

Firefighting Effectiveness Use and Efficiency (AFFEUE) Study

Remote Sensing Examples

Issue

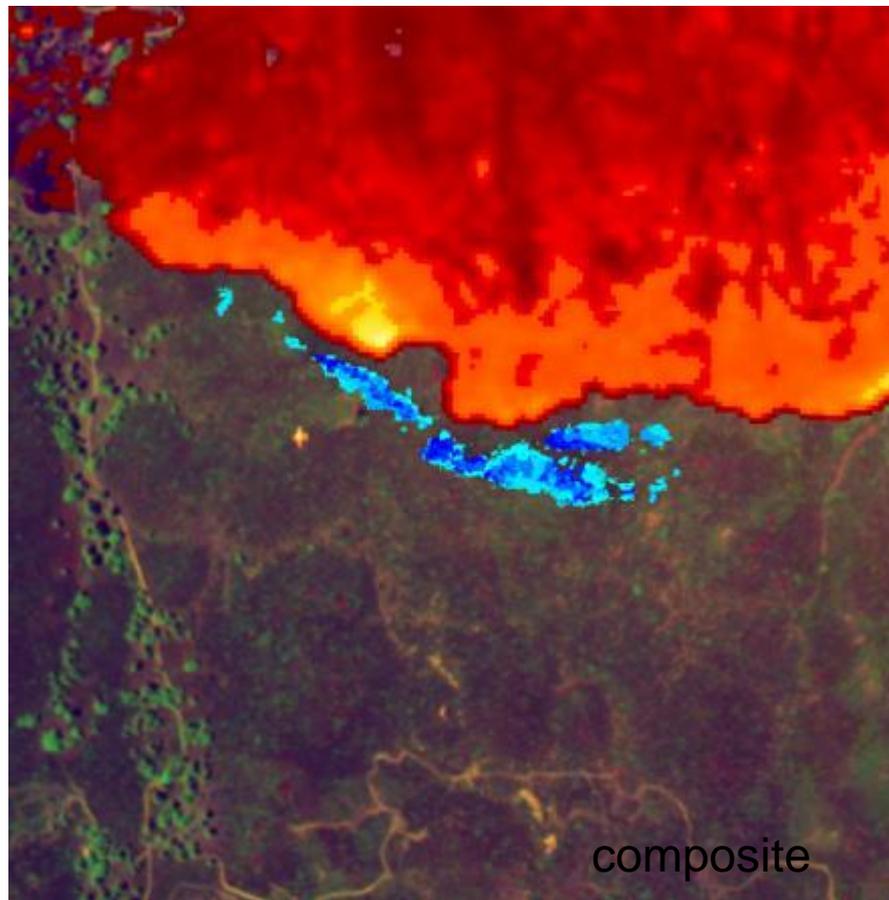
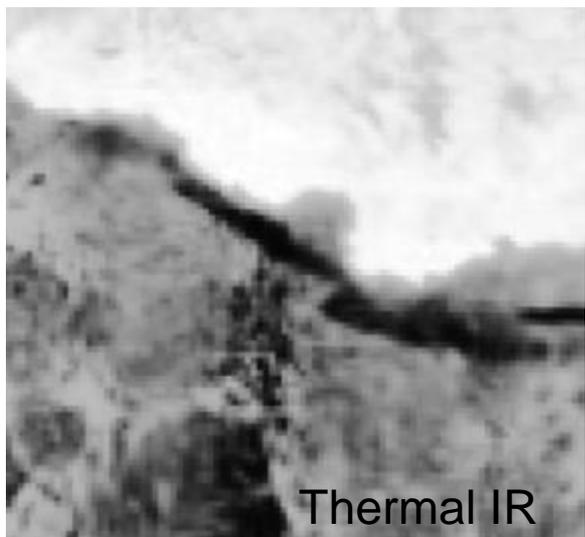
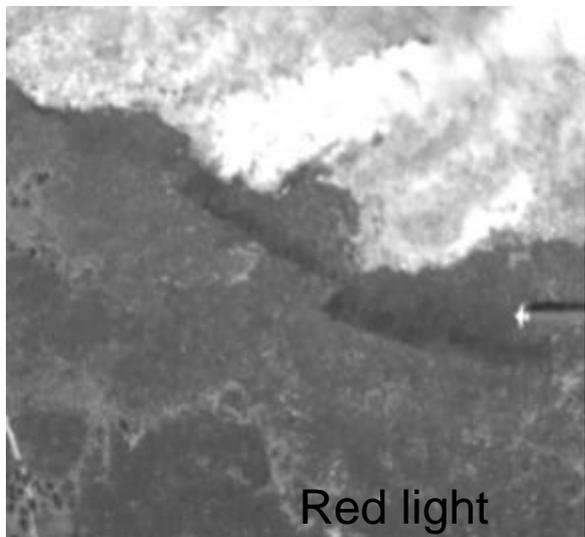
- The Forest Service (FS) does not have processes, technology, criteria and/or performance measures (metrics) to evaluate the effective use of retardant, suppressants, water enhancers or water (wildland fire chemicals and water) and the effective use of large airtankers and water scoopers that drop wildland fire chemicals and/or water.

