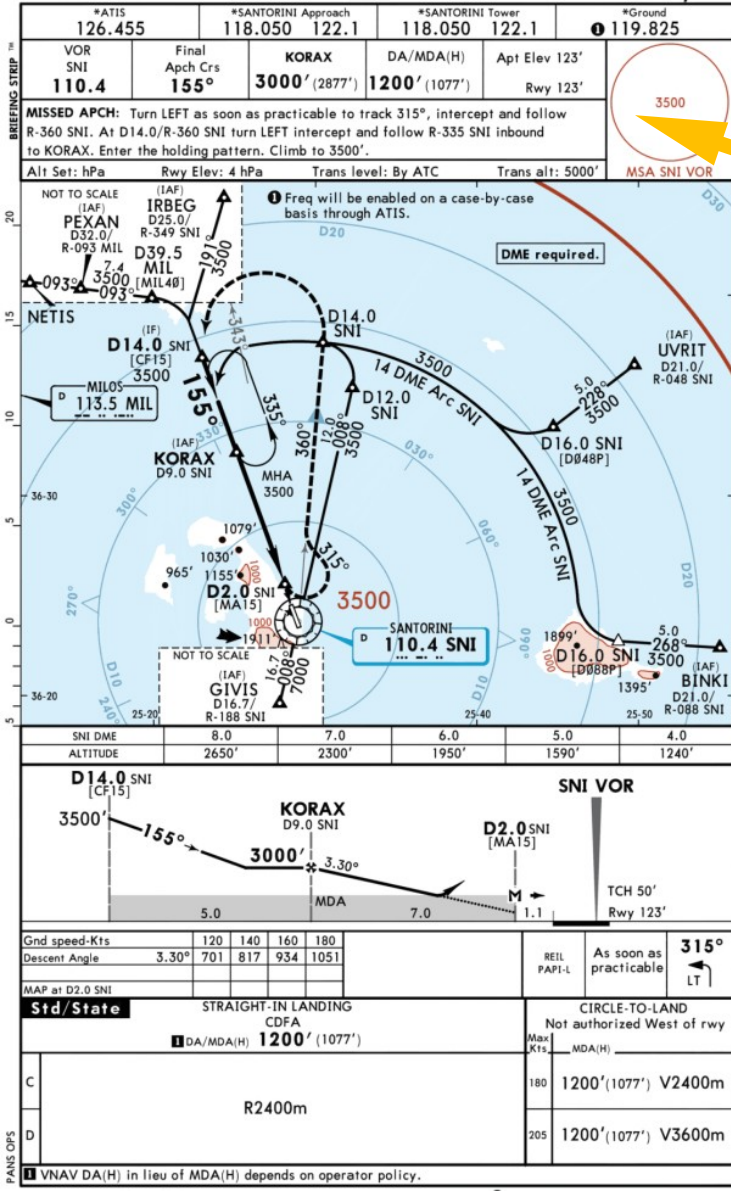
The reference beacon is explicit only on the recent charts "D9.0 SNI" written.

24th of March, 2006



Legacy Jeppesen chart

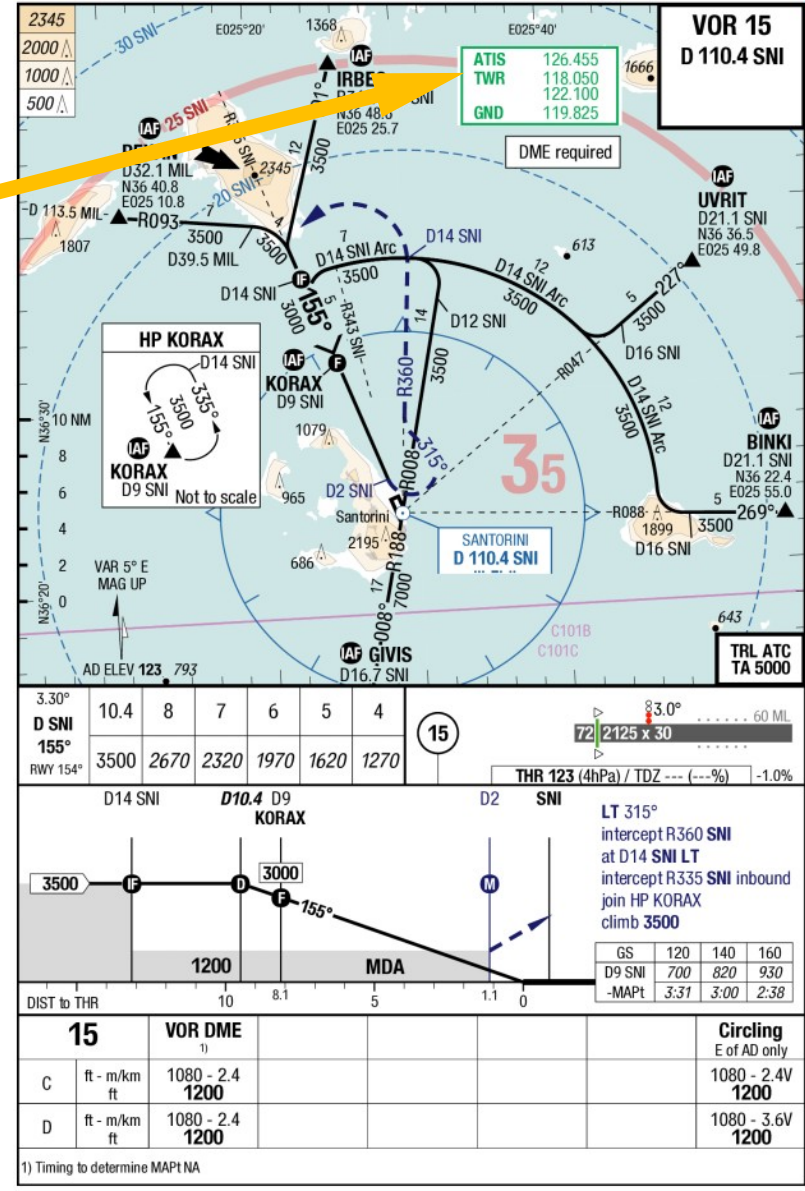
Distance to the beacon without the reference beacon. "D9.0" only on older Jeppesen charts

