

CAP Airborne Photography

104b Automation Tool

Revision v4 July 2022





New 104b Automation Tool

Gathers Meta Data from all Photos in Seconds to Expedite the Reporting Process

Create .KMZ File of Photo Locations

Offers the ability to Update Meta Data ti Target Location and Save Metadata back to photo



Notes



CACTUS 104B can read the meta data from .jpg and .jpeg files, but is not currently able to read the meta data from .png files.

The AP can add .png files to the CAPF104b, but will need to manually edit the meta data on the CAPF104b.

The image files do not get stored in CACTUS. The content of the CAPF104b is not stored in CACTUS. The AP should print to .pdf and upload to WMIRS.





How to Access New 104b Tool

- 1. Cactus Generated Briefing Via Email
- 2. Cactus 104b Link Available in De-Brief

3. Direct Link https://missions.azwg.org/capf104b



1. Cactus Generated Briefing Via Email

Weather:	
Initial Tactical Objectives:	Collect Information on situation, mission, resources, maps, forensics, contacts/numbers, and other details to support a safe and timely initial response. Activate Wing Communicator Alert System, for all essential resources, to include the stand up of Incident Command Posts, and teams / aircrews as necessary to support the mission. Semploy resources effectively / safely maintaining full accountability of all personnel / equip. Additional objectives as needed.
Last change:	202127: Combellick, Michael Paul 2022.01.08 01:42 ZULU

	ICS 215A - SAFETY PLAN								
AREA	HAZARD	MITIGATION							
AIRCREW	Fatigue, Dehydration, Busy Airspace	Monitor Duty Day Cycle, Monitor Aircrew Rest, Vigilance in busy Airspace, Communicate with Mission Base & ATC, Give PIREPS to ATC. File Flight Plan, Knowledge of local procedures & airports. Personal Limitations of Crew / Aircraft, Icing.							
ALTITUDE	Effects of Altitude, Dehydration, and Fatigue	Be observant for effects of Altitude, Drink Plenty of Water, Nutrition before Sorties, DO NOT EXCEED DUTY DAY.							
AVIATION WEATHER		Monitor Aviation WX via G1000, FSS, Foreflight, etc.							
COMMS FAILURE	Lost Communications with Mission Base / ATC	Monitor radio equipment, use lost communications procedures, have a back-up plan.							
TFRs	Avoid TFRs	Monitor Aviation WX via G1000, FSS, Foreflight, NWS, NOAA Radio, etc.							

Briefing Info Sent via Email from Cactus

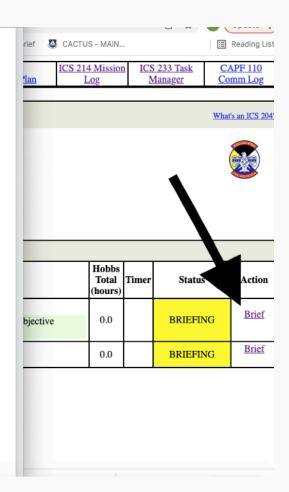


CAPF 104b Link Created at bottom of Email

Printed: 2022-02-20 16:44:37 ZULU Prepared By: Combellick, Michael Paul Contact: paul.combellick@azwg.org

Maj Paul Combellick, CAP
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(C) 480.290.4550
U.S. Air Force Auxiliary
http://www.GoCivilAirPatrol.com

Screenshot





Go Back
CAP FORM 104b

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Batch Description:								
	Choose Image file(s) (*.jpg,*.jpeg,*.png):	Choose Files No file ch	nosen					
	Download to PDF Enter Each Target Name Before choosing Files to Import							
RECONNAISSANCE SUMMARY								
MISSION DATA SECTION								
Mission Number	Mission Dat	ADIS/A	P/MO/MS Reporting (Name & CAPID)					
AZ_TEST / A0001	2022-01-08	Feller, A	aron R / 562075					
		TARGETS	S & REQUIREMENTS					
Sortie Remarks								
TEST SORTIE - ABC	:D							

CAP FORM 104b

is page will generate a CAPF 104b from data stored in CACTUS AND from reading the metadata on your images that are stored on your local device. These images are never uploaded to ACTUS. Once you have selected your images and this page displays the image metadata, you can edit this form to correct any incorrect or missing metadata. When you are satisfied, click the tton to render a .pdf file. Then, you should upload the .pdf file to WMIRS. These images are NOT uploaded to CACTUS. This CAPF104b is NOT stored in CACTUS.

