



A  Sempra Energy utility®

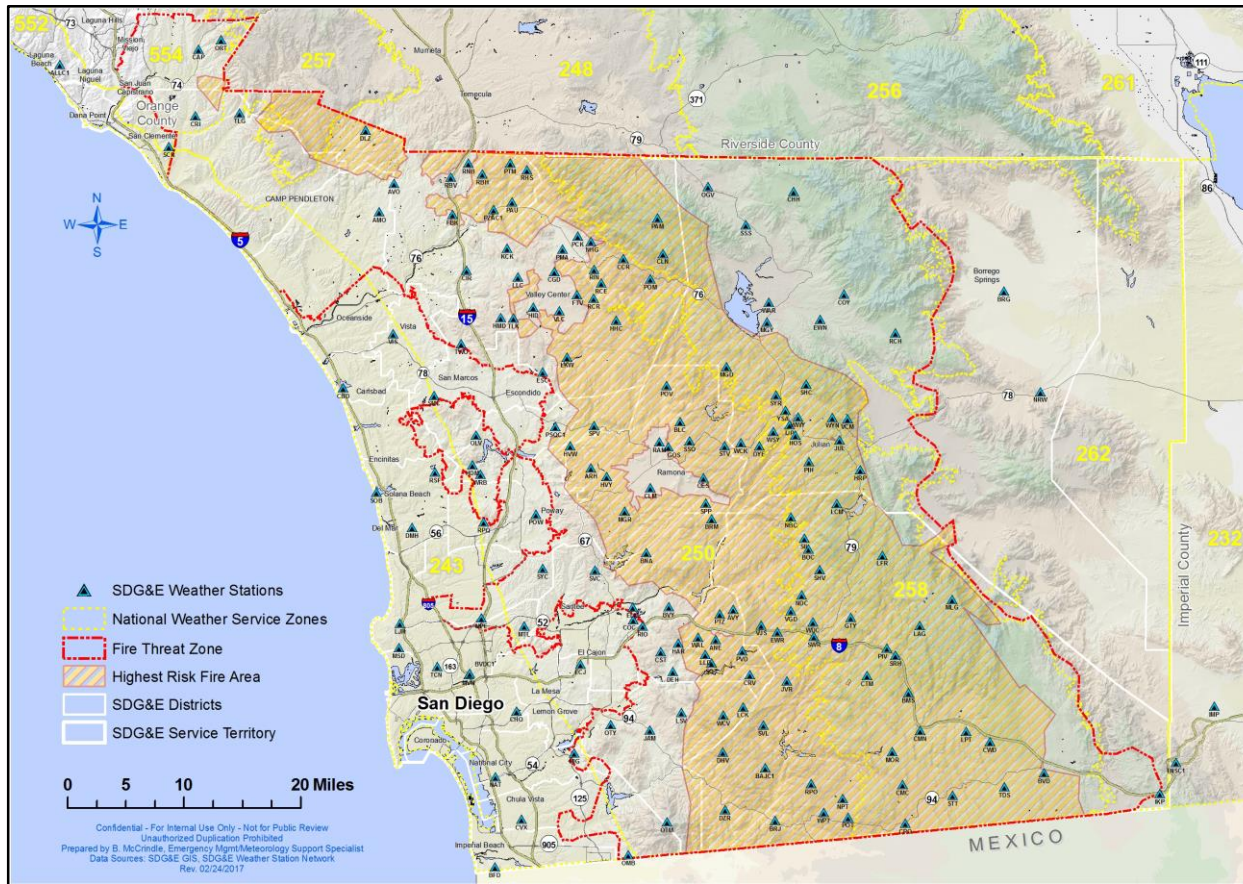
SDG&E Wildfire Risk Modeling

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San Diego Gas & Electric

September, 2020

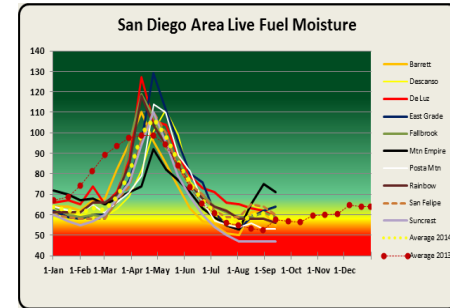
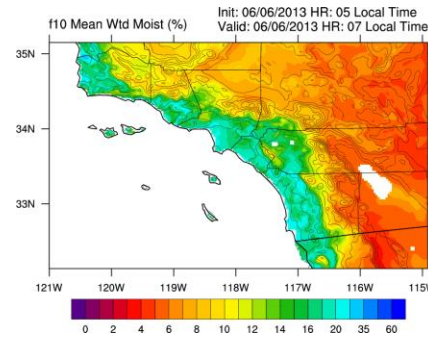
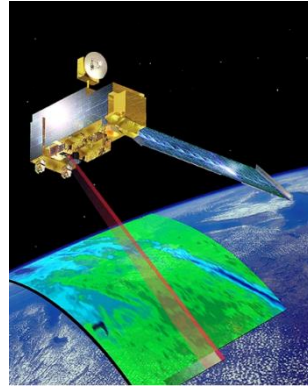
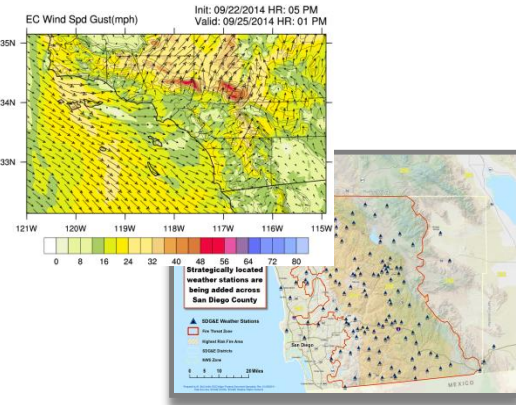


SDG&E Weather Network: 220 Weather Stations