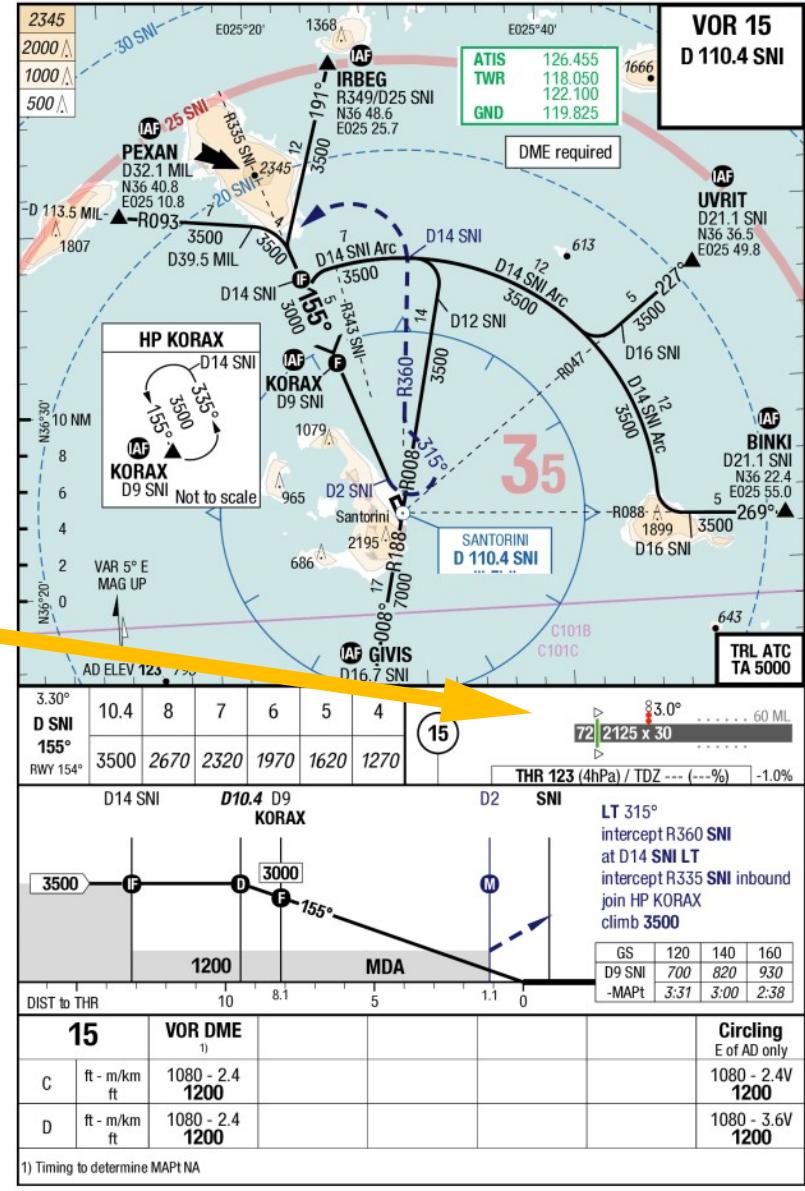


In the Briefing strip™

Contextual information

Integrated in the chart, leaves more room for the geographical depiction

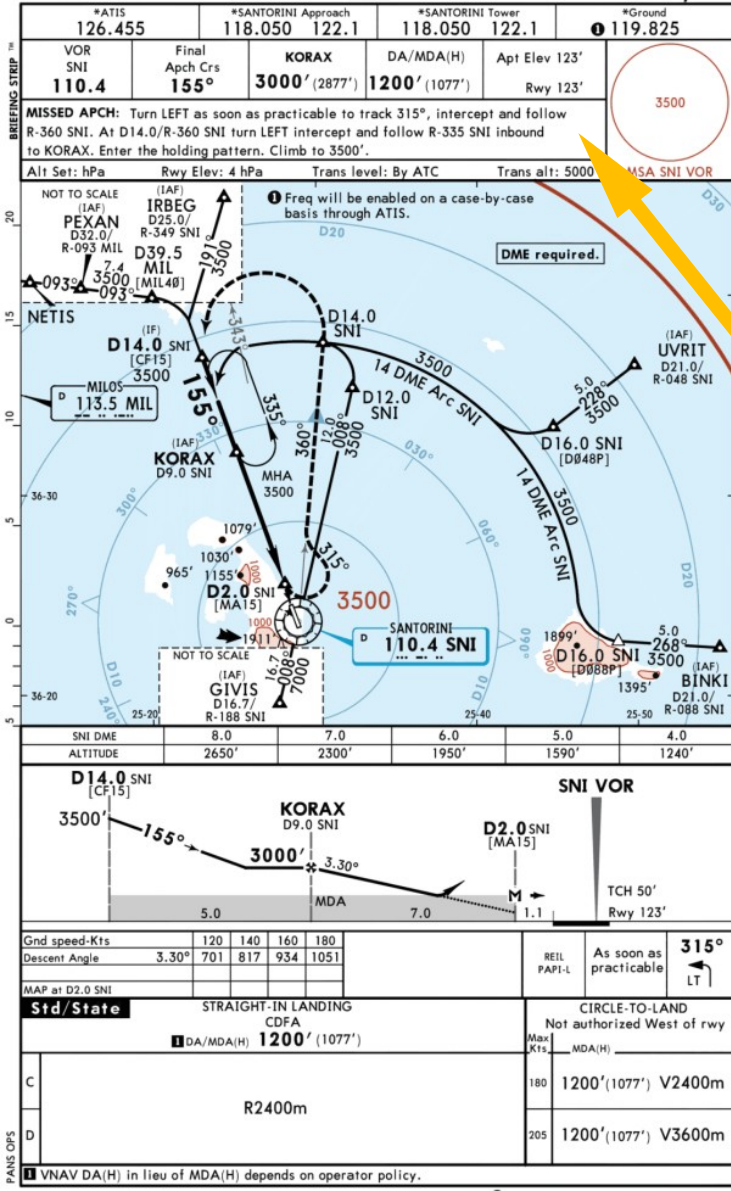




Runway length and lighting system

fully depicted

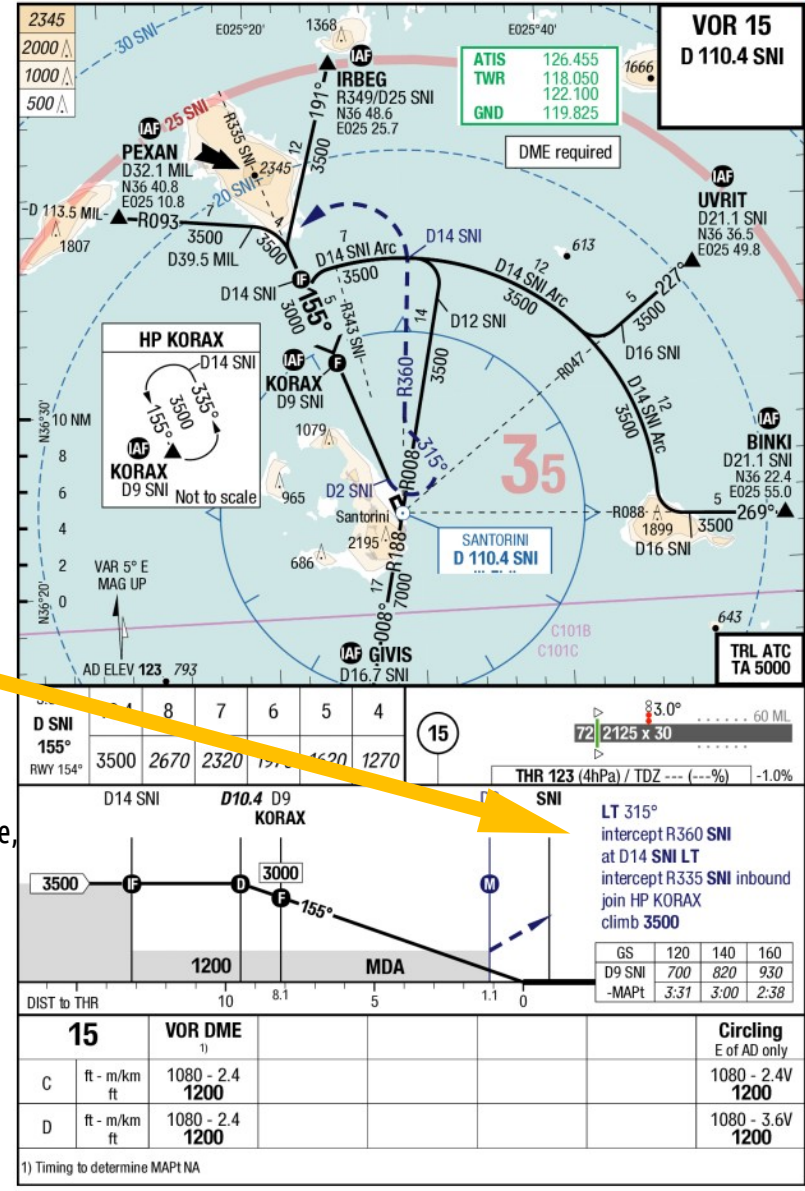
only a textual mention of the lighting system, no rwy length

