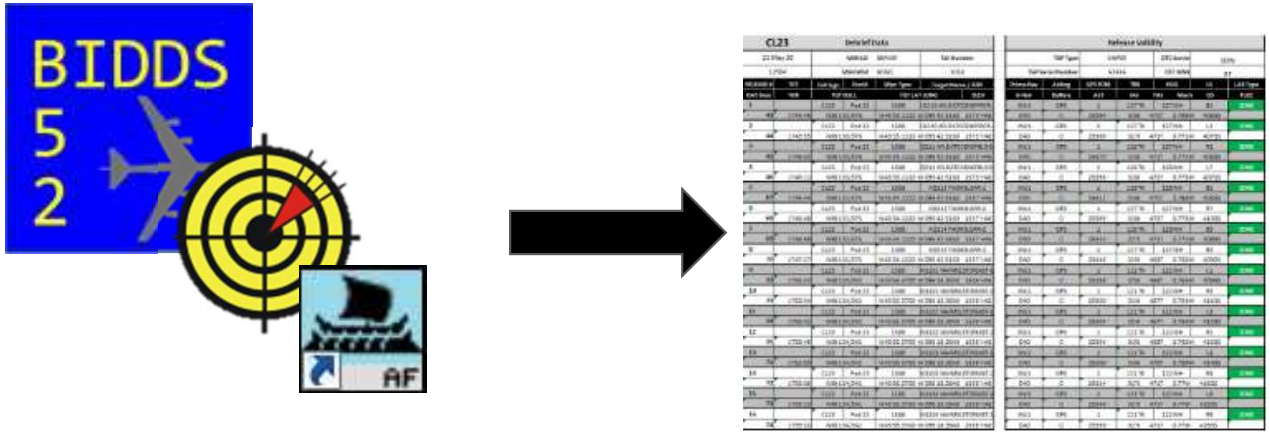
BIDDS Debrief Card

V1.0

Objective

- Generate B-52 weapon release data from DTC flight data recorder files for post-flight debrief and Shot Vals.

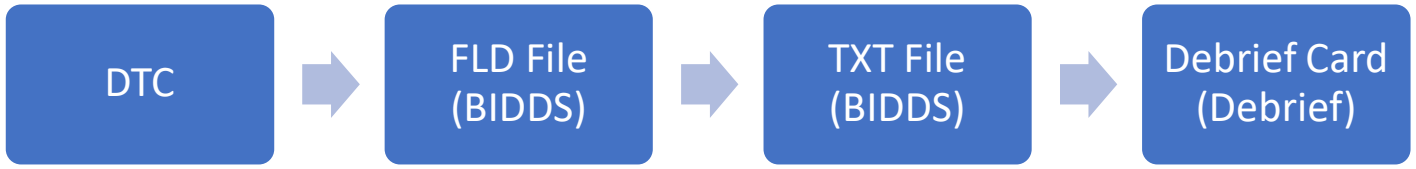


Requirements- BIDDS v4.1, ODD-EC Manager, ODD-EC DTC sled, Debrief Program

Install Guide provided at end of guide

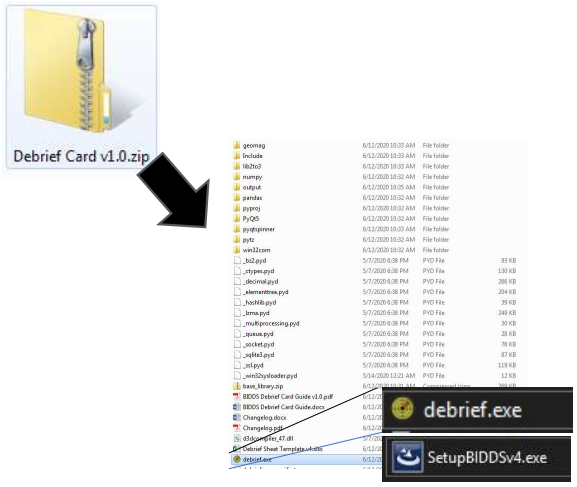
Workflow

- The DTC logs mission data automatically during flight
- BIDDS allows you to view this mission data and save to a text file
- BIDDS Debrief Card searches this text file for all release data, reformats data, and outputs to an Excel Spreadsheet



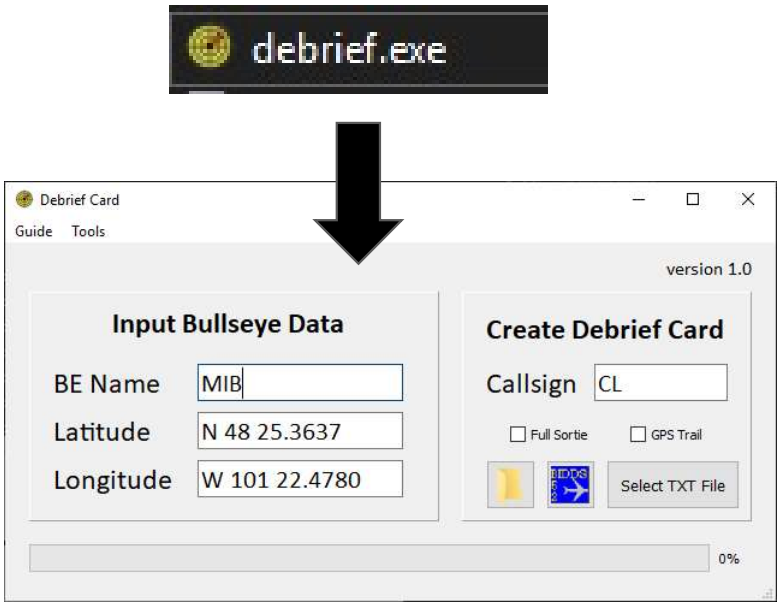
Install

- Unzip Debrief Card.zip to Desktop or Network Share
- Create a shortcut to debrief.exe for quick access
- Install BIDDS v4 and ODD-EC using SetupBIDDSv4.exe
  - Once ODD-EC Manager installed, click Install Wizard to find DTC sleds



Step 1: Debrief Program Open/Type Data

- Open Debrief Program (debrief.exe)
- Input Sortie Data



Input Bullseye Data from Sortie.