SDG&E owns and operates the densest utility weather network in the nation

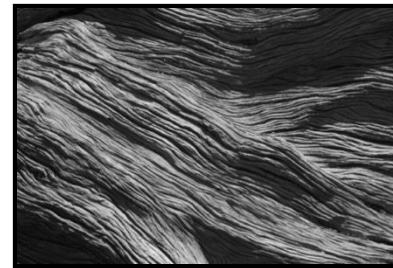
SDG&E's Fire Potential Index



Weather
 (wind speed & humidity)



Grasses



Dead Fuels



Live Fuels

Fuel Moisture

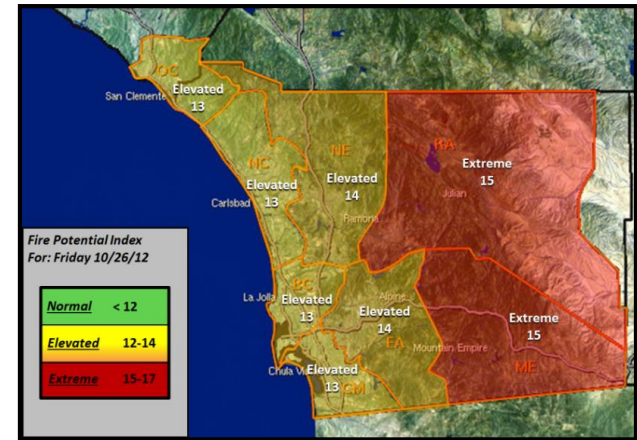
SDG&E's Fire Potential Index

The Fire Potential Index is a planning and decision support tool designed to reduce the risk of a wildfire while improving efficiency and reliability