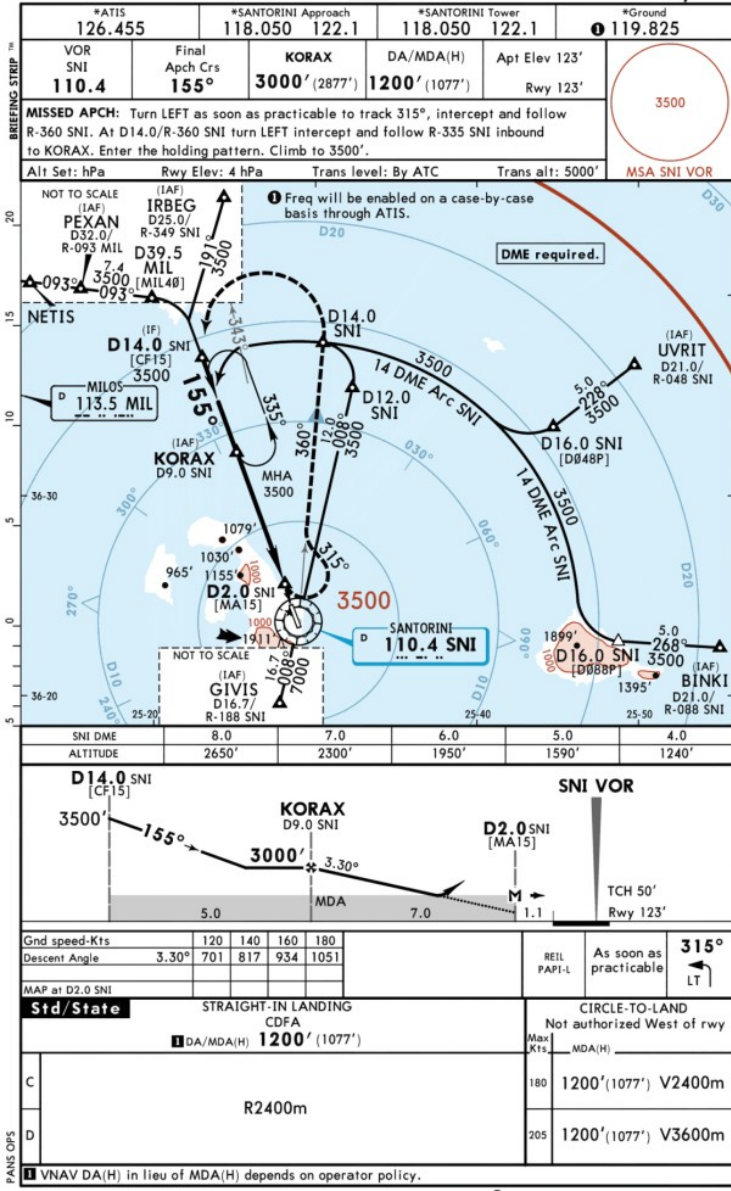


In the Briefing strip™

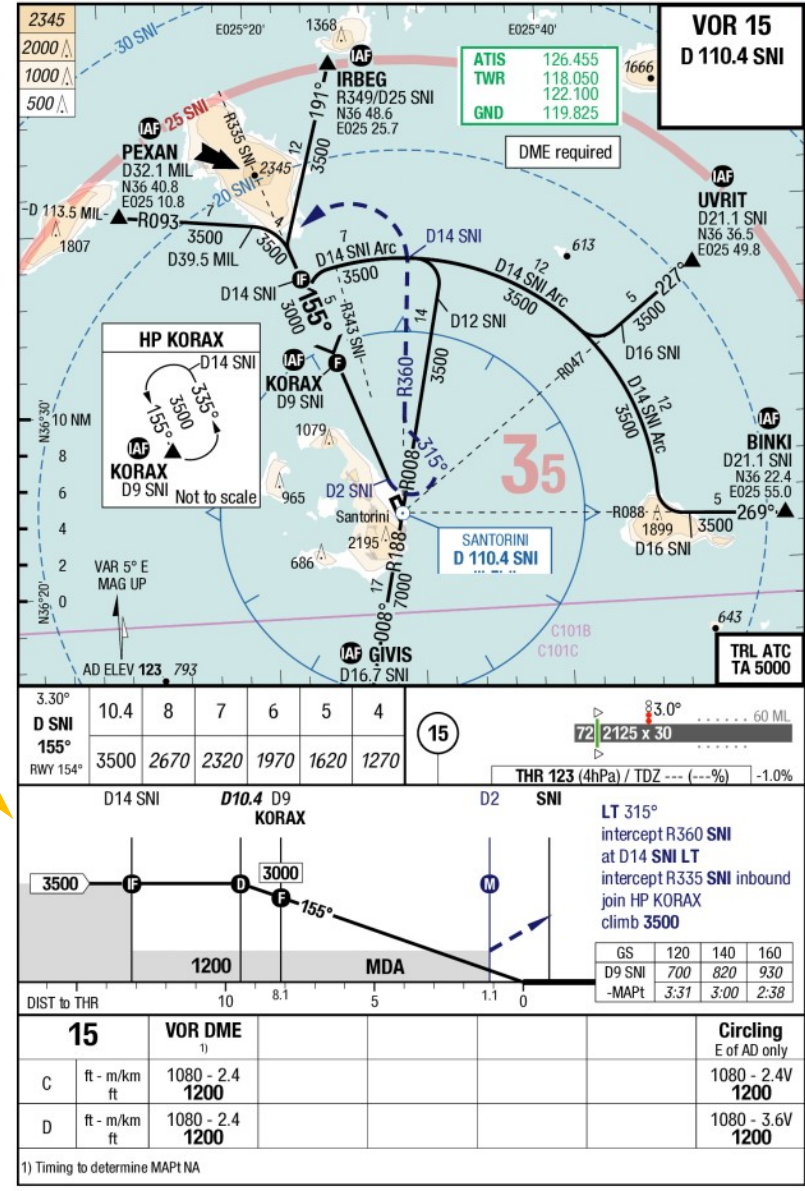
Missed approach description

always in the vertical profile, and synthetic





Very different!
Caution!

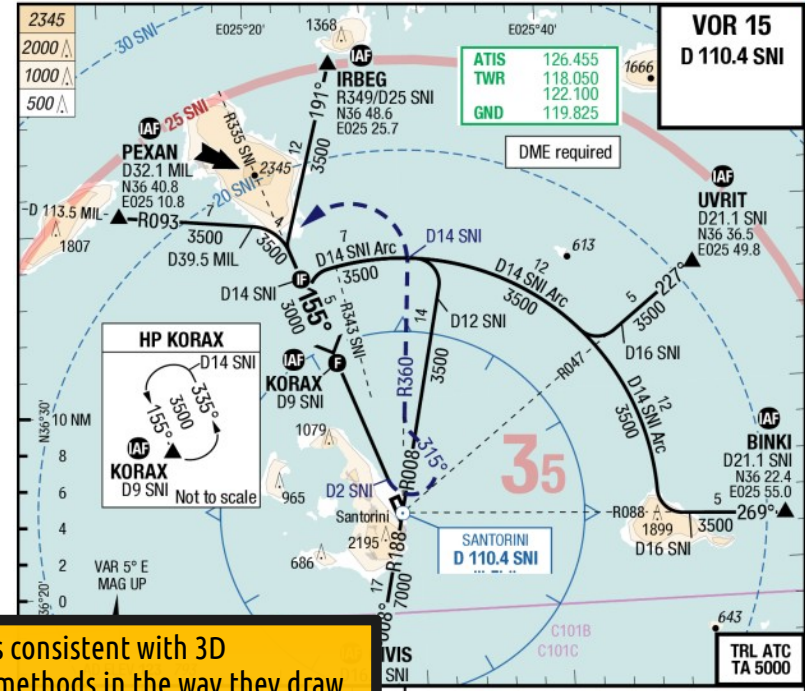


*ATIS 126.455	*SANTORINI Approach 118.050	122.1	*SANTORINI Tower 118.050	122.1	*Ground 119.825
VOR SNI 110.4	Final Aph Crs 155°	KORAX 3000' (2877')	DA/MDA(H) 1200' (1077')	Apt Elev 123'	Rwy 123'



Jeppesen made lots of changes in their charting convention for 2D and 3D operations methods lately ! Several standards coexists ! Watch it !

Vertical profile



LIDO always consistent with 3D operations methods in the way they draw the vertical profile across their charts.

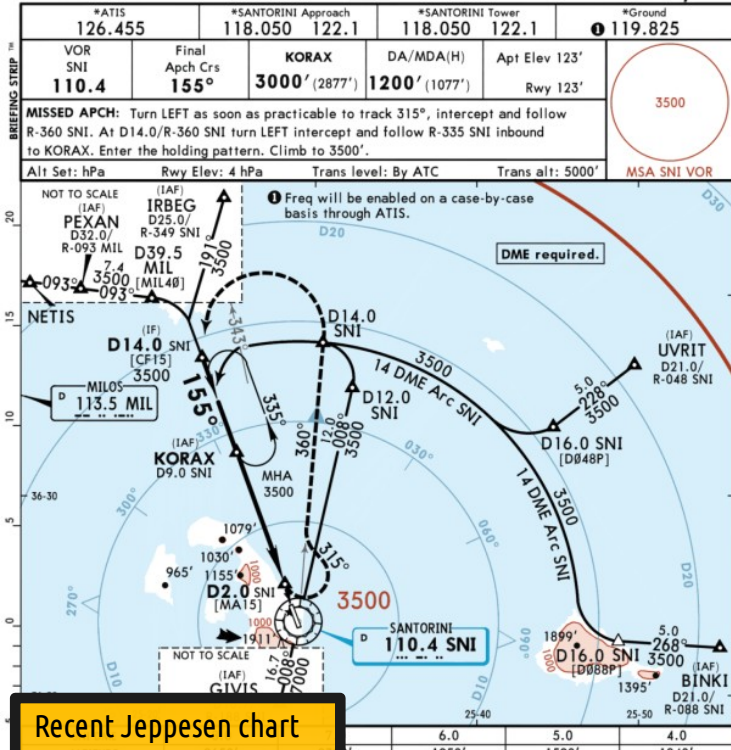
D14.0 SNI [CF15] 3500		KORAX D9.0 SNI		SNI VOR	
155°		3000		3.30°	
5.0		MDA		7.0	
1.1		TCH 50'		Rwy 123'	
Gnd speed-Kts	120	140	160	180	
Descent Angle	3.30°	7.01	8.17	9.34	10.51
MAP at D2.0 SNI	STRAIGHT-IN LANDING		CIRCLE-TO-LAND		
Std/State	CDFA		Not authorized West of rwy		
	DA/MDA(H) 1200' (1077')		Max Altitude MDA(H)		
C	R2400m		180 1200' (1077') V2400m		
D			205 1200' (1077') V3600m		

Many texts are surrounding the minimum indications.

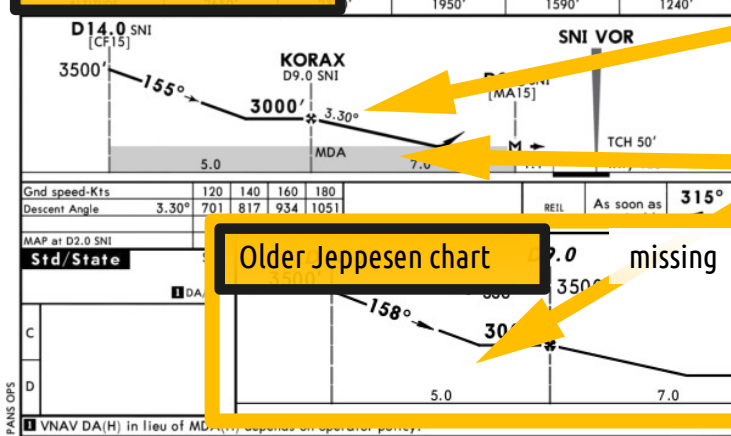
The MDA is written in a box quickly individually identifiable

RWY 154°		3500	2670	2320	1970	1620	1270	THR 123 (4hPa) / TDZ --- (-1.0%)			
D14 SNI		D10.4 D9 KORAX		D2 SNI		LT 315° intercept R360 SNI at D14 SNI LT intercept R335 SNI inbound join HP KORAX climb 3500					
3500		IF		D		F		M			
		1200		MDA		155°					
DIS	THR	10	8.1	5	1.1	0					
VOR DME										Circling E of AD only	
C	ft - m/km	1080 - 2.4		1200				1080 - 2.4V		1200	
D	ft - m/km	1080 - 2.4		1200				1080 - 3.6V		1200	