ch Description:	Target Name HERE #1	
Choose Image file(s) (*.jpg,*.jpeg,*.png):	Choose Files 15 files	

Download to PDF



2. Cactus 104b Link Available in De-Brief

Mission A.		CS 201/ICS		ident			rganizati ment Lis		ICS 204 Assignment Status	ICS 205 Radio Communications Plan	ICS 214 Mission		S 233 Task Manager	CAPF 110 Comm Log		
1101	Home Briefing Assignment List Resources Status Communications Plan Log Manager Comm Log 562075															
ate: No R	ate: No Refrush V There are Refresh Disabled seconds left ICS 204 - ASSIGNMENT STATUS What's an ICS 2042															
	MISSION: AZ_TEST Last Refreshed: 01:15 ZULU															
	CURRENT TIME: 01:15:42 ZULU															
								[ADD S	ORTIE			1				
							SW	R - AZ - Redrock	Command (v	irtual)						
Sortie	Callsign	Depart / AOR /	Tasks	ALL	TIME	S IN Z	ULU	Crew		Remarks	Hobbs Total	Timer	Status	Action		
Sortie	Catisign	Destination		ETD	ATD	ETA	ATA	Crew		Remarks	(hours)		Status	Action		
A0001	CAP000	KSDL	003	1500		1800	1900	_	TEST SORTIE - A	ABCD test Objective Located Objective	ve 0.0	0	IN PROGRES	,		
2022-01-08	022-01-08		KSDL		1300			1600	1900		Located @0610Z	test Objective Located Objective	ve 0.0	Ů	INTROOKES	3

After Mission Status Changes from In Progress - 104b Action Link Appears

	AZ TEST ome	ICS 201/ICS Bri	202 Ir efing	ncident	IC		Organiza gnment L			CS 204 Assignment Status	ICS 205 Radio Communications Plan	ICS 214 Lo	Missior og		233 Task Manager	CAPF 110 Comm Log
	562075															
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	MISSION: AZ_TEST Last Refreshed: 01:20 ZULU															
	CURRENT TIME: 01:21:43 ZULU Click CAPF 104b															
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							SV	VR - AZ - Redro	ock (Command (vi	rtual)					<u> </u>
ortie	Callsign	Depart / AOR /	Tasks		TIME	S IN Z	ULU	Crew			Remarks		Hobbs Total	Timer	Status	Action
Jortic		Destination 1		ETD	ATD	ETA	ATA	Ciew			Remarks		(hours)		Status	Action
10001	CAP000	KSDL								TEST SORTIE - AB						CAPF
122-01-08					COMM: this is a te Located @0610Z	st Objective Located Objective	re	0.0		DE-BRIEFIN	104b					



2. Cactus 104b Link Available in De-Brief / Completed

Mission A Hor		ICS 201/ICS 2 Brief		ident	ICS		rganizatio ment List		ICS 204 Assignment Status	ICS 205 Radio Communications Plan	ICS 214 Mission Log		S 233 Task Manager	CAPF 110 Comm Log
eta: No B	ste: No Refrush V There are Refresh Disabled seconds left													
ate: [NO ROPEST V] There are Refrest Disabled seconds left ICS 204 - ASSIGNMENT STATUS What: an ICS 2042														
,	MISSION: AZ_TEST Last Refreshed: 01:15 ZULU													
	CURRENT TIME: 01:15:42 ZULU													
								[ADD S	ORTIE]					
							SWI	R - AZ - Redrock	Command (vi	irtual)		,		
Sortie	Callsign	gn AOR / Tasks		_	L TIMES IN ZULU			Crew		Remarks	Hobbs Total	Timer	Status	Action
		Destination		ETD	ATD	ETA	ATA				(hours)			
A0001	CAP000	KSDL	003	1500		1800	1900		TEST SORTIE - A		ve 0.0	0	IN PROGRES	e
2022-01-08	1003			1300		1800	1900		Located @0610Z	test Objective Located Objective	ve 0.0	Ů	IN PROGRES	3

