iGoDispatch JRollon CRJ-200

Flight Planning and Management System



MANUAL

Table of Contents

FOREWORD	3
INSTALLATION	4
WEATHER AND DISTANCE PANEL	5
PASSENGERS AND LUGGAGE PANEL	6
FUEL AND CARGO PANEL	8
BALANCE AND TRIM PANEL	9
REFERENCE SPEEDS PANEL	. 10
FLIGHT CONTROL PANEL	. 11

FOREWORD

I have a special affection for the JRollon's CRJ-200 plane. Months ago, I was debating with myself whether I should switch from FSX to X-Plane after having invested hundreds of dollars in the former. Having had some experience with the previous versions of X-Plane, my main concern was a lack of comparatively good airplanes. It was then when I first read about this plane and how good it was. And after having read lots of reviews and comments, the decision I made was to move from FSX to X-Plane and to get the CRJ-200. Never have I regretted since!

One of the challenges I faced dealing with this plane was a lack of the automatic FMC that does everything for you: calculate your pitch trim, V₁ speed, Vr speed, Vref speed, etc. The manual explained exceptionally well how to do it, but it might easily take 15 and 30 minutes to do all proper calculations. It is fine when one has no time constraints. But when you fly on Vatsim, for example, the situation is quite different: you try to select the ATC who will still be on-line by the time you are going to land, otherwise you will be landing by yourself, and what is the point of flying with the live Air Traffic Controller then? So, this made me think about making a tool that would quickly calculate all the necessary values, so that I will still have a chance to catch a controller while he (or she) is still available (a pretty tough job, by the way!).

I created my first program in early 2013. It was a simple Java application with similar functionalities as this application, i.e. it did some basic flight planning. Since then, I have gained a little bit more experience in programming and decided to update the application by adding a few more features to it. Consider this as my C++ graduation project.

THIS APPLICATION WAS DESIGNED FOR THE X-PLANE SIMULATION ONLY. IT IS NOT APPROPRIATE AND MUST NOT BE USED FOR THE REAL FLIGHT PLANNING, NAVIGATION OR AVIATION PURPOSES. I will continue working on making it more precise and useful for the X-Plane pilots.

INSTALLATION

Unzip the folder *iGoDispatch_crj200* to your computer. Before you can use the application, it must be linked to the airports navigation database. This file is called **Airport.txt** and it is located in the following subdirectory of the airplane's folder: **\plugins\CRJAvionics\navdata**.

In order to link the application to the database, go to **Application** in the menu and open **Select Navdata directory**. In the dialog box, select the The navigation data file must be saved on the same computer as the application. It was reported that a networked computer is not linked properly. If you have the application on a different computer than your X-Plane, copy the Airport.txt file to this computer and link thereto.

Airports.txt file and save the location. You are good to go!

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Application Panels About								
Metar and Distance PAX and Luggage	Fuel and Cargo	Balance and Trim	Reference Speeds	Slight Control				
ICAO MET	AR		Open .	Airport NavDa	ita	? ×		
Departure: CYOW		Airport Navl	oata Resource Directo	ry				
Destination: KJFK			ts.bxt file that is installed wil ircraft\Bombardier CRJ-200'		Avionics\navdata	\Airports.txt)		
Alternate: KIAD		:/X-Plane 10/Air	craft/Bombardier CRJ-200/p	lugins/CRJAvionics/r	navdata/Airports.t	bt Browse		
Download METAR Set	Weather	Save	Cancel					
Air	port		Temp (C)	Altimete	er, in	Wind Direction	Wind Spe	ed, kts
Departure Runway:	<u> </u>	Wind Direction	ı at FL (degrees; e.g.,	180):		Temp OAT at FL (C):	
Flight Level: Select	<u> </u>	Wind S	peed at FL (knots; e.g	, 45):				
Adju	st Distance							
	Ground Dista	nce	FL Wind Component*	Inital Bearing	Final Bearing		Indicated Altitude, ft	Pressure Altitude, ft
Departure to Destination:	nm	km				Departure:		
Destination to Alternate:	nm	km				Destination:		
TOTAL:	nm	km				Alternate:		
						ISA Dev at FL:		
* Wind Component: Negative tail win	d, positive head	wind.			Wind Comp	onent at Departure:		

Note that the application will create a subfolder in your Documents folder called iGoDispatch/cfg/. The configuration file with the path to the Airport.txt file will be save there.