1) Timing to determine MAP NA



Recent Jeppesen chart



Older Jeppesen chart

Vertical profile

Not a 3° descent

Only depicted in gray on recent Jeppesen charts

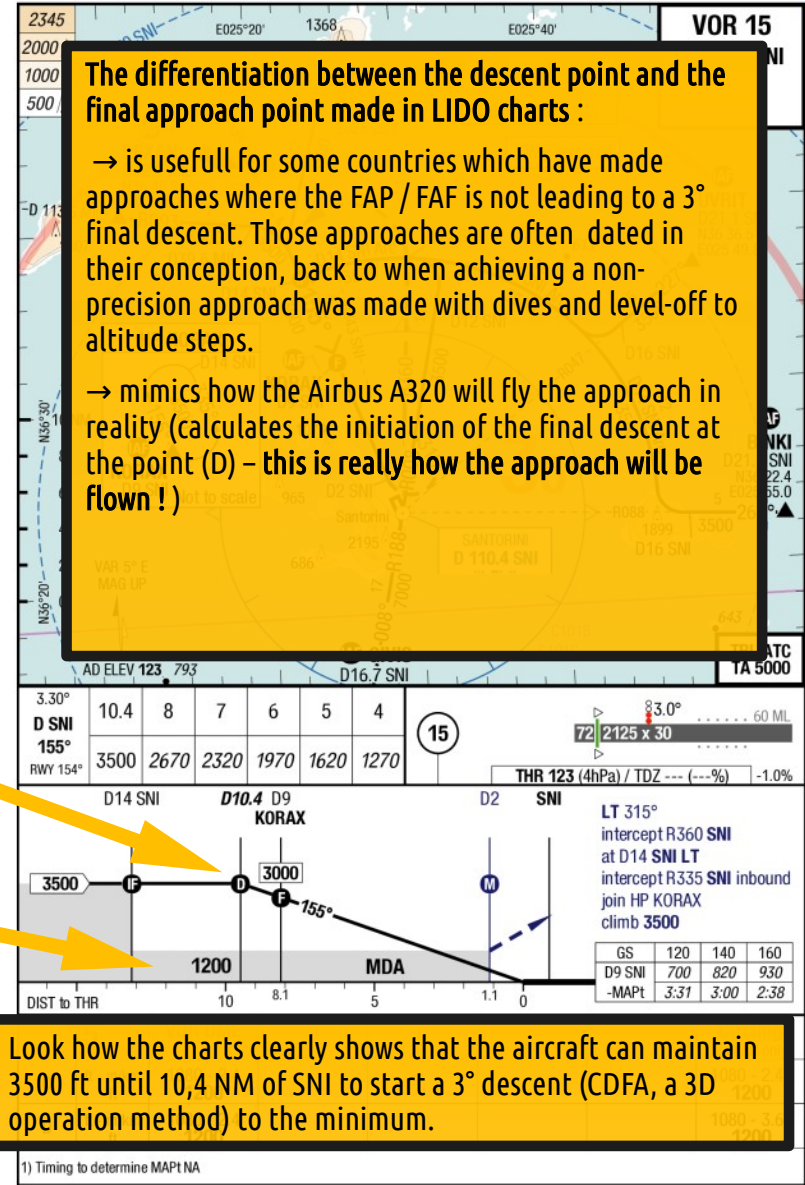
Adaptation of the charting to distinguish the descent point (D) from the FAF (F) to achieve a 3° descent

Limitations below the profile visually available in gray blocks

The differentiation between the descent point and the final approach point made in LIDO charts :

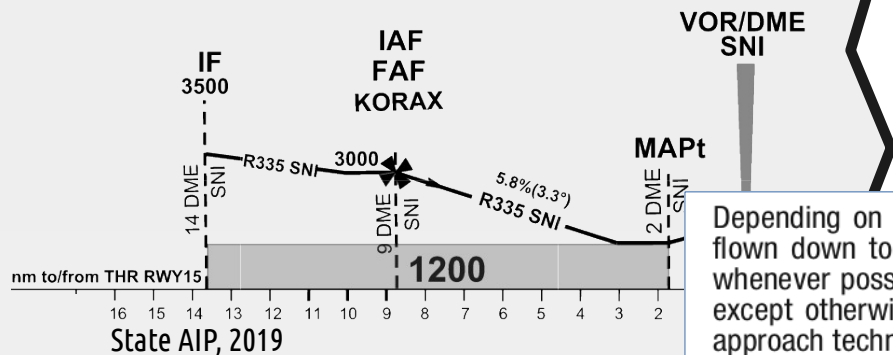
→ is usefull for some countries which have made approaches where the FAP / FAF is not leading to a 3° final descent. Those approaches are often dated in their conception, back to when achieving a non-precision approach was made with dives and level-off to altitude steps.

→ mimics how the Airbus A320 will fly the approach in reality (calculates the initiation of the final descent at the point (D) – this is really how the approach will be flown !)



Look how the charts clearly shows that the aircraft can maintain 3500 ft until 10,4 NM of SNI to start a 3° descent (CDFA, a 3D operation method) to the minimum.

1) Timing to determine MAP NA

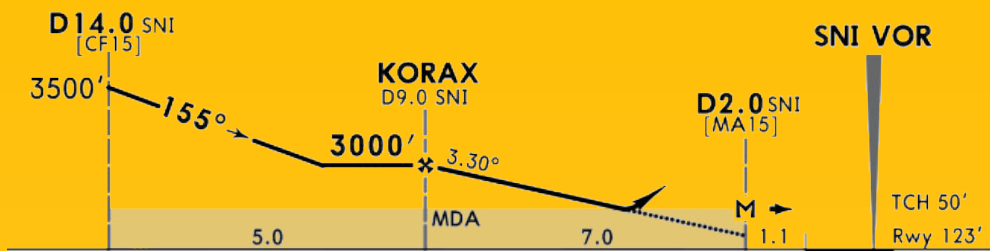


Depending on operators' flight standards and approvals any procedure flown with CDFA technique may be flown down to the published Non-Precision approach MDA/H using these values as DA/H. Lido publishes whenever possible a CDFA procedure. The minima shown in the Lido/RouteManual are calculated for CDFA except otherwise indicated within the minima section. For operations using conventional step down final approach technique refer to:

⇒ [Rules and Regulations](#) [General Information](#) 8.10.6.2 RVR/CMV vs. DH/MDH .

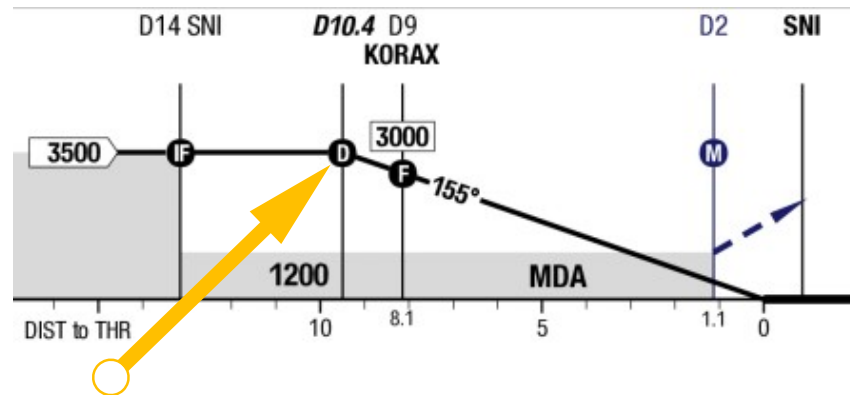
Landing Minima

DA/MDA: Will be derived by Lido from the state published OCA or DA/MDA rounded up to the next 10ft but never below lowest permissible.



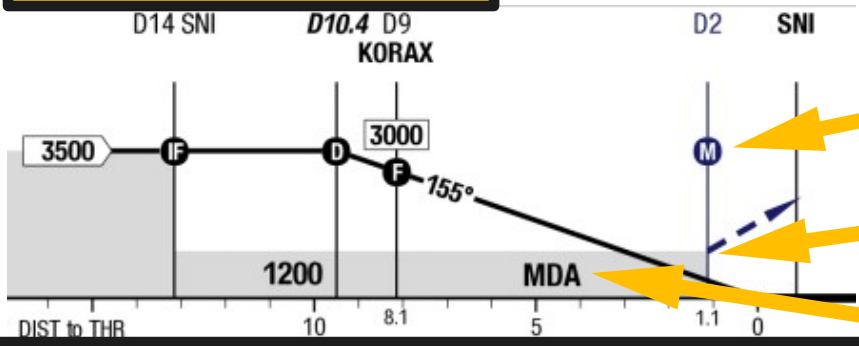
A vertical profile for a VOR approach by Jeppesen, 2022

A vertical profile for a VOR approach by LIDO, 2022



Look how the LIDO charts clearly shows that the aircraft can maintain 3500 ft until 10,4 NM of SNI to start a continuous descent to the minimum.

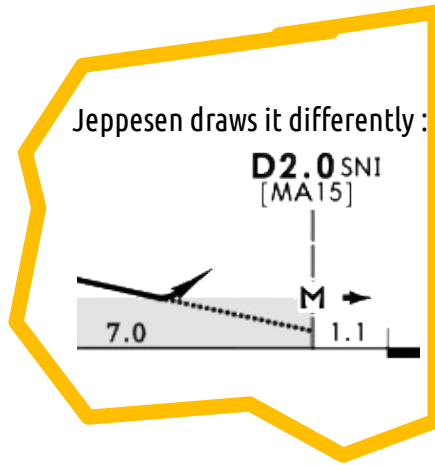
A non precision approach plate (LIDO)



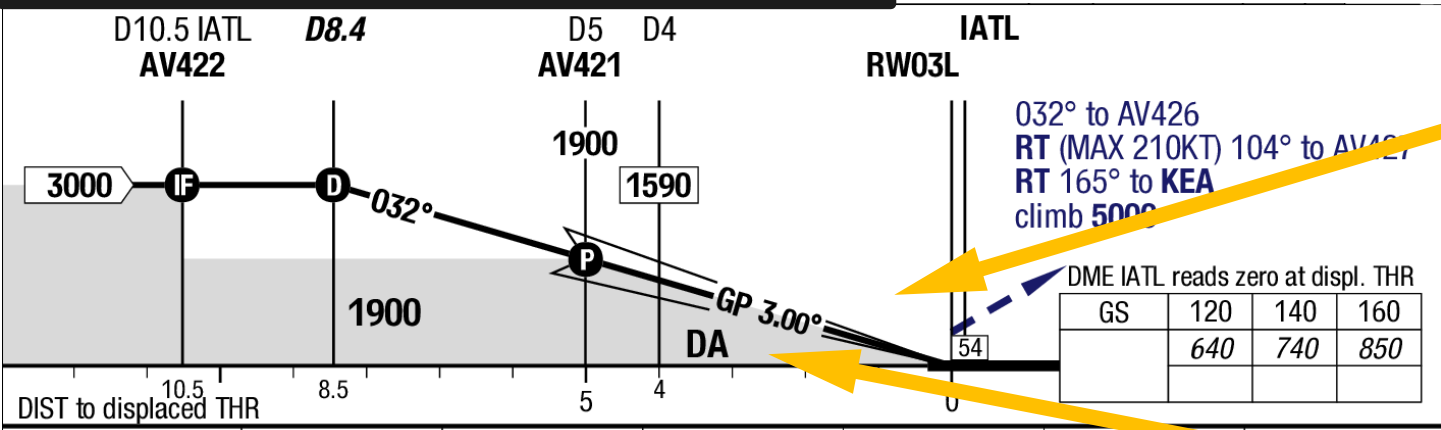
Missed approach point

Missed approach dashed arrow, is located at the end of the Minimum descent altitude and at the MaP. An evocation of the fact an NPA is depicted here.