- This will be used to calculate Target/Release bullcuts on the final card.
- Format needs to be H DD MM.MMMM

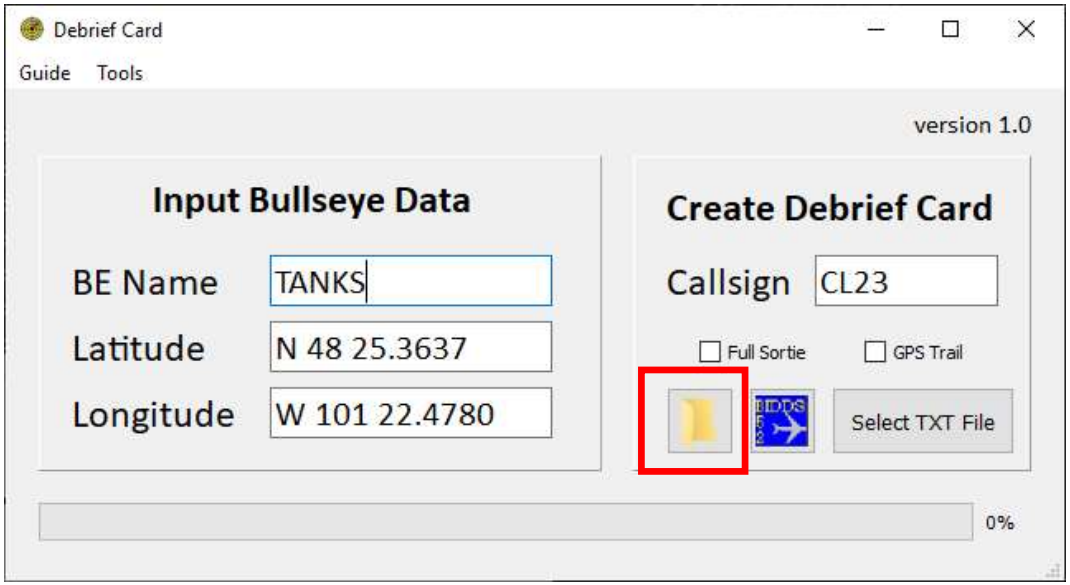
Input Callsign (base callsign will be saved for future cards)

By Default, the program searches the Flight Recording text file only for mission data at release time. This significantly speeds up creating the card. If you would like to output mission data for the entire sortie, select Full Sortie (i.e. you would like a GPS file with the entire route). Expect parsing to take approx. 5 minutes versus 1 minute for defaults.

Check GPS file, if you would like a JMPS GPS file to be created.