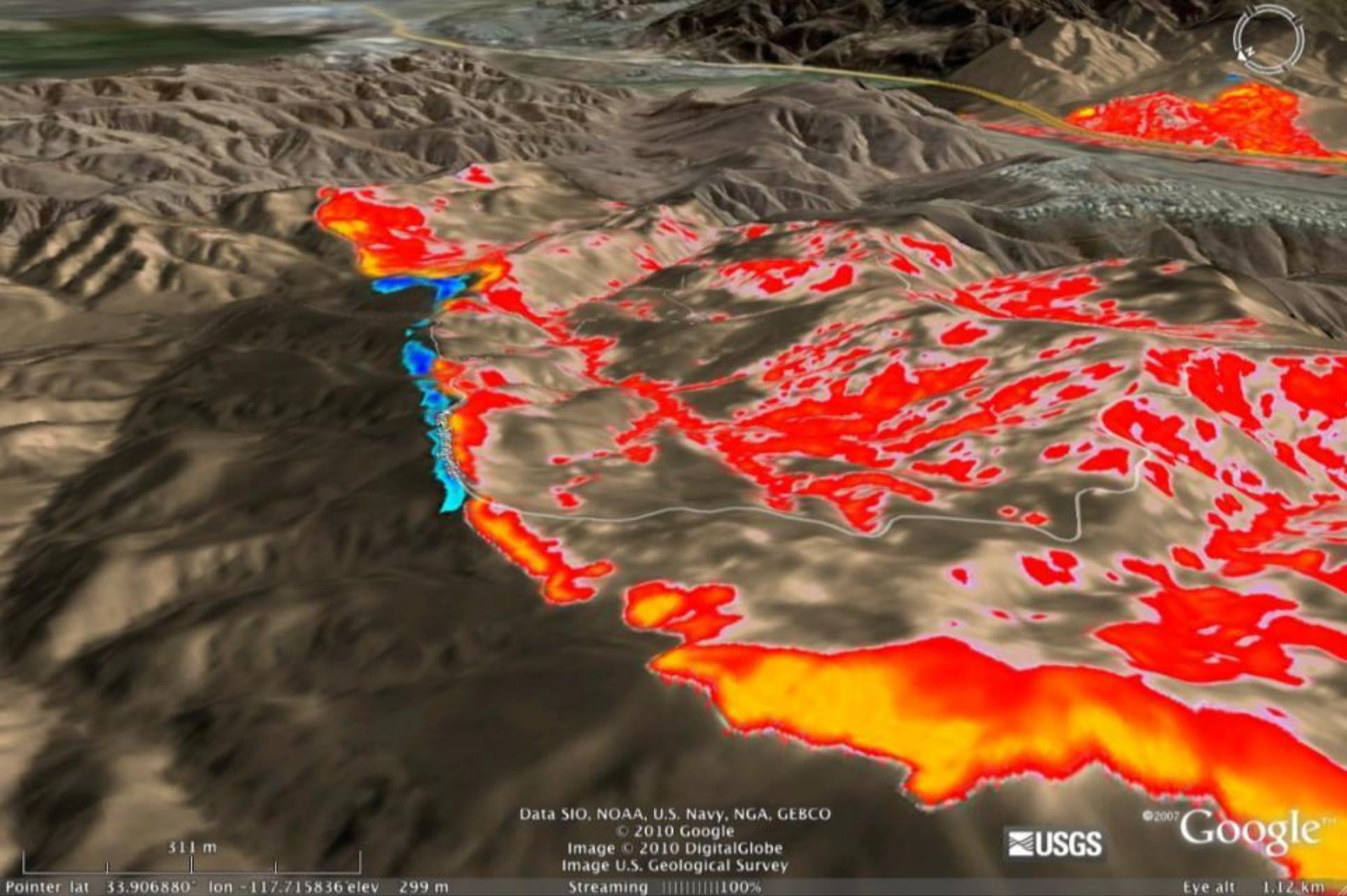
Questions Needing Answers

- Did the wildland fire chemical or water effectively support efforts to contain or control the fire?
- How many gallons of wildland fire chemicals or water were dropped by each aircraft and on a specific fire.
- Was this an initial attack fire, extended attack or large fire?
- How many fires (all types) were airtankers used on?
