

Fire & Aviation Management

2015 IR OPS SUMMARY



PROVIDING SAFE, YEAR ROUND, ON DEMAND, IR RECONNAISSANCE

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INFRARED OPERATIONS

April to October



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FIRST FIRE FLOWN: King Fire April 3rd



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LAST FIRE FLOWN: Moose Ridge Fire October 23rd



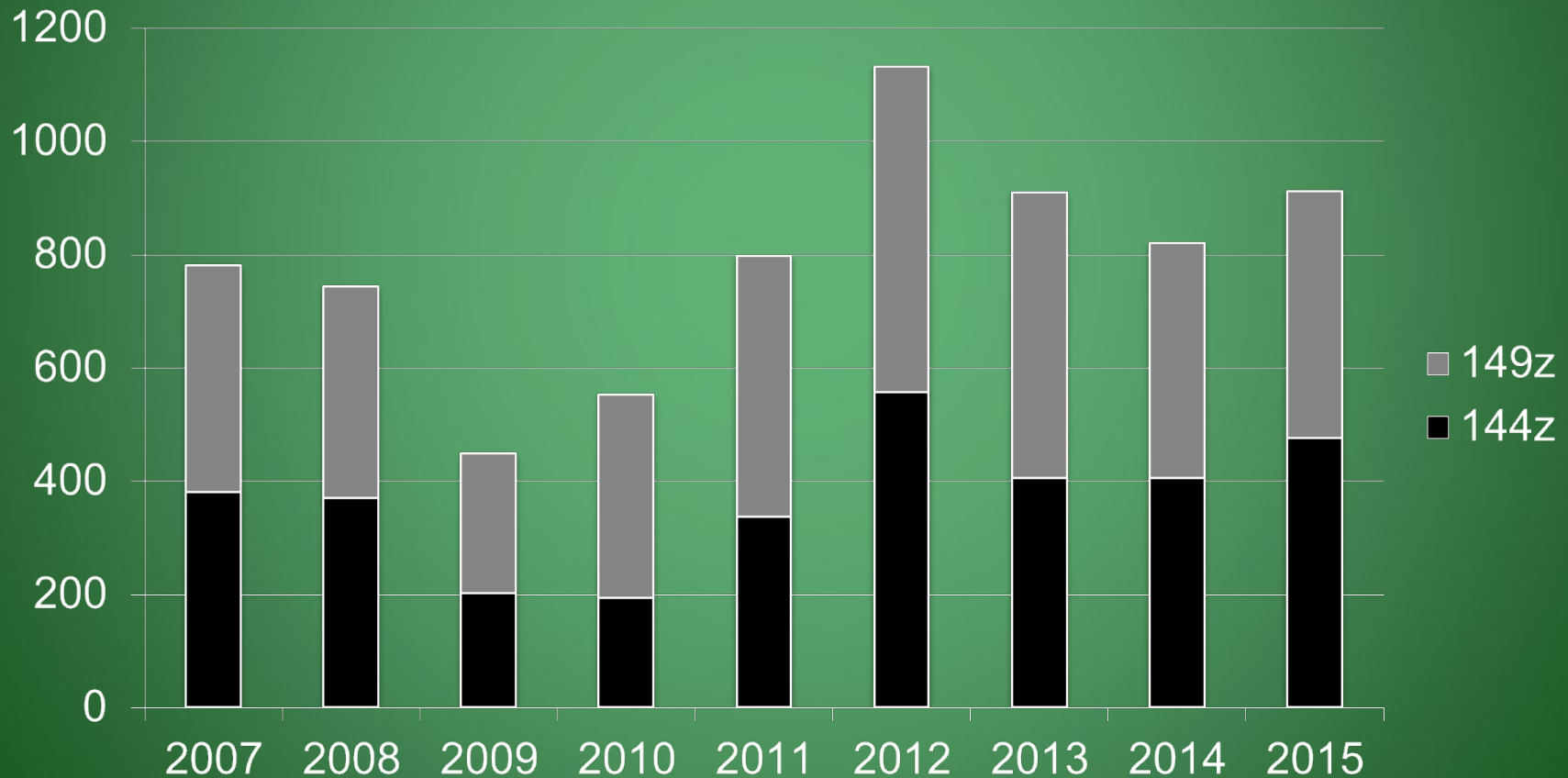
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2015 IR TRIVIA

- States Flown in 1 Night: 5
 - Most Fires Flown in 1 Night 44z & 49z : 42
 - Most Fires Flown in 1 Night 44z : 33
 - Largest Fire: Chelan/Wolverine/No.Star 665,000 ac.
 - Longest Night Mission: 7.9 hours; 3 Fuel Stops
 - Most Southern IR Operation: Southern Arizona
 - States Flown During This Fire Season:
 - AZ, CA, CO, ID, MT, NM, OR, UT, WA, WY, NV, SD
 - 144Z and 149Z Flight Hours – **915** IR hrs to date
-