Step 2: Debrief Program Create Folder

- Click on Folder Icon

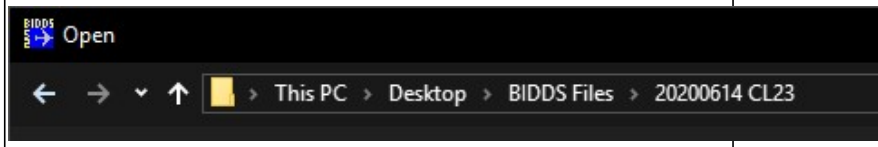


A new folder will be created on your desktop if it doesn't exist already

- Desktop/BIDDS Files/YYYYMMDD CS

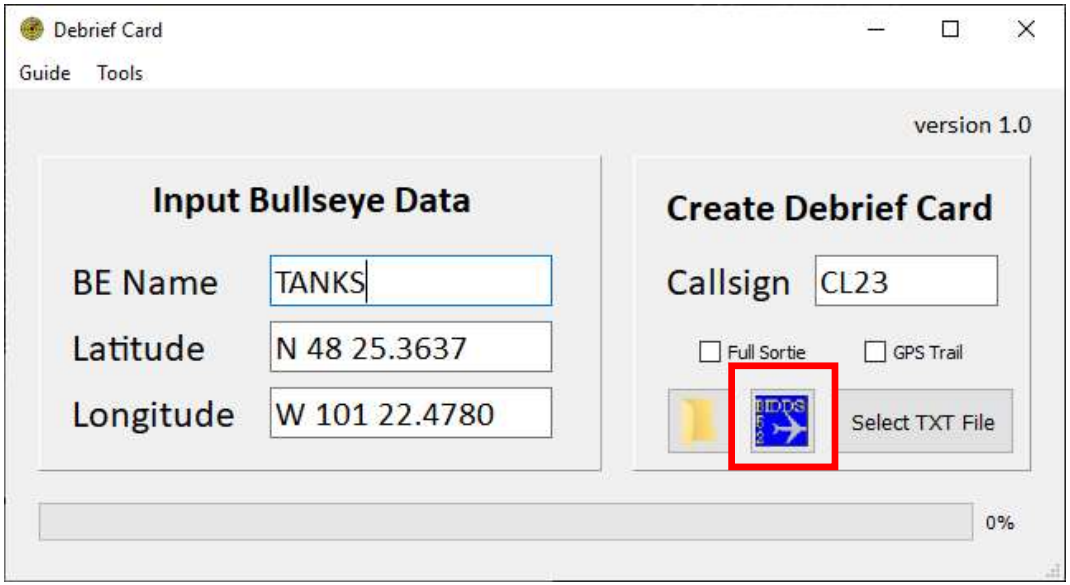
Folder will open

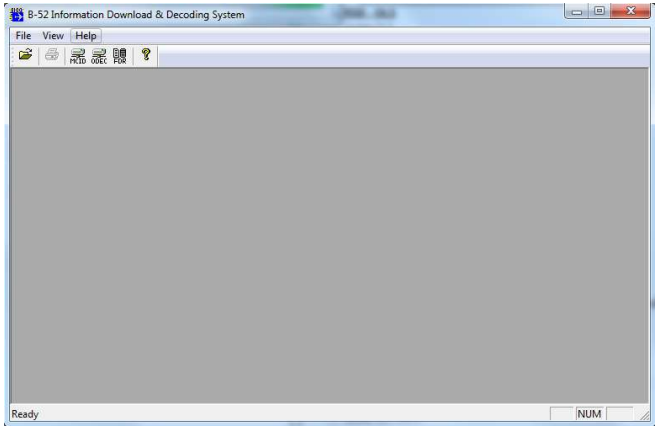
This folder will be where you save your files required to create your Debrief Card



