Camp Fire Search & Recovery Operation

















Damian Guilliani

Situation Unit Leader / Technical Information Specialist





Camp Fire Search & Recovery Operation



- Fire Overview
- Sheriff Search & Rescue
- FEMA / OES US&R Teams
- US&R Operations
- Data Collection
- GIS Products
- US National Grid
- Lessons Learned





Camp Fire Overview



- The fire started at sunrise on Thursday, November 8, 2018, and was first reported at 06:29 hours
- 76 Acres per minute / 1+ Football Field per second
- Burned area: 153,336 acres
- Most destructive wildfire in California history
- Largest SAR Operation in California history
- Over 21,000 structures destroyed
- Approximately 17,000 livable structures
- Another 4,000 commercial and other structures
- *86 confirmed fatalities



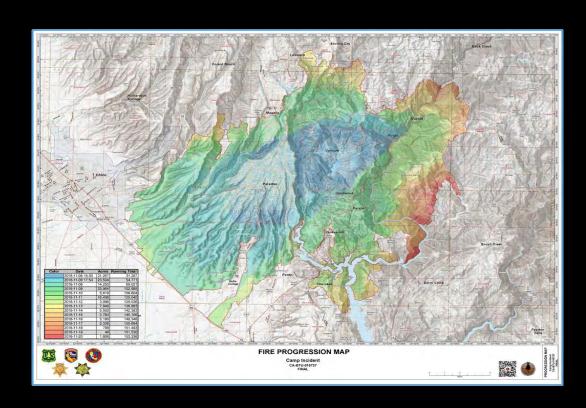






"We don't normally have a process to deal with many unaccounted-for individuals"

-Butte County Sherriff-Coroner: Korey Honea







Catastrophic Mass Fatality



 California does not have a State Coroner or Medical Examiner.

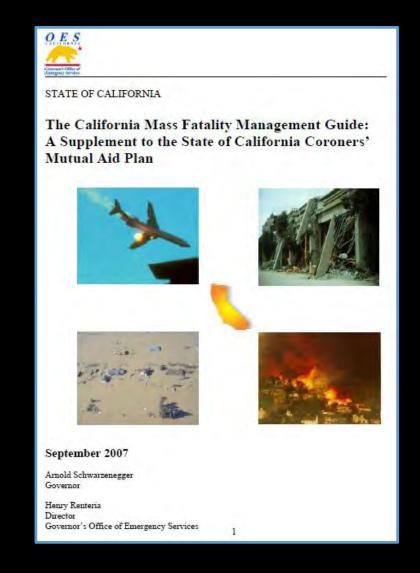




Catastrophic Mass Fatality



- A "Catastrophic Mass Fatality" event is one in which the loss of life overwhelms the state's coroner mutual aid system and requires extraordinary support from the state, federal, and private resources.
- Primary responsibility for the investigation, recovery, and management of human remains resides within the authority of the local coroner or medical examiner.





Sheriff Search & Rescue (SAR)



- Volunteers
- Search for stranded, lost or injured persons
- Activated during natural disasters
- Organization Components;
 - Search Units
 - Plans Section
 - K-9 Units
 - Coroners & Anthropologists
 - Communications Unit
 - Logistics Unit
 - Medical Unit





SAR Priority Searches



• **TUBBS Fire 2017:**

- Priority 1: High Probability
- *Only Priority 1 searches completed

• Camp Fire 2018:

- Priority 1: High Probability
- Priority 2: Moderate Probability
- Priority 3: Low Probability



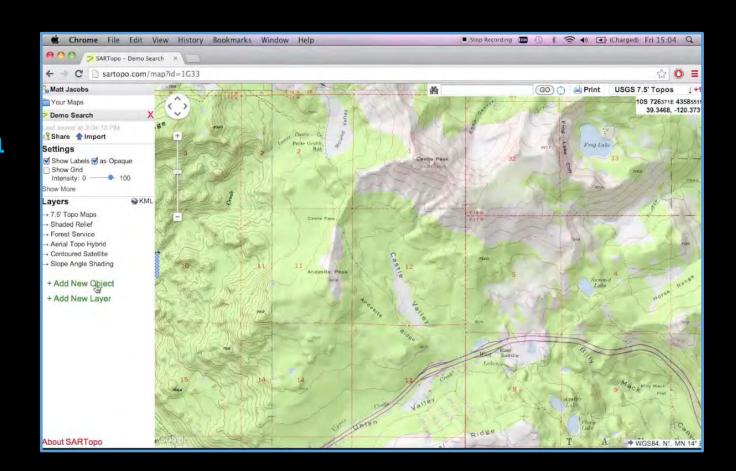




SARTopo & SAR Data Collection



- Works for small area search
- Web based with offline option
- Search Operations
- Search Planning
- Post Operation Reports
- Interfaces with google maps
- Manage & Edit GPS Data