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Total Flight Hours 2007 - 2015



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Aircraft 44z Maintenance

- Phase maintenance time frame 150 hours
 - 0 hours before 30 hours after
 - 3 to 5 days for each phase longer if damage found

 - 44z AMS removed Phoenix installed 06/04
 - 44z out service flat tire 07/03
 - 44z phase I & II 07/19 – 07/22
 - 44z Gyro fail 09/10 – 09/11
 - 44z phase III & IV 09/28 – 09/29
-

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Aircraft 49z Maintenance

- Phase maintenance time frame 200 hours
 - 20 hours before 20 hours after
 - 3 to 5 days for each phase longer if damage found

 - 49z Right engine install 06/03 – 06/10
 - 49z sump/radar/aircell 07/01 – 07/02
 - 49z phase IV 08/03 – 08/09
 - 49z inverter switch IR equipment 08/24
 - 49z phase I & II 09/17 – 09/19
-

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Aircraft Updates

Cabin WIFI added to each aircraft

- team viewer (automation)
- aircraft SA (wx, runways, etc.)

Night monoculars added to each aircraft

AMS install and continued development

44Z RVSM certified again (45000')

Flew pot test and saw 9" fire at 19,000'

2016 projected aircraft rates:

44Z \$1850

49Z \$1250

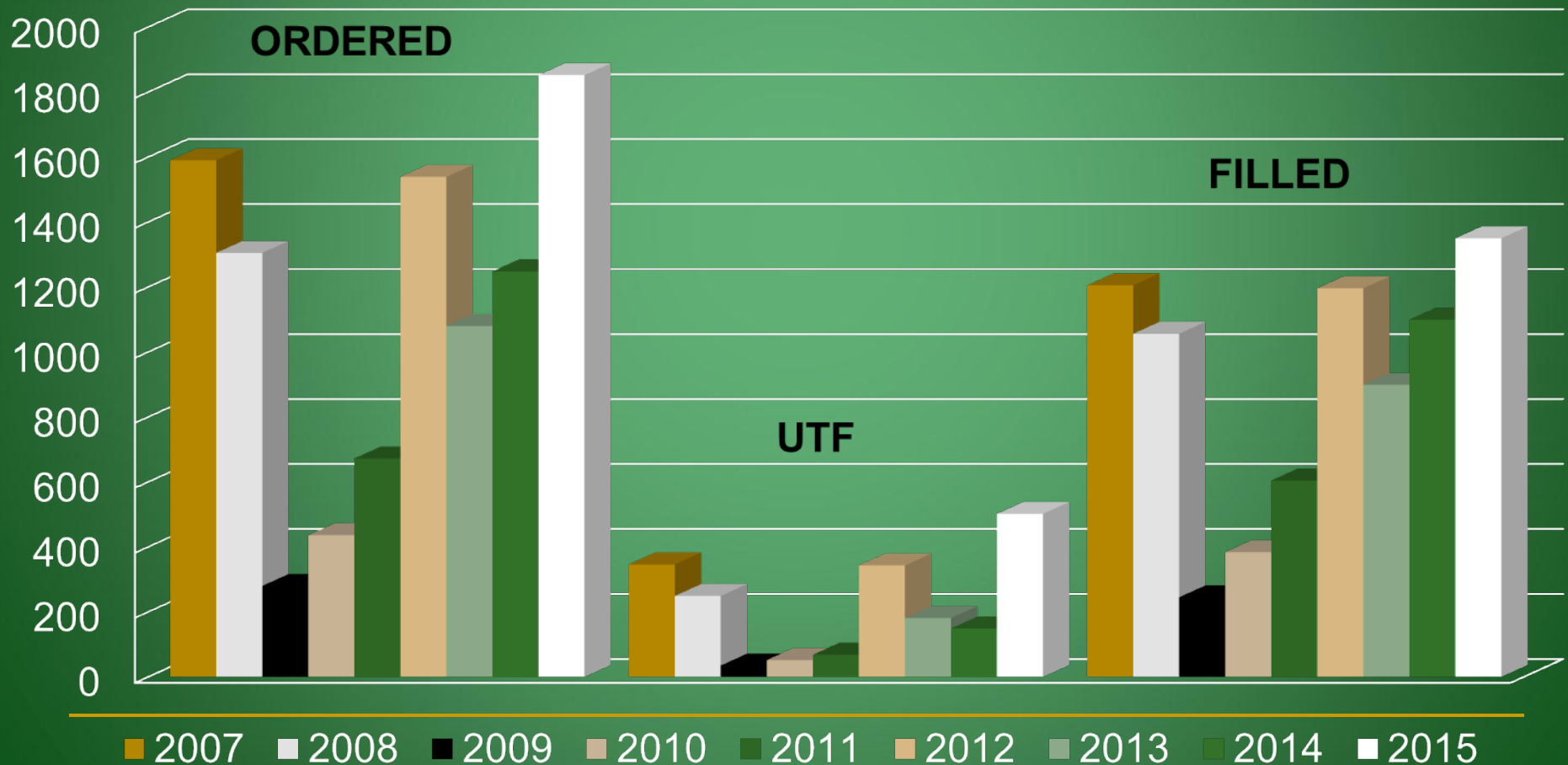
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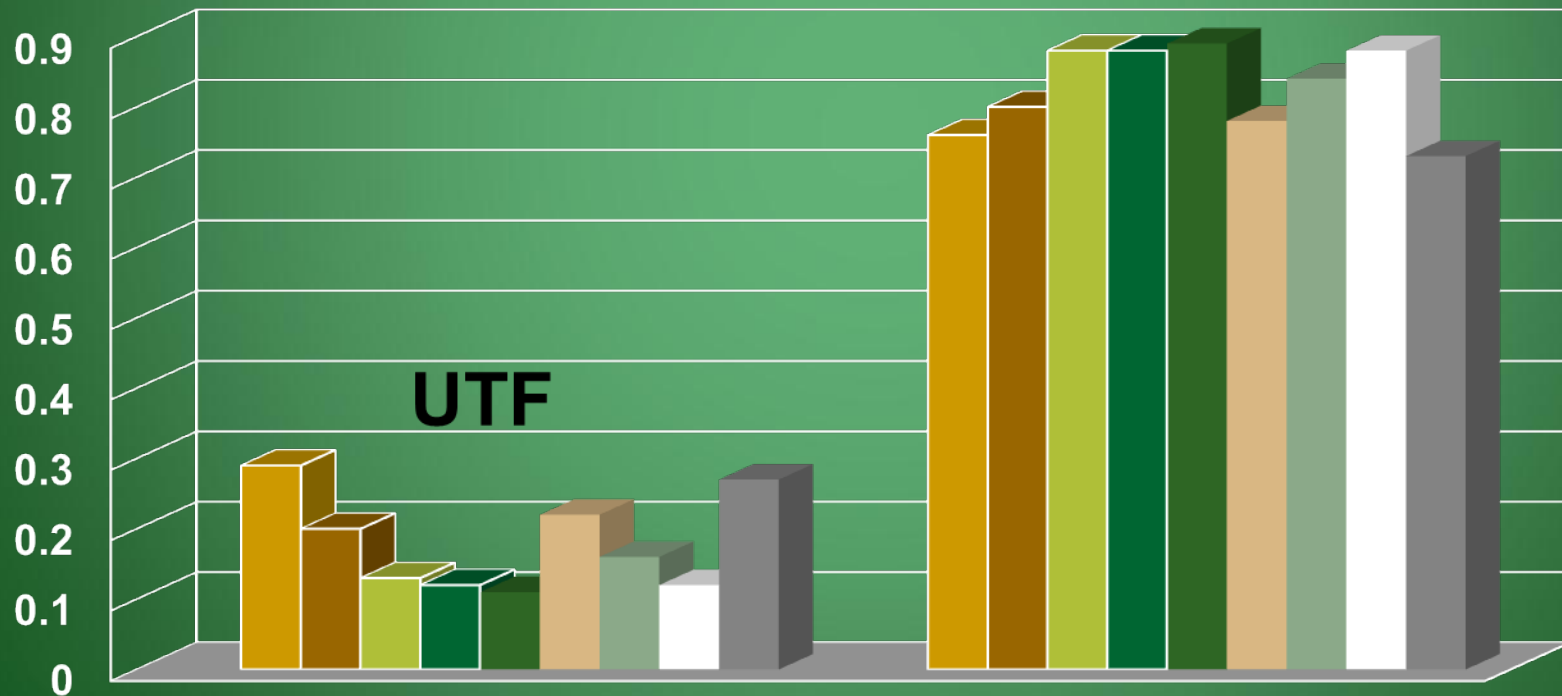
IR REQUESTS LAST 9 YRS



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IR REQUESTS (last 9 years)