In this tutorial, we will plan a trip from the Ottawa MacDonald Cartier International airport to the JFK airport in New York, an alternate airport being the Washington Dulles International airport. Open the exe file and click on the "I Acknowledge" button if you accept the terms and conditions of the application.

WEATHER AND DISTANCE PANEL

We need to enter the ICAO codes for the airports in our flight plan. In our case, we type "CYOW" in the Departure textbox, "KJFK" in the Destination box, and "KIAD" in the Alternate box (without quotes). If you do not want to specify an alternative airport, leave this field blank. These fields are not case sensitive. Note that the fields highlighted in yellow are either mandatory or preferable for making more precise calculations.

G					iGoDispatch CRJ-20	00 (v. 1.0)				
Application Panels About										
Metar and Distance PAX and Lu	uggage i	Fuel and Ca	rgo Ba	alance and Trim	Reference Speeds	Slight Control				
ICAO	METAR									
Departure: CYOW	CYOW 291	100 <mark>Z 20</mark> 01	1KT 40SM	FEW040 M16/	M20 A2996 RMK SC2 SL	P154				
Destination: KJFK	KJFK 29105	1Z 33007	kt 55 <mark>M</mark> -Si	N OVC035 M09	/M12 A3016 RMK AO2 S	5LP213 P0001 T10	0891122 \$			
Alternate: KIAD		27 25007	VT 100M C		0 M12/M18 A3024 RMK	AO2 CLD247 T11	171170			
idho	KIAD 29103	522 35007	KT 105M 5	CT 180 OVC25	0 M12/M18 A3024 KMK	AUZ 51247 111.	1/11/8			
Download METAR	Set Wea	ather	-							
	Airport				Temp (C)	Altimet	er, in	Wind Direction	Wind Spe	ed, kts
OTTAWA MACDONALD CART	TER INTL				-16	29.9	96	200	11	
JOHN F.KENNEDY INTL					-09	30.1	16	330	07	7
WASHINGTON DULLES INTL					-12	30.2	24	350	07	7
Departure Runway:	22	-	N	/ind Direction	n at FL (degrees; e.g.,	180): 110	D	Temp OAT at FL	(C): -4:	L
Flight Level:	27000	- 🔶		Wind S	peed at FL (knots; e.g	. , 45): 25				
CALCULATE	Adjust Dis	stance								
konsensionen and and a second s		Ground D	istance		FL Wind Component*	Inital Bearing	Final Bearing		Indicated Altitude, ft	Pressure Altitude, 1
Departure to Destination:	294	nm	544	km	15	163	343	Departure:	335	295
	198	nm	367	km	-16	240	60	Destination:	14	-226
Destination to Alternate:	100							Alternate:	312	-8
Destination to Alternate: TOTAL:		nm	911	km				Alternater	512	-0
		nm	911	km				ISA Dev at FL:	-3	-0

After we have entered the airport codes, we can either download the current METAR report (click on the **Download METAR** button) or enter the weather information manually (click on the **Set Weather** button). The current Metar information will be downloaded from the site of the National Oceanic and Atmospheric Administration (NOAA). You need to click on either of these two buttons to proceed. If we enter the weather information manually, we need to remember that the temperature must be in Celsius, altimeter in inches of mercury, wind direction in degrees, and wind speed in knots. If we downloaded the actual Metar report but still want to change any of the weather components, we can type them in the relevant fields and click on the **Set Weather** button.

To ensure that the fuel and time calculations are done properly, select the Departure Runway and flight level (flight level is mandatory), enter the wind direction and speed at the flight level, as well as the temperature at the flight level in Celsius. If you do not know these values, you may leave them blank and they will not be taken into account when making the calculations.

After the weather information has been set, we click on the **CALCULATE** button. Since we do not fly directly from our departure to destination but most likely use waypoints between them, our actual distance may be longer than that estimated by the application. We may need to adjust the distance based on our flight plan. In this case, we enter the adjusted distance (in nautical miles) and click on the **Adjust Distance** button.

