Joint Mission Planning System and

Low Level Navigation

Maj Flood, HT-28, Apr 2021

Navigation

- PMA JMPS Class 100
- PMA JMPS Class 102
- PMA JMPS Class 103
- PMA JMPS Class 108
- Route Creation
- SLAP
- Printing Charts

JMPS Program

- Open JMPS desktop shortcut
 - May open to previous flight plan
 - To Close: Click "File" then "Close"
- Check DAFIF currency
 - Select "Tools" Menu
 - "Data Administration"
 - System Health"
 - Up-Date DAFIF under "DAFIF Selection"

Creating a New Route

- Select "File" then "New" then "Route"
- Select "Trainer" tab and "TH-57B/C"
- Snap To: None
 - Will automatically fill with location provided in "Fix"
- Initial Point Type: TP (Turn)
- Fix: KNDZ (Or airport of origin)
- Create

4	New 1	? 🛛
	Select to Create:	
	Route Chart Tool Drawing Drider of Battle Point Export GPS Trail Electronic CHUM HH-50H CMDL Manual CHUM Map Data Manager MH-53E CMDL Mission NITF Images SH-50F CMDL SH-50F CMDL SH-50F CMDL	
	🔽 Open in all View:	s
	OK Ca	ancel

Create Route	? 🛛
Vehicle Type	
Airdrop Attack Bomber Foot Generic Motorized	Cargo Early Warning Fighter Patrol Reconnaissance Rotary Wing
Subsurface Surface Swi T-38A/8 (J85-GE-5) T-45A/C	mmer Tanker Trainer Transport
Initial Point Location	
Fix Descript	ion
KNDZ/A WHITIN	NG FLD NAS SOUTH
Location	Datum
Initial Point Type	
Planning Direction Forward Plan C Backward Pl	→
Create Using Prefs	Create Apply Cancel

Training Squadron Routes

- For your Low Level, Formation and NVG navigation flights, you will need to plan your Route WITH Course Rules.
 Include a copy of this route in your SmartPack
- This is all that is required. Other routes(Route without Course Rules, BINGO Route) do not need to be in SmartPack

Creating a New Route (cont'd)

Select Tabular display
 Left column, second icon

or

• Shift + F2



Creating a New Route (cont'd)



Platform Editor

Configuration Fuel Route FOB/RES Vehicle ID: TH-57B/C Remarks:	Configuration Fuel Route FOB/RES
Vehicle ID: TH-57B/C Remarks:	Bingo Fuet: 0 Fuel Type: JP8 -
	Minimum Fuel: 100 Refuel Option: Receiver 💌
Drag Configuration	Recovery Fuel: 0 Allow Negative Fuel Computation
Base: 0.00 Configuration: 0.00 Edit Clear	Desired Landing/Alternate Fuel:
Delta: 0.00 Weight(pounds)	Path1 1-23 101 Yes
Total: 0.00 Cargo: 0	
Internal Fuel: 513	
External Fuel: 0	
Fuel Capacity(pounds) Empty: 2300	
Internal: 750 Aircrew: 0 - x 0 = 0	
External: 0 Passengers: 0 + X 0 = 0	WARNING: Allowing negative fuel computations can have significant consequences to the route in the event
Total: 750 Total: 2813	of a determined negative fuel condition. Consult the help for details on how negative fuel computations are performed.
Close	Close

- Click on "Platform Editor"
 - "Weight- Empty" = 2300
- Fuel Tab
 - "Allow Negative Fuel Computation" = check Configuration tab
 - Select which path in the "Desired Landing/Alternate Path".*

*May not be available until after you have added more than 1 point to your route.

Leg Editor

- Permits changing any parameter on segments of the profile
- Individual values may be changed by highlighting a cell on the tabular display and entering data
- General
 - Departure Field- enter ICAO ID
 - Lat. / Long. Is provided in D/M/S format

Bank Angle- Blank = Zero. Do this for all points!