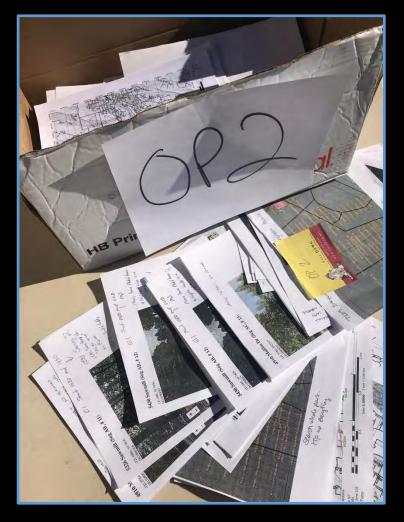


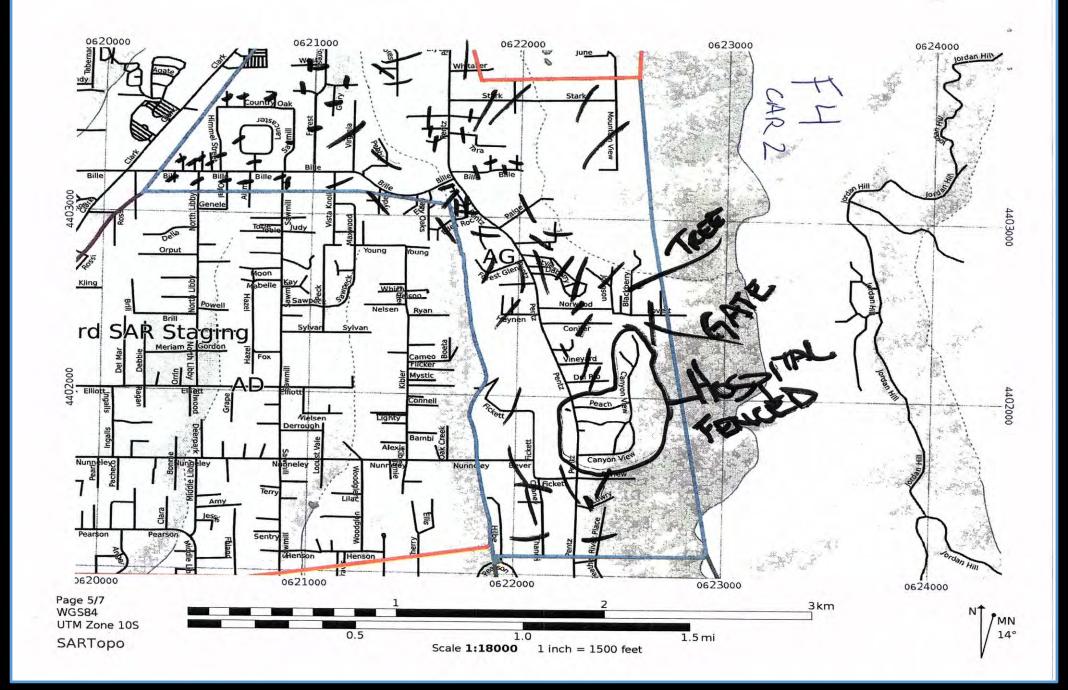


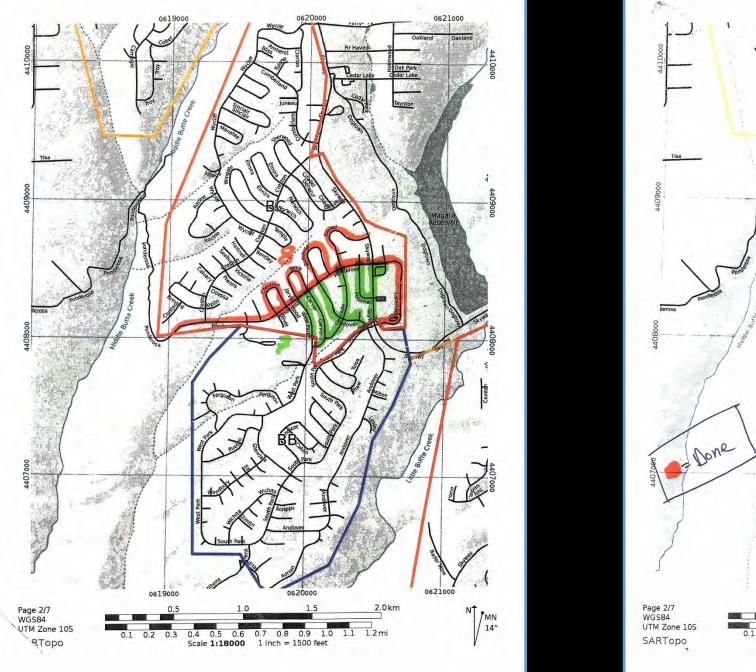
SARTopo & Data Collection

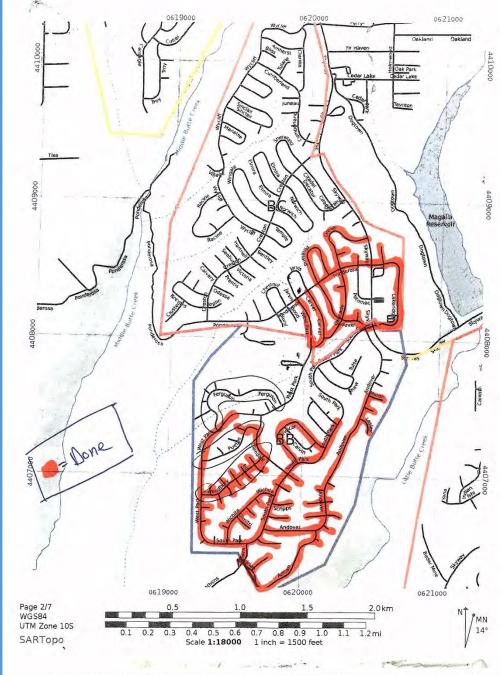






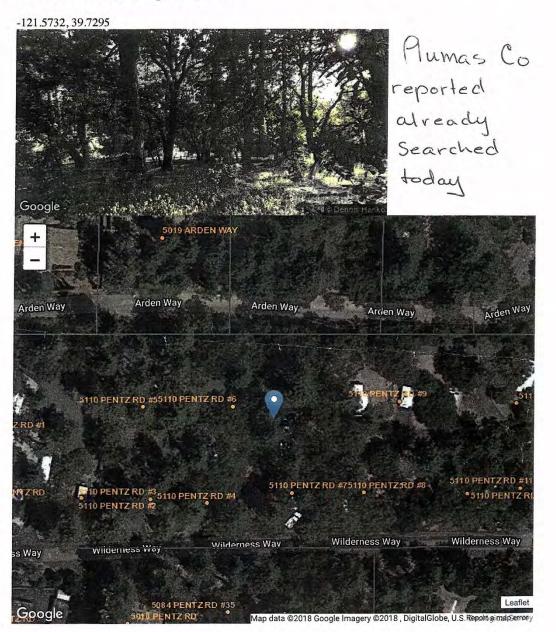






DI

5110 Pentz Rd (Seg AC, # 2)



5471 S LIBBY RD (Seg AB, #1)

-121.5974, 39.7465

1811090610 Note: No unit # provided; marker on map is NOT exact location



PENL UDUILLEUT DENOTES

FOUND TO SUMP COCKS



REMARNS'
FOUND, I PERSON

#SLIVE CAT TOME FOUND AT 1310

STANT TOYE: 1/30 STOP; 1608 LUNCU BREAK: 1330-12/400 UTM!

SGARCU DETATES;

- DECEASED DOG POUND (SEE MAD FOR LOCATION. ON STREET

- TASK IS TO SGARCH WHELE PARK

TEAM GELLO 2 STAPTS LINE SEARCH AT BOTTOM OF

- HARROW REMAINS FOUND AT 1236 (UTM OF 105 062012\$5) (REMAINS 4400500)

REMATINS FOUND IN BED 5471 S. LIBBY RD #33?

BLACKING THIL WITTE MARKINGS ON FACE, ANIMAL CONTROL NOTIFIED.

LOVE CAT #2 FOUND AT (SEE MAP) TRAPPOS IN SWAMP COOLER, CAT WAS FREED BY FIRE SHE

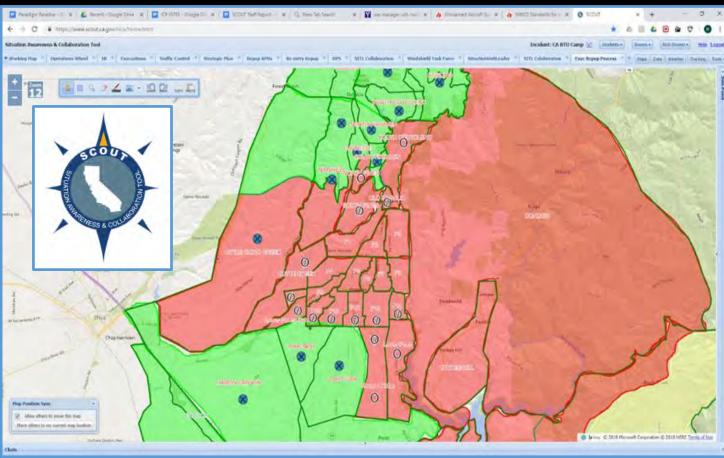


Evacuation Zones and Repopulation



- Sherriff #1 Priority: Repopulation
- Search areas based off evacuation zones
- Repopulation data being collected in SCOUT