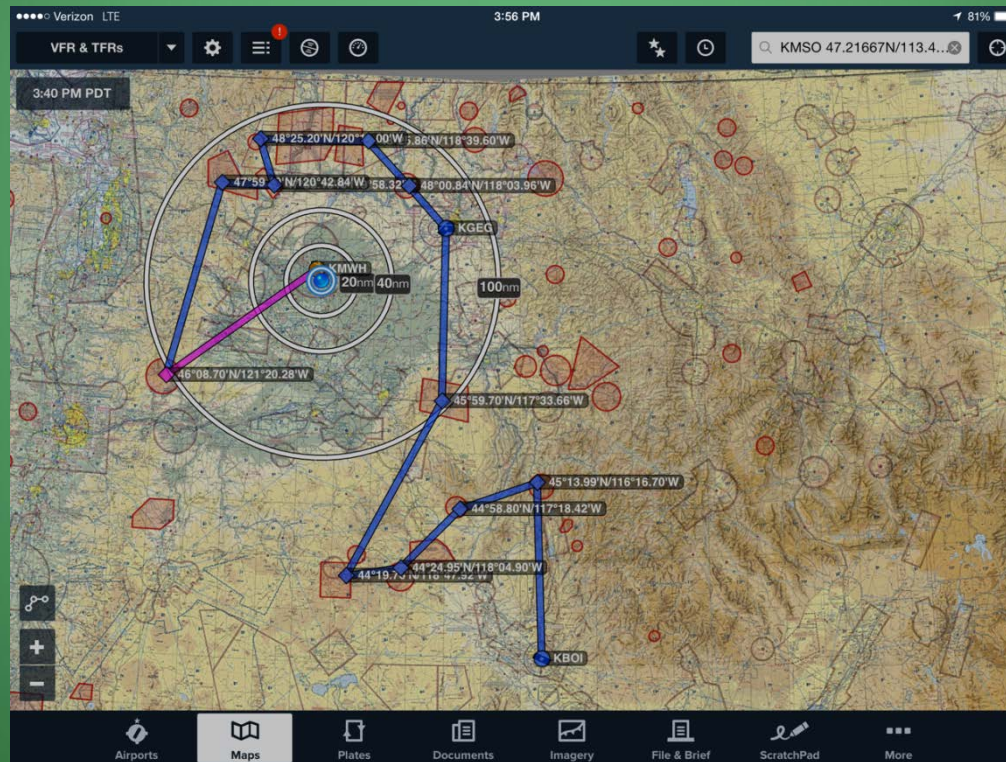
FILLED



2007 2008 2009 2010 2011 2012 2013 2014 2015

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Typical Flight Track49z August







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INFRARED PILOTS 2015

Dan Johnson Supervisor
08/2006
44Z & 49Z

EMPTY FTE
To be filled
2016

EMPTY FTE
To be filled
2016

Don Boyce
05/2007
44Z & 49Z

Ed Netcher
08/2012
49Z & 44Z

Jack Lowrey
05/2015
N144Z

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What did we learn

- Weekly conference calls effective for SA
 - Identified maximum capacity
 - Additional time on aircraft due to pilot shortage
 - RTB Ogden provided maintenance time to progressively clear aircraft squawks
-

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What did we learn

- Relief Pilots Essential for aircraft staffing
 - Sam Ramsay RAO,
 - Andrew Kingsbury RASM
 - Jeff Watts Maintenance Inspector
 - Staffing for 2 additional FTE's are in the works
 - Training is scheduled for 2016 for existing and new hires
-

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What's Next ...

- Continuance of Pilot Developmental Program
 - Continued advancement of Ipad Utilization and Web access
 - Beta test remote operation of Phoenix system via WIFI
 - Complete speed vs altitude test in both aircraft
-

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What's Next ...

- Continued development and spring deployment of the AMS sensor
 - 15 April one aircraft FMC (crew, equipment, aircraft)
-

Any Questions?



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VIEW FROM THE OFFICE

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IT BEGINS STOUT CREEK JULY 31

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STOUT CREEK JULY 31, WE'RE AT FL 190

