

## Aero Club Dauphiné Aviation English Master Class Session 2

## James Crowley and the ACD FCL055 team

http://crowley-coutaz.fr/jlc/FCL055

### Session Planning (\*aspirational\*)



9 November The FCL055 Rating, Course structure, Presentation of Participants, Information Resources, Sample Practice Flight

**16 November** Flight Crews, VFR Phraseology, ATIS Structure, Sample Flight Briefing

Flight Plan Briefings, Weather Terminology, Sample Briefing 23 November

30 November Weather Briefings, Airfield terminology, Taxi and Departure Phraseology

07 December Airfield Briefings, Taxi and Departure Practice, Pattern Reporting Phraseology

14 December Pattern Practice, Air spaces and airways, Enroute Phraseology

21 December EnRoute Briefings, Enroute Phraseology Practice, Inflight Emergencies ?

28 December

Inflight Emergency Practice, ATIS practice, Arrival and Approach 04 January

- Arrival Briefings, Landing, Refueling and Taxi to Parking. 11 January
- 18 January Class Debriefings, FCL 055 VFR test preparation.

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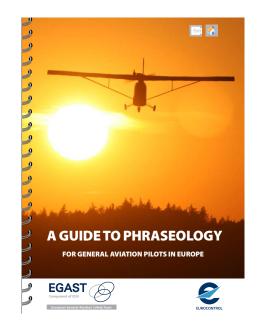
- **Aviation English Master Class**
- Formation of Flight Teams
- VFR Phraseology
- Automated Terminal Information Systems
- Sample Flight Briefing for next week

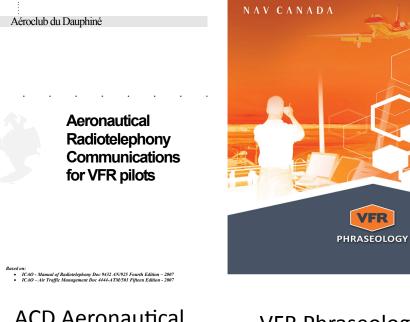


### ACD MasterClass Flight Crews

Crew	Names	Aircraft	Туре	Departure	Destination
1	Gabriel Faivre, Jean-Laurent Philippe	F-HGPC	DR455	LFLG	LIMZ
2	Frank Minair, Christian Charrier Johan Malaquin	F-HCEN	DR435	LFAC	EGSU
3	Francois Zanier, Frederic Dumas	F-GNXT	DR455	LFLS	LSZA
4	Jean-Louis Monin, Roman Dieuguillot	F-GSRE	DR460	LFLS	LSGL
5	Thomas Calmant, François-Karim Laben	F-HBFO	DR435	LFLS	LSGE
6	Jean-Yves Larnaudie, Alejandro López	F-HGPC	DR455	LFLS	LIPZ
7	Augustin Chatain, Anouche Richalet, Maxime Pelissier				
8	Sebastien Roy, Alexis Mermet	F-HGPC	DR455	LFLG	LIMZ
9	Sebastien Monges, Simon Lang	F-HGPC	DR455	LELL	LFLG

# Sources for VFR Phraseology





Eurocontrol A Guide to Phraseology ACD Aeronautical Radiotelephony Communications for VFR (J.-Y. Larnaudie) VFR Phraseology (Nav Canada) SIA Phraséologie

3ème

édition

**Phraséologie** 

SIA LA REFERENCE EN INFORMATION AERONAUTIQU

6

## Standard Words and Phrases (from Nav Canada VFR Phraseology)

Word	Meaning
ACKNOWLEDGE	Let me know you have received and understood this message
AFFIRMATIVE-	Yes Use AFFIRM not AFFIRMATIVE
APPROVED	Permission granted
BREAK	Separation between portions of the message
BREAK BREAK	Separation between messages for two different aircraft
CHECK	Examine a system or procedure
CONFIRM	Verify (clearance, instruction, action, information) given
CONTACT	Establish communication with
CORRECT	True/accurate
CORRECTION	An error was made in transmission, the correction will follow
DISREGARD	Ignore
EXPEDITE	Comply with instruction as soon as safely able
GO AHEAD	Proceed with transmission
HOW DO YOU READ	Can you hear my transmissions clearly?

## Standard Words and Phrases (from Nav Canada VFR Phraseology)

Word	Meaning	
I DO NOT UNDERSTAND	I do not understand, please rephrase your last transmission	
I SAY AGAIN	I repeat for clarity or emphasis	
IMMEDIATELY	Immediate action required for safety reasons	
MONITOR	Listen to (frequency)	
NEGATIVE	No/permission not granted/not correct/not capable	
<del>over</del>	End of transmission, requires response WWII Aviation Movie Lingo?	
READ BACK	Repeat all, or specified part of message back	
ROGER	Avoid: WWII Aviation Movie Lingo )	
SAY AGAIN	Repeat all, or specified part of last transmission	
SPEAK SLOWER	Reduce rate of speech	
STAND BY	Wait and monitor frequency, caller will re-establish contact	
UNABLE	Cannot comply with instruction/clearance/request	
WILCO	Avoid: WWII Aviation Movie Lingo	
WORDS TWICE	Communication difficult: please say every word/group of words twice Communication difficult: therefore I will repeat every word/group of words twice	

## Phraseology Guidelines (from Nav Canada VFR Phraseology)

- ATS will use NINER and FIFE, however, pilots are not required to use these terms and may use NINE and FIVE.
- You may group numbers together if the number is an aircraft type number, flight number, wind speed, cloud height, visibility or direction of traffic using the 12-hour clock system.

Example	Pronunciation
Airbus 320	Airbus Three Twenty
West Jet 620	West Jet Six Twenty
Wind 270/10	Wind Two Seven Zero at Ten
BKN035	Thirty Five Hundred Broken
Traffic 10 O'clock	Traffic Ten O'clock

Phraseology Guidelines: Stand By and Go Ahead (from Nav Canada VFR Phraseology)

Aviate, Navigate, Communicate

- "Stand By" is used when time is needed between transmissions. This may be to verify or gather information, or because there is another task being performed.
- **Stand by** means wait, the individual who initiated the stand by will re-establish contact when they are ready.
- The phrase "GO AHEAD" is only used as an instruction to proceed with your transmission. It is never used as an authorization for an aircraft or vehicle to taxi, or to approve a request.
- If you receive a clearance or instruction that you do not understand, say "I DO NOT UNDERSTAND". The instruction/clearance will be explained to you using different words.