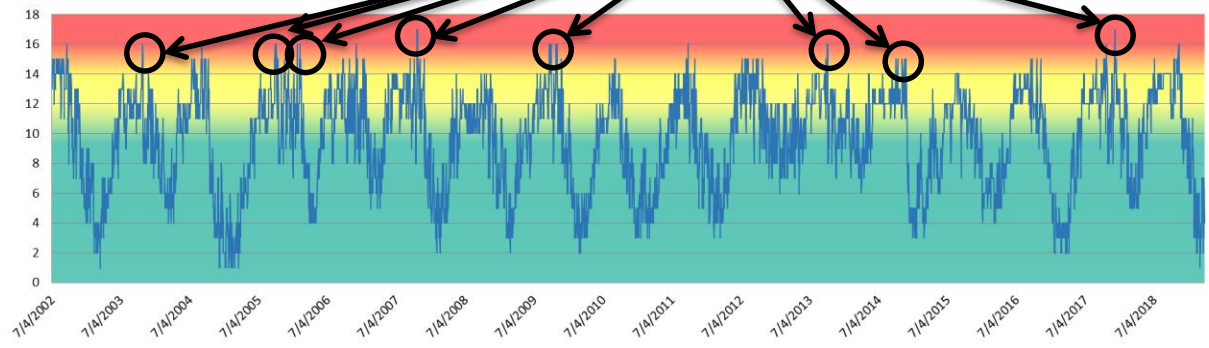
- Incorporates weather, live fuel moisture, dead fuel moisture, and greenness of the annual grasses
- Calculated at the district level
- Issued 12:30 pm daily
- Used to inform operational decisions, work restrictions, resource allocation
- Shared broadly within the community