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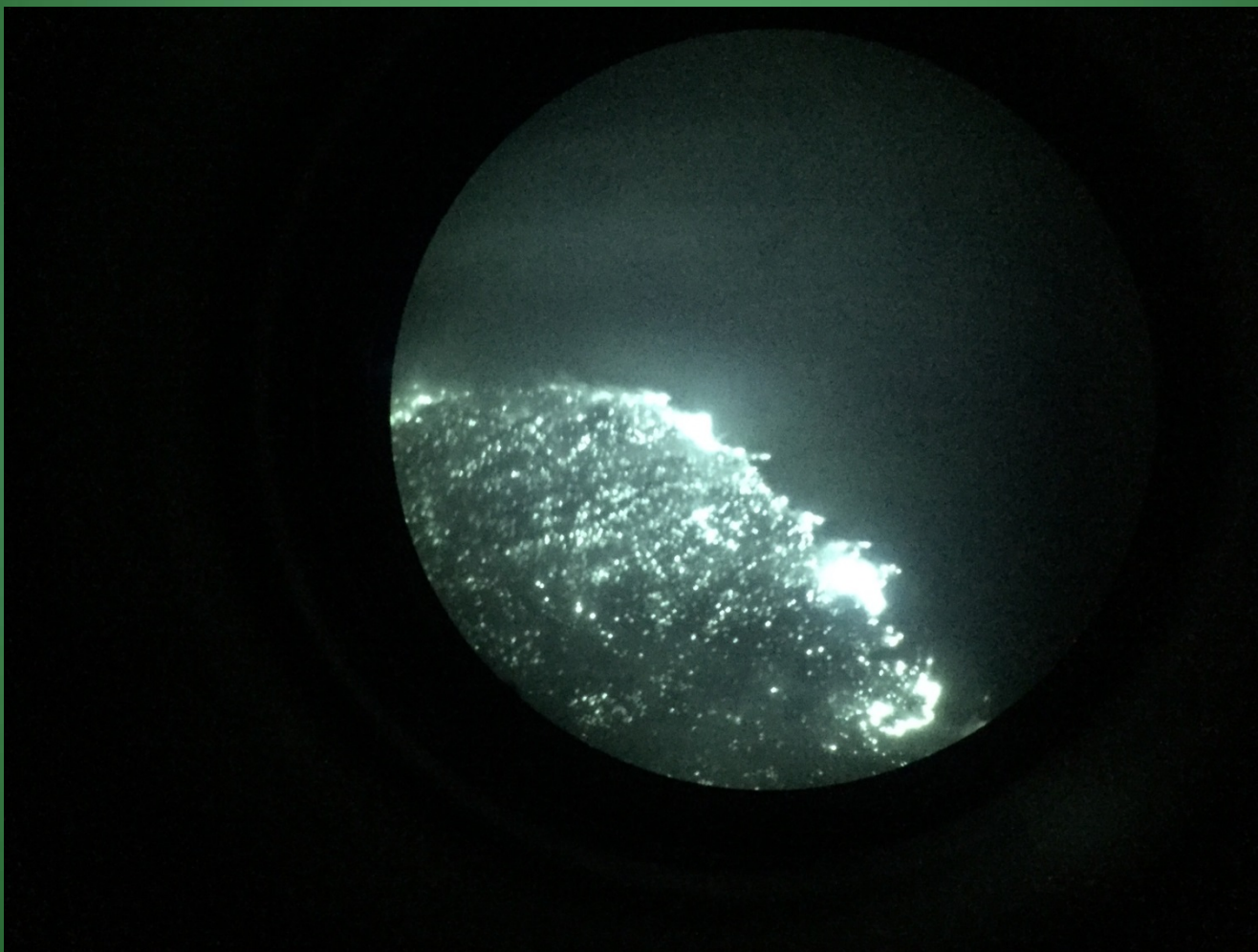
SODA FIRE AUGUST 14TH

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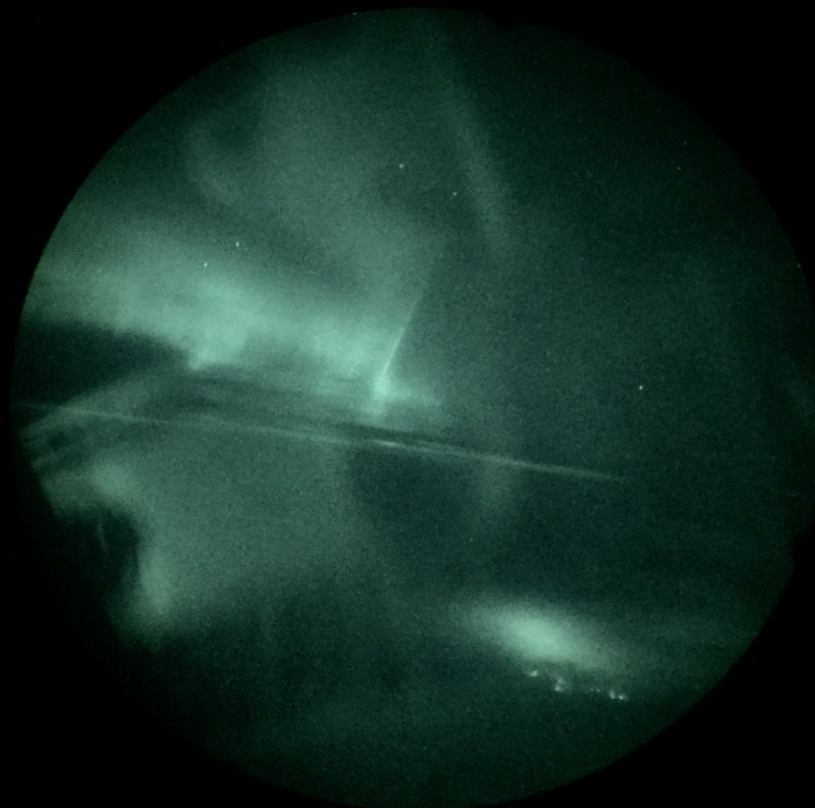
SODA FIRE NIGHT SCOPE AUGUST 14TH