æ	Turn P	Туре	Fix/Point	Latitude	Elev	MV	Altitude	Temp	МН	LegTime	Leg Dist	Leg Fuel	Remark1	Remark2
8-	Comm	DTD	Desc	Longitude	MGRS	Aspd	Bank	Wind	мс	Clock Tim	Total Dist	Rem Fuel	MSA	FF
	1		KNDZ/A	N 30 41.9143	177 FT	3.1W	177M 🕂	+15C						
			WHITIN	W 087 00.8645	16R DU	<	×	>		00:00:00		513		
	2		.BAKER	N 30 41.5100	171 FT	3.2W	900M <u>M</u>	+13C	263	00+01+20	2.2 NM	6		
				W 087 03.3900	16R DU	100T	×		263	00:01:20	2.2 NM	507	200M	280

Entering Points with the Tabular Editor (lat./long. Coordinates)

- Left Click of Arrow Down to enter next point
- Highlight & enter next fix

- Coordinates for Course Rules are on A-5 of RWOP
- Coordinates for Low Level routes are on page A-7 of RWOP

_ T	urn P	Туре	Fix/Point	Latitude	Elev	MV	Altitude	Temp	мн	LegTime	Leg Dist	Leg Fuel	Remark1	Remark2
	Comm	DTD	Desc	Longitude	MGRS	Aspd	Bank	Wind	мс	Clock Tim	Total Dist	Rem Fuel	MSA	FF
	1		KNDZ/A	N 30 41.9143	177 FT	3.1W	177M 🕂	+15C						
			WHITIN	W 087 00.8645	16R DU		×			00:00:00		513		
	2		.BAKER	N 30 41.5100	171 FT	3.2W	900M <u>M</u>	+13C	263	00+01+20	2.2 NM	6		
				W 087 03.3900	16R DU	100T	*		263	00:01:20	2.2 NM	507	200M	280
		Turn P Comm 1	Turn P Type Comm DTD 1 2 2	Turn P Type Fix/Point Comm DTD Desc 1 KNDZ/A WHITIN 2 .BAKER	Turn P Type Fix/Point Latitude Comm DTD Desc Longitude 1 KNDZ/A N 30 41.9143 WHITIN W 087 00.8645 2 .BAKER N 30 41.5100 W 087 03.3900 W 087 03.3900	Turn P Type Fix/Point Latitude Elev Comm DTD Desc Longitude MGRS 1 KNDZ/A N 30 41.9143 177 FT WHITIN W 087 00.8645 16R DU 2 .BAKER N 30 41.5100 171 FT W 087 03.3900 16R DU 16R DU	Turn P Type Fix/Point Latitude Elev MV Comm DTD Desc Longitude MGRS Aspd Image: Comm T KNDZ/A N 30 41.9143 177 FT 3.1W Image: Comm WHITIN W 087 00.8645 16R DU 100T Image: Comm Comm MGRS Aspd 100T	Turn P Type Fix/Point Latitude Elev MV Altitude Comm DTD Desc Longitude MGRS Aspd Bank 1 KNDZ/A N 30 41.9143 177 FT 3.1W 177M Jit 2 .BAKER N 30 41.5100 171 FT 3.2W 900M Jit W087 03.3900 16R DU 100T X	Turn P Type Fix/Point Latitude Elev MV Altitude Temp Comm DTD Desc Longitude MGRS Aspd Bank Wind 1 KNDZ/A N 30 41.9143 177 FT 3.1W 177M It +15C 2 .BAKER N 30 41.5100 171 FT 3.2W 900M It +13C W087 03.3900 16R DU 100T XX 100T XX	Turn P Type Fix/Point Latitude Elev MV Altitude Temp MH Comm DTD Desc Longitude MGRS Aspd Bank Wind MC Image: Comm T KNDZ/A N 30 41.9143 177 FT 3.1W 177 M Image: Comm +15C Image: Comm WHITIN W 087 00.8645 16R DU Image: Comm 900M Image: Comm +13C Image: Comm 263 Image: Comm 263	Turn P Type Fix/Point Latitude Elev MV Altitude Temp MH Leg Time Comm DTD Desc Longitude MGRS Aspd Bank Wind MC Clock Tim 1 KNDZ/A N 30 41.9143 177 FT 3.1W 177M It +15C WHITIN W 087 00.8645 16R DU 171 FT 3.2W 900M It +13C 263 00+01+20 W087 03.3900 16R DU 100T 263 00:01:20 120 120 126 120 12	Turn P Type Fix/Point Latitude Elev MV Altitude Temp MH Leg Time Leg Dist Comm DTD Desc Longitude MGRS Aspd Bank Wind MC Clock Tim Total Dist 1 KNDZ/A N 30 41.9143 177 FT 3.1W 177M III +15C 00:00:00 00:00:00 2 .BAKER N 30 41.5100 171 FT 3.2W 900M III +13C 263 00+01+20 2.2 NM W087 03.3900 16R DU 100T X 263 00:01:20 2.2 NM	Turn P Type Fix/Point Latitude Elev MV Altitude Temp MH Leg Time Leg Dist Leg Fuel Comm DTD Desc Longitude MGRS Aspd Bank Wind MC Clock Tim Total Dist Rem Fuel 1 KNDZ/A N 30 41.9143 177 FT 3.1W 177 M International State +150 2 WHITIN W 087 00.8645 16R DU 16R DU 900M International State +130 263 00+01+20 2.2 NM 6 W087 03.3900 16R DU 100T 263 00:01:20 2.2 NM 507	Turn P Type Fix/Point Latitude Elev MV Altitude Temp MH Leg Time Leg Dist Leg Fuel Remark1 Comm DTD Desc Longitude MGRS Aspd Bank Wind MC Clock Tim Total Dist Rem Fuel MSA MH Leg Time Leg Dist Leg Fuel Remark1 MSA MGC Otos Clock Tim Total Dist Rem Fuel MSA MH MDZ/A N 30 41.9143 177 FT 3.1W 177M III +15C 500:00:00 513 WHITIN W 087 00.8645 16R DU 100T 900M III +13C 263 00+01+20 2.2 NM 6 W087 03.3900 16R DU 100T 263 00:01:20 2.2 NM 507 200M