"MDA"



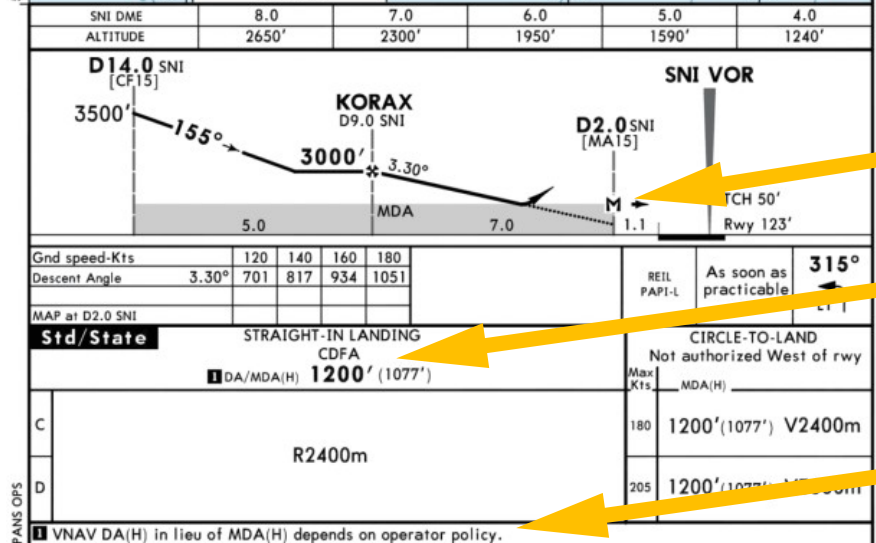
A precision approach only plate (not mixed with a NPA) (LIDO)



Different drawing of the DA (the grey block doesn't go above the ILS glide slope), and the angle is precised.

"DA"

03L		Cat 2 DME ACFT MAX 65/7	Cat 2 DME	Cat 1 DME ACFT MAX 65/7	Cat 1 DME	Circling
C	ft - m/km ft	100 - 300R 97 RA	186 - 450R 183 RA	260 - 600 510	270 - 600 520	Not authorized



Presentation of the minima, an evolution between pre-2019 charts and current charts when updated

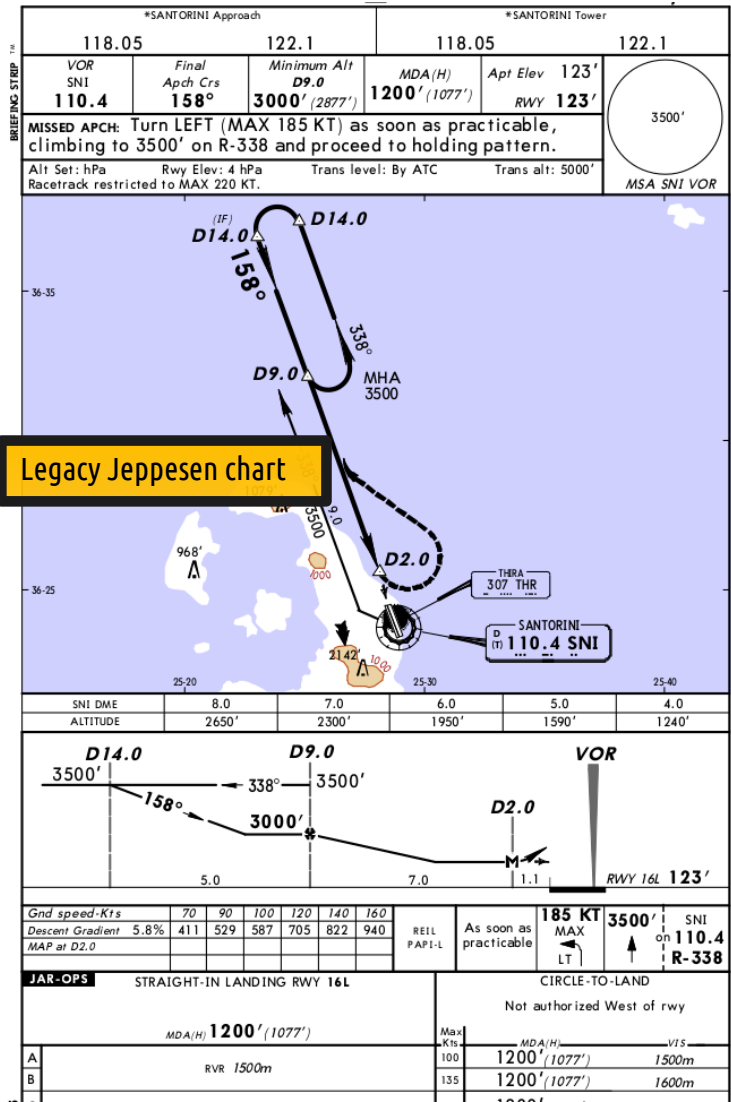
Jeppesen followed the recommendation to fly non precision approaches with a CDFA technique, which can be found for instance in the FAA advisory circular 120-108 dated January 2011 (or ICAO DOC 9365). The move in the recent years was to extend 3D operations to non-precision approaches (via CDFA to a decision altitude).

Last segment of the vertical profile now drawn without level-off

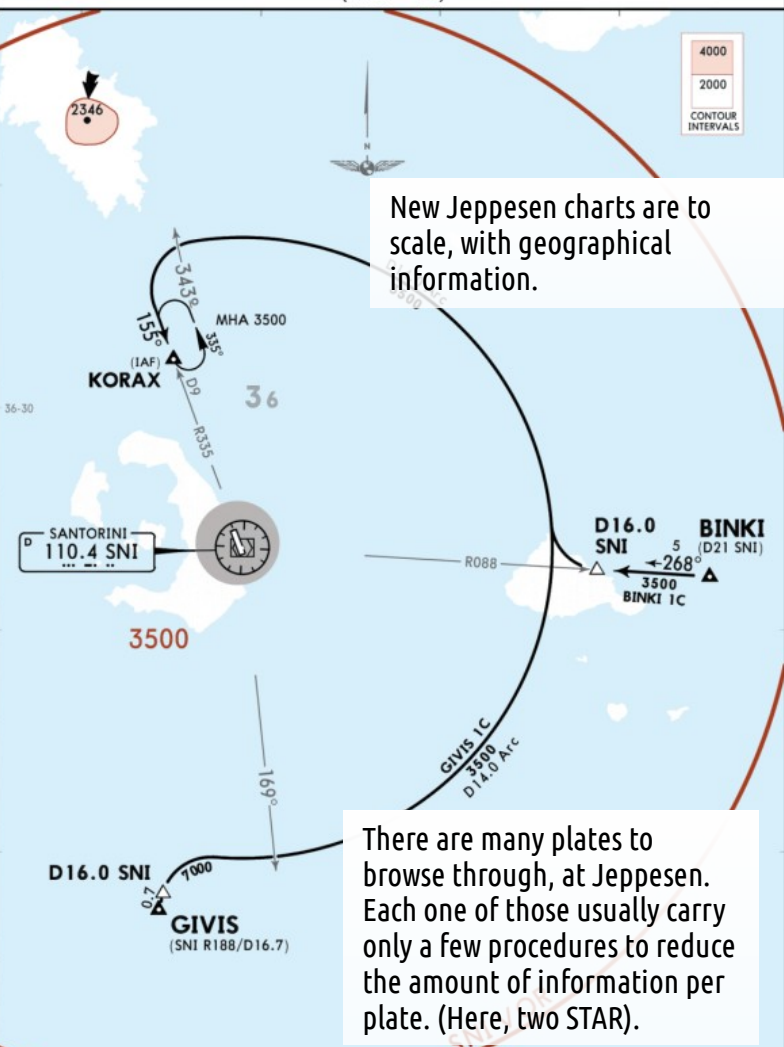
Minima now displayed with "DA" (for CDFA)

Reminder as a foot note : the label "DA/H" is from a State minimum OCA/H without loss height adjustment

24th of March, 2006



**BINKI 1C [BINK1C]
GIVIS 1C [GIVI1C]
ARRIVALS
(RWY 15)**



New Jeppesen charts are to scale, with geographical information.

There are many plates to browse through, at Jeppesen. Each one of those usually carry only a few procedures to reduce the amount of information per plate. (Here, two STAR).