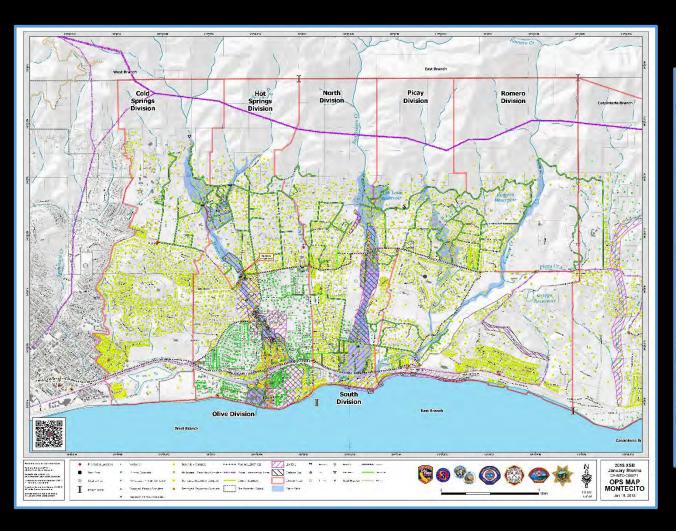




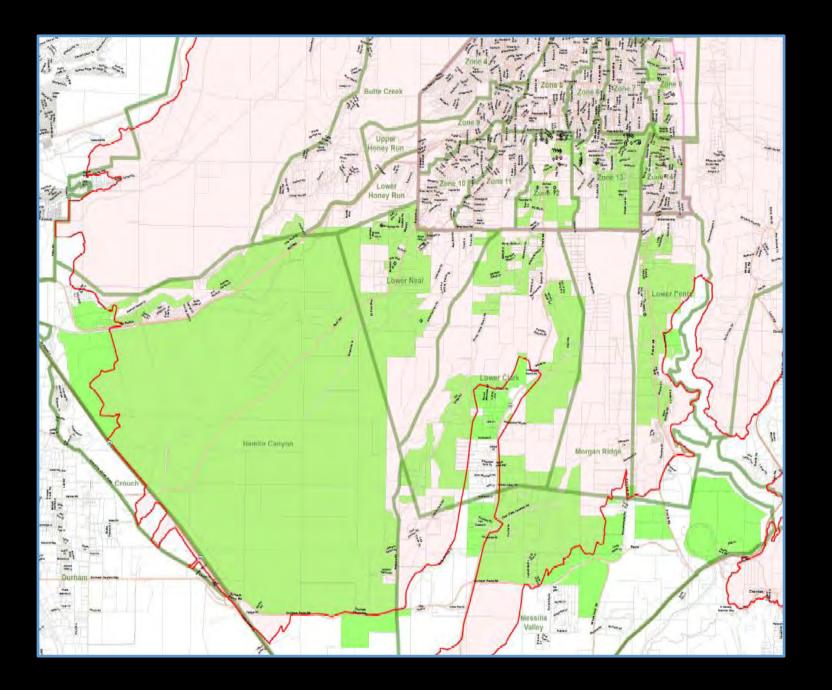


Montecito Mudslides













11/17/2018





"You don't see what's going on until you come here, and what we saw at Pleasure, what a name right now... but what we just saw we just left Pleasure, or Paradise."
-President Trump





Rescue Group



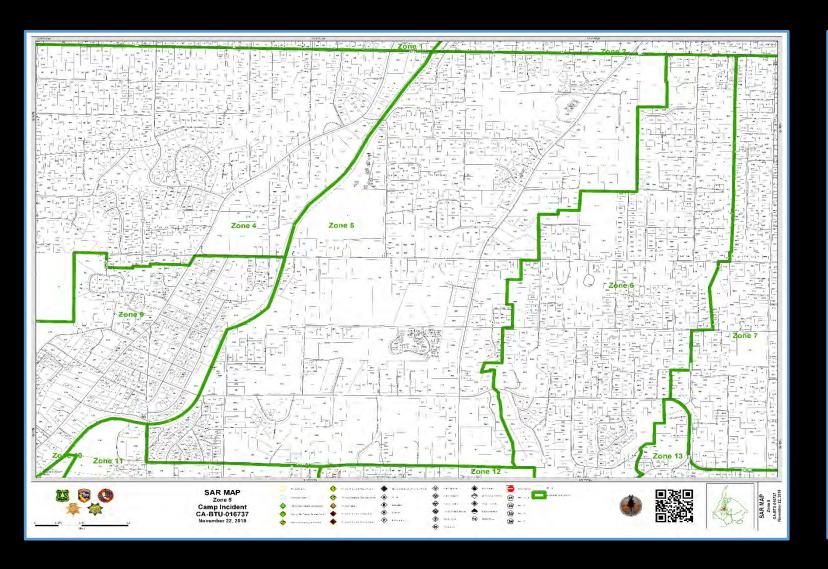
- Assigned 11/15/18
- 5812A was assigned to the Search and Rescue effort
- Primary Mission: Assist Echo Group in Paradise
- Established a system for documentation













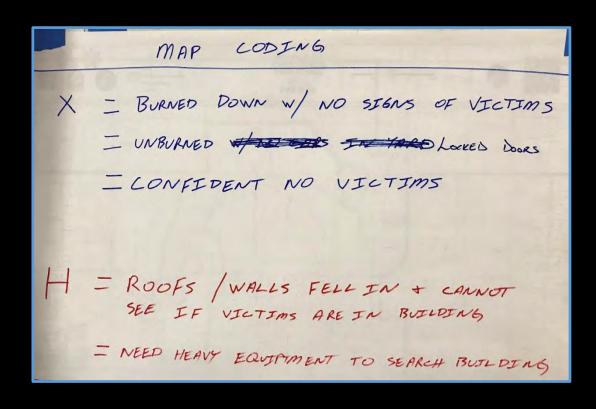




Early Data Collection





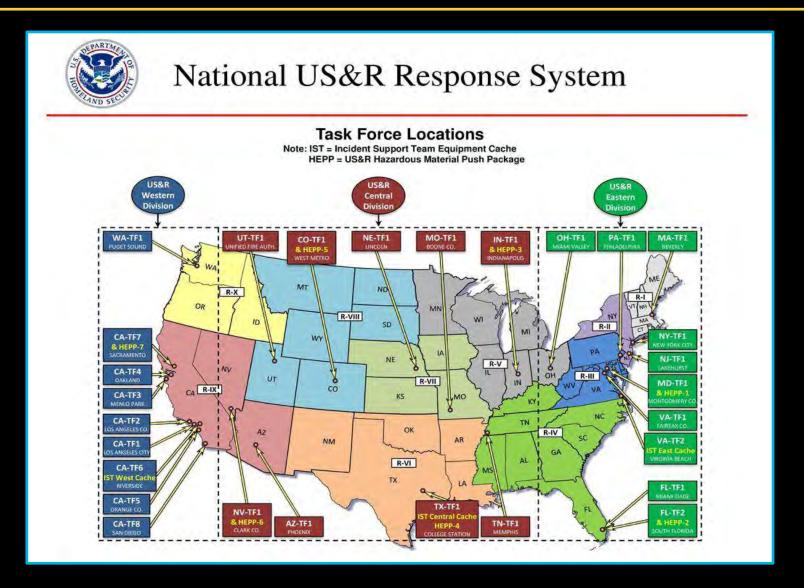




FEMA National US&R Task Forces



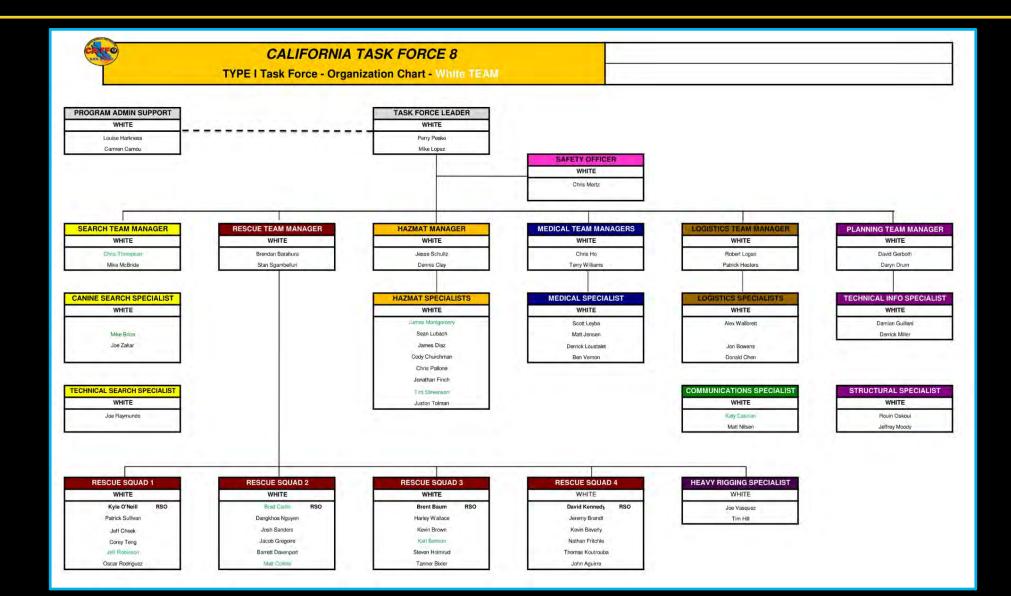
- 28 National Teams
- 8 Teams in California













OES California Regional US&R Task Forces



- 12 Total in California
- A Regional US&R Task Force includes 29 specially trained personnel.