After Mission Status Becomes Complete 104b Action Link Remains

	AZ TEST ome	ICS 201/ICS Bri	S 202 Ir efing	ncident	<u>IC</u>		rganizati ment Lis		ICS 204 Assignment Status	ICS 205 Radio Communications Plan	ICS 214 Missio Log			CAPF 110 Comm Log
	562075													
sh rate: No Refresh V There are Refresh Disabled seconds left h. ICS 204 - ASSIGNMENT STATUS										hat's an ICS 204?				
MISSION: AZ_TEST Last Refreshed: 01:09 ZULU Click CAPF 104b														
CURRENT TIME: 01:11:25 ZULU														
	[ADD SORTIE]													
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Sortie	Callsign	Depart / AOR /	Tasks		TIMES	S IN ZU	J LU	Crew		Hobbs Remarks Total Ti			Status	Action
Sortie		Destination			ATD	ETA A	ATA	Crew		Remarks	Total (hours)	Timer	Status	Action
A0001	CAP000	KSDL				1000	1000		TEST SORTIE - AB				GOL 454 5555	CAPF
2022-01-08	1 1003 115001 118		1800	1900		COMM: this is a test Located @0610Z	st Objective Located Objectiv	e 0.0		COMPLETED	104b			





5 Easy Steps

- 1. Click Link to Access Tool
- 2. Add Batch Photo Description
- 3. Choose Files with Meta Data
- 4. Repeat Items 1&2 for Multiple Targets
- 5. Make Final Edits Create PDF or Generate .KML & Upload



CAP FORM 104b

Download to PDF

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Batch Description:	Target Name HERE #1	
Choose Image file(s) (*.jpg,*.jpeg,*.png):	Choose Files 15 files	

After Files Selected - ALL Meta DATA is Added to Imagery Target LOG

IMAGERY / TARGET LOG									
Photo #: 1	Description: Target Name HERE #1								
Computer File Name: CAP_6048 LKP Over head EAST Camera Heading JPG	Time: 2018:05:19 20:05:44 z								
Latitude: N33° 49.3297'	Longitude: W109° 38.1771'								
Direction: 54	Altitude: 9836								
Photo #: 2	Description: Target Name HERE #1								
Computer File Name: CAP_6038.JPG	Time: 2018:05:19 19:36:24 z								
Latitude: N33° 50.0674'	Longitude: W109° 34.0783'								
Direction: 319	Altitude: 10673								
Photo #: 3	Description: Target Name HERE #1								
Computer File Name: CAP_6039.JPG	Time: 2018:05:19 19:37:10 z								
Latitude: N33° 48.9858'	Longitude: W109° 33.2344'								
Direction: 120	Altitude: 10453								



CAP FORM 104b

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Batch Description:	Target Name HERE #1
Choose Image file(s) (*.jpg,*.jpeg,*.png):	Choose Files 15 files

Update Batch Info for Each Target

Download to PDF

Update and Download to PDF

IMAGERY / TARGET LOG				
Photo #: 1	Description: Target Name HERE #1			
Computer File Name: CAP_6048 LKP Over head EAST Camera Heading JPG	Time: 2018:05:19 20:05:44 z			
Latitude: N33° 49.3297'	Longitude: W109° 38.1771'			
Direction: 54	Altitude: 9836			
Photo #: 2	Description: Target Name HERE #1			
Computer File Name: CAP_6038.JPG	Time: 2018:05:19 19:36:24 z			
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CAPF104b User Guide

Batch Description:			
Optional: Timezone offset from UTC:	0	Optional: Time correction to UTC. Most of AZ=7 (only needed if GPS Time is not in the metadata or metadata time is not UTC)	
Choose Image file(s) (*.jpg,*.jpeg,*.png):	Choose Files No file chosen		
	Download to	o PDF	

	RECONNAISSANCE SUMMARY			
MISSION DATA SECTION				
Mission Number / Sortie Number Mission Date ADIS/AP/MO/MS Reporting (Name & CAPID)				

