

**National Interagency Coordination Center  
Incident Management Situation Report  
Friday, November 11, 2016 – 0800 MT  
National Preparedness Level 1**

**National Fire Activity**

Initial attack activity:	Light (135 new fires)
New large incidents:	11
Large fires contained:	5
Uncontained large fires:**	31
Area Command Teams Committed:	0
NIMOs committed:	0
Type 1 IMTs committed:	2
Type 2 IMTs committed:	3

\*\*Uncontained large fires include only fires being managed under a full suppression strategy.  
[Link](#) to Geographic Area daily reports.

**Southern Area (PL 5)**

New fires:	112
New large incidents:	11
Uncontained large fires:	31
Type 1 IMTs committed:	2
Type 2 IMTs committed:	3

\* **Rock Mountain**, Chattahoochee-Oconee NF. Two miles south of Tate City, GA. Hardwood litter and timber. Active fire behavior with flanking, backing and short crown runs. Structures threatened.

**Party Rock**, North Carolina Forest Service. IMT 2 (Brandon). One mile north of Lake Lure, NC. Hardwood litter. Active fire behavior with wind driven runs, uphill runs and isolated torching. Numerous structures threatened. Evacuations, area and trail closures in effect.

**Boteler**, National Forests in North Carolina. IMT 1 (Dueitt). IMT is also managing the Tellico, Ferebee Memorial, Dick's Creek, Knob, and Cliffside fires. Nine miles east of Hayesville, NC. Timber and brush. Active fire behavior with uphill runs, backing and flanking. Numerous structures threatened. Evacuations, area, road and trail closures in effect.

**Tellico**, National Forests in North Carolina. Three miles south of Almond, NC. Hardwood litter, timber and short grass. Active fire behavior with backing and flanking. Numerous structures threatened. Evacuations, road and trail closures in effect.

**Ferebee Memorial**, National Forests in North Carolina. One mile north of Nantahala, NC. Hardwood litter, timber and short grass. Active fire behavior with flanking and backing. Structures threatened. Evacuations and road closures in effect.

**Dick's Creek**, National Forests in North Carolina. Two miles northwest of Sylva, NC. Hardwood litter, short grass and timber. Moderate fire behavior with creeping and smoldering. Structures threatened.

**Knob**, National Forests in North Carolina. Ten miles southwest of Franklin, NC. Closed timber litter and hardwood litter. Moderate fire behavior with creeping and smoldering. Area and trail closures in effect.

**Cliffside**, National Forests in North Carolina. Three miles northwest of Highlands, NC. Hardwood litter, timber and short grass. Minimal fire behavior with smoldering.

\* **Eastern Cherokee Complex**, Eastern Cherokee Agency (2 fires). IMT 1 (Wilkins) Complex includes previously reported Dobson 3 and Washington's Creek fires. Four miles east of Cherokee, NC. Hardwood litter. Active fire behavior with flanking and backing. Structures threatened.

**Old Roughy**, National Forests in North Carolina. IMT 2 (Esperance). IMT is also managing the Maple Springs and Avey Branch fires. Five miles north of Pelham, TN. Hardwood litter, timber and brush. Active fire behavior with uphill runs and short-range spotting. Structures threatened. Road closures in effect.

**Maple Springs**, National Forests in North Carolina. Three miles northwest of Santeetlah Lake, NC. Hardwood litter, timber and brush. Active fire behavior with uphill runs and short-range spotting. Structures threatened. Evacuations, road and trail closures in effect.

**Avey Branch**, National Forests in North Carolina. One mile northwest of Santeetlah Lake, NC. Hardwood litter, timber and brush. No new information.

**Raven Rock**, George Washington & Jefferson NF. Started on private land one mile east of Jenkins, KY. Hardwood litter and timber. Minimal fire behavior with smoldering and creeping. Numerous structures threatened. Trail closures in effect.

**Rough Ridge**, Chattahoochee-Oconee NF. IMT 2 (Bentley). Thirteen miles northwest of Blue Ridge, GA. Hardwood litter, timber and brush. Moderate fire behavior with wind driven runs, backing and flanking. Structures threatened. Area and trail closures in effect.