○ Major Wildfire

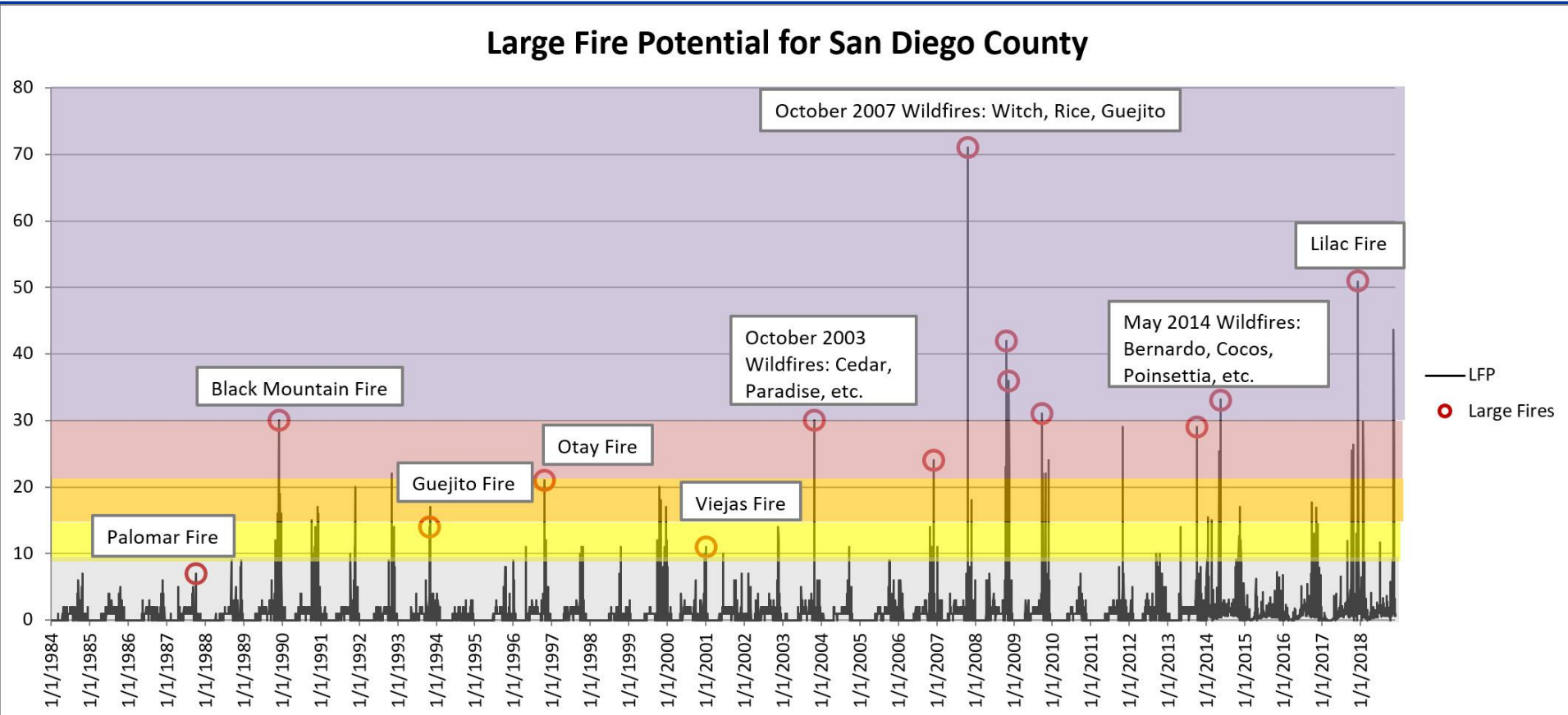


	Thu 10/25	Fri 10/26	Sat 10/27	Sun 10/28	Mon 10/29	Tue 10/30	Wed 10/31	Thu 11/01
ME	Normal 11	Extreme 15	Elevated 13	Elevated 12	Normal 11	Normal 11	Normal 11	Normal 10
RA	Normal 11	Extreme 15	Elevated 13	Elevated 12	Normal 11	Normal 11	Normal 11	Normal 10
EA	Normal 10	Elevated 14	Elevated 12	Normal 11	Normal 11	Normal 10	Normal 10	Normal 10
NE	Normal 10	Elevated 14	Elevated 12	Normal 11	Normal 11	Normal 10	Normal 10	Normal 10
OC	Normal 10	Elevated 13	Normal 11	Normal 11	Normal 10	Normal 9	Normal 9	Normal 9
NC	Normal 10	Elevated 13	Normal 11	Normal 11	Normal 10	Normal 9	Normal 9	Normal 9
BC	Normal 10	Elevated 13	Normal 11	Normal 11	Normal 10	Normal 9	Normal 9	Normal 9
CM	Normal 10	Elevated 13	Normal 11	Normal 11	Normal 10	Normal 9	Normal 9	Normal 9



Santa Ana Wildfire Threat Index

Large Fire Potential for San Diego County



No-Rating	Marginal	Moderate	High	Extreme
Santa Ana winds are not expected or will not contribute to significant fire activity.	Upon ignition, fires may grow rapidly.	Upon ignition, fires will grow rapidly and will be difficult to control.	Upon ignition, fires will grow very rapidly and will be very difficult to control.	Upon ignition, fires will have extreme growth and will be uncontrollable.

Santa Ana Wildfire Threat Index

Forecast [Map](#)

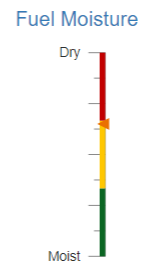
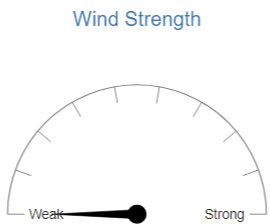
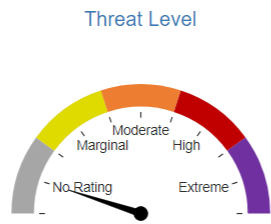
Zone 1: LA-Ventura

Sat/Sep 5 Sun/Sep 6 **Mon/Sep 7**
 Tue/Sep 8 **Wed/Sep 9** Thu/Sep 10

Forecast issued at: 6:45 AM on 9/5/2020 Valid for: 6:45 AM

Zone 1: LA-Ventura

- NO RATING**
Winds are either not expected, will not contribute to significant fire activity.
- MARGINAL**
Upon ignition, fires may grow rapidly.
- MODERATE**
Upon ignition, fires will grow rapidly and will be difficult to control.
- HIGH**
Upon ignition, fires will grow very rapidly, will burn intensely, and will be very difficult to control.
- EXTREME**
Upon ignition, fires will have extreme growth, will burn very intensely, and will be uncontrollable.



Event Description
 Santa Ana winds are either not expected, or will not contribute to significant fire activity.