### Transpoder Phraseology (from Nav Canada VFR Phraseology)

ATC Phraseology	Meaning
SQUAWK (numerical code)	Input assigned transponder code
SQUAWK IDENT	Press the "ident" feature of transponder
SQUAWK MODE CHARLIE	Ensure MODE C function is selected
STOP SQUAWK MODE CHARLIE	Turn off MODE C function
RESET/RECYCLE TRANSPONDER	Turn transponder off, and then back on
CONFIRM SQUAWK	Visually and then vocally confirm the selected mode/code
SQUAWK STANDBY	Select "standby" function
ROGER IDENT	Used by FSS to acknowledge a request to squawk ident or change to a new code
YOUR TRANSPONDER APPEARS UNSERVICABLE/MALFUNCTIONING	You are not showing up properly on the radar screen. Cycle transponder OFF and back ON to see if this fixes the issue

## Air Traffic Service (ATS) units (from Nav Canada VFR Phraseology)

ATS Unit	Service	Call Sign
	Clearance Delivery	(location) CLEARANCE DELIVERY
Airport Control	Ground Control	(location) GROUND
	Tower Control	(location) TOWER
	Arrival Control	(location) ARRIVAL
Terminal Control	Departure Control	(location) DEPARTURE
	Terminal Control	(location) TERMINAL
Area Control		(location) CENTRE
Flight Service Station and Flight Information Centre (FSS/FIC)	Airport Advisory Service (FSS)	(location) RADIO
	Flight Information Service Enroute-FISE (FIC)	(location) RADIO

(from: A GUIDE TO PHRASEOLOGY FOR GENERAL AVIATION PILOTS IN EUROPE)

#### **Aircraft Callsign Prefixes**

...the name of the aircraft manufacturer or name of the aircraft model may be used as a prefix to the registration,... (This is widely practiced in the US, encouraged in Europe). Examples: **Cessna F-DCBA, Robin F-GTPT, Cirrus F-GTCI** 

#### **Establishing Communications**

When establishing communications, an aircraft should use the full call sign of both the aircraft and the aeronautical station.

**Pilot**: [Station Name] [Station Type] [Aircraft Call Sign]

Station: [Aircraft Call Sign] [Station Name] [Station Type]

Example:

**Pilot**: Le Versoud Ground, Robin F-GTPT on the Apron Good Morning

**Tower**: Robin F-GTPT, Le Versoud Ground. Pass your message

(http://www.apprendreavoler.fr/phraseo/Files/Other/phraseoEngV1.4.pdf)

All numbers, except as specified above, shall be transmitted by pronouncing each digit separately

aircraft call signs AF 238 Olympic 242	transmitted as Air France two three eight Olympic two four two
flight levels FL 180 FL 200	transmitted as flight level one eight zero flight level two zero zero
Headings 100 degrees 080 degrees	transmitted as heading one zero zero heading zero eight zero
wind direction and speed 200 degrees 25 knots	transmitted as wind two zero zero degrees two five knots
160 degrees 18 knots gusting 30 knots	wind one six zero degrees one eight knots gusting three zero knots
	eight knots gusting three zero
30 knots transponder codes 2400	eight knots gusting three zero knots transmitted as squawk two four zero zero

FREQUENCIES: All six digits... should be used..., except in the case of both the fifth and sixth digits being zeros, in which case only the first four digits should be used.

Channel	Transmitted as
118.000	ONE ONE EIGHT DECIMAL ZERO
118.005	ONE ONE EIGHT DECIMAL ZERO ZERO FIVE
118.010	ONE ONE EIGHT DECIMAL ZERO ONE ZERO
118.025	ONE ONE EIGHT DECIMAL ZERO TWO FIVE
118.050	ONE ONE EIGHT DECIMAL ZERO FIVE ZERO
118.100	ONE ONE EIGHT DECIMAL ONE

Time: only the minutes of the hour should be required.

Each digit should be pronounced separately.

The hour should be included [only] when [there is] possibility of confusion.

09:20	TOO ZERO or ZERO NINER TOO ZERO
16:43	FOUR THREE or ONE SIX FOUR THREE

(http://www.apprendreavoler.fr/phraseo/Files/Other/phraseoEngV1.4.pdf)

... numbers ....[for]....altitude, cloud height, visibility and runway visual range (RVR), which contain whole hundreds and whole thousands, shall be transmitted by pronouncing each digit in the number of hundreds or thousands followed by the word HUNDRED or THOUSAND as appropriate.

Combinations of thousands and whole hundreds shall be transmitted by pronouncing each digit in the number of thousands followed by the word THOUSAND followed by the number of hundreds followed by the word HUNDRED.

Altitude	transmitted as
800	eight hundred
3 400	three thousand four hundred
12 000	one two thousand
cloud height	transmitted as
2 200	two thousand two hundred
4 300	four thousand three hundred
Visibility	transmitted as
1 000	visibility one thousand
700	visibility seven hundred
runway visual range 600 1 700	transmitted as RVR six hundred RVR one thousand seven hundred

### **Automatic Terminal Information Service**

#### ATIS (ICAO)

Airfield, identifier, Time (UTC), [Approach], Runway in use, Runway Condition, [Significant NOTAMS], Wind speed and direction, Visibility, Cloud cover, Temperature, Dew point, QNH, QFE, Inform [Airfield] [Station] on first contact that you have information [Identifier]

#### ATIS (FAA)

Airfield, identifier, Time (UTC), Wind speed and direction, Visibility, Cloud cover, Temperature, Dew point, QNH, QFE, [Approach], [Density Altitude], Advise on initial contact that you have information [Identifier]

#### AWOS (Automated Weather Observing System)

An automated airport weather system that provides continuous, real time information and reports on airport weather conditions. Depending on the configuration, AWOS measure a combination of the following parameters: Barometric pressure, Wind speed and wind gusts (in knots), Temperature and dew point (in degrees Celsius), Visibility and variable visibility, Sky condition, cloud ceiling height, Precipitation type, Runway surface conditions



LFLG-ATIS-I-19mar2022

LFLS-ATIS-G-20mar2022

LFBD-ATIS-I-19mar2022

**ATIS EDSB Baden KILO** 

EGJJ-ATIS-F-Jersey-19mar2022

**ATIS Cambridge CHARLIE** 

Assignment for 23 Nov 2023 Preflight Briefings



Each Team: Prepare to give a preflight briefing for your practice flight composed of:

- 1) Aircraft: Type, Call Sign, Performance.
- 2) Flight Plan: Departure, Destination, Airspace, Alternates, Route, Fuel
- 3) Fun facts about the destination

### Assignment for 23 Nov 2023 Preflight Briefings



Example:

Team 0: Jim Crowley Trip: KSAT to KHDO with SR20 N-689PG

## SR20 N689 PG



## SR20 N689 PG

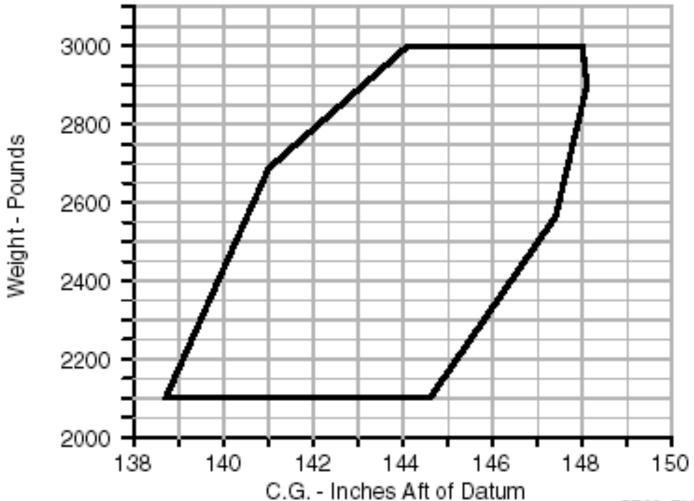
2008 Cirrus SR20 (G3) Serial Number 1889 Engine: Continental IO-360-ES (200 hp)