Step 3: BIDDS Open

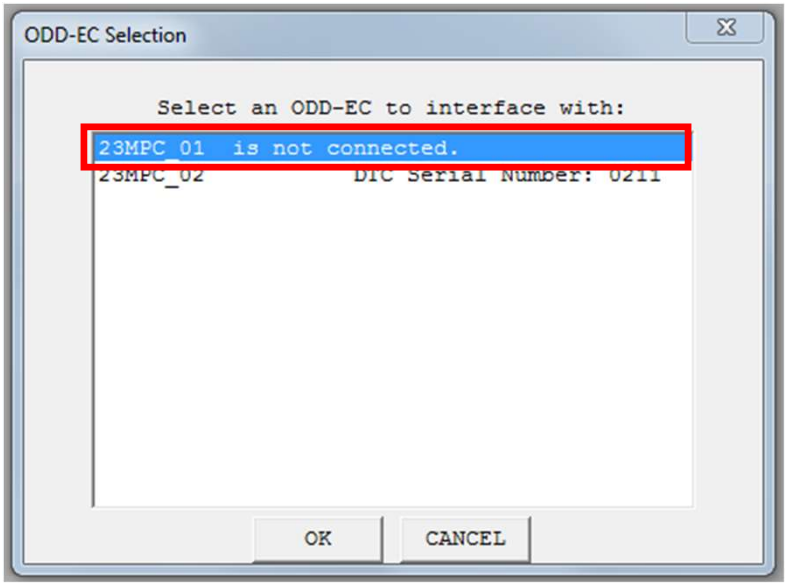
- Click on BIDDS Icon, BIDDS will open





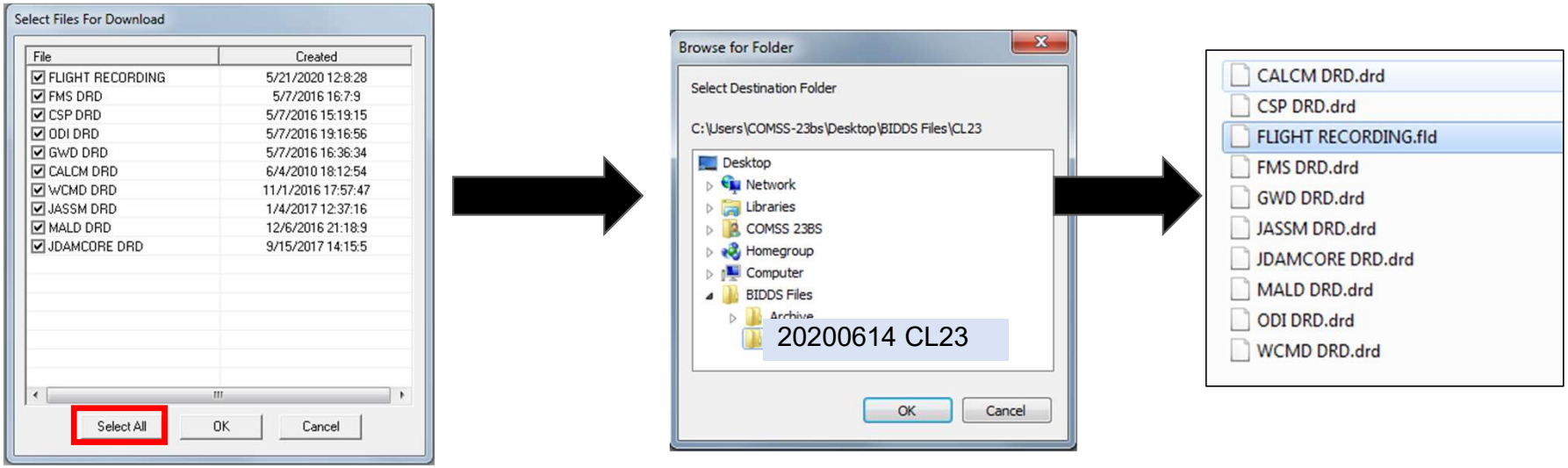
Step 3: BIDDS Select DTC

- Insert DTC into ODEC
- Click ODEC and select DTC



Step 2: BIDDS Save FDR Files

- Select all files and save to Debrief Folder

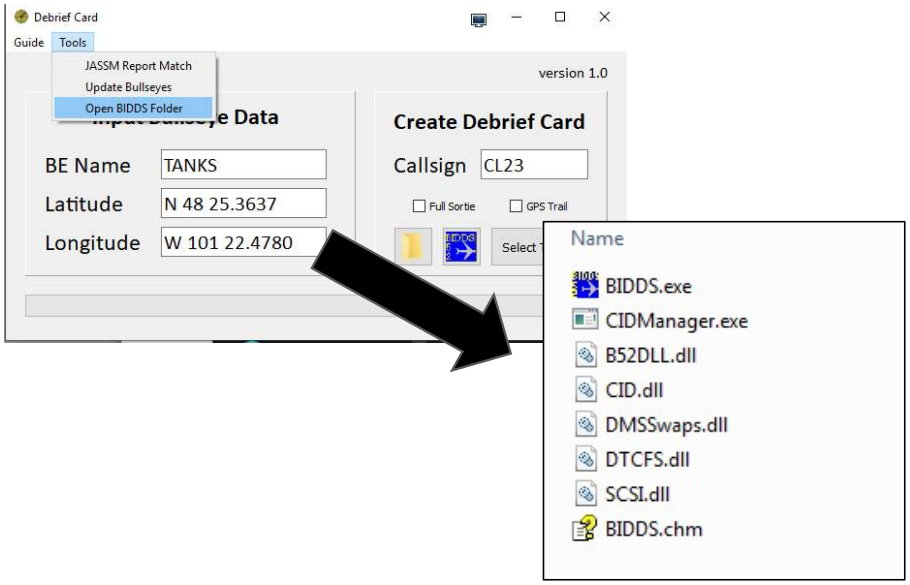


Step 2: BIDDS Copy DRD Files (as required)

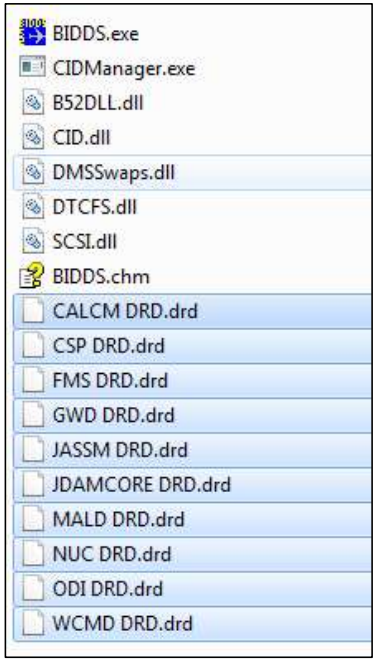
- The DTC saves flight data into the FLIGHT RECORDING.fld file.
- The DRD files are used to decode this FLD file and need to be in the BIDDS program folder located at C:\Program Files (x86)\BIDDS.
- After initially installing BIDDS and after OLS updates, copy the current DTC DRD files to this folder or you will get an error
  - Error: A DRD file could not be found that matches the application ID
  - A shortcut to this folder is provided in the Debrief Card Toolbar: Tools>Open BIDDS Folder
- Once the DRD files are copied to the BIDDS folder, you don't need to copy again unless a different OLS DTC is used

Step 2: BIDDS Copy DRD Files (as required)

- Example Saving DRD files into BIDDS Install Folder



New BIDDS Install (no DRD files)