Resources

Date	11/21/2018		11/22/2018		11/23/2018		11/24/2018	
	Resouce #	People	Rescource		Rescource #	People	Rescource	People
USAR TASK FORCE	9	278	9	278		278	7	217
OES STA/TF	14	259	14	259	13	240.5	14	259
CAL FIRE STC	2	42	2	42	1	21	0	0
CAL FIRE OVERHEAD	5	5	5	5	8	8	5	5
BUTTE COUNTY FIRE TF	2	32	2	32	2	32	1	16
Forest Service Hand Crew	1	17	1	17	1	17	0	0
Private Heavy Equipment	13	13	13	13	13	13	6	6
SAR Volunteers		124		78		91		223
National Guard		106		126		126	5	126
Anthropologist + -9	THE PERSON NAMED IN	9		9		18	3	24
TOTAL		885		859		845	5	876









- CA-TF3
- CA-TF4
- CA-TF6
- CA-TF8
- RTF-4
- RTF-5
- RTF-6
- RTF-10
- RTF-12
- 4816A
- FOBS

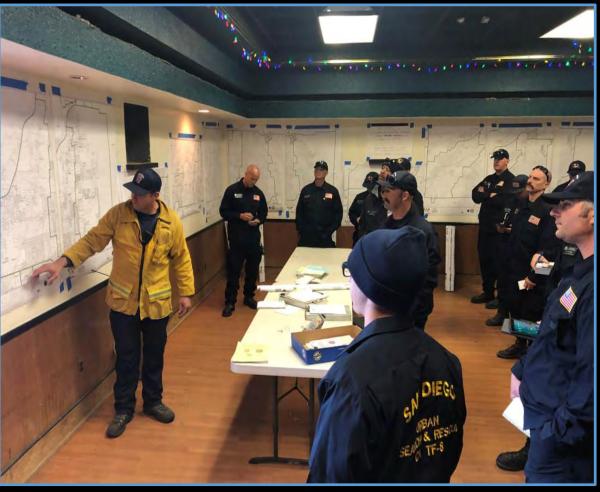




US&R Data Collection













X	e Damaged 1	Medium Risk, structi	shility of further collapse ture is moderately damaged subject to sudden collapse Symbol	Name	Description			
Structur	Nun	Hinh Risk may be s	ubject to sudden collanse	Name	Description			
\$100	Nun	3. 7	1 Minh	Name	Description			
Assisted ASSISTED AOF BEVACUAT RESCUENT AOF AOF CONFIRM ATT ATT ATT ATT ATT ATT ATT A		nber	Symbol	Name	Description			
Evacuat		nber	Symbol	Name	Description			
1.07 R Rescuer 1.08 F Follow-L 1.09 V Victim D 1.10 Confirm 1.11 Human 1.12 Remove 1.13 Shelter 1.14 Animal I 1.15 Fire Incident 1.16 Incident		ibei	Symbol	Ivallic				
100 V Victim D 100 Victim D 1	901	-			Description			
Victim D A10 Confirm Human Human Remove A13 Shelter A14 Animal I Hazardc Incident Incident	001							
Confirm Human Human Human Remove A13 Shelter Animal I A15 Fire Incident Incident	001			No. of the same of	Compared to the control of the contr			
Human Remove A13 Shelter A14 Animal I A15 Fire Incident	CVIII)1		Structure No Damage	Low Risk, low probability of further collapse			
Human Remove A13 Shetter Animal I A15 Fire Incident Incident	~~ .			Chactare No Barrage	Low rack, low probability of farther collapse			
Remove A13 Shelter A14 Animal I A15 Fire Incident				Commence of the second second	A CARD A LANGUAGE COMPANIES OF THE CARD AND AND AND AND AND AND AND AND AND AN			
Animal I	&02			Structure Damaged	Medium Risk, structure is moderately damaged			
Fire Incident	0.02			Otractare Damagea	Wediam Nok, Structure is moderately damage.			
Hazardo incident			X					
Incident	&03			Structure Failed	High Risk, may be subject to sudden collapse			
17 Targete	α05			Structure railed	riigii Misk, may be subject to sudden collapse			
			X					
18 Flood/M	001			Ctrusture Destroyed	Complete destruction of structure			
Helicopt Site	&04			Structure Destroyed	Complete destruction of structure			
20 Route B			ceholder to be determined (e.g.					

	-	Search	Туре		7
Targeted Search	Recon (Outline Boarder)	Hasty Rapid	Primary	Secondary Low	Secondary High

Mission specific placeholder to be determined

Mission specific placeholder to be determined

Mission specific placeholder to be determined

Extra 22

Extra 23

Extra 24

823

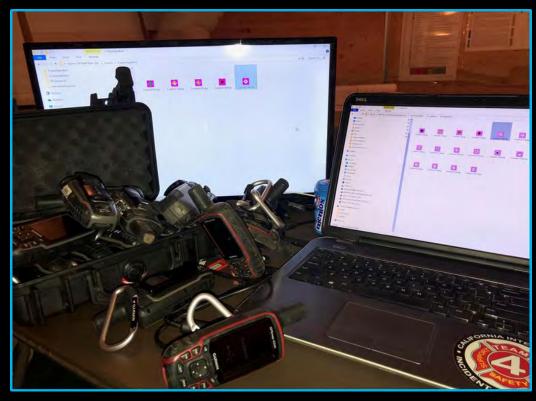
&24

Custom Symbols Quick Reference v8.doc

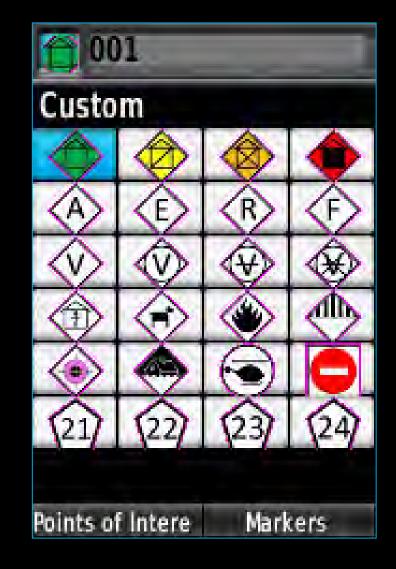








Search Type							
Targeted Search	Recon (Outline Boarder)	Hasty Rapid	Primary	Secondary Low	Secondary High		