**JMPS will automatically change a Lat./Long coordinate to the D/M/S format

Entering Points with the Tabular Editor (IFR flight planning)

- Left Click of Arrow Down to next line
- Highlight and enter next fix of NAVAID ID
 - Three letter NAVAID ID
 NSE
 - Three letter NAVAID ID and Radial/ DME NSE090043
 - Enter airport 4-letter ICAO ID KNSE
 - Image: Five Character Named FixRLTDE
 - SIDs STARs and Terminal Procedures are not in JMPS

Entering Points with Graphical Editor

- Select Graphical Editor button
 - **Top button, left hand side**

or

- Shift = F2
- Scale the chart as desired using the wheel on the mouse
- To add points, ensure Turn Point tool is selected
- To move map, ensure the Select tool is selected



Graphical Editor



Turn Point Tool



Point Types

 Choose point Type from dropdown menu located on top leftmost box of each point

Turn

- Used for most points
- Orbit
 - Used for patter practice at OLFS
 - Time is adjustable
 - Typically 20 minutes

Туре	Description	^
TP	Turn	
ALT	Alternate	=
СР	Contact Point	
CTL	Control	
DL	Delay Point	
DVT	Divert	
EG	Egress	
IAF	Initial Approach Fix	~

Airspeed Adjustment

- Go to the Tabular Editor (Shift + F2)
- Highlight the second point on route
- Click on the "Route Point" dropdown menu at the top of the screen
- Select "Leg Editor"
- Select "FPM" Tab-
 - Climb = Manual
 - Cruise = Manual
 - **Descent** = Manual
- Close

🔍 Leg Editor - Grn Route.jrt 📃 🗕	
General Calc Comment FPM Disc Fuel	RefPt
Flight Mede	
Climb: Janual	s
Cruise: Manual 🗨 Input	s
Descent: Janual Input	s
Utility: Speed Conversion	s
Res	et
Climb/Descent	Fuel Flow
Climb Type Out Of 🗸 Descent Type Into 🗸	% <u>I</u> ncrease:
Apply Mode When Altitude Changes Bc: 2000	ft. 0
Winds: Enforce Ground Streed: I	
Point # 6 🕂 🗐 💀 🛱 Close	Help

If the change in altitude between two points (i.e. CP 2 and CP3) exceeds this number, either the 'Climb' or 'Descent' modes will be enabled.

Airspeed Adjustment (cont'd)

- Keep the second point highlighted
- Click on the "Route" dropdown menu at the top of the screen
- Select "Replicate Info"
- De-Select any data checkboxes that you do not wish to replicate.
- Scroll down to "Flight Modes" and check the box
 - This will allow you to adjust airspeed of each leg
 - Course Rules = 100T
 - Low Level Routes = 90G
 - Formation Routes =100G
- Select all points and "OK"