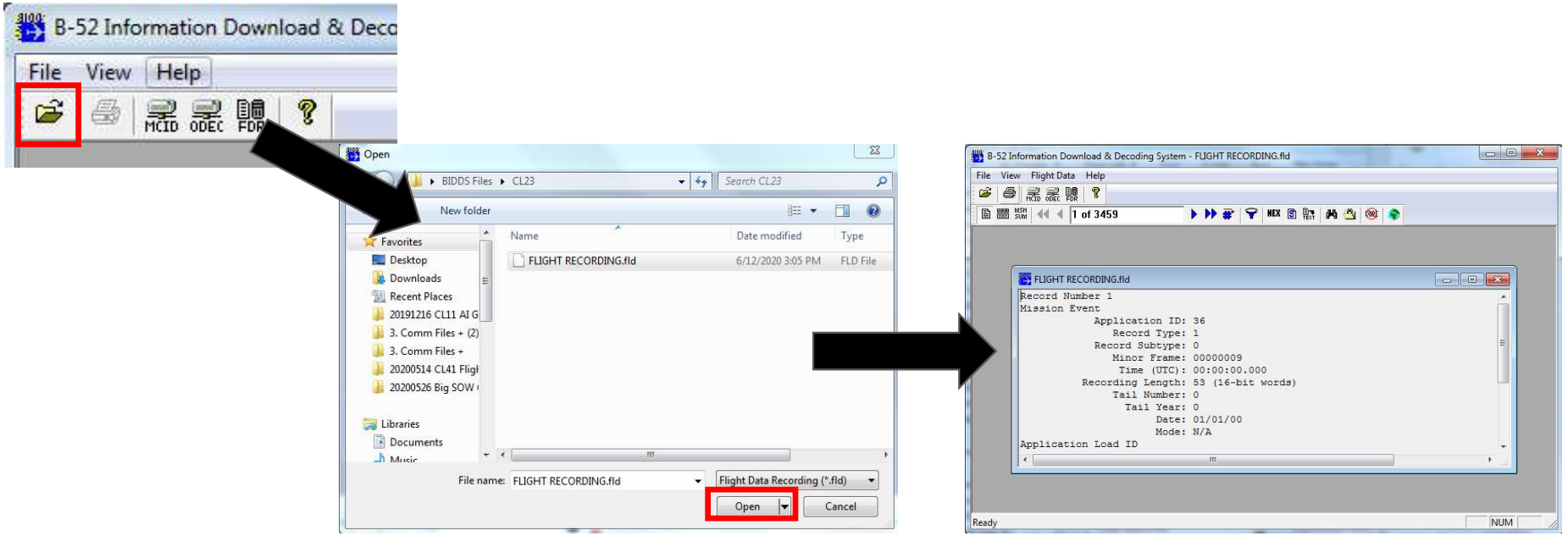


Copy DRD files saved from DTC into BIDDS Installation folder prior to opening FDR files in BIDDS

C:\Program Files (x86)\BIDDS

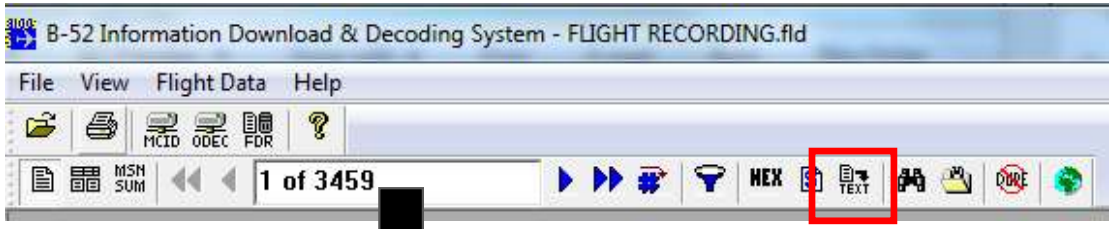
Step 3: BIDDS Open FLD File

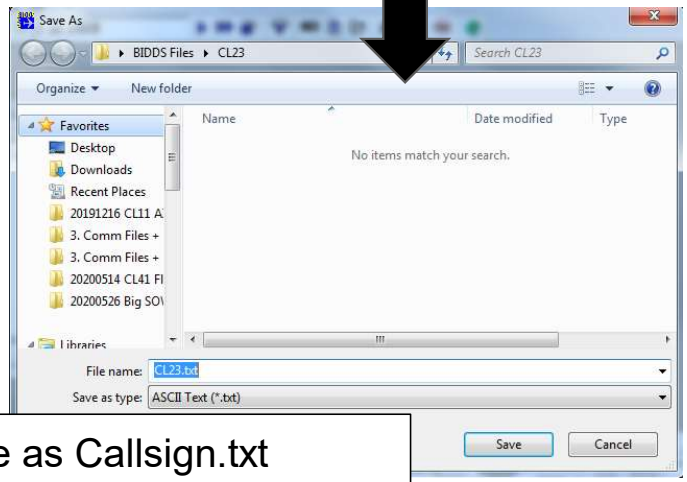
- Click open in BIDDS and select previously saved FDR file saved from DTC (Desktop/BIDDS Files/)



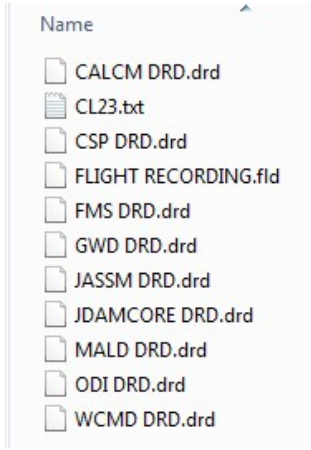
Step 3: BIDDS Save FLD to Text File

- Click on Text Save in Toolbar





Save as Callsign.txt

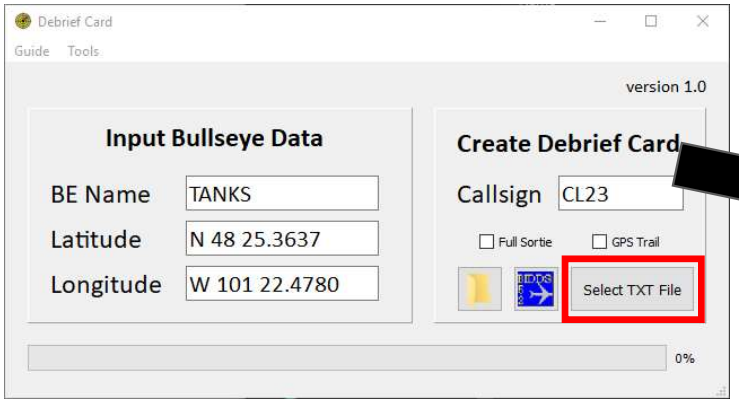


Text file saved in Debrief Folder. This file contains all the Flight Recording files in text format