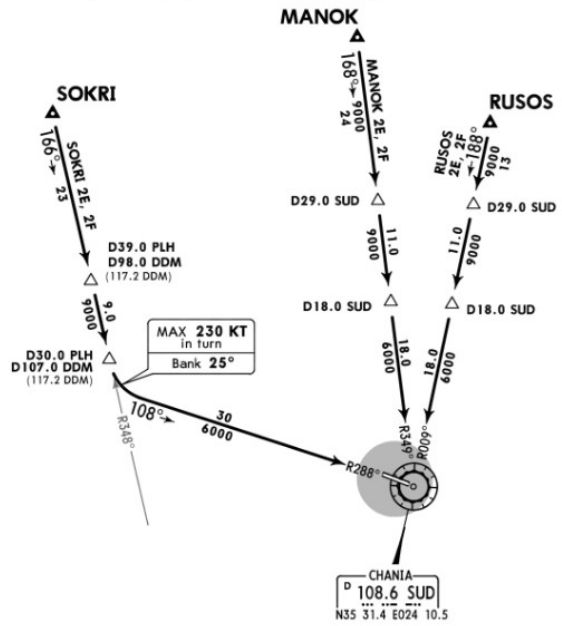
STARs RWY 15



More arrival procedures are drawn on an individual LIDO plate. (Here, five STAR)

*ATIS 130.180 Apt Elev 490' Alt Set: hPa Trans level: By ATC

MANOK 2E [MANO2E] MANOK 2F [MANO2F]
RUSOS 2E [RUSO2E] RUSOS 2F [RUSO2F]
SOKRI 2E [SOKR2E] SOKRI 2F [SOKR2F]
ARRIVALS (RWY 11L) ARRIVALS (RWY 29R)



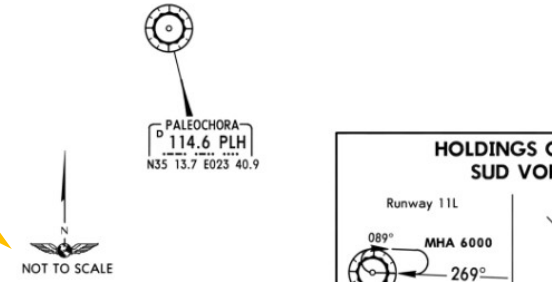
A legacy Jeppesen chart still in service in 2024.

Jeppesen SID and STAR charts, as of July 2024, have not all be renovated to the new concept. This arrival chart on the right was updated on 24 MAY 24, only a small update was made, not the renovation to the new charting concept. The procedures are NOT TO SCALE and no geographical context is shown.

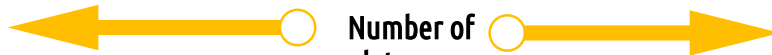
Those charts were able to depict all the information required for flying, an heritage from a time when the charts were printed black and white in paper, then sent to the customers.

Nowadays, it becomes possible to put more information (like the geographical elements) without disturbing the essential information.

Not to scale.



[APT] AIRPORT BRIEFING (GEN)
[APT] AIRPORT BRIEFING (ARR, DE
[APT] AIRPORT BRIEFING (DEP CO
[ARR] IRBEG, PEXAN & UVRIT 1A A
[ARR] IRBEG, PEXAN & UVRIT 1C A
[ARR] BINKI & GIVIS 1A ARRS
[ARR] BINKI & GIVIS 1C ARRS
[ARR] BINKI -GIVIS -IRBEG & UVRIT
[DEP] IRBEG 1E & 1W, SNI & UVRIT
[DEP] IRBEG, SNI & UVRIT 1X DEPS
[DEP] GIVIS 1W & KUPIS 1E DEPS
[DEP] GIVIS & KUPIS 1X DEPS
[DEP] MADEX & NETIS 1E & 1W DE
[DEP] MADEX & NETIS 1X DEPS
[APT] AIRPORT, PARKING, AIRPOR
[APP] RNP RWY 15
[APP] RNP RWY 15 MNMS
[APP] VOR RWY 15
[APP] VOR A
[APP] VOR B
[APP] NDB



Number of plates

21 for LGSR,
Jeppesen

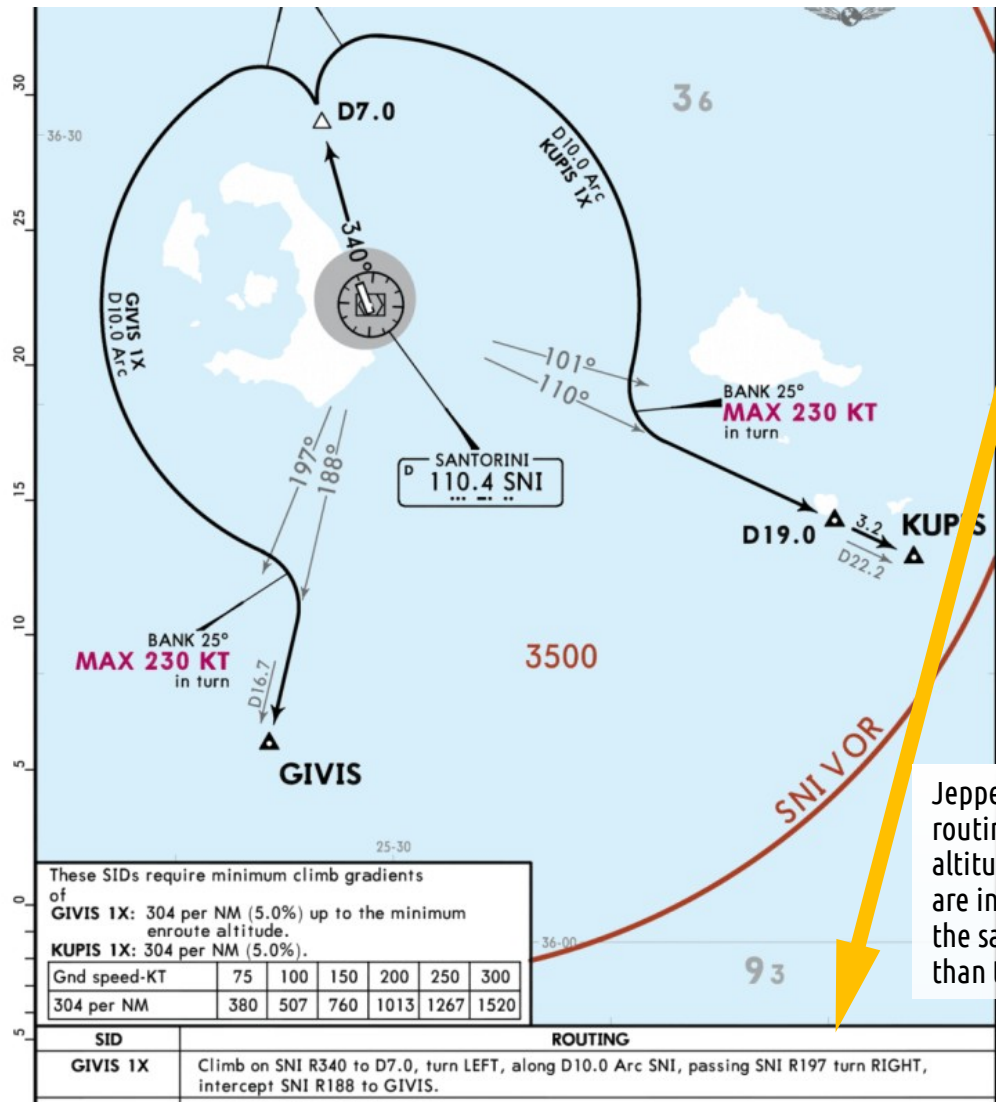
18 for LGSR,
LIDO

With 6 SID
plates and 5
STAR plates

With 2 SID
plates and 3
STAR plates

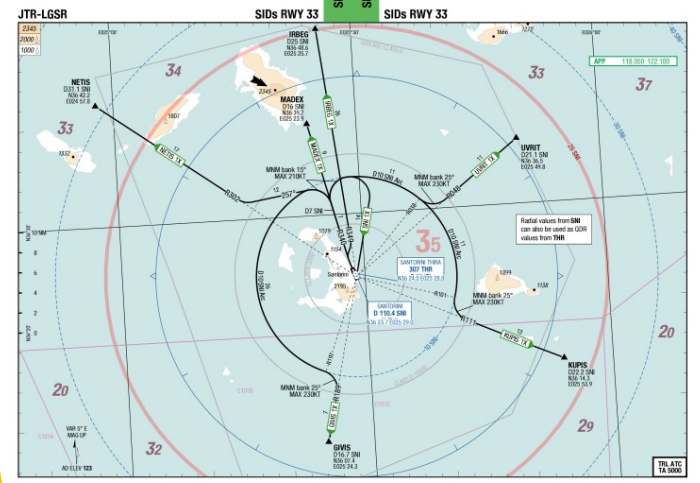
More arrival procedures are
drawn on an individual LIDO
plate.