Avidyne Entegra Avionics Dual GNS 430 GPS/NAV/COM WAAS receivers STEC 55X Autopilot with Flight Director, GTX 327 Transponder, GDL-88 ADSB-IN/OUT, Skywatch Active Traffic System, Stormscope, XM Weather



Texas Skies Aviation Boerne Stage Field (5C1)

# Weight and Balance



SR20\_FM06\_1941

# Airspeeds

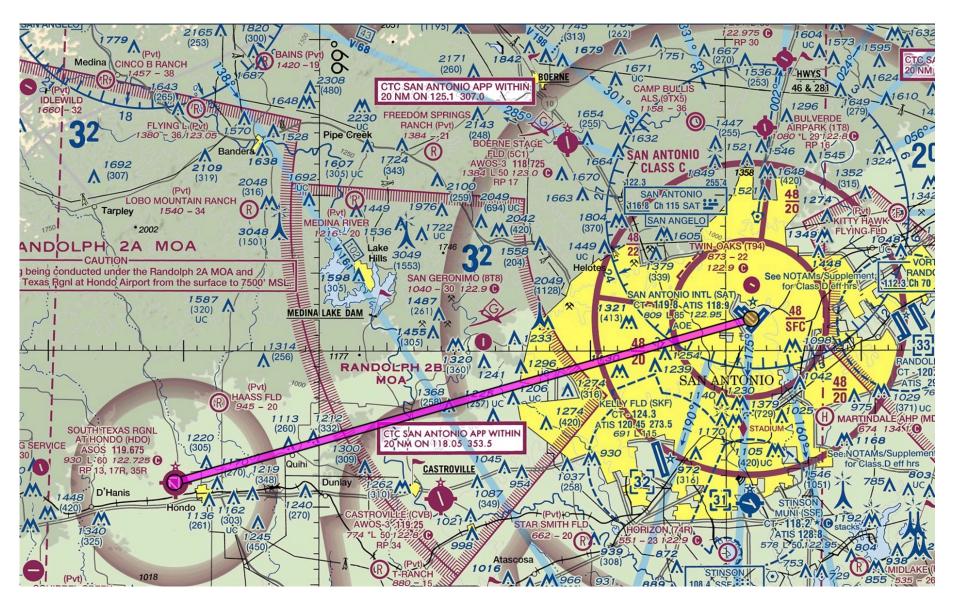
Knots	
56	_
65	_
67	_
81	
80	
87	at 2500 lbs
96	
96	at 3000 lbs
105	
111	at 3000 lbs
100	Flaps 100%
120	flaps 50%
131	at 2200 lbs
135	
165	
200	
	56 65 67 81 80 87 96 96 96 105 111 100 120 131 135 165



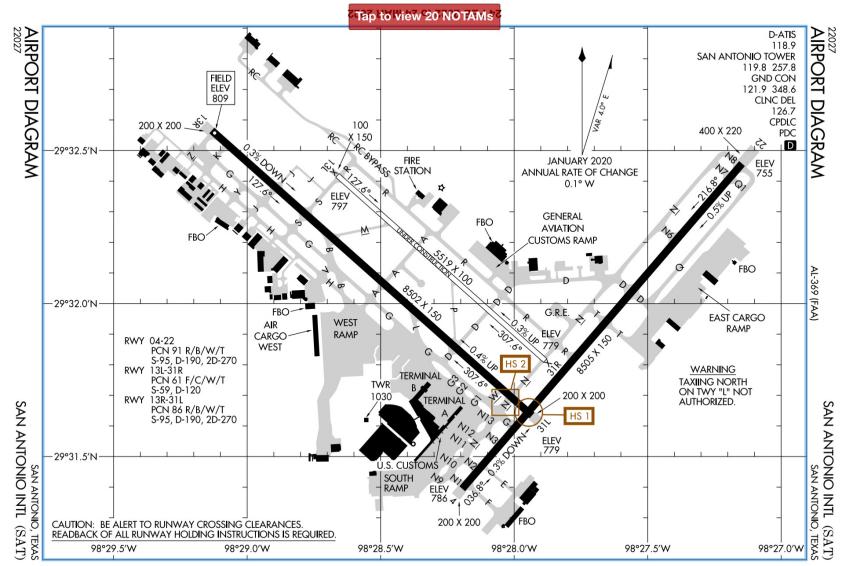
Tkof	POH/CKLST
Flaps 50%	
Vr	67
Vx	91
Flaps up	
Vy	95
Cruise Climb	105

Landing	CheckList			
Circ	85			
Flaps 50				
Арр	80			
Flaps 100				
Арр	75			
Gear Up	Vsi >0			
Vso	56			