Recommended Action(s)
 Make sure that your emergency preparedness kit is in order. An emergency can happen at any time. For additional information visit: <http://alert.lacounty.gov> www.readyventuracounty.org www.preventwildfireca.org

Tweets by @sawti_forecast

SAWTi Forecast @sawti_forecast
 Periods of strong offshore winds through the end of next week especially Sunday evening through Monday evening and Tuesday night through Wednesday afternoon. These winds will be accompanied by well above normal temperatures and humidity in the single digits and teens. 1h

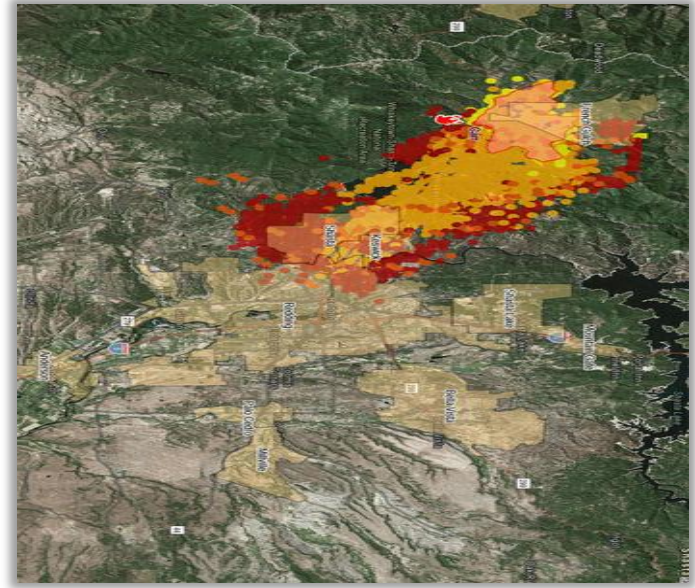
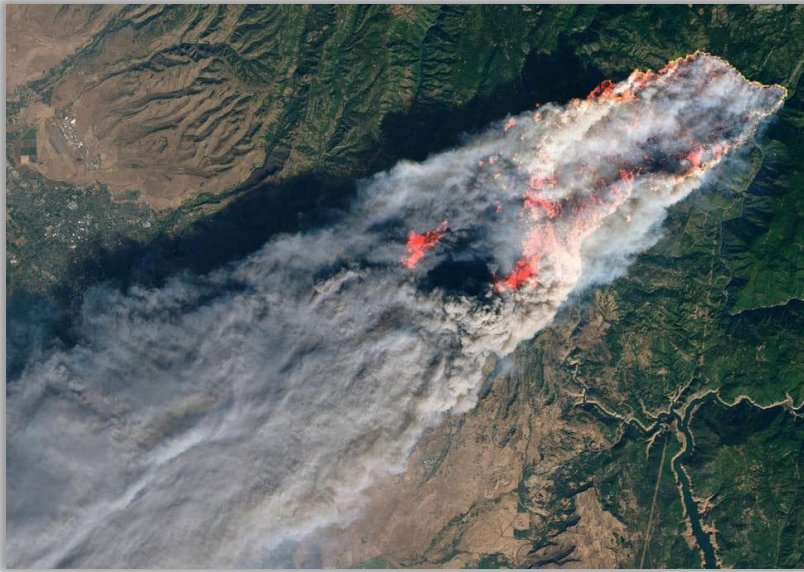
SAWTi Forecast @sawti_forecast
 San Diego on 2020-09-10 is forecast to be MARGINAL. Visit fsapps.nwcg.gov/psp/sawti for more information and recommended actions. 2h