AFC	AFC
AGC	AGC
AOI	1
AOI	2
AOI	3
IAC	NDB
IAC	RNP 15
IAC	VOR 15
IAC	VOR A
IAC	VOR B
SID	SIDs RWY 15
SID	SIDs RWY 33
SIDPT	SIDs RWY 15 p01
SIDPT	SIDs RWY 15 p02
SIDPT	SIDs RWY 33 p01
STAR	RNAV ARRIVALS RWY 15
STAR	STARs RWY 15
STAR	STARs RWY 33



SID routing

LIDO : the SID routing and initial flight level are found on a separate page, "SIDPT"



Effective 28-FEB-2019

Greece Santorini

JTR-LGSR

SIDs RWY 33

SIDPT

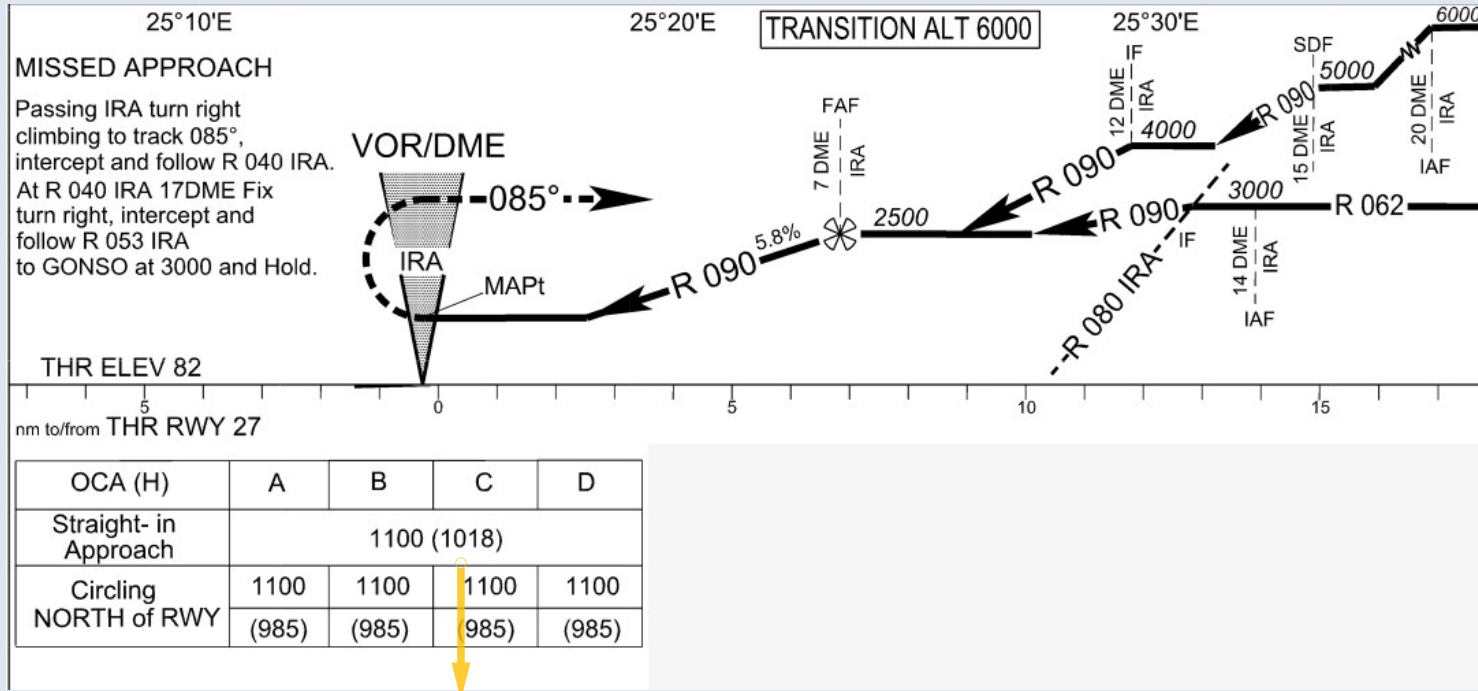
GIVIS 1X / IRBEG 1X / KUPIS 1X / MADEX 1X / NETIS 1X / SANTORINI 1X / UVRIT 1X
RWY 33 (34°)

	GS	120	150	180	210	240	270
5.0%	ft/MIN	700	800	1000	1100	1300	1400
5.5%	ft/MIN	700	900	1100	1200	1400	1600
7.8%	ft/MIN	1000	1200	1500	1700	1900	2200

DESIGNATION	ROUTING	ALTITUDES
Runway 33		
GIVIS 1X 5.0% to MEA 118.050	intercept R340 SNI (QDR 340 THR) - at D7 SNI LT (MAX 210KT, MNM bank 15°) follow D10 SNI Arc - crossing R197 SNI (QDR 197 THR) RT (MAX 230KT, MNM bank 25°) intercept R189 SNI (QDR 189 THR) to GIVIS	
IRBEG 1X 5.0% to MEA 118.050	intercept R349 SNI (QDR 349 THR) to IRBEG	
KUPIS 1X 5.0% to MEA	intercept R340 SNI (QDR 340 THR) - at D7 SNI RT (MAX 210KT, MNM bank 15°) follow D10 SNI Arc - crossing R101 SNI (QDR	

Let's study the hesitations Jeppesen's customer had to face in the recent years by using an example

The chart below is the State chart was published by a State ministry of transportation around 2014 for a VOR approach.



An OCH 1018 feet will make a MDH of 1018 feet if no other suspensive condition apply.

Here the State does not publish an MDH officially, only an OCA(H).

Obstacle clearance height (OCH) is the height on an instrument approach with the minimum permitted clearance above obstacles on the final approach.

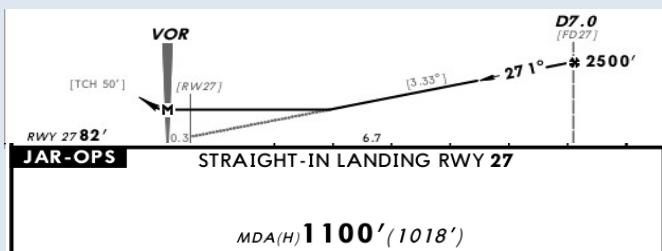
It does not take into account :

- the limitations associated with the navaid (system minimums)
- nor airplane minimums.

Thus the **minimum descent height (MDH)** – or the decision height for precision approaches) is the highest of the OCH, the system minimums or the airplane-associated minimums.

What Jeppesen did

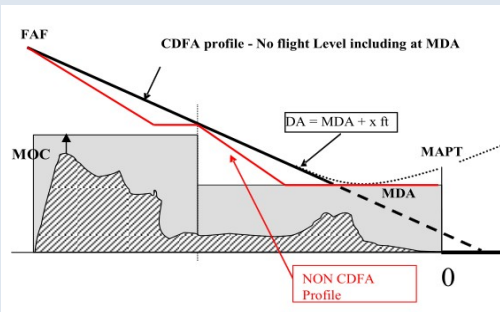
17th of november, 2006



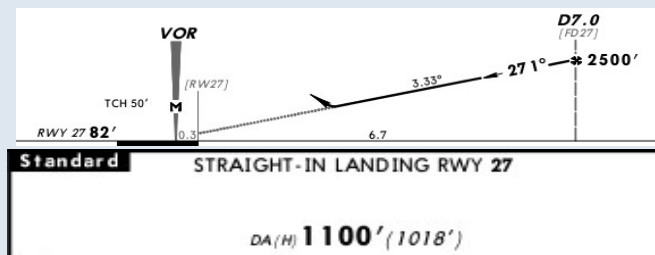
The legacy presentation. The final path is displayed as flow until the level off at the minimum descent altitude (MDA), maintained if the runway cannot be detected until the missed approach point (M), where the missed approach is initiated.

The non precision approach was depicted for what it is : a non precision approach, with the specific concept of the MDA.

And yet this does not prevented to fly this as a continuous descent final if desired (each airline may at its discretion derive a decision altitude from the MDA by adding a small marging).



16th of April, 2010

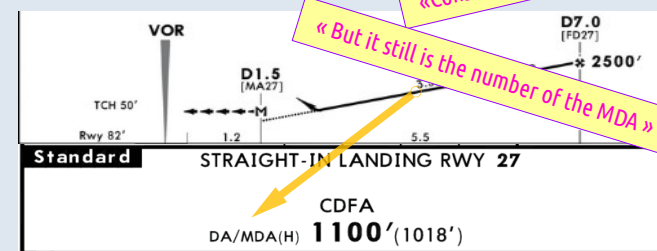


After 2010, Jeppesen remakes the charts. « DA » was then labelled on those non precision charts.

The intention of Jeppesen was to make a transition fo CDFA profiles to depict the non precision approaches but CDFA was not explicitly mentioned on them. That was not expected at first to read a DA on a non-precision procedure, which were flown for years with a dive and level-off method down to MDA/H.

Therefore at the same time in a Jeppesen set for a NPA chart, older charts not yet updated could use the classical depiction with a MDA label (suited to 2D operation method), while more recent charts carried a decision altitude label (suited to 3D ops).

13th of July, 2018



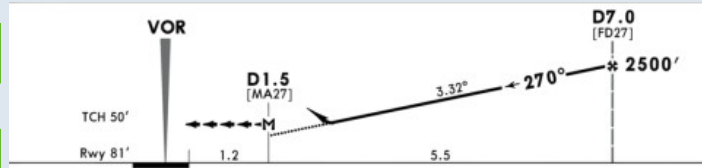
Since, Jeppesen revised their charting convention again.

On revised CDFA charts, the improved minima box makes explicitly the mention of the continuous descent technique and suggests this MDA should be treated as a DA, to execute a missed approach when reaching this altitude according to the CDFA flight technique (3D ops).

But the under-laying value is still an MDA : Jeppesen "does NOT include an add-on when publishing a DA(H) for a CDFA non-precision approach", they say. **Actually for this very approach what is labeled as DA here is the OCA(H) value in feet published by the State.**

Jeppesen rightfully aimed at coping with the recommendation to fly non precision approaches with a CDFA technique, which can be found for instance in the FAA advisory circular 120-108 dated January 2011 (or ICAO DOC 9365). The move in the recent years was to extend the 3D operations (via the technique of CDFA to a decision altitude) to non-precision approach procedures. Yet the evolution of Jeppesen charting convention was hesitant.

Past 2019



Std/State STRAIGHT-IN LANDING
CDFA
DA/MDA(H) 1310'(820')

VNAV DA(H) in lieu of MDA(H) depends on operator policy.

This was not the end, since a definitive (?) evolution of the convention was recently published by adding a foot note on each plate with explicitly explains that the DA mentioned is in fact an MDA which does not include a height loss adjustment for the CDFA flying technique.