# KSAT to KHDO (39 Nm at 250°)

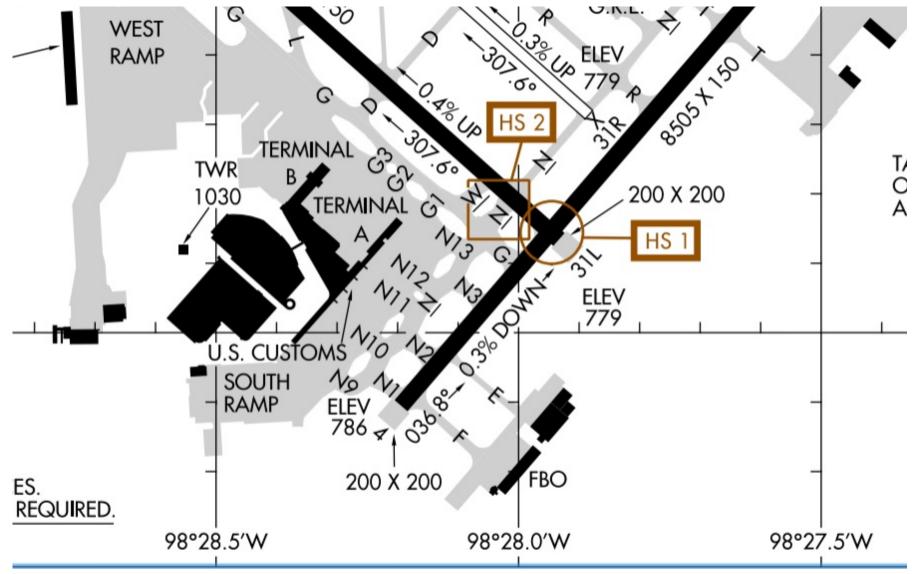


# KSAT



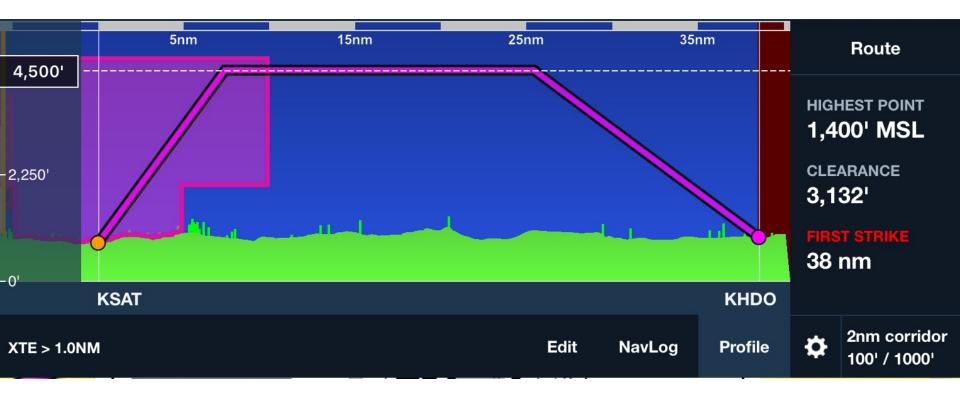
<sup>24</sup> FEB 2022 to 24 MAR 2022

## KSAT



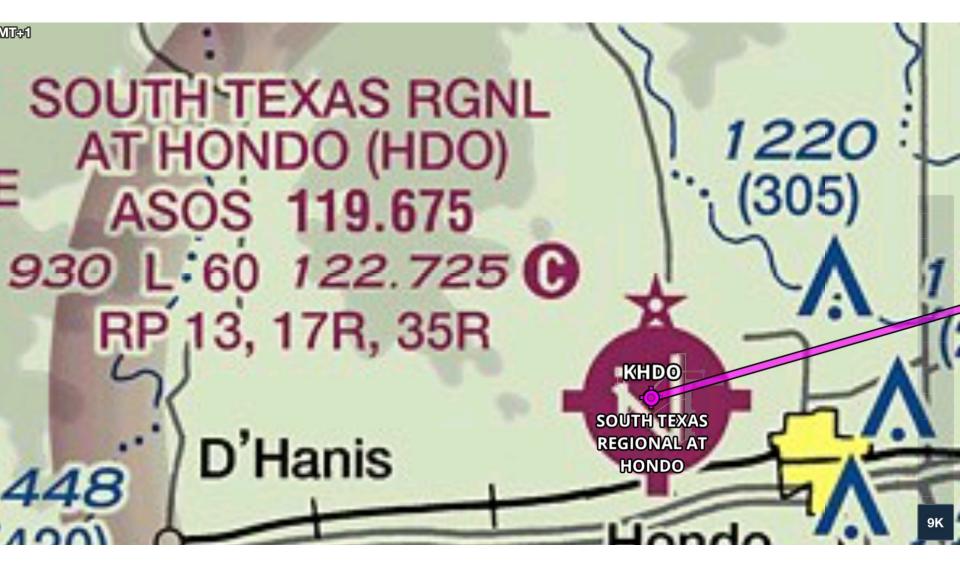
1 1 1	KSAT: San Antonio Internati San Antonio, Texas, US				ernati		Taxiways	Nearby		
190			29°32'02"N/98°28'09"W Sunrise, set: 07:32, 19:47 GMT-5			3D View	Comments	FBOs		
	Flight category VFR				ATIS	118.9				
Elevation		809' MSL		Clearance	126.7	126.7				
	Circuit altitu	ude	1,809' MSL (	est.)	Ground	121.9				
	Fuel		Jet A+, Jet A	A, 100LL	Tower	119.8				
	Procedures ILS, GPS, LOC, RN.		DC, RN	Appr, Dep	Multi	ple				
Freque	ncies Wea	ather	Runways	Procedures	s NOTAMs	Services	s A/FD	м	ore	
Two runways closed by NOTAM >										
	Approach >			>	<b>San Anton</b> 141° - 270°	io Approac	h	118.05		
	Clearance > Common >		>	San Anton	:h ·	121.375				
			>	<b>San Anton</b> 360° - 090°	io Approac	h 124.45				
	Departure >			>						
	Emergency		>	San Anton 271° - 359° Initial Conta	ch	125.1				
	Flight Se	ervice		>	<b>San Anton</b> 091° - 140°	io Approac	:h	128.05		

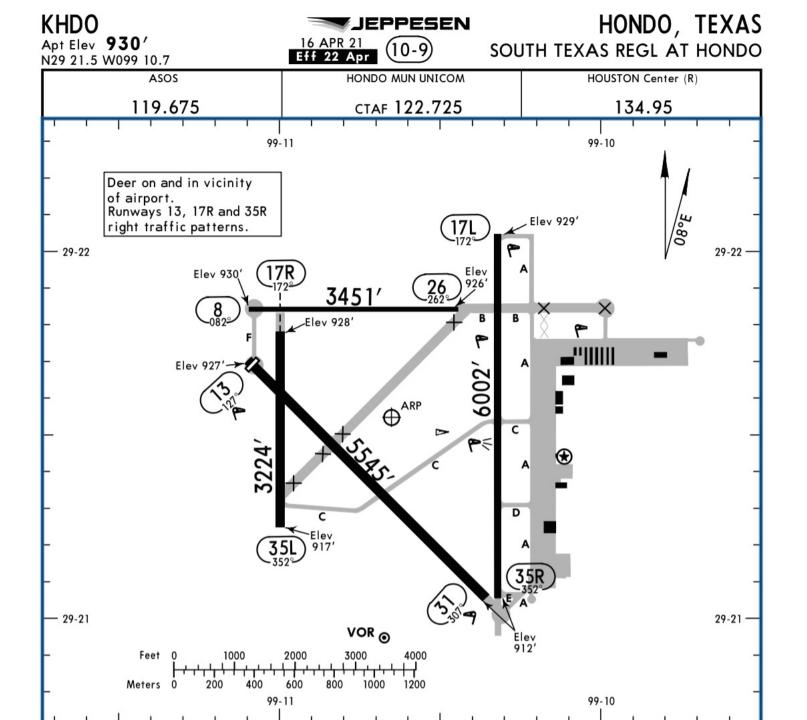
# KSAT – KHDO (4500 ft)