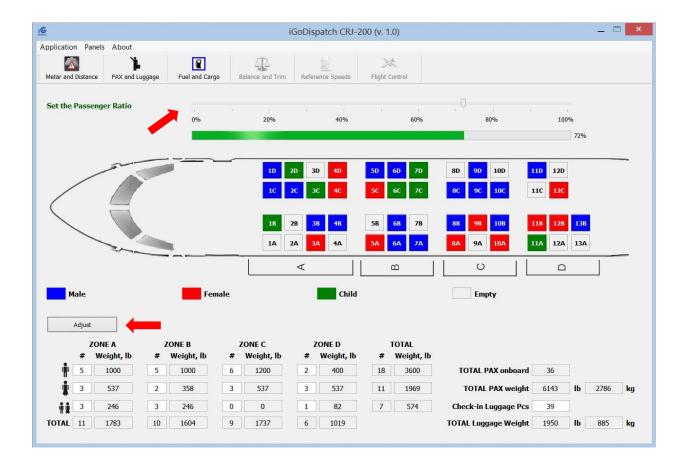
This is it. We are ready to load the plane.

PASSENGERS AND LUGGAGE PANEL

To go to this panel, we can either click the **PAX and Luggage** button in the menu bar or go to Panels in the menu. There are two ways to load the plane with passengers and their luggage. We can either use the slider on top of the panel or enter the number of passengers in the relevant textboxes. If we do the latter, we must click on the **Adjust** button to finish loading. The changes will not take effect unless the button is clicked on. If the number of passengers that we type exceeds the maximum passenger capacity for this zone, we will see a warning message and the number of passengers for this zone will be reset to 0.

When we use the slider, the number of checked-in luggage pieces is randomly preselected by the application. If we want to change this number, we can type whatever amount of luggage pieces we want and click on the **Adjust** button. The application will warn us if the amount of luggage that we want to load exceeds the cargo capacity of the airplane.

We want to load the airplane with passengers at 72% of its capacity. We move the **Set the Passenger Ratio** slider to load our plane. The panel shows us the seating by age and gender. The panel also displays the passengers' weight by zone (both in pounds and kilograms).



FUEL AND CARGO PANEL

Once the plane is loaded with people and their luggage, we can proceed with loading the additional cargo and fuel. We go to the **Fuel and Cargo** panel. The application will show us how much additional cargo we may load. It is restrained by two parameters: additional cargo cannot exceed the capacity of the cargo pallets; and it cannot exceed the Maximum Zero Fuel Weight of the airplane. We should note that the passengers' check-in luggage has already been loaded in the pallets.

					iC	oDispatch CRJ-200 (v. 1.0)				
pplication Panel	s About									
Metar and Distance	PAX and Luggage	Fuel and		Balance and	d Trim	Reference Speeds Flight Control				
Dry Operating V	Veight:	30500	lb	13835	kg	Maximum Zero Fuel Weigh	ht:	44000	lb 1	19958 kg
Passengers Wei	ight:	6143	lb	2786	kg	Maximum Cargo Pallet Ca	pacity:	3500	lb	1588 kg
Total Payload W	/eight:	<mark>8635</mark>	lb	39 <mark>1</mark> 7	kg	Maximum Additional Carg	o Weight Allowed:	1550	lb	703 kg
Load additional	cargo:	0%		, <u> </u>	509	5 100%				
Total additional	cargo loaded:	542	ІЬ	246	kg	Total Zero Fuel Weight:		39135	lb 1	17751 kg
Time required fo		10 20	min min			Climb schedule: Cruise speed:	 250-290-0.7 0.74M 	4M () 250-32 () 0.77M		0.80M
ALCULATE	FUEL									
Fuel required fo	or APU:	20	lb	9	kg	Total Fuel Loaded:		7789	b	3533 kg
Fuel required fo	or taxi:	926	lb	420	kg	Load fuel:	1			
Trip Burn Fuel:		2974	lb	1349	kg	0%		50%		100%
Contingency Fue	el:	148	lb	67	kg					
Final Reserve F	uel:	1715	ІЬ	778	kg					
	e:	2006	lb	910	kg					
Fuel to Alternat										

We load additional 542 pounds of cargo, which is approximately 35% of the available room in the pallets.