JEPPESEN
BRIEFING BULLETIN
23 AUG 19 JEP 19-A

GLOBAL APPLICATION OF NEW AERODROME OPERATING MINIMUMS (AOM) CONCEPT

<p>Non-precision CDFA flight technique/continuous descent profile (LNAV, LP, LOC, VOR, NDB, VDF, SRA, etc.)</p>	OCA, OCH, OCA(H)	DA/MDA(H)	<p>The DA/MDA(H) is determined according to the rules described in ICAO AWOM and does not include a height loss adjustment. Adjustments may be made for rounded source values.</p>
--------------------------------------------------------------------------------------------------------------------------------	------------------	-----------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

The current **Standard** label on existing charts, which indicates the AOM are according to EU-OPS/EASA AIR OPS, will be replaced by **Std/State**

Want to know more about the aerodrome minima?
Please consult my paper on the subject.

Flying to Aerodrome Operating Minima

Previously in this presentation, we have seen that EASA had regulations relevant for circling approach minima. Let's see what TERPS has for us.

Source : <https://www.faa.gov/TERPS>

Document Type	Number	Directive	Date
Order	8260.3E	United States Standard for Terminal Instrument Procedures (TERPS)	2020-09-16

United States Standard for Terminal Instrument Procedures (TERPS), described in FAA Order No 8260.3E, 2020

3-3.3. Establishing Circling Visibility Minimums. Establish as a statute (SM) value. Meter (M) values are for locations outside the United States only. Determine circling visibility as the highest of:
a. The value specified in the applicable row and column of table 3-3-7.
b. The distance from the MAP to the nearest surface authorized for landing by a circling aligned procedure

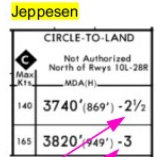
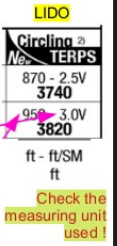


Table 3-3-7. Authorized Circling Visibility Minimums

CAT →	A		B		C		D		E	
	HAA	SM	SM	M	SM	M	SM	M	SM	M
350 - 449		1	1600							
450 - 549		1	1600	1	1600	1 1/2	2400			
550 - 600		1	1600	1	1600	1 1/2	2400	2	3200	2
601 - 670		1	1600	1	1600	1 3/4	2800	2	3200	2 1/4
671 - 740		1	1600	1	1600	2	3200	2 1/4	3600	2 1/2
741 - 810		1	1600	1	1600	2 1/4	3600	2 1/2	4000	2 3/4
811 - 880		1 1/4	2000	1 1/4	2000	2 1/2	4000	2 3/4	4400	3
881 - 950		1 1/4	2000	1 1/4	2000	2 3/4	4400	3	4800	3
951 and above		1 1/4	2000	1 1/2	2400	3	4800	3	4800	3

Federal Aviation Administration



<https://forums.x-plane.org/index.php?/files/file/53495-non-precisions-and-apv-approaches-what-really-is-this-minimum-on-the-chart/>

For a reminder, don't confuse **procedures classification** (like non-precision and precision approaches) and **operation methods** (like 2D operation or 3D operation).

The move in the recent years was to extend the 3D operations (via the technique of CDFA) to non-precision procedures.

ICAO document « Manual of All-weather Operations » makes a clear distinction between approach procedures and approach operations.

An **Instrument approach procedure** is the instrument flight procedure allowing an aircraft to navigate on the final approach down to a given obstacle clearance height (OCH), relying on a given type of navigational infrastructure.

Procedures are classified as either :

- non-precision (NPA) ;
- approach procedure with a vertical guidance (APV) ;
- precision approach (PA) procedure.

An operation method, is the manner in which an operated aircraft will follow the procedure. The classification approach operations is based on the performance, or ability to join an aerodrome minima throughout a flight method.

A 2D operation uses lateral navigation only. All 2D operations are classified as type A and are flown to an MDA/H.

3D approach operations use both lateral and vertical navigation guidance. LNAV/VNAV operations are an example of 3D operation method.



Free and official State charts !

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You are here: AIP Library

AIP Library

Flight Planner & Lido Charts

The newcomer !

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Options to gather charts for flight simulation

1) European State charts official and first-hand, for free, with an **EAD Basic** account :

https://www.ead.eurocontrol.int/fwf-eadbasic/restricted/user/aip/aip_overview.faces

2) **AviaPlanner**, by UFETA LLC, has LIDO charts

<https://aviaplanner.com/#sectionProducts>

Verified on July 2024 : all TEMPO, SID INIT, SIDPT LIDO charts are missing from the AviaPlanner LIDO charts package.

So for a start, a price at UFETA of 30 \$ yearly (27,52 €) for the annual AviaPlanner access is a similar price to what we paid for charts-only products till 2021 at Aerosoft and Navigraph, but with some data loss due to some missing LIDO plates.

I see on the forums that people are enthusiastic about the cheap AviaPlanner package. I say : no, it's not cheap, it's the same at the moment for charts only products !

Attention !



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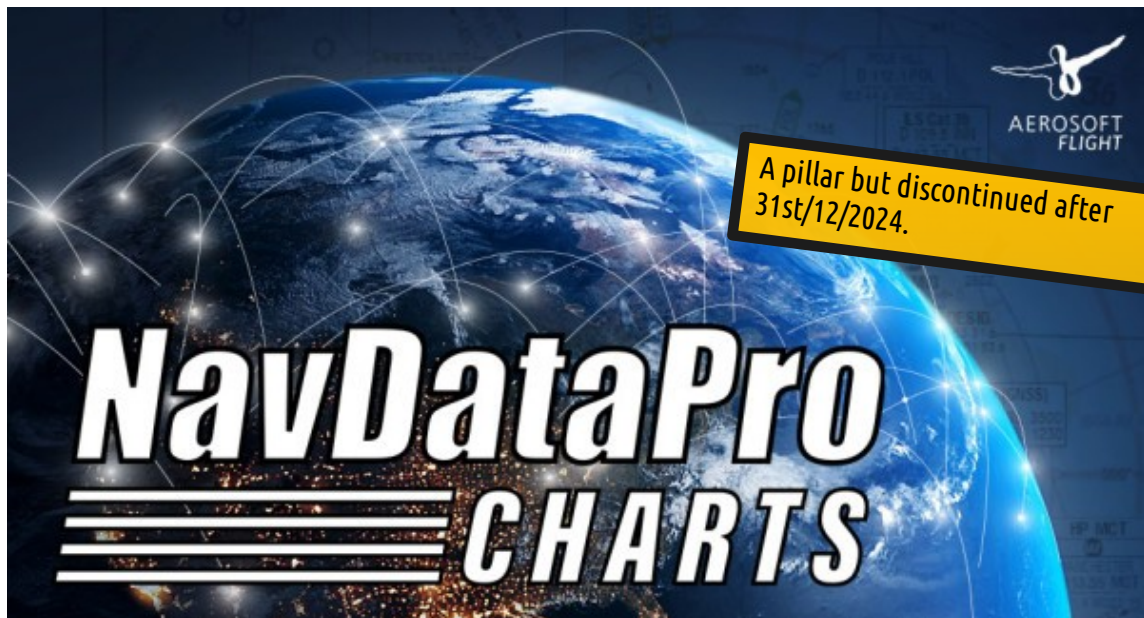
€35.75

Price includes VAT

Renews automatically once per year.
Can be canceled at anytime.

2) Navigraph has the Jeppesen charts in
Navigraph Unlimited

<https://navigraph.com/account/subscription>



Aerosoft
FLIGHT

A pillar but discontinued after
31st/12/2024.

NavDataPro CHARTS

3) Aerosoft **NavDataPro** (charts and navdata) has **complete** LIDO charts
End of service in 12/2024.

<https://www.aerosoft.com/fr/boutique/flight/p3d-fsx/flight-simulator-x/utilitaires/1484/navdatapro-charts-one-month-access>

Prices for charts-only products, when the where last available.

		01/05/15	01/05/16	01/10/18	01/03/21	
Jeppesen	1 year	19,92 €	23,90 €	31,08 €	32,38 €	▶ Navigraph
LHS	1 year	24,00 €	25,20 €	30,24 €	30,24 €	▶ Aerosoft NDP

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AviaPlanner

The document provides a comparative analysis of Jeppesen and LIDO charts used in aviation.

The key differences highlighted include:

Chart Format and Presentation:

Jeppesen charts traditionally use a dive and level-off method down to the Minimum Descent Altitude (MDA), while more recent revisions have introduced the concept of Decision Altitude (DA) for non-precision approaches using Continuous Descent Final Approach (CDFA) techniques. LIDO charts, by contrast, integrate various pieces of information such as geographical elements and minimum sector altitudes more seamlessly.

Charting Conventions:

Jeppesen has undergone several revisions in its charting conventions to better align with CDFA recommendations, often leading to confusion among users due to inconsistent labeling and the addition of explanatory footnotes. LIDO charts tend to provide a clearer, more integrated presentation, which is consistent across different types of charts.

Operational Techniques:

The evolution of Jeppesen charts reflects a shift towards promoting 3D operations (using both lateral and vertical navigation guidance) even for non-precision approaches. LIDO charts consistently support this integrated approach, aiding pilots in maintaining situational awareness and ensuring safer operations.

User Experience:

The document discusses user experiences with both Jeppesen and LIDO charts, noting that Jeppesen's frequent changes have led to some confusion, whereas LIDO's approach has been praised for its clarity and consistency. The document also resumes which aviation charts are available for flight simulation users at this date (2024) through suppliers such as Aerosoft (NavDataPro), Navigraph (Navigraph Unlimited), Ufeta (Aviaplanner) or EAD basic.

Keywords

Jeppesen charts - LIDO charts - Aviation navigation - Minimum Descent Altitude (MDA) - Decision Altitude (DA) - Continuous Descent Final Approach (CDFA) - Non-precision approach - 3D operations - Charting conventions - User experience - Instrument flight procedure