#### KSAT -> KHDO 259° M 39 Nm 5.3g 0h20m at 4500ft expect 4kts Headwind

# KHDO

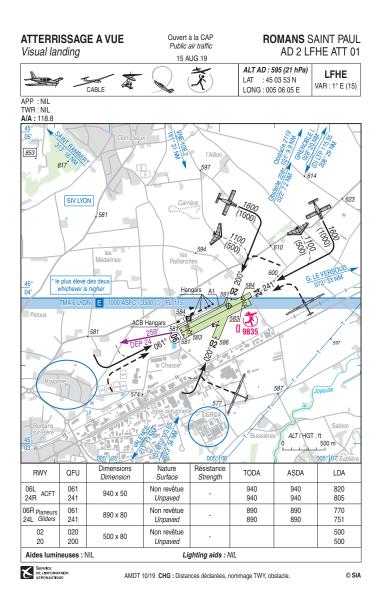


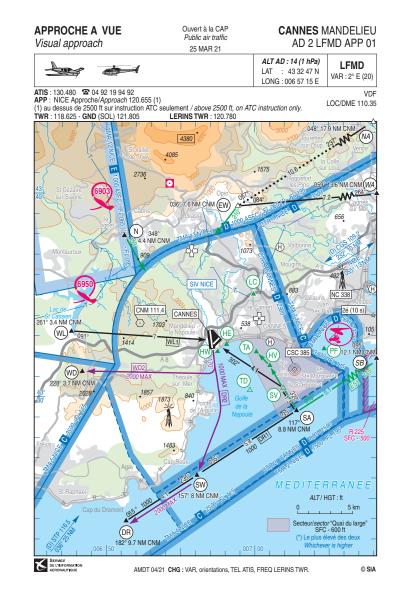




Bill and his Grumman AA-5 N26160 on the apron at KHDO

# Sample: LFHE-LFMD with F-HGPC





# LFHE-LFMD with F-HGPC

### DR401-155CDI



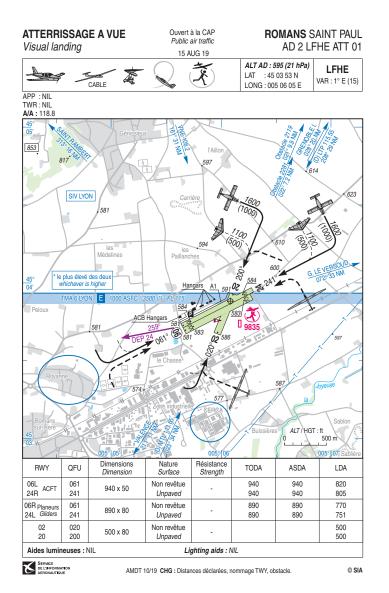


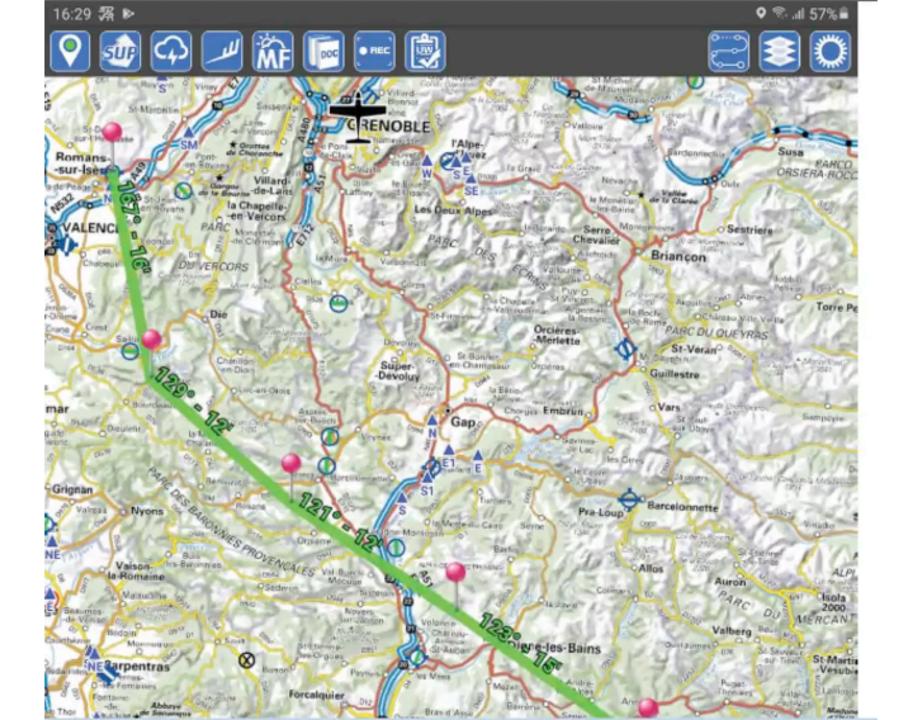
Glass cockpit

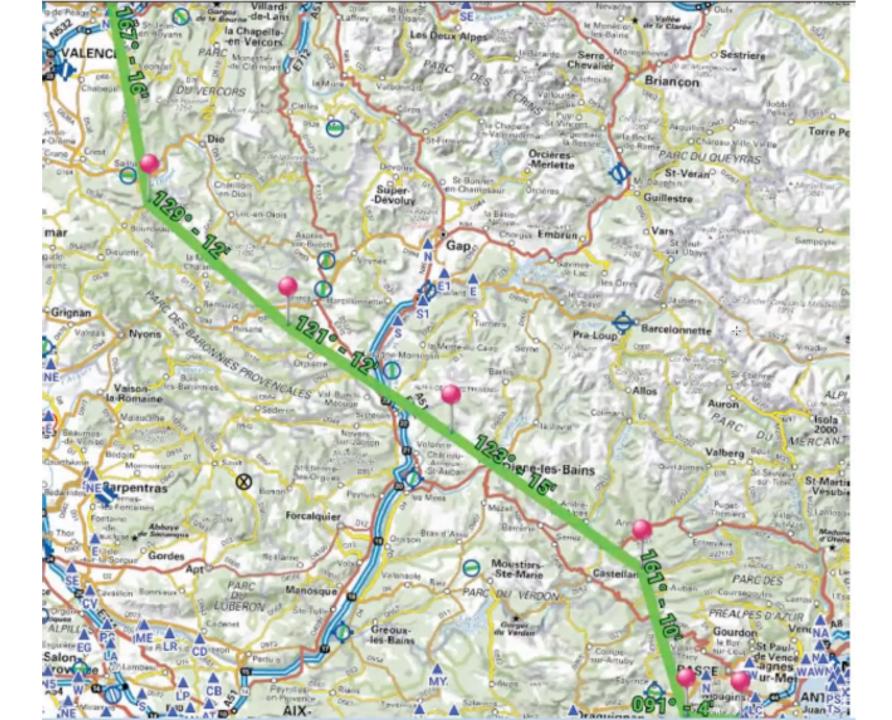
Garmin GTN650 (MFD) Aspen EFD1000 (PFD) SAM MD302 (Backup)