	Re	plicate		-		x
	Che	eck Field(s) to Replicate:				
		Field	Value			^
		Altitude	900M			Alt
		Aspd	100T			=
		Bank				*
1		Desc				
		Elev	197 FT			
		MV	3.0W			
		Remark1				
		Remark2				
		Temp	+13C			
	Pa	th Point Sequence: 1-23	1			
•		Replicate Data From Focus Point To: 6	Through: 23	•		
				ОК	Car	ncel

Setting Route Start Time

Right click on the lower time ('Clock Time') 900M 🚮 +13C 289 00+05+02 SAW MILL N 30 47.4000 56 FT 3.0W 8.4 NM 24 00:10:37 W 087 19.8000 16R DV... 100T 289 17.7 NM 458 200M 280 .CP1 500A 🚮 00+03+09 4.7 NM N 30 52.1000 66 FT 3.0W +14C 007 15 mcdavid W 087 19.3900 16R DV... 90G 007 00:13:46 22.4 NM 443 200M 280 CP2 N 30 50.9900 2.9W 500A 🚮 +14C 262 00+03+58 6.0 NM 19 240 FT Click 'Enter Time' × 00:10:37 17. 7 NM 458 W 087 19.8000 16R DV... 100T 289 200M

	7		.CP1	N 30 52.1000	66 FT	3.0W	500A 🌆	+14C	007	00+03+09	4.7	NM 1	.5	
^			mcdavid	W 087 19.3900	16R DV	90G	×		007	00:13:46		ο	.3 200M	280
	8		.CP2	N 30 50.9900	240 FT	2.9W	500A 🌆	+14C	262	00+0	Enter T	ime	9	

Enter time as '00:00:00'

6

7

Note: This is actually telling the system to set your arrival time at that point as midnight (local or Zulu, depending on JMPS preference settings).



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Setting Route Start Time

If adjusting this time after calculating, you will have to recalculate your route after setting this time (because JMPS and stuff).

	Turn P	Туре	Fix/Point	Latitude	Elev	MV	Altitude		Temp	мн	LegTime	Leg Dist	Leg Fuel	Remark1	Remark2
EF-	Comm	DTD	Desc	Longitude	MGRS	Aspd	Bank		Wind	мс	Clock Tim	Total Dist	Rem Fuel	MSA	FF
	1		KNDZ/A	N 30 41.9143	177 FT	3.2W		0A 🕂	+15C						
			WHITIN	W 087 00.8645	16R DU			*			00:00:00		507		
	2		.BAKER	N 30 41.5100	171 FT	3.2W		900M 🏦	+13C	263	00+01+20	2.2 NM	6		
				W 087 03.3900	16R DU	100T		※		263	00:01:20	2.2 NM	501	200M	280
	3		.POND	N 30 42.0600	151 FT	3.1W		900M 🏦	+13C	294	00+00+55	1.5 NM	4		
				W 087 05.0400	16R DU	100T		*		294	00 <mark>02:14</mark>	3.7 NM	497	200M	280
	4		.BEND	N 30 43.5600	177 FT	3.1W		900M <u>M</u>	+13C	303	00+)1+50	3.0 NM	9		
				W 087 08.1200	16R DU	100T		*		303	00 <mark>04:04</mark>	6.8 NM	488	200M	280
	5		.TREE FIE	N 30 45.1600	197 FT	3.1W		900M 🏬	+13C	312	00+ <mark>)1+31</mark>	2.5 NM	7		
				W 087 10.3900	16R DV	100T		*		312	00 <mark>05:35</mark>	9.3 NM	481	200M	280
	6		.SAW MILL	N 30 47.4000	56 FT	3.0W		900M <u>M</u>	+13C	289	00+05+02	8.4 NM	24		
				W 087 19.8000	16R DV	100T		*		289	00 <mark>10:37</mark>	17.7 NM	458	200M	280
	7		.CP1	N 30 52.1000	66 FT	3.0W		500A 🕂	+14C						
ľ			mcdavid	W 087 19.3900	16R DV	90G		₩		C	00:00 🕓)		200M	
	8		.CP2	N 30 50.9900	240 FT	2.9W		500A 🌆	+14C						
			rd junc	W 087 26.2000	16R DV	90G		🔀						200M	
	9		.CP3	N 30 53.1500	259 FT	2.9W		500A 🌆	+13C						
			rr/rd junc	W 087 30.3200	16R DV	90G		*						200M	
	10		.CP4	N 30 51.5300	207 FT	2.8W		500A 🏦	+14C						
			pline/rd	W 087 34.7000	16R DV	90G		×						200M	
	11		.CP5	N 30 52.0200	203 FT	2.7W		500A 🌆	+14C						