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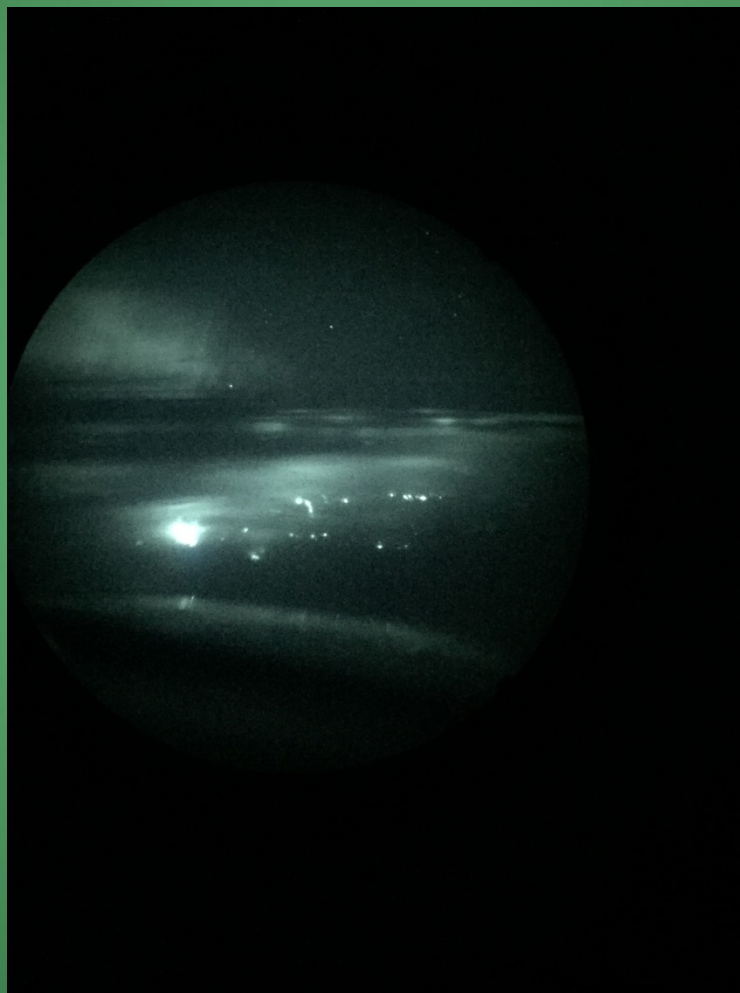


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CARPENTER FIRE LOWER RIGHT AUGUST 23 – NORTHERN LIGHTS TOP

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CARPENTER FIRE CENTER AUGUST 23 – NORTHERN LIGHTS TOP LEFT

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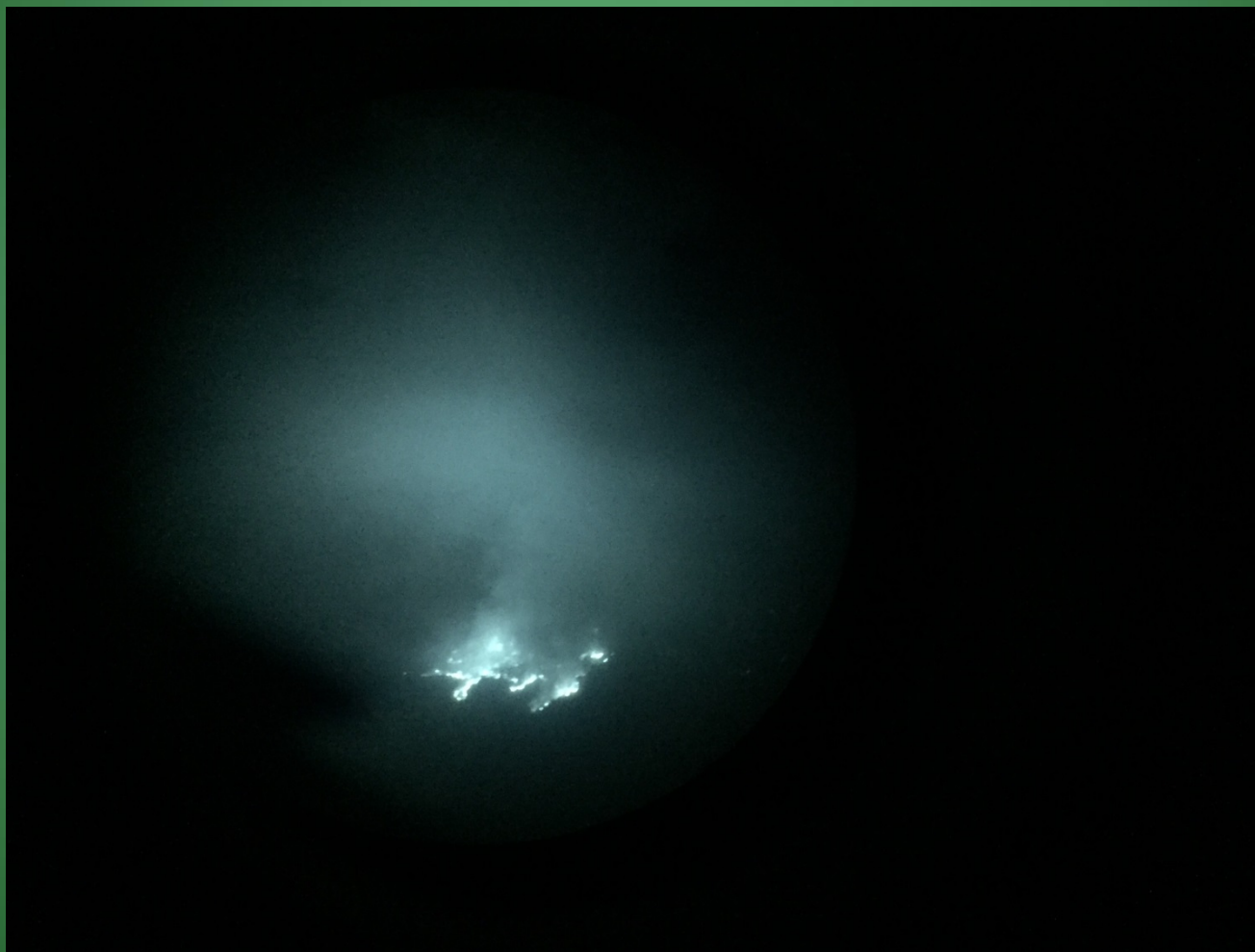
GRIZZLY BEAR AUGUST 28TH GETTING JIGGY