Electric Flaps Electric Trim

# LFHE-LFMD with F-HGPC

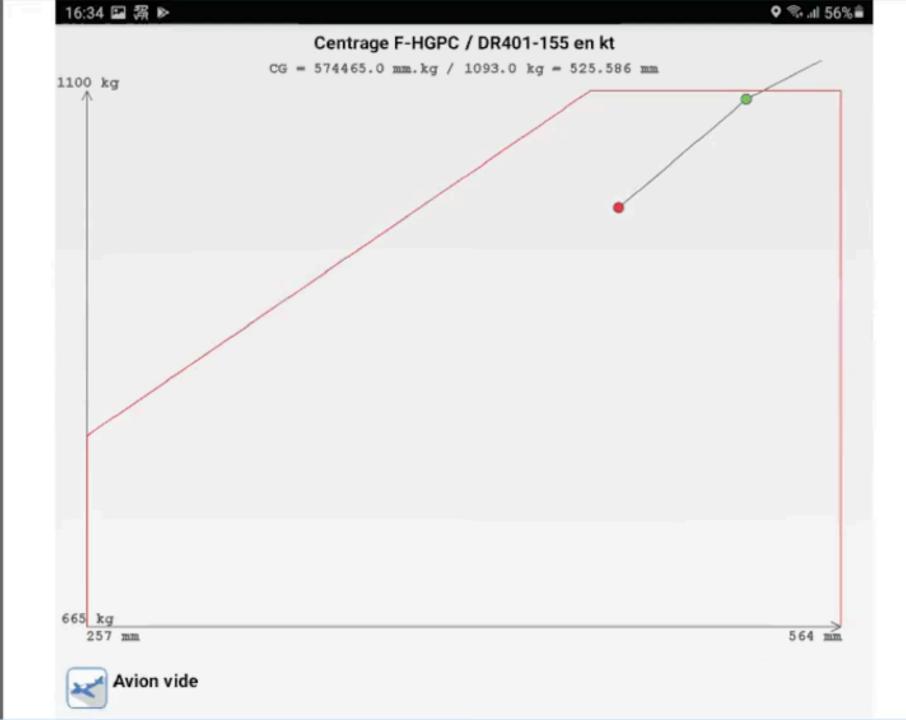


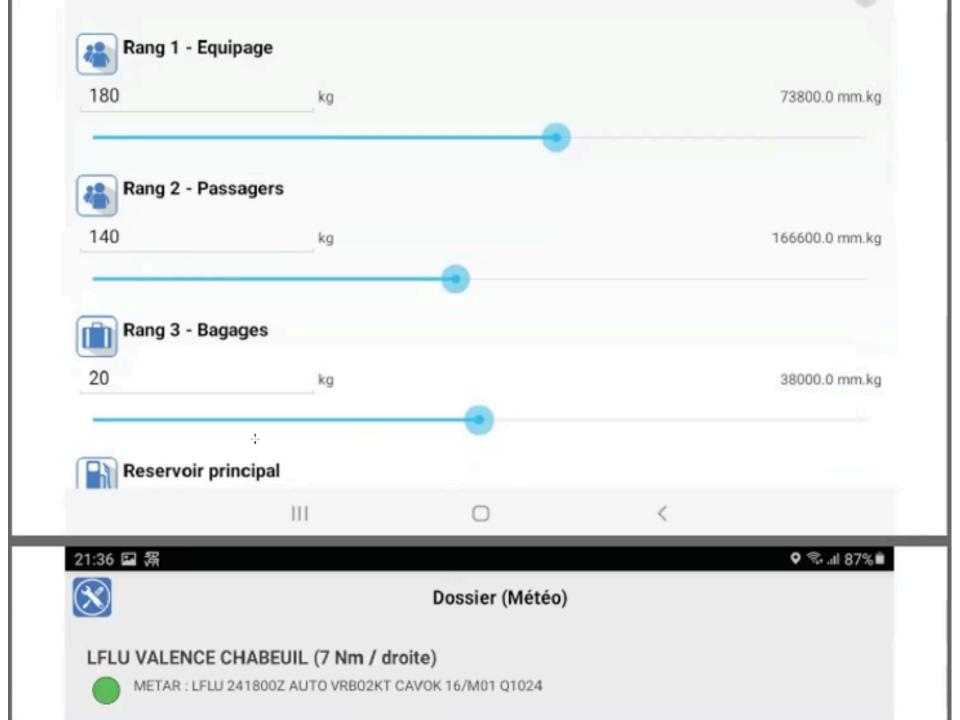




Z min		DTG		LFHE - ROMANS SAINT PAUL	
7		0	16'		003* / 6 kts
7500	167°	26	17'	118.8 LFHE A/A	1°D / 6 kts T
4500		131		BEPER	
7		26	12'		004° / 11 kts
9500	129°	23	13'	124.5 MARSEILLE INFO	4°D / 7 kts T
5000	125	104	/	RETNO	
$\rightarrow$		50	12'		007* / 6 kts
0500	1010	05	101	120.55 MARSEILLE IN	3°D / 3 kts T
9500	121°	25	13'	/	
5000		81		PERUS	
$\rightarrow$		74	15'		321* / 2 kts
9500	123°	30	15'	120.55 MARSEILLE IN	0°D / 2 kts T
6500	125	56	/	AGEVU	
И		104	10'		197°/3 kts
2500	161°	20	10'	120.85 NICE INFO	1°G / 2 kts H
6000		27		LFMD/WL	
K		124	4'	h¢.	077° / 22 kts
1500	091°	7	4'	118.625 LFMD TWR	3°D / 21 kts H
2000	091	7		LFMD - CANNES MANDELIEU	
		131	70'		
		131	71'	121.805 LFMD GND	FR - LFHE-LFM

16:33 🖾 强 🖻		� 😤 .ill 56% 🛢		
$\otimes$ O	Devis Carburant			
Aérodrome de départ :	LFHE - ROMANS SAI	LFHE - ROMANS SAINT PAUL		
Aérodrome d'arrivée :	LFMD - CANNES MAI	LFMD - CANNES MANDELIEU		
Aérodrome(s) de dégagement :				
Distance totale en Nm :	131			
Facteur de base :	0.51			
Temps de vol en minute :	71	G.		
Conso (I par heure) :	24			
Items	Temps	Qté (l)		
Roulage (10' par aérodrome)	20	8.0		
Délestage trajet *	83	33.2		
Marge	0	0.0		
Réserve de dégagement	15	6.0		
Réserve finale **	30	12.0		
Exercices de maniabilité	0	0.0		
Carburant supplémentaire	0	0.0		
TO	TAL: 02H28	60 I		





# Team 1: LFHE-LFMD with F-HGPC

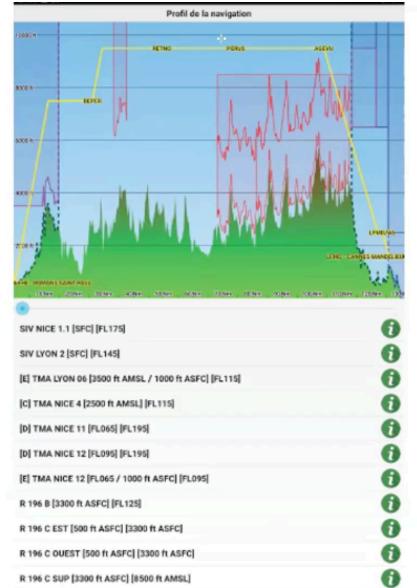
1:36 🖬 🕅		♥ % # 87%
8	Dossier (Météo)	
LFLU VALENCE CHA	BEUIL (7 Nm / droite)	
METAR : LFLD 2418	002 AUTO VRB02KT CAVOK 16/M01 Q1024	
LFMD CANNES MAN	DELIEU (sur la route)	
TAF LONG : TAF AN	D LFMD 241919Z 2419/2515 CNL	
NETAR : LFMD 242	DOZ AUTO 01003KT CAVDK 08/03 Q1027	
CARTES METEO FRA	NCE	
WINTEM FRANCE	FL20-100 21 UTC (24/03/2022)	
WINTEM FRANCE	FL20-100 00 UTC (25/03/2022)	
WINTEM FRANCE	FL20-100 03 UTC (25/03/2022)	
TEMSI FRANCE FI	20-150 21 UTC (24/03/2022)	
WINTEM EUROC F	L50-100 00 UTC (25/03/2022)	
WINTEM EUROC F	L50-100 06 UTC (25/03/2022)	
TEMSI EUROC FL3	0-450 21 UTC (24/03/2022)	
TEMSI EUROC FL3	0-450 00 UTC (25/03/2022)	