\* **Gatliff**, Kentucky DOF. Five miles south of Gatliff, KY. Hardwood litter and timber. Active fire behavior.

**Flippers Bend**, Tennessee DOF. Three miles southwest of Soddy Daisy, TN. Timber and hardwood litter. No new information.

**Big Rock #3**, Tennessee DOF. Started on private land nine miles east of Crossville TN. Timber and hardwood litter. No new information. Last report unless new information is received.

**Mountain Creek**, Ozark & St. Francis NF. Seventeen miles north of Ozark, AR. Timber. Minimal fire behavior with creeping and smoldering. Trail closures in effect.

**Steel Trap**, Daniel Boone NF. One mile south of Tuttle, KY. Hardwood litter. Minimal fire behavior. No new information.

\* **Lookout Mountain**, Georgia Forestry Commission. Fifteen miles southwest of Trenton, GA. Hardwood litter and timber. Moderate fire behavior with flanking and backing. Structures threatened.

\* **Chestnut Knob**, North Carolina Forest Service. Three miles south of Enola, NC. Hardwood litter. Moderate fire behavior with creeping. Structures threatened.

**Ellen Lane**, Kentucky DOF. Two miles south of Gray, KY. Hardwood litter and timber. Active fire behavior.

**Kentucky Ridge**, Kentucky DOF. One mile northwest of Chenoa, KY. Hardwood litter and timber. Active fire behavior.

\* **Laurel Run Park Road**, Tennessee DOF. Started on private land three miles southeast of Church Hill, TN. Timber. Minimal fire behavior.

**May Branch**, National Forests in North Carolina. Seven miles southeast of Andrews, NC. Hardwood litter. No new information. Last report unless new information is received.

**SR116 - Gilmore Trail**, Tennessee DOF. Started on private land two miles south of Fork Mountain, TN. Timber. No new information.

\* **Garrett**, Kentucky DOF. Three miles north of West Garrett, KY. Hardwood litter and timber. Active fire behavior.

**Jones Gap**, National Forests in North Carolina. Three miles northwest of Highlands, NC. Closed timber litter, hardwood litter and short grass. No new information. Last report unless new information is received.

**Big Four Road**, Tennessee DOF. Started on private land three miles southwest of Newcomb, TN. Timber. No new information. Last report unless new information is received.

**Moses Creek**, National Forests in North Carolina. Four miles northeast of Cullowhee, NC. Hardwood litter. No new information. Last report unless new information is received.

**Charles Branch Lane**, Tennessee DOF. Four miles southeast of Fork Mountain, TN. Timber. No new information.

**Cemetery**, Daniel Boone NF. Two miles northwest of Brightshage, KY. Hardwood litter. No new information. Last report unless new information is received.

\* **Pinnacle Mountain**, South Carolina Forestry Commission. Three miles southeast of Rocky Bottom, SC. Hardwood Litter and Timber. Active fire behavior with torching. Area and trail closures in effect.

Incident Name	Unit	Size		%	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	\$\$ CTD	Origin Own
		Acres	Chge				Total	Chge	Crw	Eng	Heli			
* Rock Mountain	GA-CHF	300	---	2	Ctn	12/01	40	---	0	4	0	0	100K	FS
Party Rock	NC-NCS	977	542	15	Comp	12/01	165	59	8	3	1	0	106K	ST
Boteler	NC-NCF	4,767	1,263	12	Ctn	11/20	538	40	10	38	8	0	3.2M	FS
Tellico	NC-NCF	6,839	1,679	18	Ctn	11/20	137	43	4	15	2	0	597K	FS
Ferebee Memorial	NC-NCF	2,061	456	28	Ctn	11/30	66	31	1	9	0	0	144K	FS
Dick's Creek	NC-NCF	728	0	85	Ctn	11/14	59	-23	2	4	0	0	621K	FS
Knob	NC-NCF	1,130	0	80	Ctn	UNK	3	-25	0	1	0	0	102K	FS
Cliffside	NC-NCF	101	0	98	Ctn	UNK	29	0	1	2	0	0	184K	FS
* Eastern Cherokee Complex	NC-ECA	486	---	40	Ctn	UNK	130	---	4	6	0	0	100K	BIA
Old Roughy	NC-NCF	364	64	1	Ctn	12/05	0	-8	0	0	0	0	13K	FS
Maple Springs	NC-NCF	5,083	1,169	10	Ctn	12/05	192	51	4	10	0	0	437K	FS
Avey Branch	NC-NCF	1,200	---	17	Ctn	11/25	0	---	0	0	0	0	800K	FS
Raven Rock	VA-VAF	2,402	0	35	Ctn	11/18	0	0	0	0	0	2	500K	PRI
Rough Ridge	GA-CHF	10,336	3,129	20	Comp	11/30	227	-69	5	8	2	0	3.2M	FS
* Gatliff	KY-KYS	1,223	---	40	Ctn	11/19	13	---	1	1	0	0	3K	ST
Flippers Bend	TN-TNS	800	---	50	Ctn	11/15	32	---	0	3	2	0	150K	ST
Big Rock #3	TN-TNS	470	---	96	Ctn	UNK	10	---	0	0	0	0	1K	PRI
Mountain Creek	AR-OZF	441	0	50	Ctn	11/30	5	0	0	1	0	0	30K	FS
Steel Trap	KY-DBF	358	---	75	Ctn	11/12	43	---	1	1	0	0	90K	FS