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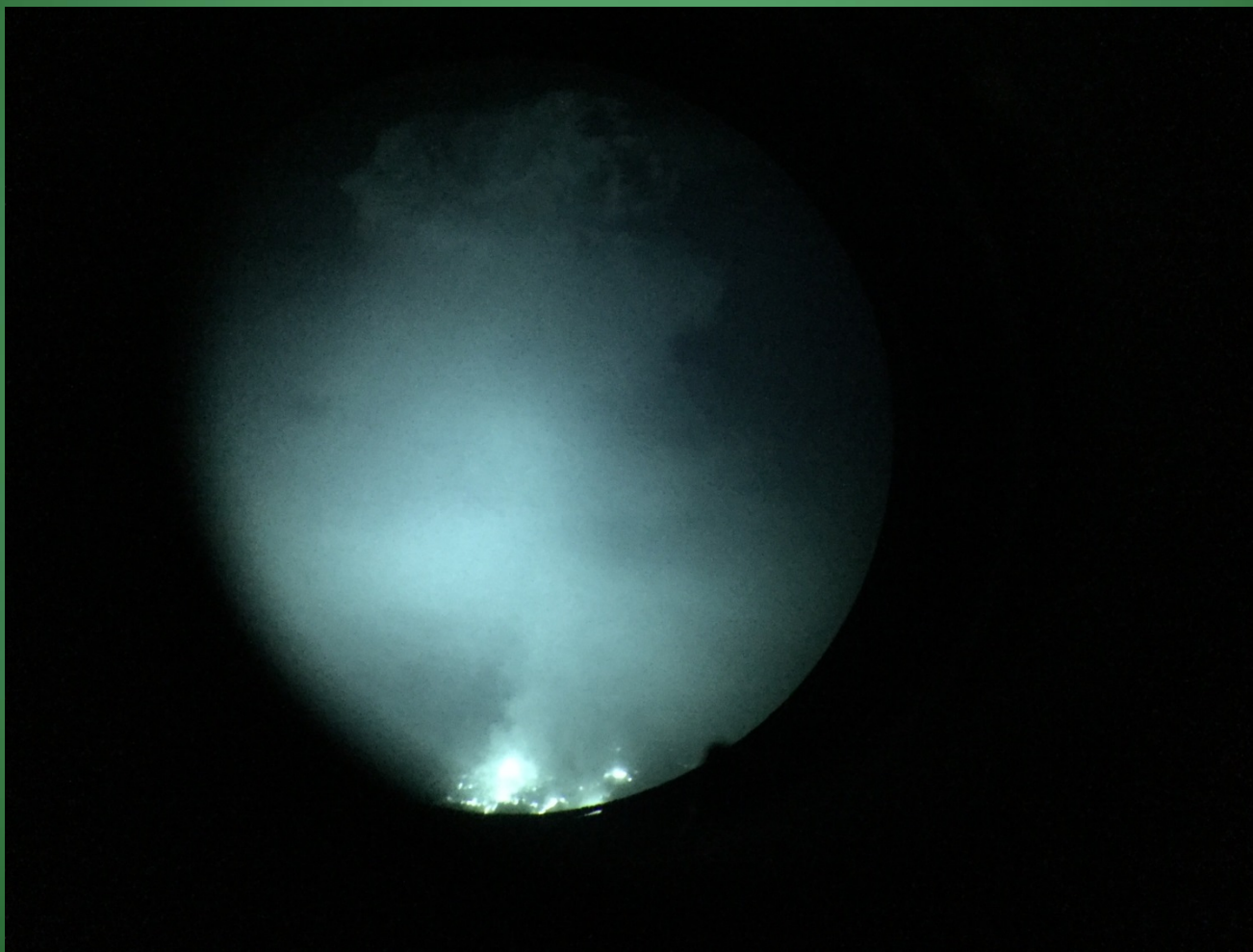
GRIZZLY BEAR AUGUST 28TH NIGHT VISION