- Was the drop at the right height and speed based on testing for that airtanker and delivery system?
- Where are retardant and water drops on the landscape? How many gallons and coverage level?
- How can technology improve tracking, documentation, evaluation and avoidance?
- Was the drop supported by ground firefighters?

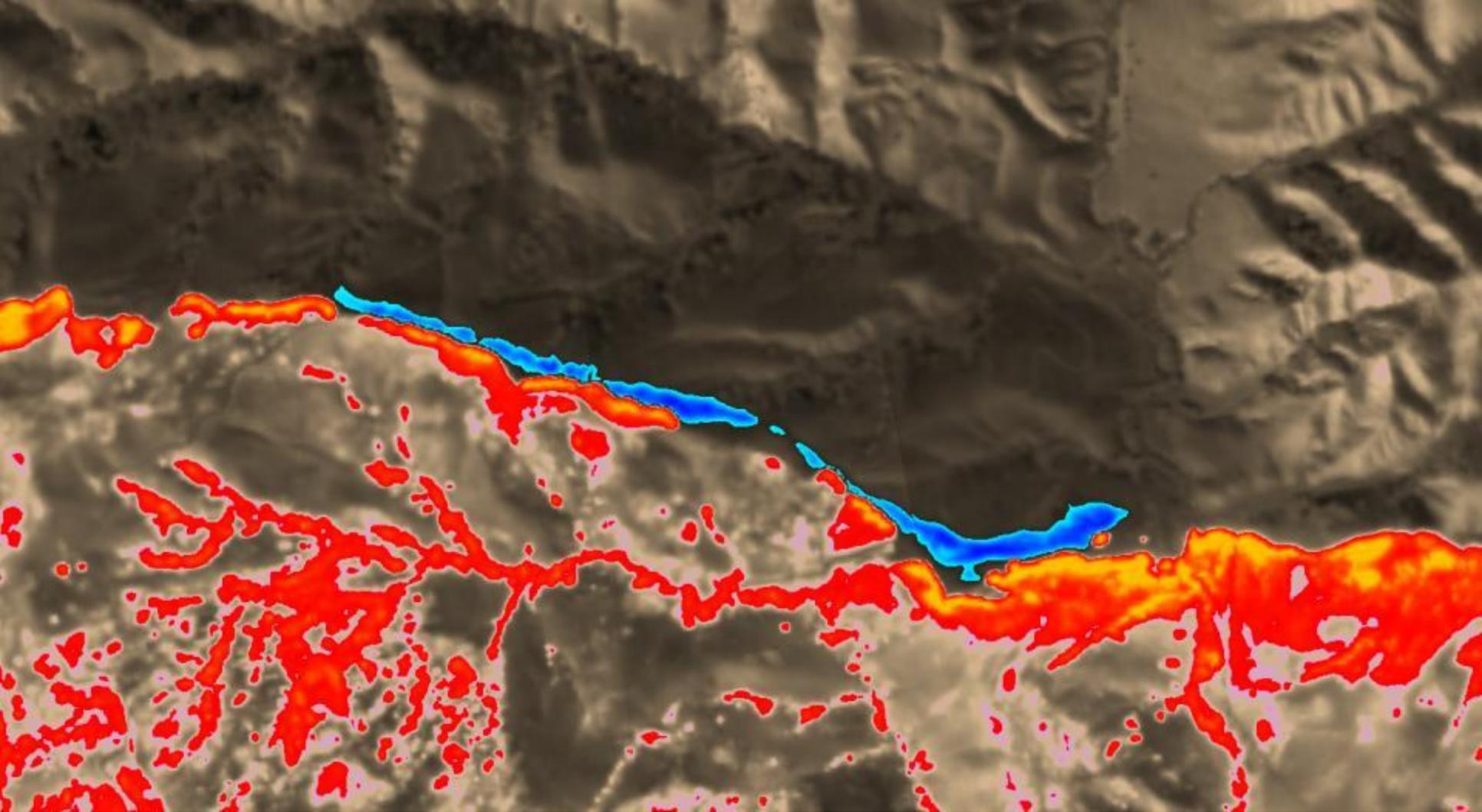
Troy Fire, San Diego County, California, 19 June 2003