Incident Name	Unit	Size		%	Ctn/ Comp	Est	Personnel		Resources			Strc Lost	\$\$ CTD	Origin Own
		Acres	Chge				Total	Chge	Crw	Eng	Heli			
* Lookout Mountain	GA-GAS	350	---	25	Ctn	11/30	21	---	0	6	1	0	25K	ST
* Chestnut Knob	NC-NCS	300	---	30	Ctn	11/23	26	---	2	2	0	0	5K	ST
Ellen Lane	KY-KYS	300	0	50	Ctn	11/12	10	0	1	0	0	0	4K	ST
Kentucky Ridge	KY-KYS	300	0	60	Ctn	11/14	19	2	2	2	0	0	9K	ST
* Laurel Run Park Road	TN-TNS	200	---	90	Ctn	12/07	20	---	1	3	0	0	1K	PRI
May Branch	NC-NCF	175	---	78	Ctn	UNK	8	---	0	1	0	0	55K	FS
SR116 - Gilmore Trail	TN-TNS	150	---	90	Ctn	UNK	0	---	0	0	0	0	1K	PRI
* Garrett	KY-KYS	122	---	80	Ctn	11/12	11	---	1	1	0	0	1K	ST
Jones Gap	NC-NCF	115	---	80	Ctn	UNK	12	---	1	0	0	0	55K	FS
Big Four Road	TN-TNS	115	---	99	Ctn	UNK	0	---	0	0	0	0	2K	PRI
Moses Creek	NC-NCF	103	---	80	Ctn	UNK	34	---	1	1	2	0	24K	FS
Charles Branch Lane	TN-TNS	100	---	88	Ctn	UNK	0	---	0	0	0	0	1K	PRI
Cemetery	KY-DBF	100	---	75	Ctn	UNK	29	---	1	0	1	0	90K	FS
* Pinnacle Mountain	SC-SCS	100	---	0	Ctn	11/19	58	---	2	0	2	0	25K	ST
* Providence	GA-GAS	228	---	100	Ctn	---	11	---	0	2	0	0	55K	ST
Duty	VA-VAS	190	0	100	Ctn	---	27	0	1	2	0	0	2K	PRI
* Abner Br	KY-KYS	185	---	100	Ctn	---	25	---	2	2	0	0	1K	ST
Shoulderblade 2	KY-KYS	164	0	100	Ctn	---	7	0	1	0	0	0	6K	ST
* CR93	AL-ALS	122	---	100	Ctn	---	0	---	0	0	0	0	2K	PRI

ALS – Alabama Forestry Commission

Active Incident Resource Summary						
GACC	Fires	Cumulative Acres	Crews	Engines	Helicopters	Total Personnel
AICC	0	0	0	0	0	0
NWCC	0	0	0	0	0	0
ONCC	0	0	0	0	0	0
OSCC	0	0	0	0	0	0
NRCC	1	687	0	0	0	1
GBCC	0	0	0	0	0	0
SWCC	0	0	0	0	0	0
RMCC	2	18,740	2	4	1	107
EACC	0	0	0	0	0	0
SACC	67	77,507.5	136	184	25	3,067
<b>Total</b>	<b>70</b>	<b>96,934.5</b>	<b>138</b>	<b>188</b>	<b>26</b>	<b>3,175</b>