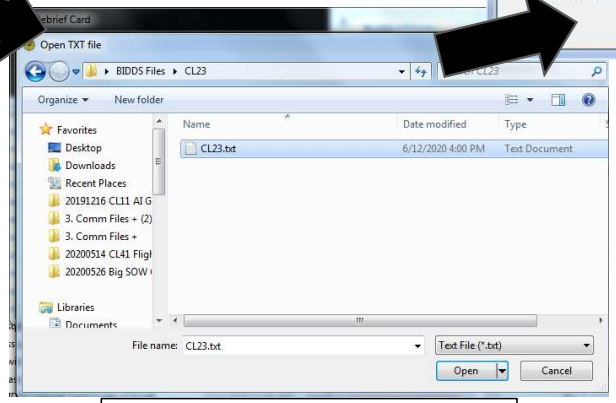
Note: BIDDS will freeze up while saving this file. Do not continue to next step until BIDDS is no longer frozen (spinning wheel). The text file may take up to 5 min to create if the Flight Recording has not been erased prior to flight since all flights continue writing to the same file

Step 4: Debrief Program Select Text File

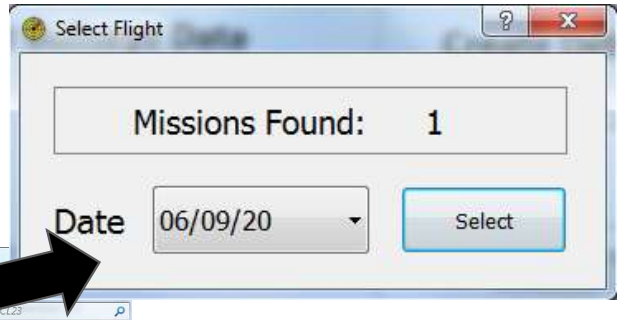
- Open Debrief Program (debrief.exe)



Click Select TXT File



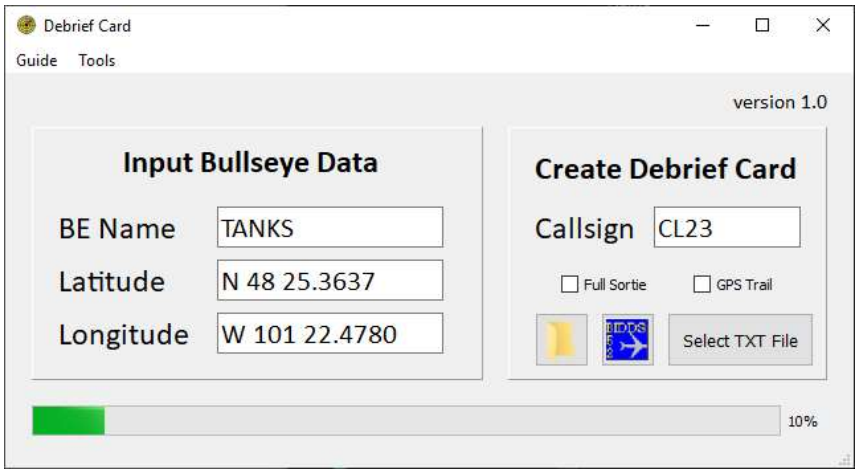
Find TXT file saved from BIDDS



Select the date you Mission Flew

Step 4: Debrief Program Loading

- The program will start searching the file and update progress bar



The program will now search the text file. In the background, 3 different record types are searched then matched.

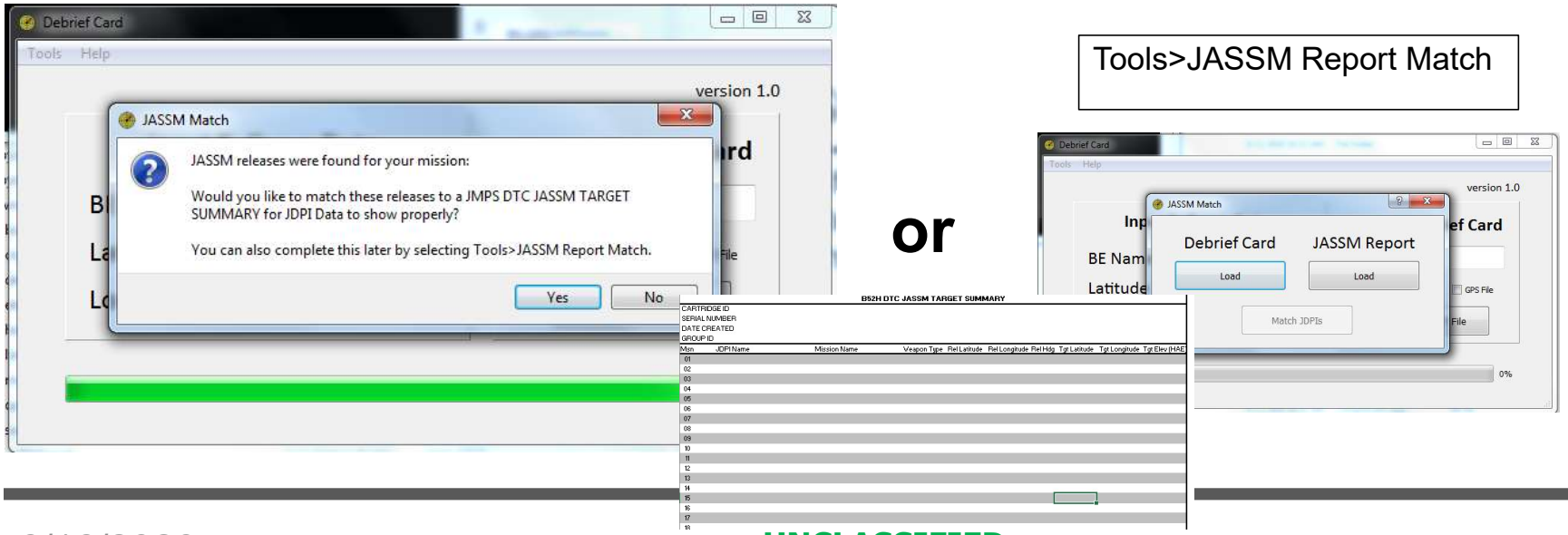
1. Mission Events- Records showing aircraft parameters
2. Weapon Release Events- Different for each weapon
3. SOW IZ LAR Records- For TOF calculations