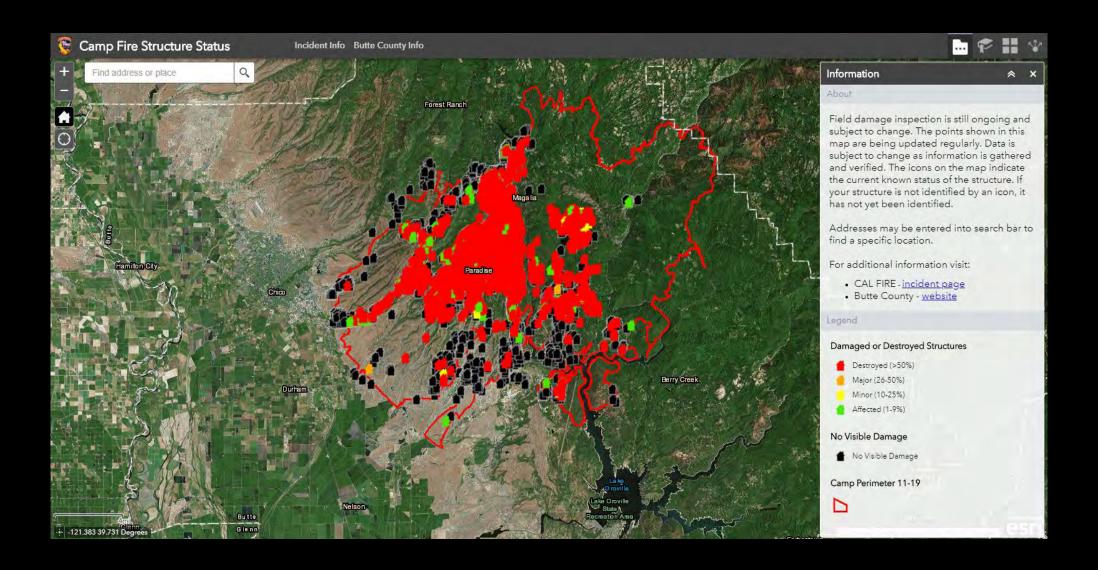








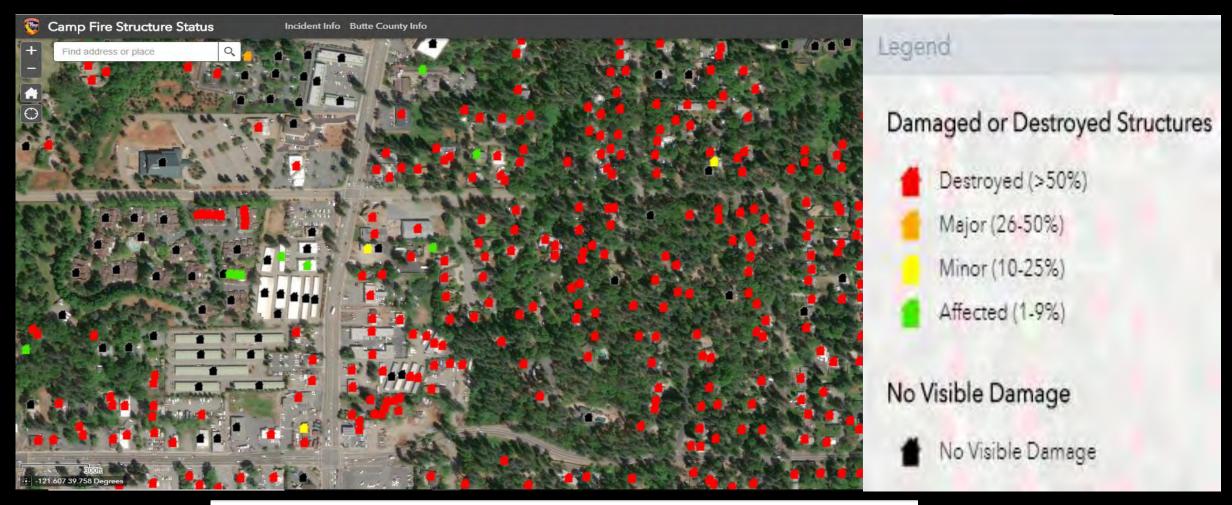
Damage Inspection Data







Damage Inspection Data



13,972 residences, 528 commercial and 4,293 other buildings



DATA Compilation





Primary Search



Structure Damaged, Primary Search



Secondary Search



Structure Damaged, Secondary Search



Structure No Damage, Not Searched



Structure Failed



Structure No Damage, Primary Search



Structure Destroyed, Not Searched



Structure Damaged, Not Searched



Structure Destroyed, Primary Search









FEMA US&R Standard



Used by Fire & Aircraft

Position Format hddd°mm'ss.s"

Map Datum WGS 84

Map Spheroid WGS 84

Used by Sheriff SAR







- Functionally, it is the same system that was created in 1947, Military Grid Reference System (MRGS). It's been used by the military since 1949.
- An Alphanumeric Point reference system that has been overlaid on the Universal Transverse Mercator (UTM) numerical grid.
- Developed in 1999 and adopted as the Federal Standard in 2001
- 2015: Directive 092-5

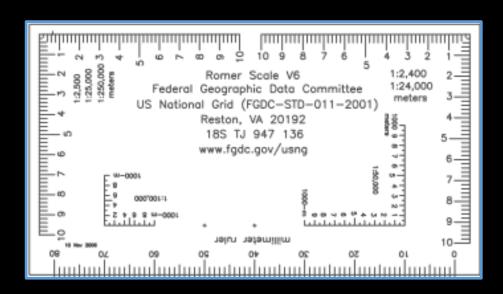


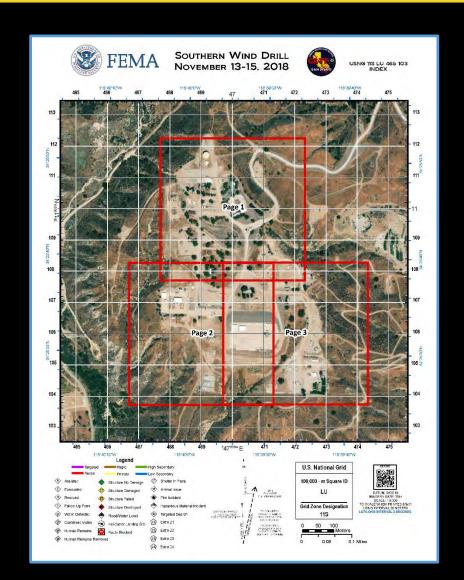




U.S. National Grid

- Map products to Scale:
- 1:2,500
- 1:6,000
- 1:24,000 Index

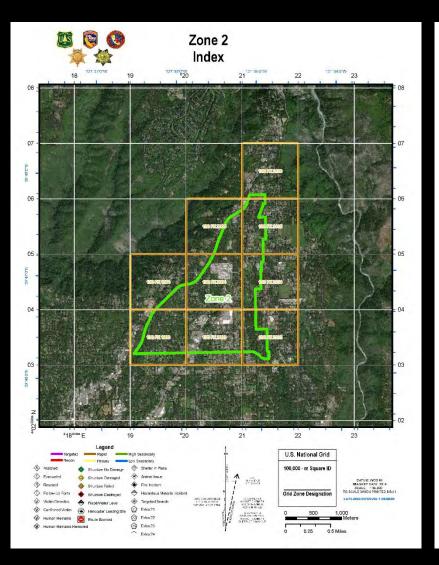


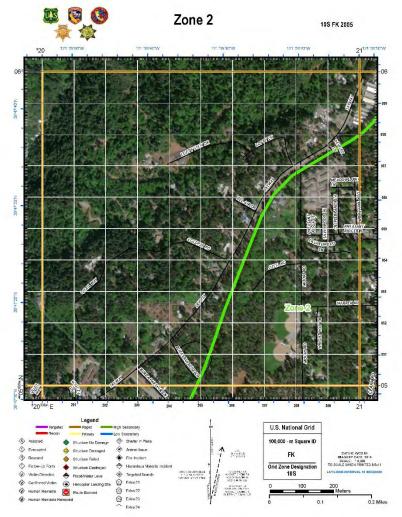


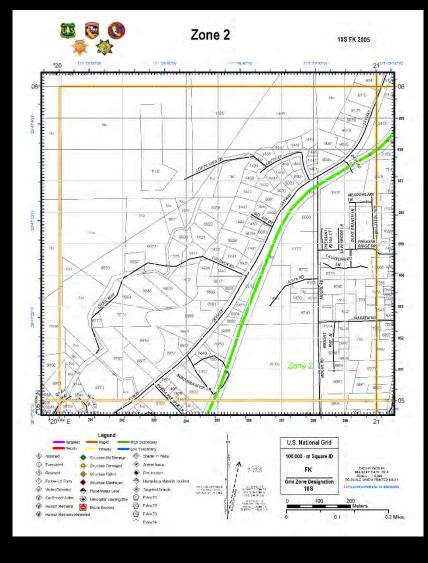


Product: USNG Map Packets











Avenza Maps



- Most used mapping tool next to GPS (fire)
- Export and import data with connectivity
- Map Store
- Cost
- Setup
- Easy to use!



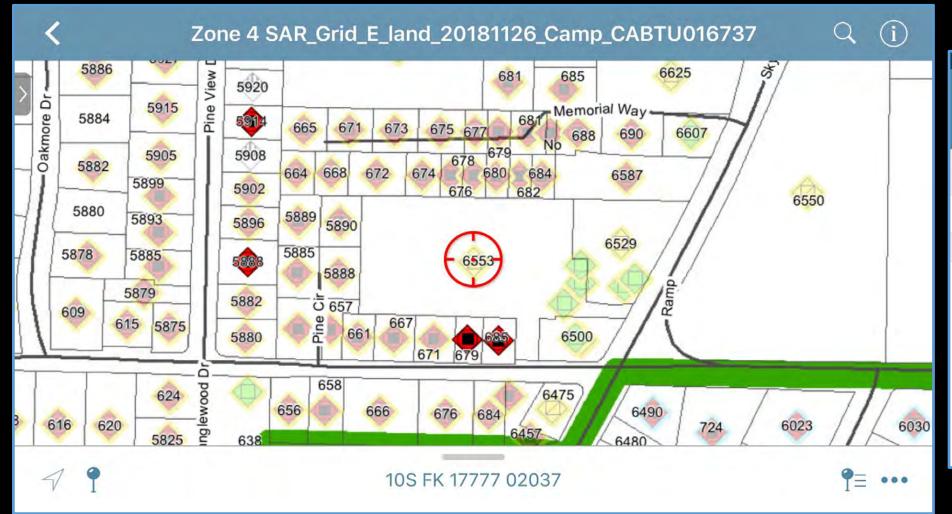












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Task Force Debriefing & Data Processing