Fuel Calculations

- Fuel is listed without the decimal point (e.g. 550=55.0 gallons)
- Default fuel is 750 (75.0 gallons)



Calculate Button

 Once route is completed press the "Calculate" button to determine fuel burn

Fuel Calculations (cont'd)

Determining Mission Fuel

- Method 1 Manual
 - Determine fuel remaining at the completion of the route

23	KNDZ/A	N 30 41.9143	177 FT	3.1W	0A <u>Mt</u>	+15C	051	00+01+40	2.8 NM	8
	WHITIN	W 087 00.8645	16R DU	100T	*		051	01:28:21	107.6 NM	338

- Adjust "Internal Fuel" in "Platform Editor" to make fuel remaining at the end of the route = 101 (minimum fuel
 - $\square \quad 100 = 10.0 = \text{NATOPS limit}$
- Mission fuel will be the amount of "Internal Fuel" that yields minimum fuel
- Round up to the nearest gallon
 - i.e. 451 = 45.1 = 46 gallons
- □ Method 2 Let JMPS do it...
 - Select the appropriate 'Path' (most likely Path 1) in the 'Desired Landing/Alternate Path' of the 'Internal Fuel' tab of the 'Platform Editor'
- Re-Calculate

Fuel Calculations (cont'd)

• The last checkpoint should have '101' in the 'fuel' field.



Note

- An 'error' will pop up.
- READ IT!!!!
- It should be telling you that the starting fuel was adjusted to match the desired landing fuel.
- If it is a different error, inform your instructor.
 - You may need to close JMPS out and restart the program if you are planning on your own.

Fuel Calculations (cont'd)

BINGO fuel

- May calculate with JOGAIR and approximate using
 - **30** lbs / hr
 - 115KIAS
 - or
- Plan a new route with JMPS from the furthest point in the route back to NDZ via Course Rules
 - Use the procedures outline to adjust "Internal Fuel" to yield 101 at the end of the route
 - This number in "Internal Fuel" is BINGO fuel
 - 191 = 19.1 = 20 gallons

Printing Route Cards

- Click "File" then "Print"
- A box with different 'Available Data' will pop up.
- Ensure your route has the box checked next to it.
- Select the 'form' you desire by clicking 'Add...'
 - A window will pop-up —
- Select 'MAWTS v1.0.2.jxt' -
- Click "Open"
- Ensure the proper route is selected in the next window, JMPS will default to printing the first
- Select 'Display Form'
- Computer will now appear to be selfdestructing. It is not.
- Please wait and be patient.



🔏 Open Mission Workbook(s)						×
	> Data (D:) > data > local > JMPS >	data → FORMS		✓ Ö Search FOR	MS	P
Organize 🔻 New folder					[EE 💌	0
Routes ^ N	ame	Date modified	Туре	Size		^
steven.a.flood1	TOLD	1/21/2020 9:15 AM	File folder			
💭 This PC 🖉	Bulls v1.0.2.jxt	11/10/2015 3:38 PM	Jmps Datasheets	805 KB		
3D Objects	CAP Locations.jxt	6/24/2016 2:20 PM	Jmps Datasheets	817 KB		
Dealters	CH-53E v1.0.1.jxt	8/29/2013 8:58 AM	Jmps Datasheets	794 KB		
	Form 70.jxt	1/28/2017 12:48 PM	Jmps Datasheets	996 KB		=
Documents	Form 70_ContinuationFuel.jxt	6/24/2016 2:20 PM	Jmps Datasheets	993 KB		
🕹 Downloads 🛛 🗿	Form 70_ContinuationFuel_Repeating.jxt	6/24/2016 2:20 PM	Jmps Datasheets	862 KB		
🎝 Music 🖉	Form 70_DisconnectedPoints.jxt	6/24/2016 2:20 PM	Jmps Datasheets	823 KB		
E Pictures	Form 70_Repeating.jxt	6/24/2016 2:20 PM	Jmps Datasheets	866 KB		
🗑 Videos 🧮 🗿	Form ACC F16C.jxt	11/10/2015 3:50 PM	Jmps Datasheets	813 KB		
Systems & Appli	Form ACC F16CJ.jxt	11/10/2015 3:52 PM	Jmps Datasheets	809 KB		
Data (D)	Form_70_OCA.jxt	6/24/2016 2:23 PM	Jmps Datasheets	989 KB		
Data (0:)	Form70_ContinuationFuel.jxt	4/15/2013 10:10 AM	Jmps Datasheets	858 KB		
	JET Log v1.0.2.jxt	11/10/2015 3:54 PM	Jmps Datasheets	804 KB		
Churd and California 🖉	MAWTS v1.0.2.jxt	11/10/2015 3:56 PM	Jmps Datasheets	801 KB		
· · ·	Sample Reneating Form With RefPts ivt	1/28/2017 12-48 PM	Imns Natasheets	796 KR		~
File <u>n</u> ame:				 Excel Missi 	on Forms (*.jxt)	~
				<u>O</u> pen	Cancel	