These events are then matched combined to output all the required data for a release. Realize there are some limitation inherent to how the DTC logs missions:

- Some data that is matched between events may have a time difference of up to 10 seconds
- Some data is missing/needs to be filled in later
  - GPS FOM only logged for GWD release, defaults to 1 for other releases
  - JASSM JDPI data needs to be paired to a JASSM DTC Summary

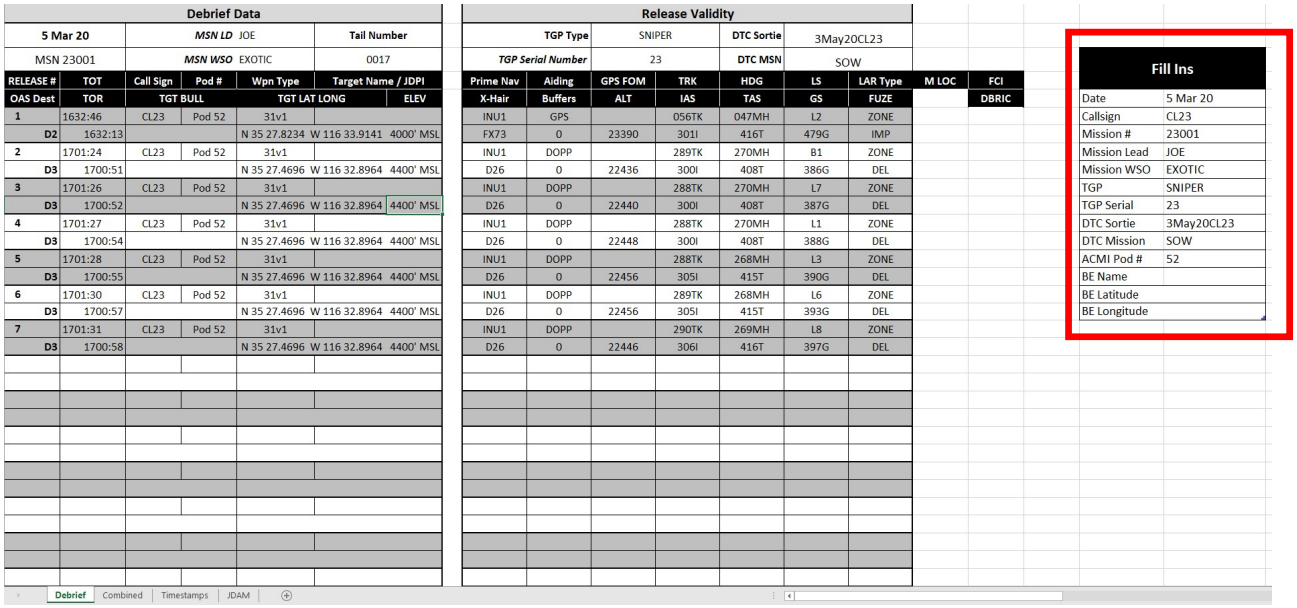
Step 4: Debrief Program JASSM match

- If JASSM releases are found, a dialog will ask if you would like to match to a JASSM DTC Summary Report. Select Report to have JDPI name, coordinates, elevation be displayed properly. This can also be accomplished after.



Step 4: Debrief Program Excel

- Once complete, the Debrief Card will open automatically



Debrief Data

5 Mar 20		*MSN LD* JOE			Tail Number
MSN 23001		*MSN WSO* EXOTIC			0017
RELEASE #	TOT	Call Sign	Pod #	Wpn Type	Target Name / JDPI
OAS Dest	TOR	TGT BULL		TGT LAT LONG	ELEV
1	1632:46	CL23	Pod 52	31v1	
D2	1632:13			N 35 27.8234	W 116 33.9141 4000' MSL
2	1701:24	CL23	Pod 52	31v1	
D3	1700:51			N 35 27.4696	W 116 32.8964 4400' MSL
3	1701:26	CL23	Pod 52	31v1	
D3	1700:52			N 35 27.4696	W 116 32.8964 4400' MSL
4	1701:27	CL23	Pod 52	31v1	
D3	1700:54			N 35 27.4696	W 116 32.8964 4400' MSL
5	1701:28	CL23	Pod 52	31v1	
D3	1700:55			N 35 27.4696	W 116 32.8964 4400' MSL
6	1701:30	CL23	Pod 52	31v1	
D3	1700:57			N 35 27.4696	W 116 32.8964 4400' MSL
7	1701:31	CL23	Pod 52	31v1	
D3	1700:58			N 35 27.4696	W 116 32.8964 4400' MSL