Aerial retardant drops

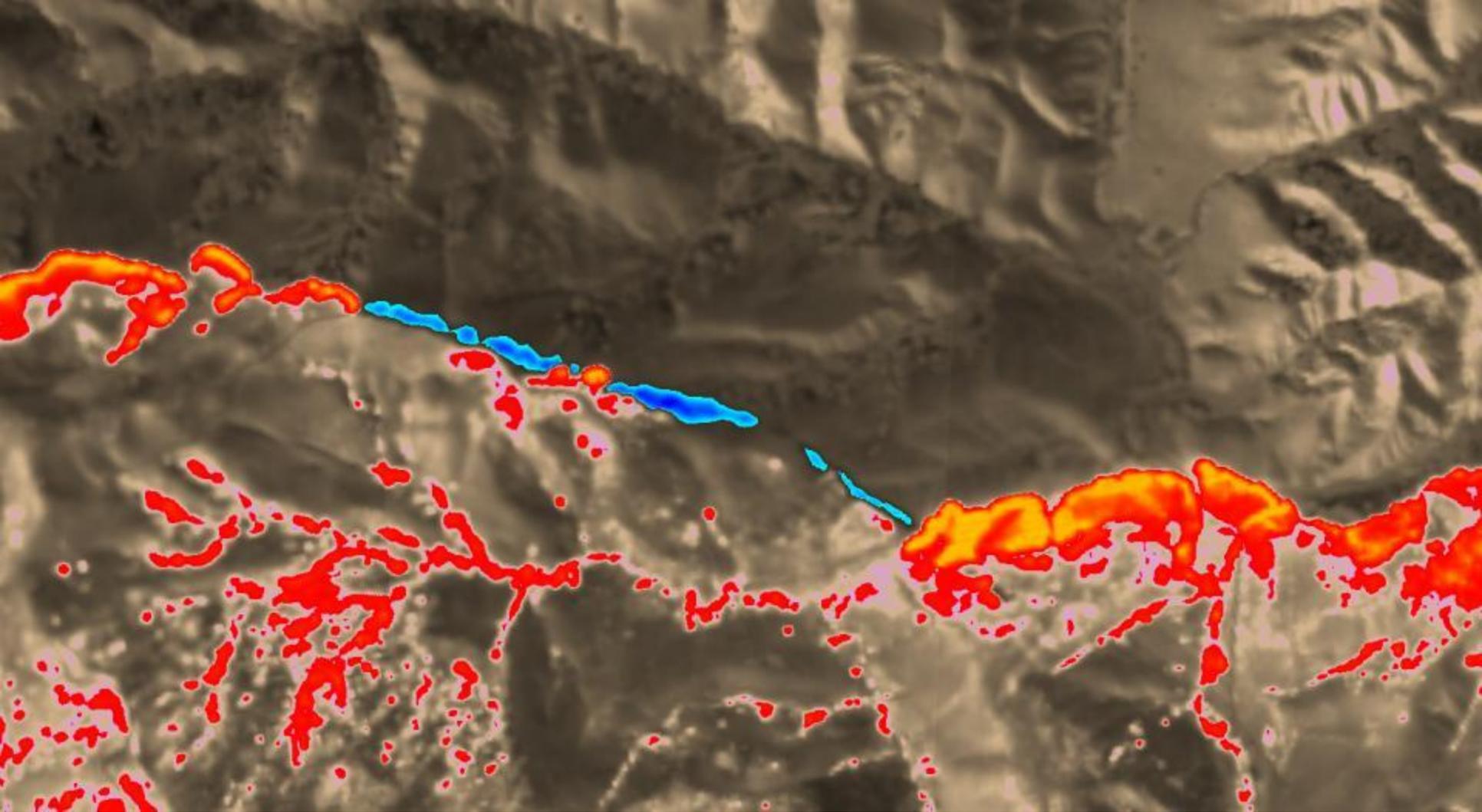




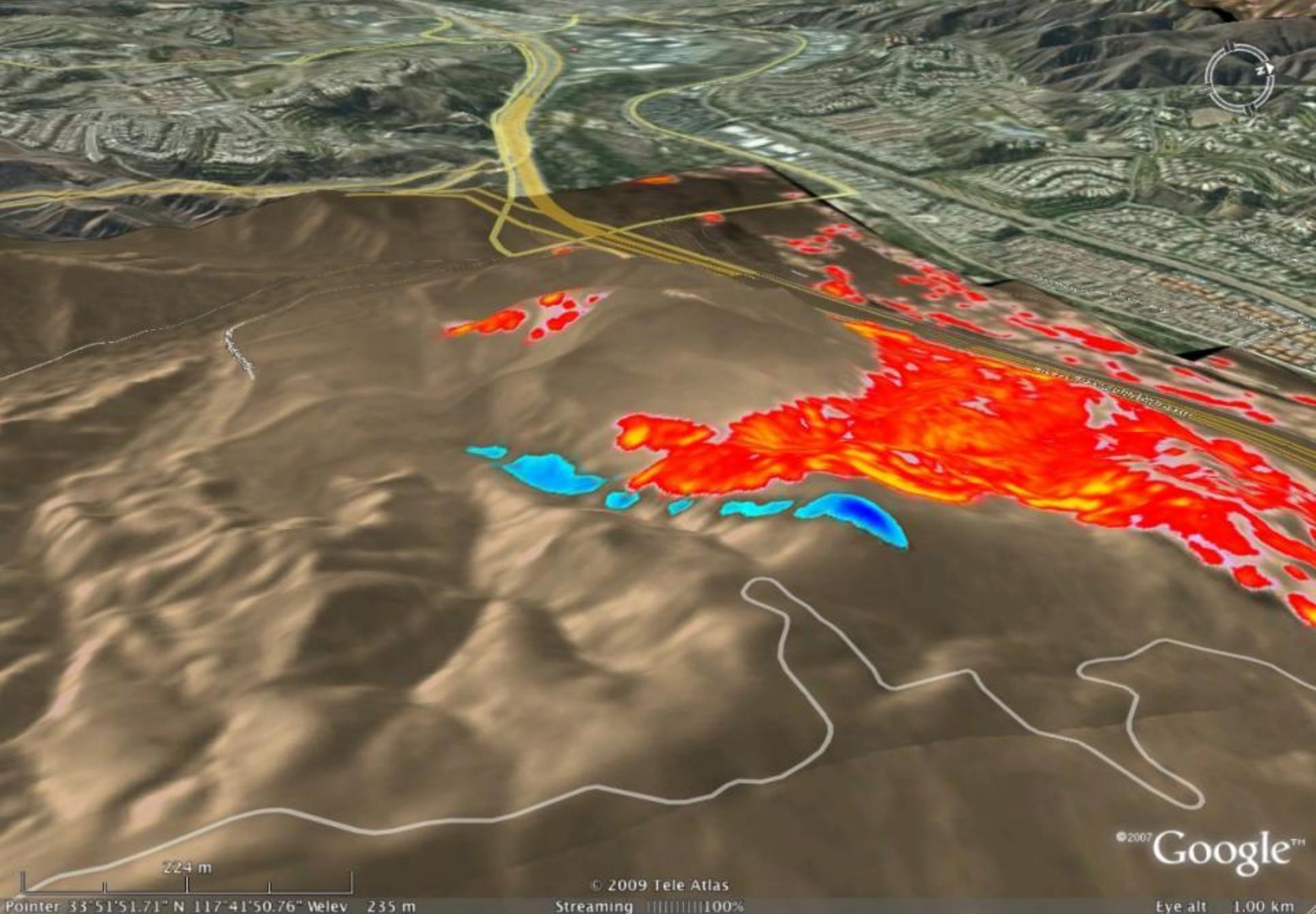
2008 Freeway Fire: Fire and retardant viewed by the PSW FireMapper 2.0
14:02:00 15 November 2008