Once we know our total Zero Fuel Weight, we can calculate how much fuel we need to fly to the destination and alternate airports. First, we enter how many minutes we expect to spend on APU and taxi. We also select the climb schedule and cruise speed for our flight. (Cruise speed of 0.80M is only available with the climb schedule of 250-320-077M.)

After all necessary information has been entered, we click on the **CALCULATE FUEL** button. The total required amount of fuel is automatically loaded on the plane and displayed in the bottom right corner. The application will first load the left and right tanks followed by the center tank.

The application has estimated that we need 7,789 pounds of fuel for our trip. That includes fuel necessary for APU, taxi, as well as the contingency fuel, final reserve fuel, and fuel from the destination airport to the alternate airport.

We may load slightly more fuel than estimated by the application. This is what I usually do. We can change the amount of fuel onboard by moving the **Load Fuel** slider. The application will show you how much fuel has been loaded in each of the three tanks.

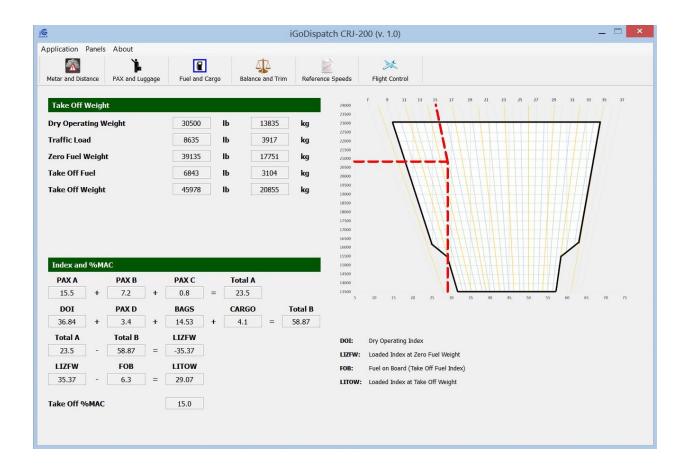
> If we go back to the previous panels and change any settings there, (for example, the distance or the passenger load) we must recalculate the fuel by clicking on the **CALCULATE FUEL** button. All other values that are dependent on the amount of loaded fuel, like the reference speeds, will then be recalculated.

BALANCE AND TRIM PANEL

Now we need to check whether our plane has been loaded correctly, that is whether its Center of Gravity is within the allowed limits. We can do it by going to the Balance and Trim panel.

The application will calculate the Loaded Index at Take-off Weight (LITOW) and the Center of Gravity (as % of MAC) based on our load of passengers, cargo and take-off fuel. We will need this information to set up the CG offset (i.e. by how much the Center of Gravity has been moved from the dry operating position –the position when the airplane is ready for flight but has no passengers, cargo or fuel) and the pitch trim.

Our CG is at 15.0% of MAC which is quite good (it cannot be lower than 9% and higher than 35%). Our weight is below the Maximum Take-off Weight allowed. We are good to go!



REFERENCE SPEEDS PANEL

The Reference Speeds panel displays the information required for the take-off and landing preparations: V1, Vr, V2, and Vfto speeds, as well as landing speeds at Destination and Alternate airports at different flaps settings. Note that the landing speeds are estimates only based on the estimated landing weight of the plane. The actual landing weight may be slightly different from the estimate, and therefore the landing speeds may also slightly differ from what is displayed on the panel.

The panel also shows the reduced thrust take-off setting and the take-off pitch trim. We should set the reference speeds, thrust setting, and the pitch trim in the plane during the preparation for take-off. (Refer to the plane manual how to do it if you do not know yet.)