Release Validity

	TGP Type	SNIPER		DTC Sortie	3May20CL23			
	TGP Serial Number	23		DTC MSN	SOW			
Prime Nav	Aiding	GPS FOM	TRK	HDG	LS	LAR Type	M LOC	FCI
X-Hair	Buffers	ALT	IAS	TAS	GS	FUZE		DBRIC
INU1	GPS		056TK	047MH	L2	ZONE		
FX73	0	23390	301I	416T	479G	IMP		
INU1	DOPP		289TK	270MH	B1	ZONE		
D26	0	22436	300I	408T	386G	DEL		
INU1	DOPP		288TK	270MH	L7	ZONE		
D26	0	22440	300I	408T	387G	DEL		
INU1	DOPP		288TK	270MH	L1	ZONE		
D26	0	22448	300I	408T	388G	DEL		
INU1	DOPP		288TK	268MH	L3	ZONE		
D26	0	22456	305I	415T	390G	DEL		
INU1	DOPP		289TK	268MH	L6	ZONE		
D26	0	22456	305I	415T	393G	DEL		
INU1	DOPP		290TK	269MH	L8	ZONE		
D26	0	22446	306I	416T	397G	DEL		

Debrief | Combined | Timestamps | JDAM

Fill Ins

Date	5 Mar 20
Callsign	CL23
Mission #	23001
Mission Lead	JOE
Mission WSO	EXOTIC
TGP	SNIPER
TGP Serial	23
DTC Sortie	3May20CL23
DTC Mission	SOW
ACMI Pod #	52
BE Name	
BE Latitude	
BE Longitude	

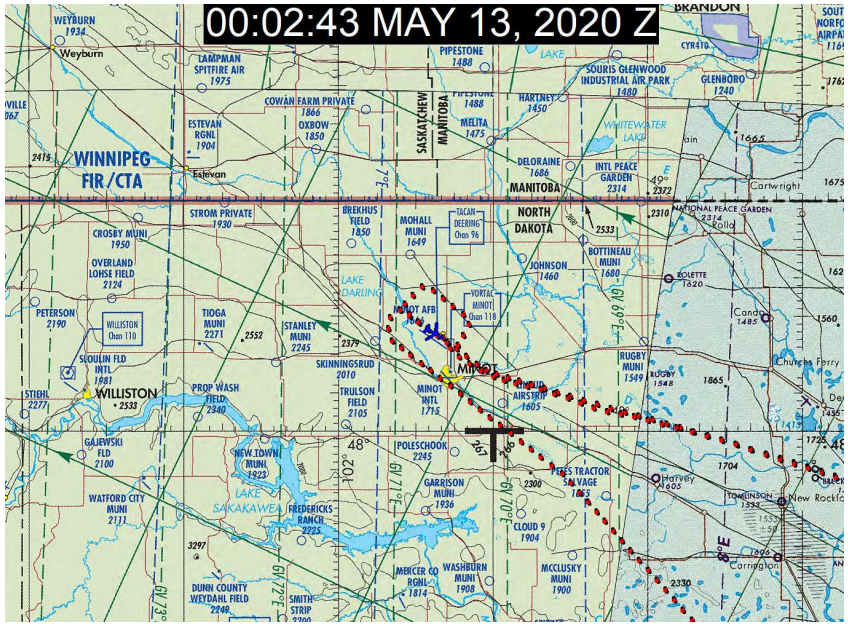
Update the Fill Ins fields on the right of the card to populate the remaining data in the card.

Other Sheets:

- Combined (This is where all the debrief data pulls from). Fill in missing/incorrect release data on this sheet and it will be pulled into the Debrief Card automatically
- Timestamps (Shows all Mission Events from FDR File)
- Weapon Tabs
  - Show release events and all data from FDR File

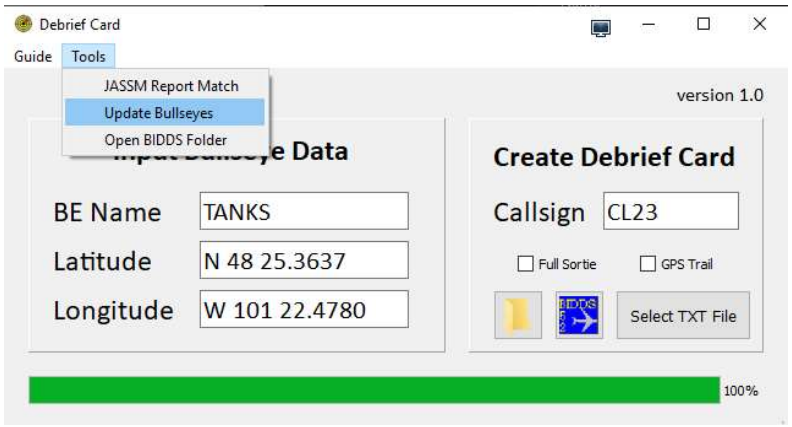
Step 4: Debrief Program GPS File

- If JMPS is installed on the computer running the debrief program, it will automatically open up the GPS trail



Optional Update Bullseye Data

- Sometimes you may need to update bullseye data if the target coordinates to do not correctly pull from the DTC. To do so, update the coordinates on the Combined Tab and save, then click Tools>Update Bullseyes and select your debrief card
- The bullseyes will be updated based on the Bullseye in the Debrief Card Program



Current Limitations

- The DTC sometimes skips logging data
  - JASSM DT coordinates
  - GPS FOM not logged for every release
- BIDDS does not output some records to the text file
  - Targeting Pod Data
  - ALCM releases
- Some data is logged in unknown ways
  - JDAM delays are logged in integer/exponent that needs to be correlated to a ms delay. Therefore delays above 15 ms just show DELAY

Bug Reporting

- If you find a bug or your data does not output to a card, save your text file for troubleshooting
  - Run the debrief card using debrief (debug).exe
  - Record what percent the progress bar got to
  - If any errors were displayed in the console window
  - What weapons released? Sim/War? OLS version