Tracking Remains









Tracking Remains













Human Remains Detection (HRD)













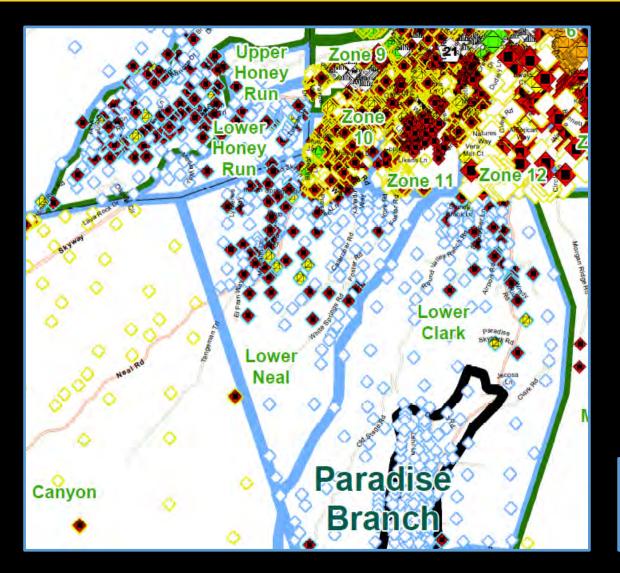
- Data received 11/26/18
- *Victim data only
- Request was for;
- HRD- Canine
- Victim remains
- Animal remains
- Unknown bones

			,		-	9		
1	APN	Owner	Owner_Add	City stZIP	Latitude	Longitude EvaoBranch	×	
2 0	58-330-003-000 F		3621 HOFFMAN RD	OROVILLE CA 95965	39.78784191	-121.5201986 Concow Branch	121" 31' 12.493" W	39" 47" 16.094" N
			122 MONTERAY DR	VACAVILLE CA 95687	39.78339488	-121.5160471 Concow Branch	121" 30' 59.590" W	39" 46' 56.850" N
4 0	38-340-015-000 B	BRANSON MATTHEW & NAPOLI-BRANSON JENNIFER	4279 BANYA TRAIL	OROVILLE CA 95965	39.79044127	-121.4925624 Concow Branch	121" 29' 33.181" W	39" 47" 25.570" N
			13471 GREEN FOREST LN	OROVILLE CA 95965	39.7916908	-121.5000805 Concow Branch	121" 30' 0.628" W	39" 47" 30.014" N
			4220 SCHWYHART LN	OROVILLE CA 95965	39.79070157	-121.495406 Concow Branch	121" 29' 43.391" W	39" 47" 26.160" N
			3823 CAMELOT LN	OROVILLE CA 95965	39.78473251	-121.5133293 Concow Branch	121" 30' 48.045" W	39" 47" 4.823" N
			3819 BROKEN GLASS CIR	OROVILLE CA 95965	39.79389837	-121.5132524 Concow Branch	121" 30' 47.661" W	39" 47" 38.015" N
	17-150-004-000 D		2735 ESKIN MAIDU TRAIL	CHICO CA 95928	39.73937189	-121.6783194 Creek Branch	121" 40' 42.253" W	39" 44' 20.795" N
			13812 W PARK DR	MAGALIA CA 95954	39.81019377	-121.5985037 Magalia Branch	121" 35' 54.534" W	39" 48' 36.659" N
	66-220-020-000 H		13554 ANDOVER DR 13720 W PARK DR	MAGALIA CA 95954 MAGALIA CA 95954	39.80068128 39.80495049	-121.5996171 Magalia Branch -121.6023673 Magalia Branch	121" 35' 58.576" W 121" 36' 8.497" W	39" 48' 2.433" N 39" 48' 17.781" N
			13720 W PARK DR 13793 NIMSHEW RD	MAGALIA CA 95954 MAGALIA CA 95954	39.80495049	-121.6023673 Magalia Branch -121.626744 Magalia Branch	121° 36° 8.497° W	39" 48" 17.781" N 39" 48" 56.525" N
			6778 ISHI DR	MAGALIA CA 95954	39.8055667	-121.5833863 Magalia Branch	121 37 36:307 W	39" 48' 20.042" N
			PO BOX 1253	ROCKLIN CA 95677	39.80255631	-121.5813018 Magalia Branch	121" 34" 54 028" W	39" 48' 7.189" N
			13816 GLOVER LN	MAGALIA CA 95954	39.81155746	-121.5781725 Magalia Branch	121" 34'41.324" W	39" 48' 41.460" N
			688 HENSHAW AVE	CHICO CA 95973	39.72879917	-121.5725826 Paradise Branch	121" 34' 20.532" W	39" 43' 43.639" N
			P O BOX 281	PARADISE CA 95967	39.73060298	-121.5737967 Paradise Branch	121" 34' 25.495" W	39" 43' 50.551" N
			578 ROBERTS RD	PARADISE CA 95969	39.77558148	-121.6284002 Paradise Branch	121" 37' 42.204" W	39" 46' 32.231" N
			750 MEYERS ST	PARADISE CA 95969	39.77359207	-121.6228609 Paradise Branch	121" 37' 22.135" W	39" 46' 24.754" N
		KNAVER JAMES T	8391 MONTNA DR	PARADISE CA 95969	39.782033	-121.6063526 Paradise Branch	121" 36' 22.662" W	39" 46' 55.108" N
			5921 SKYWAY #A	PARADISE CA 95969	39.75675955	-121.622091 Paradise Branch	121" 37" 18.754" W	39" 45' 24.233" N
			PO BOX 3220	PARADISE CA 95967	39.7512678	-121.6283143 Paradise Branch	121" 37' 41.739" W	39" 45' 4.871" N
			645 WILLARD DR APT 361	FOLSOM CA 95630	39.74606113	-121.6188981 Paradise Branch	121" 37" 8.063" W	39" 44' 45.891" N
		MALARKEY JOHN V & DOLORES J REVOCABLE LIVING '		PARADISE CA 95969	39.74240796	-121.6179468 Paradise Branch	121" 37' 4.612" W	39" 44' 32.828" N
			1692 MANGROVE AVE #197	CHICO CA 95926	39.7755457	-121.6083889 Paradise Branch	121" 36' 30.059" W	39" 46' 31.598" N
			6664 MOORE RD	PARADISE CA 95969	39.78621115	-121.5885057 Paradise Branch	121° 35′ 18.514° W	39" 47" 10.027" N
			P 0 BOX 2308 1909 DEAN RD	LAGUNA HILLS CA 92654 PARADISE CA 95969	39.78514127 39.78718518	-121.5838194 Paradise Branch -121.5723009 Paradise Branch	121" 35' 3.535" W 121" 34' 20.575" W	39" 47" 8.158" N 39" 47" 14.757" N
			5845 JAMES DR #B	PARADISE CA 95969 PARADISE CA 95969	39.7851223	-121.5723009 Paradise Branch -121.5792723 Paradise Branch	121" 34' 20.575 W	39" 47" 14.757" N
			25024 RODEO FLAT RD	AUBURN CA 95602	39,77801403	-121.5789796 Paradise Branch	121" 34" 39.878" W	39" 46' 41.345" N
			PO BOX 2212	PARADISE CA 95967	39.77322618	-121.5732818 Paradise Branch	121" 34' 23.108" W	39" 46' 23.702" N
			1378 HERMAN LN	PARADISE CA 95969	39.78120093	-121.5961665 Paradise Branch	121" 35' 46.205" W	39" 46' 52.124" N
			PO BOX 2499	PARADISE CA 95967	39.75934831	-121.6032451 Paradise Branch	121" 36' 11.547" W	39" 45' 33.205" N
35 0	53-190-062-000 L	LEBLANC FAMILY TRUST	5042 COUNTRY CLUB DR	PARADISE CA 95969	39.76054765	-121.5973988 Paradise Branch	121" 35' 50.733" W	39" 45' 37.907" N
	53-200-030-000 V		1449 SLEEPY HOLLOW LANE	PARADISE CA 95969	39.76275161	-121.5917464 Paradise Branch	121" 35' 29.860" W	39" 45' 45.256" N
			3511 DEL PASO RD STE 160 RM 240	SACRAMENTO CA 95834	39.76433941	-121.5721715 Paradise Branch	121" 34' 19.162" W	39" 45' 52.980" N
		HEFFERN RICHARD A & MATILDE L	1865 NORWOOD DR	PARADISE CA 95969	39.76383886	-121.5727076 Paradise Branch	121" 34' 21.642" W	39" 45' 49.850" N
			5783 WACO LN	PARADISE CA 95969	39.7568943	-121.5912784 Paradise Branch	121" 35' 28.649" W	39" 45' 24.642" N
			PO BOX 847 5683 SCOTTY LAKE DR	CARLSBAD CA 92018 PARADISE CA 95969	39.76108601 39.75280215	-121.5699032 Paradise Branch -121.5999448 Paradise Branch	121" 34' 10.255" W 121" 35' 59.919" W	39" 45' 41.793" N 39" 45' 10.126" N
			635 PASEO COMPANEROS	CHICO CA 95928	39.75280215	-121.6089209 Paradise Branch	121" 36' 31.927" W	39" 44" 51.532" N
		CLARK MIYA SEA	12177 S STONERIDGE CIR	PARADISE CA 95969	39.75396257	-121.5954539 Paradise Branch	121" 35' 42.676" W	39" 45" 14.217" N
		AHRS PARADISE LLC	14672 COLTER WAY	MAGALIA CA 95954	39.74595666	-121.596554 Paradise Branch	121" 35' 50.148" W	39" 44' 46.742" N
		BROWN LARRY ALAN & CHERYL M	1387 N-B LANE	PARADISE CA 95969	39.74548743	-121,5954841 Paradise Branch	121" 35' 43.941" W	39" 44' 43.492" N
46 0	54-192-006-000 F	FOLEY DANNY & ATHENA FAMILY TRUST	4680 VIEJA DR	SANTA BARBARA CA 93110	39.7434572	-121.5900397 Paradise Branch	121" 35' 25.248" W	39" 44' 36.809" N
			5326 SAWMILL RD	PARADISE CA 95969	39.74150488	-121.5887197 Paradise Branch	121" 35' 19.063" W	39" 44' 29.637" N
	54-310-003-000 H		PO BOX 1196	PARADISE CA 95967	39.75084215	-121.5972531 Paradise Branch	121" 35' 49.893" W	39" 45' 3.062" N
			5577 HEAVENLY PL	PARADISE CA 95969	39.75113284	-121.599638 Paradise Branch	121" 35' 58.759" W	39" 45' 4.198" N
		DUVALL VIOLET LE ETAL	1560 SUNNY ACRES ROAD	PARADISE CA 95969	39.73758159	-121.5858067 Paradise Branch	121" 35' 10.182" W	39" 44" 15.345" N
			5250 EDGEWOOD LN	PARADISE CA 95969	39.73853605 39.74378345	-121.5836362 Paradise Branch	121" 34' 55.121" W	39" 44" 18.491" N
			P O BOX 1562	PARADISE CA 95967	39.74378345 39.74347593	-121.6058589 Paradise Branch	121" 36' 17.897" W	39" 44" 41.516" N
			1812 DRENDEL CIR 2376 CLEARVIEW DR	PARADISE CA 95969 PARADISE CA 95969	39.74347593	-121.5692931 Paradise Branch -121.5688777 Paradise Branch	121" 34' 8.986" W	39" 44" 36.383" N 39" 44" 22.563" N
			25024 RODEO FLAT RD	AUBURN CA 95602	39.77801403	-121.5666777 Paradise Branch -121.5789796 Paradise Branch	121" 34 7.866" W	39" 46' 41.308" N
56					0	0	121" 30" 43.213" W	39" 47" 21.074" N
	58-330-041-000 V	WOODS JOSEPH L	122 MONTERAY DR	VACAVILLE CA 95687	39.78339488	-121.5160471 Concow Branch	121" 31' 0.000" W	39" 46' 56.824" N
58					0	0	121" 35' 3.840" W	39" 44' 4.396" N
59					0	0	121" 35' 3.840" W	39" 44' 4.396" N
60					0	0	121" 35' 3.840" W	39" 44' 4.396" N
61					0	0	121" 35' 3.840" W	39" 44' 4.396" N
62					0	0	121" 35' 3.840" W	39" 44' 4.396" N
63					0	0	121" 37" 12.109" W	39" 44' 41.277" N
			14672 COLTER WAY	MAGALIA CA 95954	39.74595666	-121.596554 Paradise Branch	121" 35' 50.148" W	39" 44' 46.742" N
			P O BOX 281	PARADISE CA 95967	39.73060298	-121.5737967 Paradise Branch	121" 34' 25.495" W	39" 43' 50.551" N
			5577 HEAVENLY PL	PARADISE CA 95969	39.75113284	-121.599638 Paradise Branch	121" 35' 58.759" W	39" 45' 4.198" N
			5303 SAWMILL RD	PARADISE CA 95969	39.74068269	-121.5894332 Paradise Branch	121" 35' 21.766" W	39" 44' 26.457" N
			5303 SAWMILL RD	PARADISE CA 95969	39.74068269 39.76383886	-121.5894332 Paradise Branch	121" 35' 21.766" W	39" 44' 26.457" N
4 00 U			1865 NORWOOD DR P O BOX 2308	PARADISE CA 95969 LAGUNA HILLS CA 92654	39.76383886	-121.5727076 Paradise Branch -121.5838194 Paradise Branch	121" 34' 21.642" W 121" 35' 3.535" W	39" 45' 49.850" N 39" 47' 8.158" N
70 0			F O BOX 2000	EMUSINA PIEED CAL92004	39.70014127	- LE LUCCO 194 Francois e DIRROR		