**Fires and Acres Yesterday (by Protection):**

Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaska Area	FIRES	0	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
Northwest Area	FIRES	0	0	0	0	0	2	2
	ACRES	0	0	0	0	0	0	0
Northern California Area	FIRES	0	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
Southern California Area	FIRES	0	0	0	0	10	3	13
	ACRES	0	0	0	0	4	1	5
Northern Rockies Area	FIRES	0	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
Great Basin Area	FIRES	0	1	0	0	1	0	2
	ACRES	0	0	0	0	0	0	0
Southwest Area	FIRES	0	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
Rocky Mountain Area	FIRES	0	0	0	0	1	1	2
	ACRES	0	0	0	0	0	0	0
Eastern Area	FIRES	0	0	0	1	2	1	4
	ACRES	0	0	0	1	29	0	30
Southern Area	FIRES	0	0	0	0	107	5	112
	ACRES	0	0	0	0	941	15	956
<b>TOTAL FIRES:</b>		<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>121</b>	<b>12</b>	<b>135</b>
<b>TOTAL ACRES:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>974</b>	<b>16</b>	<b>991</b>

**Fires and Acres Year-to-Date (by Protection):**

<b>Area</b>		<b>BIA</b>	<b>BLM</b>	<b>FWS</b>	<b>NPS</b>	<b>ST/OT</b>	<b>USFS</b>	<b>TOTAL</b>
Alaska Area	FIRES	0	183	0	0	357	19	<b>559</b>
	ACRES	0	390,706	0	0	104,837	3	<b>495,546</b>
Northwest Area	FIRES	299	251	30	26	1,266	672	<b>2,544</b>
	ACRES	41,132	324,979	2,778	5,042	61,534	48,381	<b>483,846</b>
Northern California Area	FIRES	111	9	1	26	2,745	431	<b>3,323</b>
	ACRES	145	227	1	5	48,989	46,109	<b>95,476</b>
Southern California Area	FIRES	13	91	11	54	3,192	1,169	<b>4,530</b>
	ACRES	5,971	30,037	405	1,131	124,290	303,292	<b>465,126</b>
Northern Rockies Area	FIRES	798	99	11	27	1,260	472	<b>2,667</b>
	ACRES	14,721	5,851	2,013	61,914	42,192	61,511	<b>188,202</b>
Great Basin Area	FIRES	35	747	7	58	654	545	<b>2,046</b>
	ACRES	12,439	303,201	3	24,239	139,275	281,055	<b>760,212</b>
Southwest Area	FIRES	871	246	11	65	910	1,168	<b>3,271</b>
	ACRES	80,802	66,534	6,976	32,187	131,857	259,313	<b>577,669</b>
Rocky Mountain Area	FIRES	845	448	14	24	1,317	738	<b>3,386</b>
	ACRES	23,251	35,076	615	2,140	515,870	99,043	<b>675,995</b>
Eastern Area	FIRES	504	0	30	52	8,556	405	<b>9,547</b>
	ACRES	2,189	0	1,113	965	57,774	7,226	<b>69,267</b>
Southern Area	FIRES	397	1	59	74	24,089	624	<b>25,244</b>
	ACRES	133,366	1	1,555	28,941	1,038,872	73,375	<b>1,276,110</b>
<b>TOTAL FIRES:</b>		<b>3,873</b>	<b>2,075</b>	<b>174</b>	<b>406</b>	<b>44,346</b>	<b>6,243</b>	<b>57,117</b>
<b>TOTAL ACRES:</b>		<b>314,016</b>	<b>1,156,612</b>	<b>15,459</b>	<b>156,564</b>	<b>2,265,490</b>	<b>1,179,308</b>	<b>5,087,449</b>

<b>Ten Year Average Fires (2006 – 2015 as of today)</b>	<b>64,388</b>
<b>Ten Year Average Acres (2006 – 2015 as of today)</b>	<b>6,807,801</b>