			i	GoDispatch CRJ	-200 (v. 1.0)				
plication Panels About		n I	ATA	7	*				
fetar and Distance PAX and Lugg	100 C	20 K S S	Balance and Trim	Reference Speeds	Flight Control				
DEPARTURE:						Flaps 8		Flaps 20	
Take Off Weight	45978	lb	20855	kg	V1	137		127]
Pressure Altitude	295	ft	90	m	Vr	139		129	
Temperature	-16	С	3	F	V2	148		136	
Reduced Thrust Take-Off Se	etting, %N1		85.1		Vfto	176			
Optimum Flight Level			39000	ft	Take Off Pitch Trim	7.3			
DESTINATION:					ALTERNATE:				
Est. Landing Weight	43004	lb	19506	kg	Est. Landing Weight	40998	lb	18596	kg
Pressure Altitude	-226	ft	-69	m	Pressure Altitude	-8	ft	-2	m
Temperature	-09	С	16	F	Temperature	-12	С	10	F
Landing Distance: Dry	5066	ft	1544	m	Landing Distance: Dry	4859	ft	1481	m
Landing Distance: Wet	9705	ft	2958	۹m	Landing Distance: Wet	9311	ft	2838	m
Vref Flaps 0	165				Vref Flaps 0	162			
Vref Flaps 8	153				Vref Flaps 8	150			
Vref Flaps 20	147				Vref Flaps 20	144			
Vref Flaps 30	143				Vref Flaps 30	140			
Vref Flaps 45	135				Vref Flaps 45	132			
	145				Vref Flaps 45 + 10	142 139			
Vref Flaps 45 + 10	115								

FLIGHT CONTROL PANEL

The panel displays the estimated flight time from departure to destination, as well as from destination to the alternate airport.

It also shows a few settings that we need to set in X-Plane prior to take-off: the CG offset, the payload weight, and the fuel weight. In our case, the center of gravity is shifted by 0.7 inches to the front (-0.7 inches). Our ramp fuel totals 7,789 lbs., i.e. 3,894 lbs in each of the side tanks (the discrepancy between these two numbers is due to rounding). These settings can be adjusted in the Weights and Balance menu of X-Plane.

		i	GoDispatch CRJ-	200 (v. 1.0)			
oplication Panels About							
Metar and Distance PAX and Luggage Fu	el and Cargo	Balance and Trim	Reference Speeds	Flight Control			
Estimated Flight Time from Departure t	o Destination	: 0 h. 52 min.		Estimated Flight Time from De	stination to Alterna	n te: 0 h. 3	17 min.
	-	_	(The following valu	es must be set in the X-Plane setting			
Center of gravity (from default)	- 0 .7	inches		Fuel TANK (left)	3894 Ib		
Empty weight	30500	lb		Fuel TANK (center)	0 Ib		
Payload weight	8635	lb		Fuel TANK (right)	3894 Ib		
FLIC	GHT INFORM	ATION (you must	recalculate fuel if	changes are made in the flight plan (or load)		
Current latitude (e.g., 45.4214)	45.6		C	Current longitude (e.g., -75.6919)	-74.5		
Current latitude (e.g., 45.4214) Distance to Destination	45.6 299	nm 55		Current longitude (e.g., -75.6919) Distance to Alternate	-74.5 420 nm	778	km
						778	km
Distance to Destination	299	nm 55 kts				778	km
Distance to Destination Ground speed	299 424	nm 55 kts	4 km	Distance to Alternate	420 nm		km kg/h
Distance to Destination Ground speed Flight time to Destination	299 424 0 h. 42 r	nm 55 kts	4 km 38 kg	Distance to Alternate	420 nm 0 h. 59 min.		
Distance to Destination Ground speed Flight time to Destination Remaining fuel Fuel sufficient for distance Current weight	299 424 0 h. 42 r 3500 1208 42635	nm 55 kts	4 km 38 kg 37 km	Distance to Alternate Flight time to Alternate Total fuel flow	420 nm 0 h. 59 min. 1230 lb/h		
Distance to Destination Ground speed Flight time to Destination Remaining fuel Fuel sufficient for distance Current weight Current Index at ZFW	299 424 0 h. 42 r 3500 1208 42635 35.37	nm 55 kts nin. Ib 158 nm 223	4 km 38 kg 37 km	Distance to Alternate Flight time to Alternate Total fuel flow	420 nm 0 h. 59 min. 1230 lb/h		
Distance to Destination Ground speed Flight time to Destination Remaining fuel Fuel sufficient for distance Current weight Current Index at ZFW Current Fuel Index	299 424 0 h. 42 r 3500 1208 42635 35.37 4.8	nm 55 kts nin. Ib 158 nm 223	4 km 38 kg 37 km	Distance to Alternate Flight time to Alternate Total fuel flow	420 nm 0 h. 59 min. 1230 lb/h		
Distance to Destination Ground speed Flight time to Destination Remaining fuel Fuel sufficient for distance Current or distance Current Index at ZFW Current Fuel Index Current Total Index	299 424 0 h. 42 r 3500 1208 42635 35.37 4.8 30.57	nm 55 kts nin. Ib 158 nm 223	4 km 38 kg 37 km	Distance to Alternate Flight time to Alternate Total fuel flow	420 nm 0 h. 59 min. 1230 lb/h		
Distance to Destination Ground speed Flight time to Destination Remaining fuel Fuel sufficient for distance Current weight Current Index at ZFW Current Fuel Index	299 424 0 h. 42 r 3500 1208 42635 35.37 4.8	nm 55 kts nin. Ib 158 nm 223	4 km 38 kg 37 km	Distance to Alternate Flight time to Alternate Total fuel flow	420 nm 0 h. 59 min. 1230 lb/h		