Incomplete & Parcel Data





- Primary Search
- Secondary Search

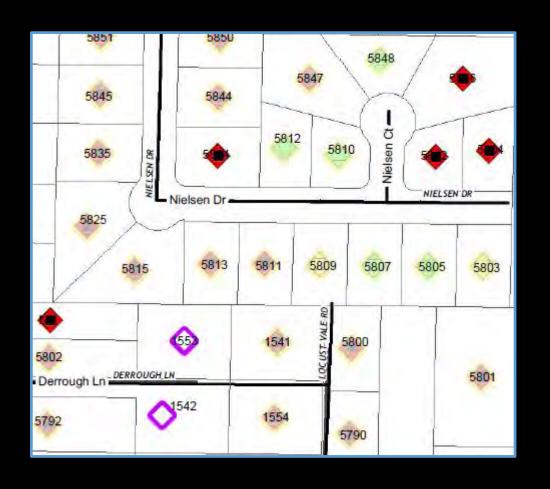








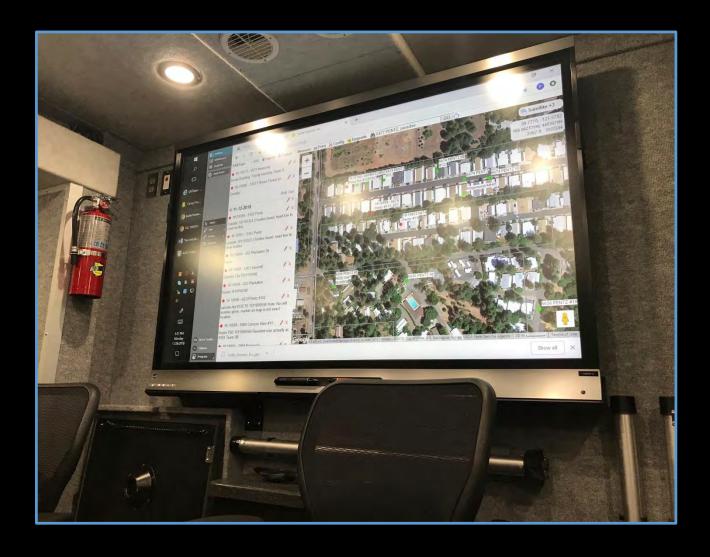
- Incomplete data Identified
- SAR Zone Maps modified to show incomplete data
- Crews to Seek and Confirm
- 11/25/18 was the last day for RTF and US&R Teams to Search