SAWTi Forecast

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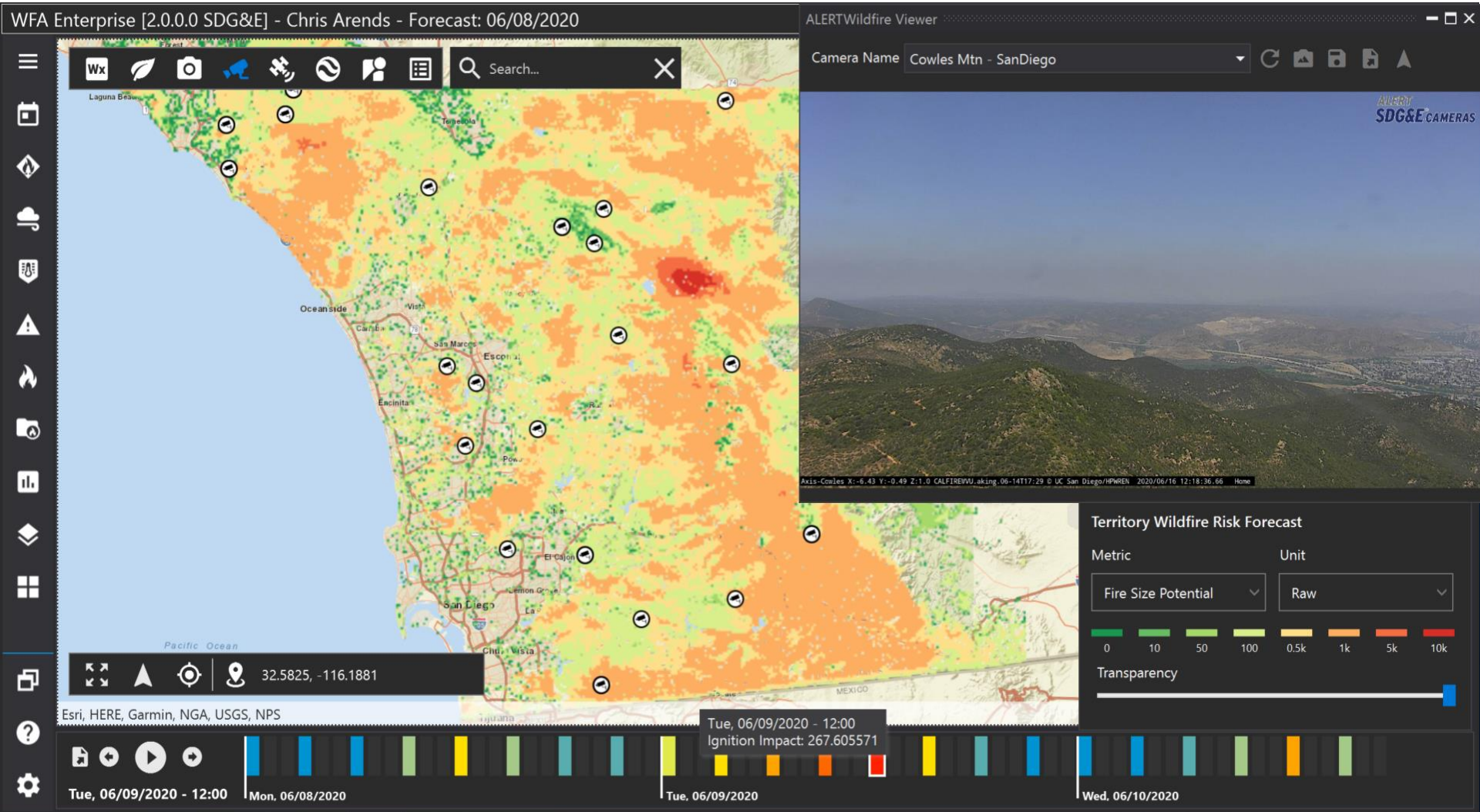
Zones	Sat/Sep 5	Sun/Sep 6	Mon/Sep 7	Tue/Sep 8	Wed/Sep 9	Thu/Sep 10
Zone 1: LA-Ventura						
Zone 2: Orange-Inland Empire						
Zone 3: San Diego						
Zone 4: Santa Barbara						