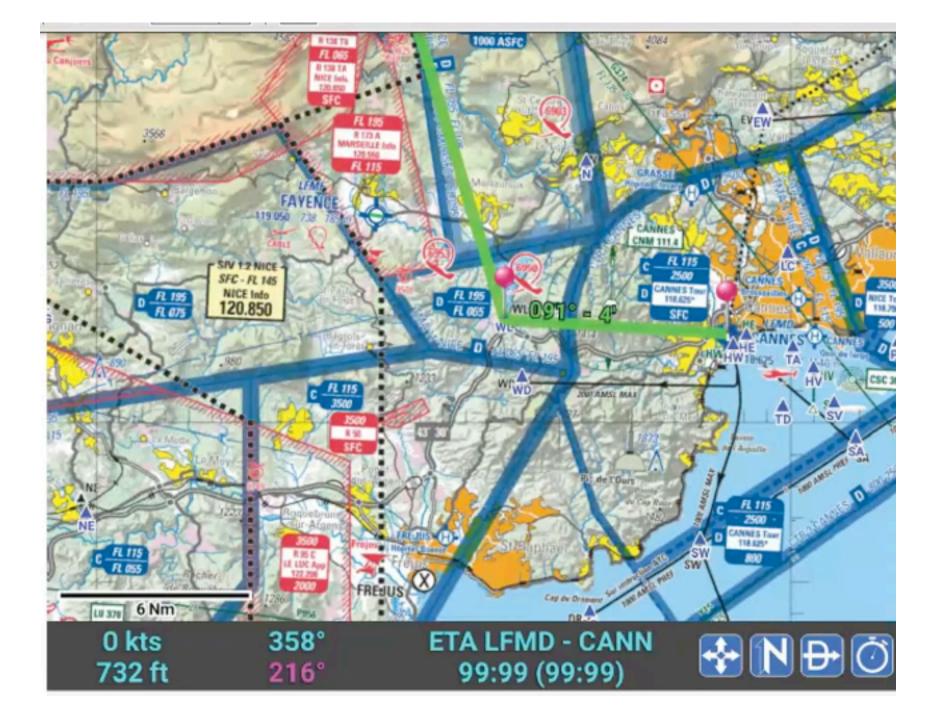
#### LFHE-LFMD with F-HGPC

21:30 區 四 四 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一
Dossier (Notams)
LFFA-M0565/22
Q) LFMM/QSELC/V/B/AE/000/145/4535M005000050 A) LFLL LYON SAUNT EXUPERY
8) 2022 Feb 18 16 32 C) 2022 Mar 27 05:00
5) SUN-FRI 2200-0500, SAT 2130-0500
E) SERVICE DINFORMATION DE VOLINON ASSURE DANS SIV LYON:
MISE EN SERVICE D'UN RAI 125.200MHZ ET 125.525MHZ. PREVOIR TRANSIT
HORS ESPACES DE CLASSE C ET D
LFFA-A0996/22
QLLFMM/QSEAU/V/B/AE/000/145/4535M00500E060
A) LFLL LYON SAINT EXIPERY 8) 2022 Mar 27 22:00 (c) 2022 Oct 29 04:00
D) SUN-FRI 2200-0400, SAT 2030-0400
5 SERVICE DINFORMATION DE VOLINON ASSURE DANS SIV LYON:
MISE EN SERVICE D'UN RAI 125 200MHZ ET 135 525MHZ. PREVOIR TRANSIT
HORS ESPACES DE CLASSE C ET D
-2/20-
LFFA-F0130/22
Q) LFXX/QCDCS/W/80/E/195/660/4411N00820E325
A) LFEE LFFF LFMM 80:2022 Jun 25 09:51 C) PERM
E) LE SERVICE CPOLC ATC CLEARANCE (ACL) A ETE MIS EN SERVICE DANS
LES UAC PARIS, REIMS ET MARSEILLE RÉSPECTIVEMENT LES 22/06/2021,
21/10/2021 ET 25/10/2021.
POUR PLUS DINFORMATION, SE REPORTER A LAIC 008/21. REFERENCE AIP FRANCE GEN 3.4.
UTRA-F0202/19 0) LFWA/QAFXX/ V/NB0/ E/000/195/4245N00607E260
A) LEWIN MARSEILLE FIR
\$0,2019 Feb 05 14:32 C) PERM
© VOLS VER DE NUIT À DESTINATION DE LEMM/FIR EFFECTUES ENTRE
2000/0330 (ETE) OR 2100/0430 (HIV) : LES PLANS DE VOL ET MESSAGES AFFERENTS DEVRONT ETRE ENVOYES
ILES PLANS DE VOL ET MESSANDES APPEAENTS DEVHONT ETRE ENVOTES IMPERATIVEMENT EN PRIORITE 'SS' AUX ADRESSES REFTA SUIVANTES :
UPMM2R2X AND UPMM2F2X
REF AIP ENR 1.11
- 4/20
LFFA-F0441/22
Q) LPWW/QSEAH/ V/ IV/E/000/1195/4246N00547E253
A) LFMM MARSEILLE FIR
8) 2022 Mar 27 07:00 C) 2022 Mar 31 16:30 E) HORAIRES FONCTIONNEMENT DU CIV MARSEILLE ;
CODO-SS-30 LINUTEA N.5.0
-INDICATIF: MARSELLE INFORMATION
-FREQUENCES : 124.500MHZ ET 120.550MHZ.
-\$/20-
LFFA-F0461/22
Q) LFWMA/QNNA5/W/BO/AE/000/195/4408N004525025
A) LEWD ORANGE CARITAT
B) 2022 Mar 28:06:00 C) 2022 Mar 28:06:30 E) TACAN ORG CH31X HORS SERVICE (MAINTENANCE): NE PAS UTILISER FAUSSES
INDICATIONS POSSIBLES.
- 6 / 20
LFFA-M0751/22