Generate kml file











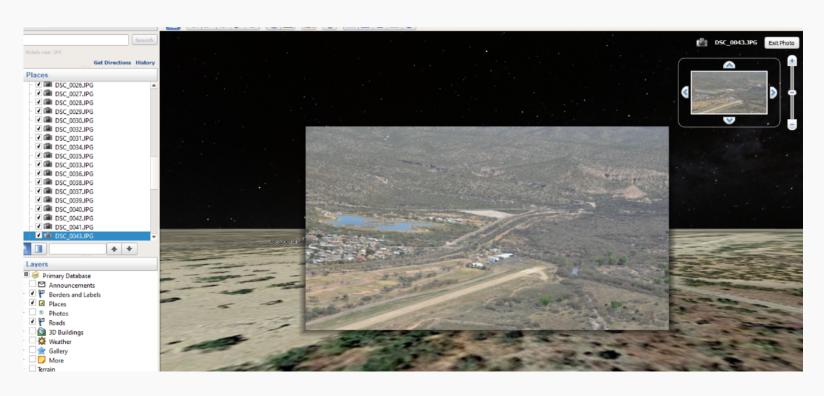






Photo Metadata Editor

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CAPF104b User Guide Photo Metadata Editor

atch Description:		
ioto time correction to UTC:	0	Time correction to UTC. Most of AZ = 7 (only needed if GPS Time is not in the metadata or metadata time is not UTC)
Choose Image file(s) (*.jpg,*.jpeg,*.png):	Choose Files No file chosen	
	Download to	

RECONNAISSANCE SUMMARY





Photo Location on Take off





Rotate Photo to align with Map Reset Rotation Angle to 0

CAP FORM 104b Photo Metadata Editor

Source	Latitude	Longitude	Bearing (T)	Action
Original Photo:				
CAP Ellington Te: Screen	nshot 6.56'	W95° 9.84'	332 M	NA
CAP Ellington Te: Screen	nsnot 6.56'	W95° 9.84'	332 M	NA





MOVE Location to Update Target Lat/Long





CAP FORM 104b Photo Metadata Editor

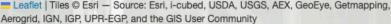
Source	Latitude	Longitude	Bearing (T)	Action
Original Photo: Scre	enshot			
CAP Ellington Tayas Ca	N20" 36 56'	W05° 0 84'	333 M	NI A





UPDATED Camera META DATA for 104 B Target Lat/Long









Rotate Photo to align with Map Reset Rotation Angle to 0

CAP FORM 104b Photo Metadata Editor

Source	Latitude	Lor	itude	Bearing (T)	Action
Original Photo:					
CAP Ellington Texas CA	N29° 36.56'	W95° 9.8		332 M	NA
2017.09.08 13:8:16 z					
Camera Location:	N29° 36.56'	W95° 9.		268	NA
Target Location:	N29° 36.55'	W95° 1	'	NA	Update Target

Reset all to original photo Center Camer Target GoTo Home Save Home

Write Camera Data to Original Photo

Coordinate Format		
O Decimal Degrees	Degrees Decimal Minutes	O Degrees Minutes Seconds





SAVE LAT/LONG FORMAT PER Customer Request





Rotate Photo to align will Map Reset Rotation Angle to 0

CAP FORM 104b Photo Metadata Editor

Source		Latitude	Longitude	Bearing (T)	Action
Original Photo:					
CAP Ellington Texas	CA	N29° 36.56'	W95° 9.84'	332 M	NA
2017.09.08 13:8:16	z				
Camera Location:		N29° 36.56'	W95° 9.84'	268	NA
Target Location:		N29° 36.55'	W95° 10.06'	NA	Update Target

original photo Center Camera on Target GoTo Home Save Home

Write Camera Data to Original Photo

	Coordinate Format	
O Decimal Degrees	Degrees Decimal Minutes	O Degrees Minutes Seconds





104B TOOL Located in AZ WING CACTUS

OR Direst Link
- Listed below -

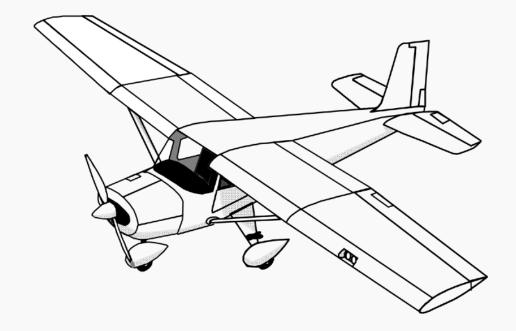
If No sortie in CACTUS.

* Note with no sortie the 104b Tool cannot display any sortie specific tasking information.

https://missions.azwg.org/capf104b







QUESTIONS?