Satellite Wildfire Alerts

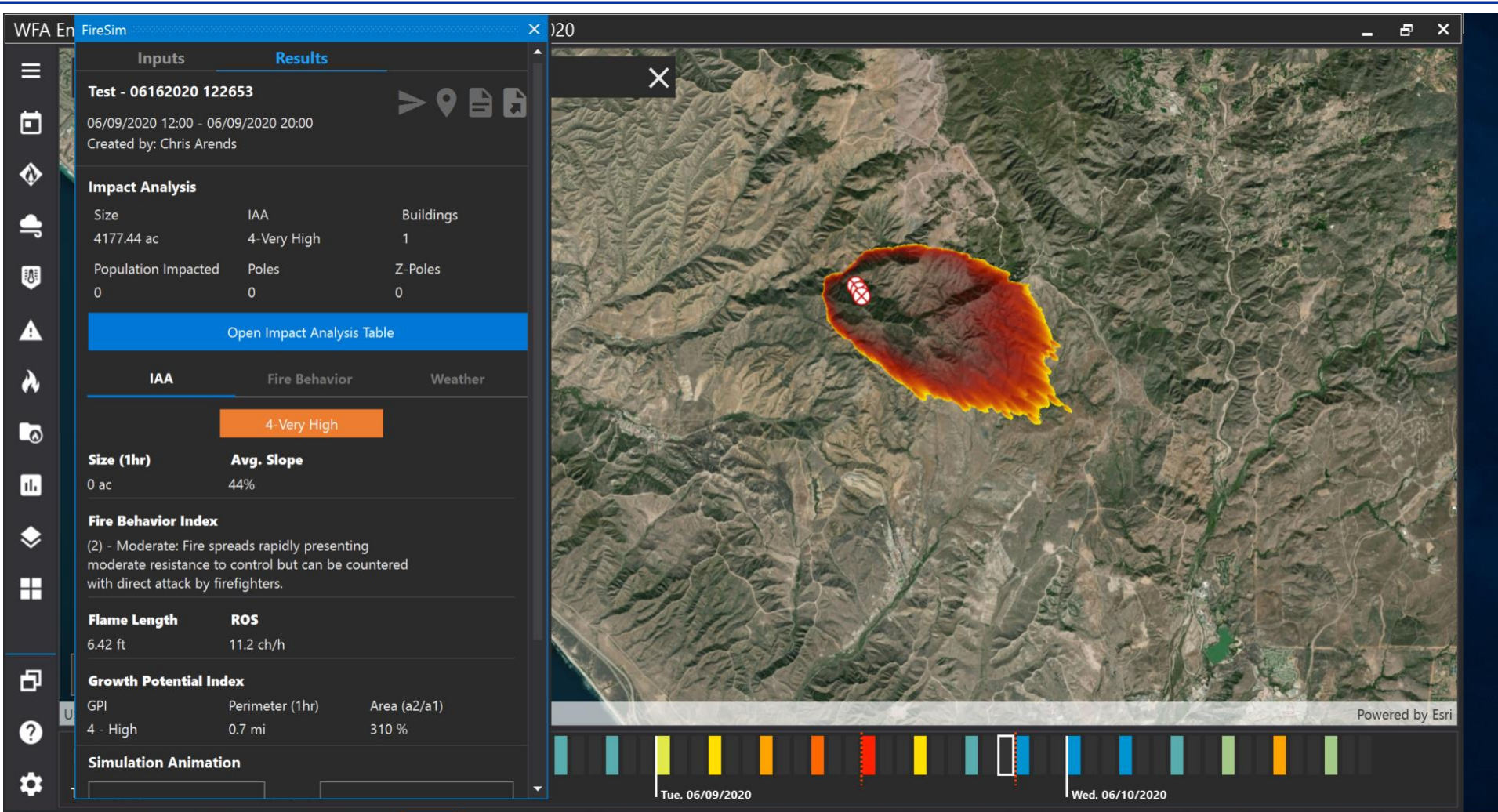


- The new GOES-16/17 carry the Advanced Baseline Imager (ABI), a next-generation fire detection and characterization at 2 km spatial resolution and 1-5 minute temporal resolutions.
- The Wildfire Automated Biomass Burning Algorithm (WFABBA) flags every earth-navigated pixel that has a potential fire.
- Six categories of fire detection based on confidence and environmental factors.
- The WFABBA took 4 minutes from ignition to first detection of the Kincadee Fire (Sonoma).

WildFire Analyst Risk Forecast



WildFire Analyst Fire Sim



Mobile Applications: FSCA & WRRM-Ops