**Prescribed Fires and Acres Yesterday (by Ownership):**

Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL
Alaska Area	FIRES	0	0	0	0	0	0	0
	ACRES	0	0	0	0	0	0	0
Northwest Area	FIRES	0	5	0	0	0	0	5
	ACRES	0	127	0	0	0	51	178
Northern California Area	FIRES	0	0	0	0	0	0	0
	ACRES	0	0	0	2	0	0	2
Southern California Area	FIRES	0	0	0	1	0	1	2
	ACRES	0	0	0	25	0	25	50
Northern Rockies Area	FIRES	0	0	0	0	0	2	2
	ACRES	0	0	0	0	0	18	18
Great Basin Area	FIRES	0	0	0	0	1	0	1
	ACRES	0	0	0	0	275	73	348
Southwest Area	FIRES	6	0	0	0	0	1	7
	ACRES	11,942	0	0	0	0	2,406	14,348
Rocky Mountain Area	FIRES	0	1	0	0	0	0	1
	ACRES	0	25	0	0	0	0	25
Eastern Area	FIRES	0	0	1	1	4	1	7
	ACRES	0	0	10	95	422	178	705
Southern Area	FIRES	0	0	0	0	28	0	28
	ACRES	0	0	0	0	645	0	645
<b>TOTAL FIRES:</b>		<b>6</b>	<b>6</b>	<b>1</b>	<b>2</b>	<b>33</b>	<b>5</b>	<b>53</b>
<b>TOTAL ACRES:</b>		<b>11,942</b>	<b>152</b>	<b>10</b>	<b>122</b>	<b>1,342</b>	<b>2,751</b>	<b>16,319</b>

**Prescribed Fires and Acres Year-to-Date (by Ownership):**

<b>Area</b>		<b>BIA</b>	<b>BLM</b>	<b>FWS</b>	<b>NPS</b>	<b>ST/OT</b>	<b>USFS</b>	<b>TOTAL</b>
Alaska Area	FIRES	0	0	2	0	2	1	5
	ACRES	0	0	18	0	33,218	38	33,274
Northwest Area	FIRES	14	91	20	2	9	394	530
	ACRES	9,554	6,963	1,159	29	1,128	56,302	75,135
Northern California Area	FIRES	7	2	11	17	0	219	256
	ACRES	102	219	3,796	2,693	0	20,489	27,299
Southern California Area	FIRES	0	5	9	5	0	148	167
	ACRES	0	71	1,075	1,138	0	4,962	7,246
Northern Rockies Area	FIRES	14	32	58	13	88	449	654
	ACRES	5,438	6,243	14,247	956	3,635	26,820	57,339
Great Basin Area	FIRES	4	30	9	15	43	105	206
	ACRES	150	8,202	5,422	2,575	1,909	36,754	55,012
Southwest Area	FIRES	20	31	3	9	5	165	233
	ACRES	14,698	26,931	92	2,333	3,365	92,377	139,796
Rocky Mountain Area	FIRES	37	37	68	34	71	92	339
	ACRES	9,213	5,305	27,065	13,864	4,602	42,686	102,735
Eastern Area	FIRES	87	0	367	35	1,092	254	1,835
	ACRES	45,614	0	52,240	6,441	85,842	59,081	249,218
Southern Area	FIRES	24	0	197	68	12,331	948	13,568
	ACRES	4,767	0	162,624	51,754	717,702	849,885	1,786,732
<b>TOTAL FIRES:</b>		<b>207</b>	<b>228</b>	<b>744</b>	<b>198</b>	<b>13,641</b>	<b>2,775</b>	<b>17,793</b>
<b>TOTAL ACRES:</b>		<b>89,536</b>	<b>53,934</b>	<b>267,738</b>	<b>81,783</b>	<b>851,401</b>	<b>1,189,394</b>	<b>2,533,786</b>

\*\*\* Changes in some agency YTD acres reflect more accurate mapping or reporting adjustments. \*\*\*

Additional wildfire information is available through the Geographic Areas at <http://gacc.nifc.gov/>

**Predictive Services Discussion:** Broad high pressure aloft remains across the U.S. A cold front will push south through the Plains and the East, bringing scattered snow to the New England area. High pressure at the surface over the Midwest will keep conditions dry and mild. A cold front approaching the West Coast will bring rain to coastal Washington, Oregon and northern California. A few showers will continue in the southern Rockies and West Texas. Temperatures will cool across the northern and central Plains, the Midwest and New England. Above normal conditions will continue in the Gulf and Mid-Atlantic states. The West will be mild to the north and the interior, hot in the south. Breezy conditions will continue in southern California.