Last thing we need to do before we take-off is to print the flight dispatch report in which we can refer to all the important calculations that we have made so far.

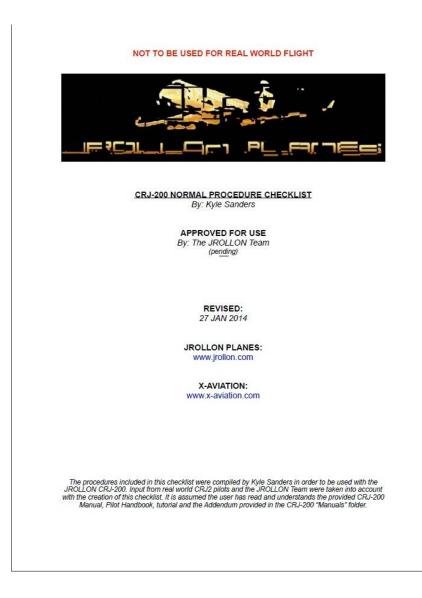
In the menu, we go to **Application** and then select **Print Dispatch Report**. The report opens as a pdf file. Note that the application will create a subfolder in your Documents folder called iGoDispatch/reports/. All dispatch reports will be stored there.

Once we take off and are airborne, we may estimate the direct distance to the destination and alternate, flight time to these points, whether we have sufficient fuel, as well as the current center of gravity. In order to estimate these values, we just need enter the following: the current latitude and longitude, ground speed, total remaining fuel, and current total fuel flow (for both engines).