2008 Freeway Fire: Fire and retardant viewed by the PSW FireMapper 2.0
14:02 15 November 2008



2008 Freeway Fire: Fire and retardant viewed by the PSW FireMapper 2.0
14:32:00 15 November 2008



224 m

Pointer 33°51'51.71" N 117°41'50.76" W elev 235 m

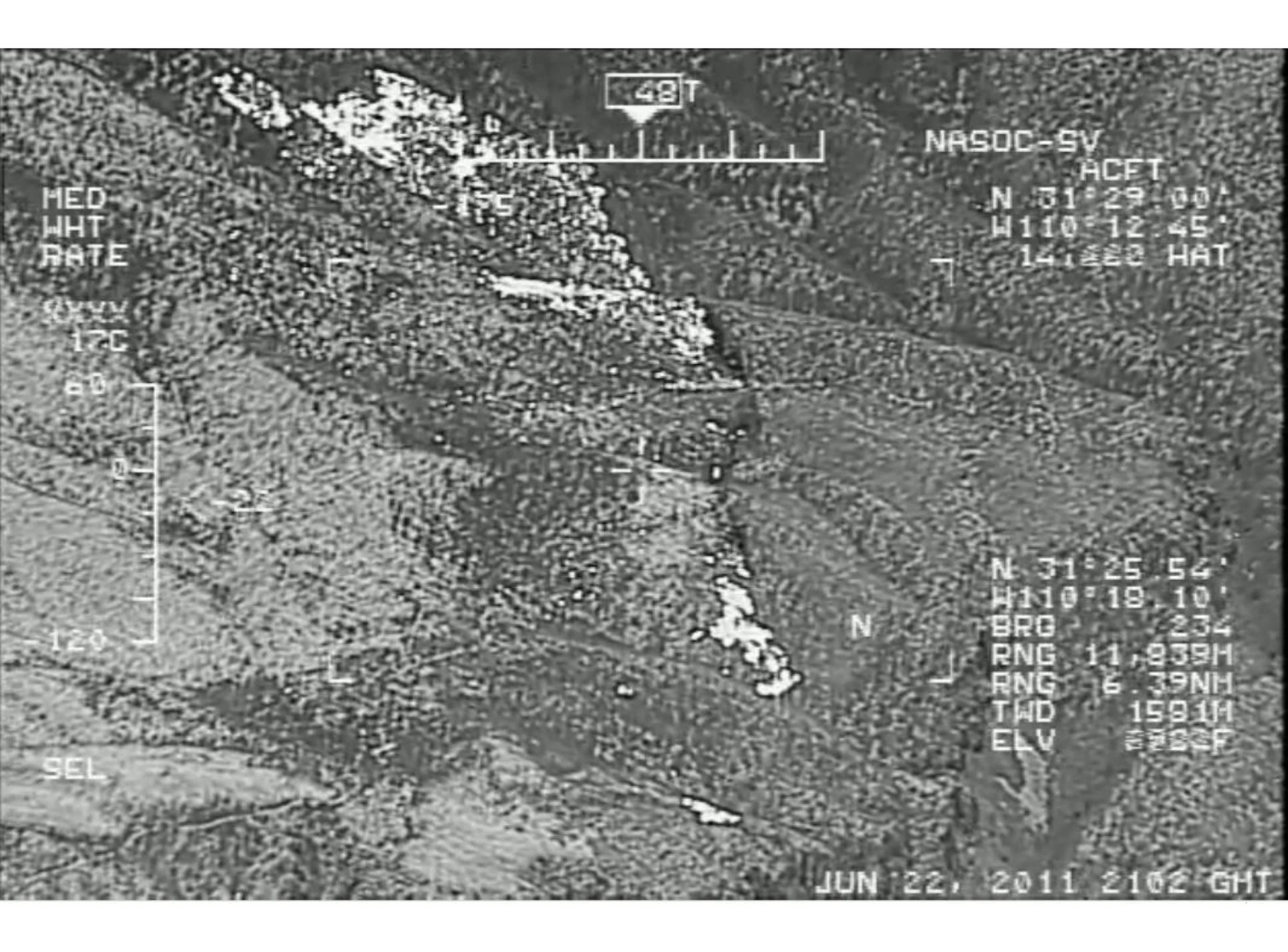
© 2009 Tele Atlas

Streaming 100%

©2007 Google™

Eye alt 1.00 km

2008 Freeway Fire: DC10 retardant drop



48T

NASOC-SV

ACFT

N 31° 29' 00"