<http://www.predictiveservices.nifc.gov/outlooks/outlooks.htm>





## Veteran's Day

**Historical Summary:** On the 11th hour of the 11th day of the 11th month of 1918, an armistice, or temporary cessation of hostilities, was declared between the Allied nations and Germany in the First World War, then known as "The Great War." Commemorated as Armistice Day beginning the following year, November 11th became a legal federal holiday in the United States in 1938. In the aftermath of World War II and the Korean War, Armistice Day became Veteran's Day, a holiday dedicated to American veterans of all wars.

Today, celebrating this holiday brings to mind the many connections the military has with the mission of firefighting for the land management agencies. This offers an opportunity to learn more about our military coworkers and our interesting and intertwined past. The following is a look at just a few.

The use of military resources in wildland fire suppression begins August 20, **1886** as the Army leads troops into Yellowstone National Park where forest fires had raged for months. The men are ordered to battle the flames, beginning the federal government's role in forest fire control. It is the Army firefighters and their successors at Yellowstone that develop firefighting strategies and tactics that are still used today. The troops in Yellowstone National Park become the first paid wildland firefighters.

**1939** - The newly organized Alaska Fire Control Service and the military suppress fires in Alaska during World War II. Smoke from these fires was a hindrance to flight and considered a threat to national security.

**1940** – US Army Major William H. Lee visits the USFS Region 1 (Northern Region) smokejumper training camp at Seeley Lake, Montana. He later incorporates Forest Service techniques in the establishment of the U.S. Army Airborne. Major Lee commands the 101<sup>st</sup> Airborne during World War II and becomes known as "Father of the Airborne Troops."



*Fire suppression efforts are aided by six Army and two Marine battalions, MAFFS and 57 helicopters.*

**1945** - Continued expansion of the smokejumper program and returning war veterans increase the number of jumpers from 110 to 220. During the severe fire season of 1945, smokejumpers prove to be invaluable firefighters. Members of the [555<sup>th</sup> Parachute Infantry Battalion](#), the nation's first African-American parachute infantry battalion, are trained at timber jumping and firefighting to combat Japanese incendiary balloons. Though the balloons did not materialize, the 300 paratroopers are used as suppression crews on large fires throughout the west. The 555th respond to 36 fire calls and make a total of 1200 individual jumps. In addition to the 555<sup>th</sup>, 14 military pararescue jumpers are also trained. By **1946**, USFS Region 1 has 146 jumpers, 84% of them war veterans. The same year, Region 6 (Pacific NW Region) sees smokejumping's first fatality in

the line of duty, Private First Class Brown, a medic and member of the 555<sup>th</sup>.

**1956** – The XH-40, the "granddaddy" of the H-1 helicopters, makes its first flight. The [Bell UH-1 "Huey"](#) later becomes the representative helicopter of the Vietnam era and the most successful military aircraft in aviation history. The influx of combat-trained pilots post-war naturally fit in well with the challenges of flying fire suppression missions. To get firefighters on the ground quick, fire managers utilize the helicopter for rappel; adopting and adapting the military technique.

The Modular Airborne Firefighting System (MAFFS) program military supports firefighting efforts by providing Air National Guard and Air Force Reserve units flying in military C-130 aircraft equipped as airtankers to support wildland fire suppression activities. Aircrews get annual training and are certified by NIFC. It is a NMAC responsibility to ensure that all civilian resources are committed before placing orders for military resources. Once that decision is made and mobilization begins, Incident Management Teams must be ready to work with these resources.

**Discussion Question:** *There is a very good chance that we will all work with the military on a wildland fire or all-hazard incident sometime in our career. Identify several hurdles we can expect to encounter that could affect the safety of the operation:*

- 1) for aviation missions
- 2) for ground operations