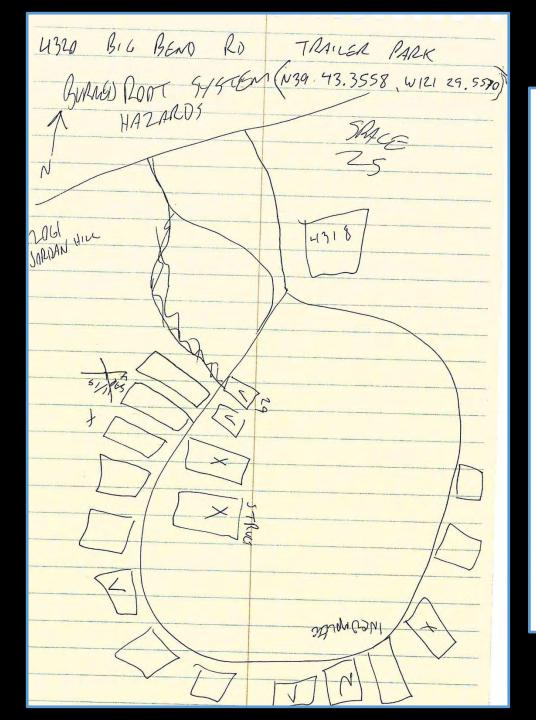










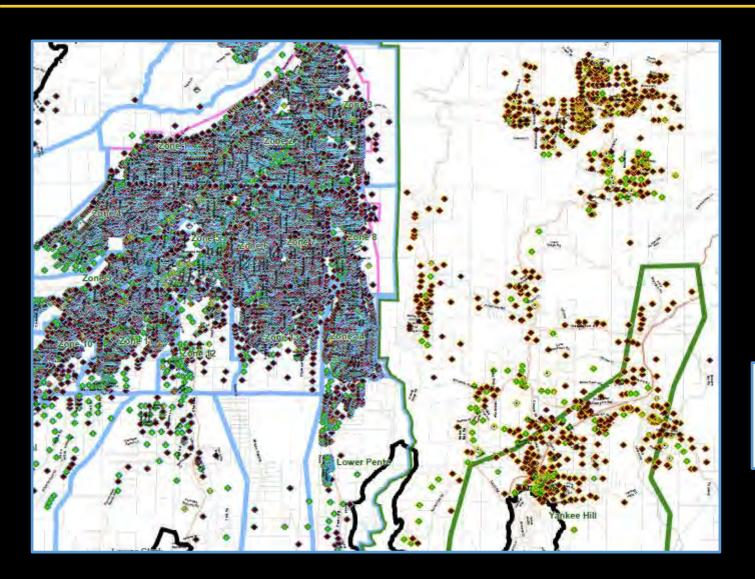


UNIT LOG CONT. (ICS 214)						
1. Incident Name: Camp Law/Rescu	2. Operational Period: Date From: 11/26/18 Date To: 11/27/18 Time From: 0700 Time To: 0700					
6. Activity Log						
TIME	MAJOR EVENTS ON apposite s. de					
12 39' 4500, 45'729" * 121'32' 39.27"	15'729" 12365 Jordan Hill - Paged worked bate 2'39.27" Road blocked - Red Vehile Jubupred at Lawer let. Grow Fields at lower and Upper lots					
	freezins sourch Also reg/search by A3D					
121 33' 15.679"	Also rog by A30					
121 30 47/13,84"	4065 Windermere - House standing - Box locked seasoned previous - outside ?					
148 xt 47' 15,31 121 30' 1,26	13762 ONCOW Rd - Scapded Proviously Also pag by A30					
H9 39 47'19.66"	133.71 CONIOW Rd - Sourched Parionsty					



11/27/18







Structure Destroyed, Search Completed



SAR Searched

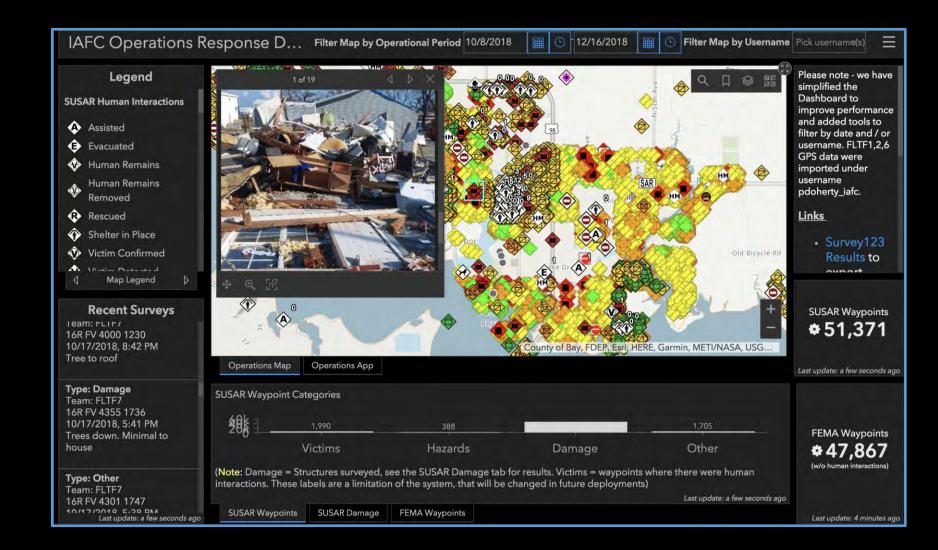


ESRI: Survey123 & Collector





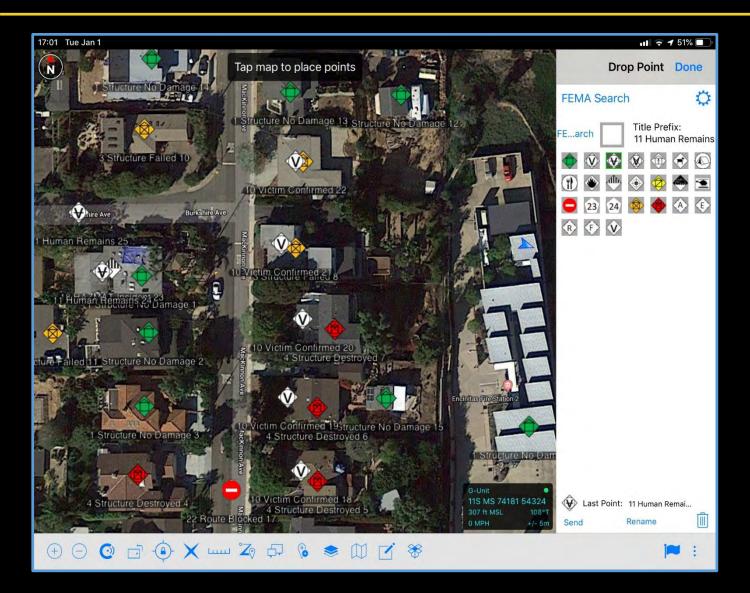






Tactical Assault Kit (TAC)









Lessons Learned & Recommendations



- The Catastrophic Mass Fatality SOP needs to be revisited. *This process does not work for California.*
- Data Collection reciprocity for Fire and LE must exist
- Operations and the IMT Situation Unit must establish search criteria and data collection processes
- Clearly communicate with searchers using standardized terminology
- Define the roles for Urban Search teams and Wilderness SAR teams



Lessons Learned & Recommendations



- The Regional Task Forces must be working with the same symbol sets, if not the same exact equipment as the FEMA task forces
- USNG Map product to replace the IAP Map
- USNG Template for GSTOP
- Search Zones should relate to USNG map pages (100 Meter Grid)
- Training for GISS needs occur prior to disaster incidents.







Questions or Comments

CIIMT-4



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