W 110° 12' 45"

14.888 HAT

MED
WHT
RATE

QVVV
170



N 31° 25' 54"

W 110° 18' 10"

BRG 234

RNG 11.839H

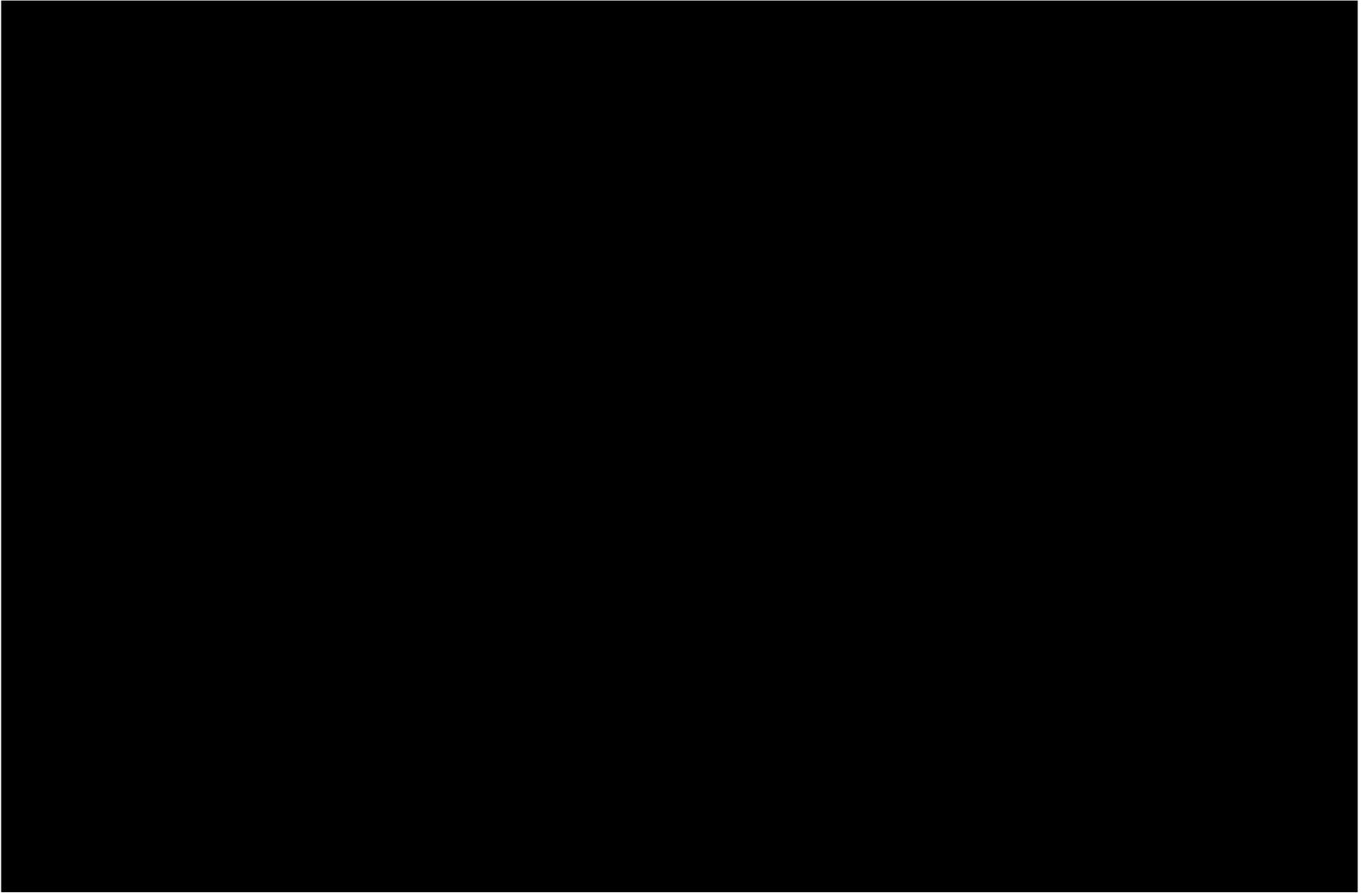
RNG 6.39NH

TWD 1591H

ELV 1482CF

SEL

JUN 22, 2011 2102 GHT



96T



82



60



0

<-24

-120



A

N