DI	SPATCH	REPORT

	YOW - KJFK		DATE: JAN2920		
DEP: CYOW	RWY: 22		. ALT: 295 FT	ALTIMETER:	
DEST: KJFK		PRESS.	. ALT: -226 FT	ALTIMETER:	30.16 INHG
ALT: KIAD		PRESS	. ALT: -8 FT	ALTIMETER:	30.24 INHG
METAR REPORTS					
DEP: CYOW 29	1100Z 20011KT	40SM FEW04	40 M16/M20 A2996 RMK	SC2 SLP154	
DEST: KJFK 29 1089112:		5SM -SN O	VC035 M09/M12 A3016	RMK AO2 SLE	213 P0001 1
171178			80 OVC250 M12/M18 A3		
GROUND DISTAN			AIR DISTANCE		
DEP TO DEST:	294 NM 544 KM	4	DEP TO DEST: 304 NM	563 KM	
DEST TO ALT:	198 NM 367 KM	4	DEST TO ALT: 191 NM	1 354 KM	
BURN FUEL:	2974 LB	1349 KG	ALTERNATE FUEL:	2006 LB	910 KG
CONTING FUEL:	148 LB	67 KG	FINAL RES FUEL:	1715 LB	778 KG
TAXI FUEL:	926 LB	420 KG	APU FUEL:	20 LB	9 KG
ESTIMATED FUE	L: 7789 LB	3533 KG	LOADED FUEL:	7789 LB	3533 KG
WEIGHT					
DOW	30500 LB	13835 KG	PAX	6143 LB	2786 KG
LUGGAGE	1950 LB	885 KG	CARGO	542 LB	246 KG
ZFW	39135 LB		TAKE-OFF	45978 LB	
			0001 25 22 Monthlead	OFF CG OFF	SET: -0.7 I
	: 14.96	PITCH TR			
TAKE-OFF %MAC			DEPARTURE SPEEDS FL		
TAKE-OFF %MAC					
TAKE-OFF %MAC DEPARTURE SPE V1: 137			DEPARTURE SPEEDS FL		
TAKE-OFF %MAC DEPARTURE SPE V1: 137 VR: 139			DEPARTURE SPEEDS FL V1: 127		
TAKE-OFF %MAC DEPARTURE SPE V1: 137 VR: 139 V2: 148			DEPARTURE SPEEDS FL V1: 127 VR: 129		
TAKE-OFF %MAC DEPARTURE SPE V1: 137 VR: 139 V2: 148 VFTO: 176			DEPARTURE SPEEDS FL V1: 127 VR: 129 V2: 136	APS 20	
TAKE-OFF %MAC DEPARTURE SPE V1: 137 VR: 139 V2: 148 VFTO: 176 ESTIMATED LAN	EDS FLAPS 8 DING SPEEDS AT		DEPARTURE SPEEDS FI V1: 127 VR: 129 V2: 136 VFTO: 176	APS 20	
TAKE-OFF %MAC DEPARTURE SPE V1: 137 VR: 139 V2: 148 VFTO: 176 ESTIMATED LAN VREF FLAPS 0:	EDS FLAPS 8 DING SPEEDS AT 165	r dest	DEPARTURE SPEEDS FL V1: 127 VR: 129 V2: 136 VFTO: 176 ESTIMATED LANDING S	APS 20	
TAKE-OFF %MAC DEPARTURE SPE V1: 137 VR: 139 V2: 148 VZ: 148 VVTO: 176 ESTIMATED LAN VREF FLAPS 0: VREF FLAPS 8:	EDS FLAPS 8 DING SPEEDS AT 165 153	r dest	DEPARTURE SPEEDS FL V1: 127 VR: 129 V2: 136 VFTO: 176 ESTIMATED LANDING S VREF FLAPS 0: 162	APS 20	
TAKE-OFF %MAC DEPARTURE SPE V1: 137 VR: 139 V2: 148 VFTO: 176 ESTIMATED LAN VREF FLAPS 0: VREF FLAPS 0: VREF FLAPS 20	EDS FLAPS 8 DING SPEEDS AT 165 153 : 147	r dest	DEPARTURE SPEEDS FL V1: 127 VR: 129 V2: 136 VFTO: 176 ESTIMATED LANDING S VREF FLAPS 0: 162 VREF FLAPS 8: 150	APS 20	
TAKE-OFF %MAC DEPARTURE SPE V1: 137 VR: 139 V2: 148 VFTO: 176 ESTIMATED LAN VREF FLAPS 0: VREF FLAPS 0: VREF FLAPS 20 VREF FLAPS 30	EDS FLAPS 8 DING SPEEDS AT 165 153 : 147 : 143	r dest	DEPARTURE SPEEDS FL V1: 127 VR: 129 V2: 136 VFT0: 176 ESTIMATED LANDING S VREF FLAPS 0: 162 VREF FLAPS 8: 150 VREF FLAPS 20: 144	APS 20	
TAKE-OFF %MAC DEPARTURE SPE V1: 137 VR: 139 V2: 148 VFTO: 176	EDS FLAPS 8 DING SPEEDS AT 165 153 : 147 : 143 : 135	r dest	DEPARTURE SPEEDS FL V1: 127 VR: 129 V2: 136 VFTO: 176 ESTIMATED LANDING S VREF FLAPS 0: 162 VREF FLAPS 8: 150 VREF FLAPS 20: 144 VREF FLAPS 30: 140	APS 20	

The application also includes a CRJ-200 Normal Procedure Checklist. The checklist was created by Kyle Sanders of http://www.xp-aviators.com. Go to **Application** in the menu and select **Open Checklist**. The Checklist will open as a pdf document. Thank you, Kyle!



Finally, you may open this Manual by going to **Application** in the menu and selecting **Open Manual**. Note that once you have opened the application for the first time, both the Checklist and the Manual will be saved in your Documents folder in the subfolder iGoDispatch/docs/.

This is it. Have a safe flight!

If you have any comments or questions, please feel free to drop me a line at: <u>software@igorland.com</u>.

Thank you for using the application!