Understanding the Route Cards

- Route Cards will open in Microsoft Excel once you press print in JMPS
- The Route cards in Excel will change to not include the dates once you print from Excel
- Print two copies
 - One for you
 - One for instructor

Understanding the Route Cards

Route Time (e.x. CP1-CP10) =
 Time elapsed by CP1 – Time elapsed by CP10

CHECKPOINT	HDNG	DIST	TIME	FUEL	REMARKS	
NAME/NO.		LEG	LEG	LEG		
LAT		REMN	REMN	REMN		
LONG			ELAPSED TIME			
GRID						
KNDZ/A	<u>263</u>	2.2	<u>00+01+19</u>	<u>-194</u>		
N 30 41.9143		104.9	1+27+07	<u>478</u>		
W 087 00.8645					SQ 0100	
16R DU 98620					CH 7, 1, 3, 4	
.POINT BAKER	<u>263</u>	2.2	<u>00+01+19</u>	<u>6</u>		
N 30 41.5100		102.6	1+25+48	<u>472</u>		
W 087 03.3900					SQ 0100	
16R DU 94588 9545	51					



Figure 1-8 Doghouse



Figure 1-9 Double Doghouse

Doghouses (if CTW 5 template

doesn't exist)

📑 🛛 💆 📑 🖛 🛛 1.0 cm/-51	NAV STAN FOLDER DO NOT DELETE				_ 0	x	
File Home Share View 🗸 🕐							
← → × ↑ 📑 > This PC > Student Folder (\\C27AUDTWHTGP01) (S:) > 1. CTW-5 NAV STAN FOLDER DO NOT DELETE v で Search 1. CTW-5 NAV STAN F 🔎							
📃 Desktop 🛛 🖈 🛆	Name	Date modified	Туре	Size			
👆 Downloads 🖈	Archive	4/27/2021 1:14 PM	File folder				
🔮 Documents 🖈	Bridge Publications (FTIs and MPTS)	4/14/2021 12:21 PM	File folder				
📰 Pictures 🛛 🖈	Flight Training Instructions (FTIs)	4/14/2021 12:22 PM	File folder				
1. CTW-5 NAV S	MPTS Curriculum Guides	4/14/2021 12:22 PM	File folder				
1. NAV STAN FO	TRF3001A	4/21/2021 8:01 AM	File folder				
FORMS	COMTRAWINGEIVEINST 3710.8U (RWOP).pdf	12/2/2020 5:46 AM	Adobe Acrobat D	6,097 KB			
	🖹 CTW-5 Standard Doghouse.xml	4/27/2021 1:55 PM	XML Document	3 KB			
steven.a.flood I	Dognouse Generator Experiment.xlsx	5/19/2020 8:27 AM	Microsoft Excel W	14 KB			
🗸 💻 This PC	🛃 HT_28_Main - Shortcut	4/27/2021 12:26 PM	Shortcut	1 KB			
> 📬 3D Objects	😰 JMPS Computer Troubleshooting for Review.pptx	2/23/2021 1:24 PM	Microsoft PowerP	50 KB			
Desktop	Joint Mission Planning System Tutorial v 0.3.pdf	4/27/2021 1:15 PM	Adobe Acrobat D	9,608 KB			
Documents	🔃 Joint Mission Planning System Tutorial v 0.3.pptx	4/16/2021 11:47 AM	Microsoft PowerP	23,099 KB			
Developed	😰 Joint Mission Planning System Tutorial v 0.4.pptx	4/27/2021 1:50 PM	Microsoft PowerP	23,362 KB			
- Downloads	🗙 LocalPoints_NOV 2020.lpx	11/17/2020 4:03 PM	JMPS Local Points	35 KB			
> 🎝 Music	😰 LZ DIAGRAMS - Unverified.pptx	4/14/2021 1:35 PM	Microsoft PowerP	27,978 KB			
> E Pictures	Maj Flood Preferences.prefX	11/17/2020 4:30 PM	PREFX File	95 KB			
> 📑 Videos	Maj Flood's Preference Set.prefX	11/17/2020 4:12 PM	PREFX File	95 KB			
🗧 🏪 Systems & Appli	STD Preferences.prefX	11/17/2020 4:34 PM	PREFX File	98 KB			
👝 Data (D:)							
🚽 🛖 MAPDATA (\\C2							
> 🛖 Student Folder (
🔾 🍠 Network 🗸 🗸							
18 items 1 item selected							