011 FMM//DRRCH//V/RO/JW//030/195/4403N00528E033

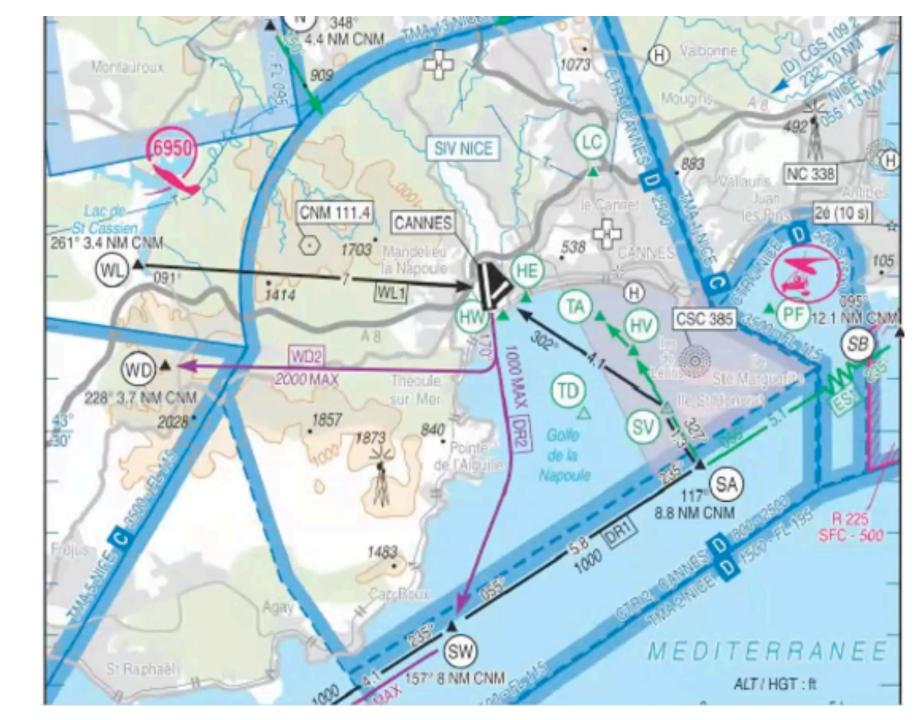
## LFHE-LFMD with F-HGPC

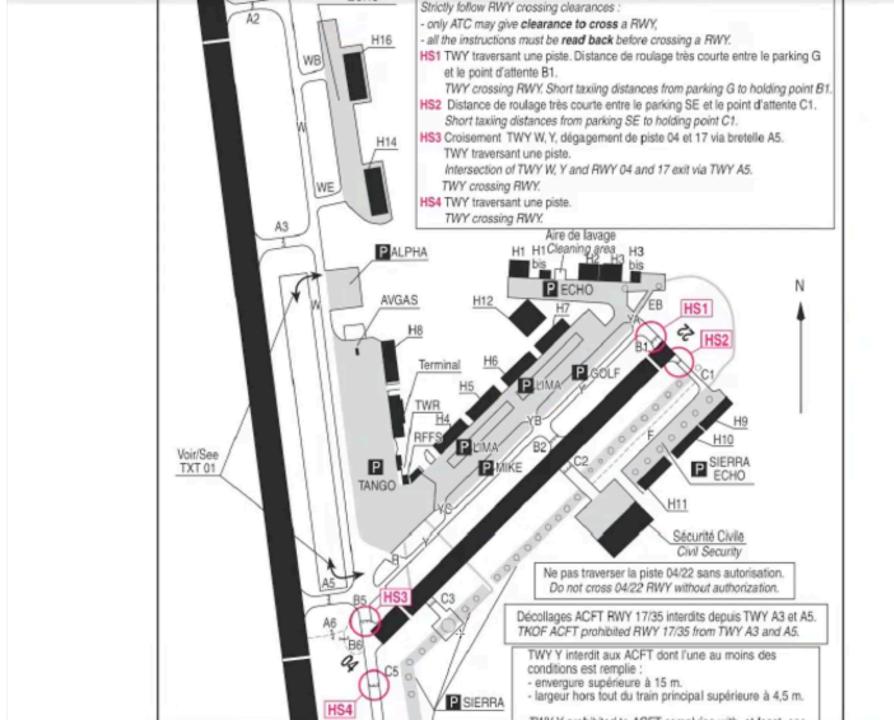


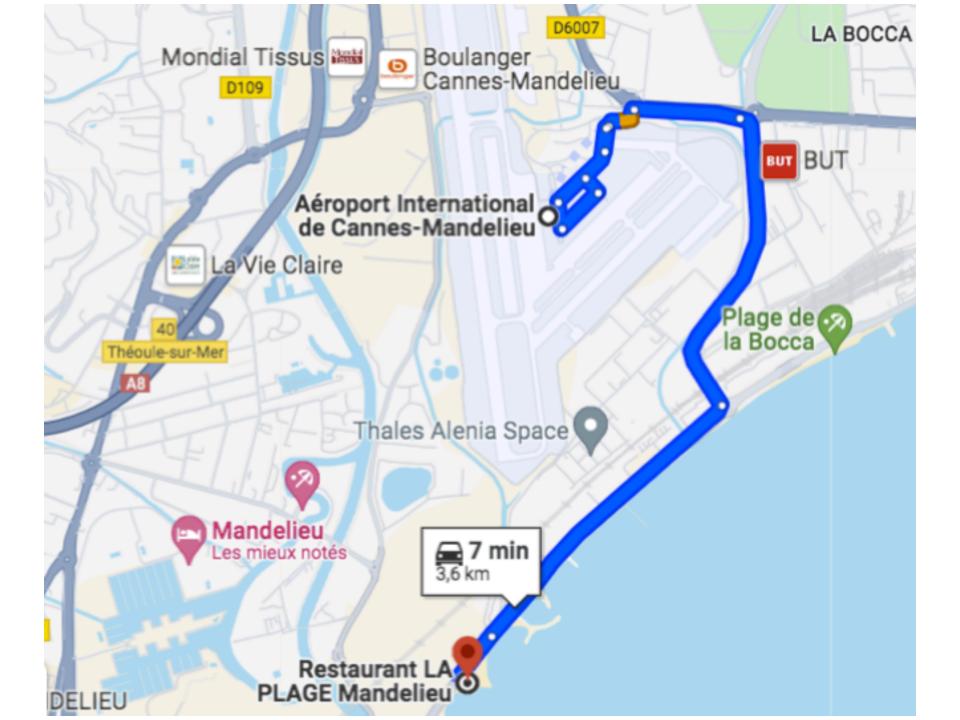


## LFHE-LFMD with F-HGPC









#### Session Planning (\*aspirational\*)



9 November The FCL055 Rating, Course structure, Presentation of Participants, Information Resources, Sample Practice Flight

- 16 November Flight Crews, VFR Phraseology, ATIS Structure, Sample Flight Briefing
- 23 November Flight Plan Briefings, ATIS Practice, Weather Terminology, Sample Briefing
- 30 November Weather Briefings, Airfield terminology, Taxi and Departure Phraseology
- 07 December Airfield Briefings, Taxi and Departure Practice, Pattern Reporting Phraseology
- 14 December Pattern Practice, Air spaces and airways, Enroute Phraseology
- 21 December EnRoute Briefings, Enroute Phraseology Practice, Inflight Emergencies
- 28 December

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- 04 January Inflight Emergency Practice, ATIS practice, Arrival and Approach
- 11 January Arrival Briefings, Landing, Refueling and Taxi to Parking.
- 18 January Class Debriefings, FCL 055 VFR test preparation.