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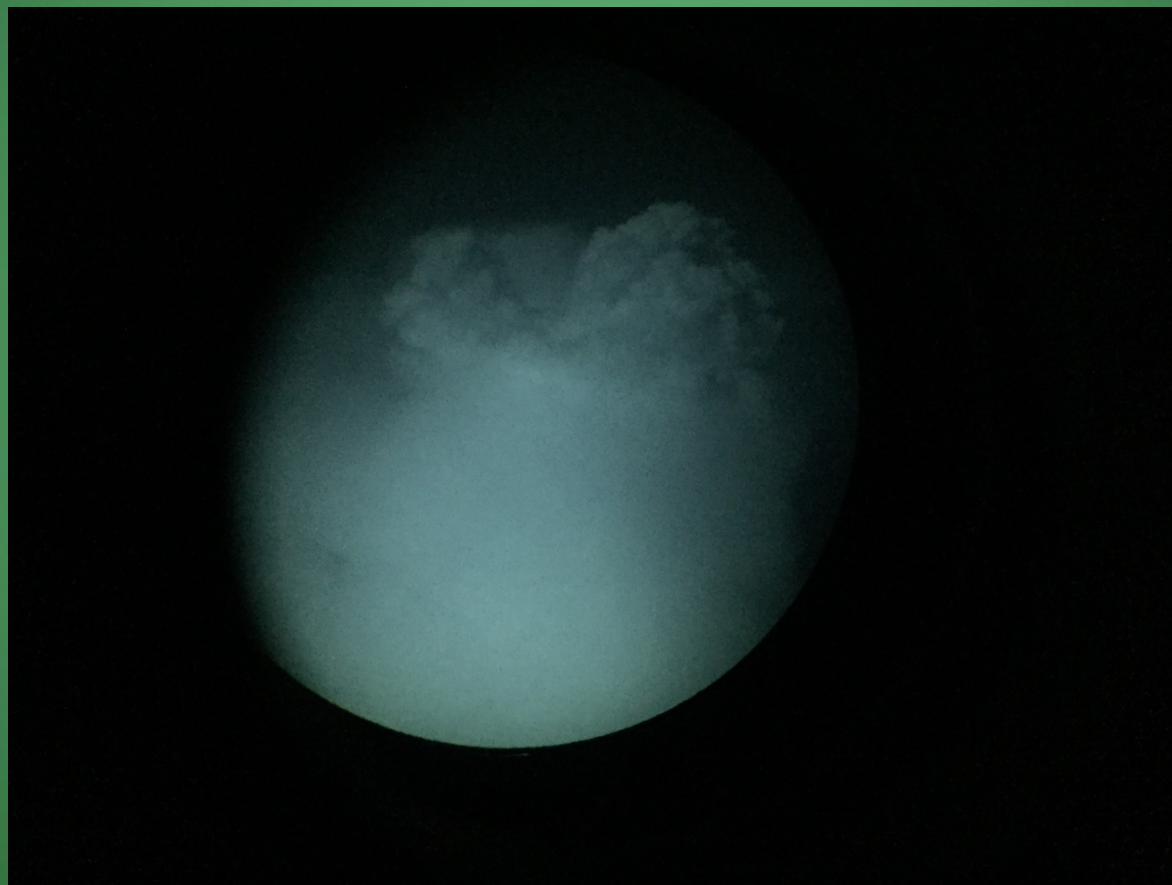


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GRIZZLY BEAR AUGUST 28TH NIGHT VISION note: Plume

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GRIZZLY BEAR AUGUST 28TH NIGHT VISION

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LOWREY – KAZ – JOHNSON – HUMBACH - SMITH

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LOWREY – JOHNSON - NAVARRO

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RAMSAY – RAO / IR Relief Pilot

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KINGSBURY – RASM / IR Relief Pilot



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LOWREY USE OF TECHNOLOGY – iOS 9.1 BAD ELF - PLUS 3 HOUR

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JOHNSON VIEW FROM THE OFFICE STOUTS CREEK AUGUST 12

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PROPOSED PANEL UPGRADE 44Z

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PROPOSED PANEL UPGRADE 49Z

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44Z HEAVY

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BIRDS AND PLANES DON'T MIX