If you accidentally remove the wrong one, Ctrl+Z works.

SLAP Data From JMPS

HT-18, Mar 2019





- Select 'Calculate Using Longitude'
- Or...
- Select appropriate time zone
- Click "Apply"
- Click "OK"

Properties				? ×
Location Name: Longitude: Latitude:	NAS Whiting Fld. W 087 01.200 N 30 43.200			
Offset Offset O No O Calco © Enter	ffset ulate Using Longitude Offset (hh:mm) <mark>-6 5</mark>	÷ 0 ÷		
Time Zone Z (UTC) O (UTC- P (UTC- Q (UTC- R (UTC- R (UTC- S (UTC-	2) 3) 4) 5) 6)			
Initial S U (UTC-	7) 8) 9)	ОК	Set As Defau Cancel	Apply

- Go to the Tabular Editor 🛅
- Select Location to "NAS Whiting Fld"
- Enter "Start Time," "Stop Time," and "Time on Target," as desired
- The times from 'Start' to 'End' WILL ROLL OVER to the next day.
 - Verified using the SLRS tool.

JMPS	- [V	iew 1 - SUMO	Tool1.smo*]					
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NOTES

- A SUMO Point can be added by:
 - 1. Switching to the Graphical view
 - 2. Selecting the 'Moon' (yellow circle) on the top right
 - 3. Clicking on the desired location
 - 4. Right clicking on the newly dropped 'Moon'
 - 5. Selecting 'SUMO-Datapoint XX Properties...'
 - 6. Rename the data point to something that makes sense.
 - 7. Adjust parameters for when you want to pull the data for as previously discussed.

Printing Charts from JMPS

Maj Steven Flood, HT-28, Apr 2021

Why print charts from JMPS?

- Includes planning data already incorporated in route planning
 - Updated Charts
 - Manual CHUM
 - Already drawn airspaces
 - Airports
 - SUAS
 - Other
 - Easy drawing tools for trial and error manipulation of 'No-Fly' areas or other notes.

How to Generate



How to Generate

This is what a new Chart Tool will look like.



How to Generate

This is what the toolbar will look like.

**It may not necessarily appear on the top right of the JMPS window. **









- Used to keep a chart on a 'single page' that is the SIZE OF YOUR CHOOSING.
- Overall view = Map Scale selection + Scale
 Factor selection
- Convenient printing
- Fewer products
- Details may be smaller



Single Page Strip Chart Area Chart Source Rotation
Source Rotation
Scale: CADRG 1:250 K (JOG) ▼ 0.0
Projection Non-polar: Equal Arc Polar: Azimuthal Equidistant
Scale <u>Factor</u> (%): 100 ▼ Effective scale: 1:500,000
Paper size: 8.50'' x 11.00'' (printable area)
Changes made here will only apply to newly created Chart I ool pages. Select 'Properties' on an existing chart page to modify its properties directly.
Revert to <u>i</u> nitial settings Set as <u>d</u> efaults
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E	Projection Non-polar: Equal Arc Rolar: Azimuthal Equidistant	
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	Revert to initial settings Set as defaults Revert all user settings OK Cancel Apply	**You can adjust 'Factor (%)' to make the scale of the paper product fit your
Ļ		square stuff).**



- Used to make prayer books
 - Arts and Crafts' to cut and paste the products together
- Oriented North up
- Multiple pages printed out to keep in order



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- Linked to a specific route
 - Route must be open
- Oriented to the direction of travel of route legs OR the average of the route legs within that chart page.
- Can promote confusion if north seeking arrow is not included.
- Thus, <u>ALWAYS INCLUDE A NORTH</u> <u>SEEKING ARROW!!!!</u>



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