



# **FEMA**

## **Daily Operations Briefing**

**Monday, March 31, 2014**

**8:30 a.m. EDT**

# Significant Activity: Mar 28 – 31



## **Significant Events:**

- Mudslide – Snohomish County, WA
- Earthquakes – M5.1 Southern CA; M4.8 Yellowstone National Park, WY; M4.3 Oklahoma City, OK
- Alaska Shield 2014 – Capstone Exercise

## **Significant Weather:**

- Heavy snow (up to 15 inches) – Northern Plains and Upper Midwest
- Moderate to heavy rain – Pacific Northwest and Northeast
- Rain and thunderstorms – Mississippi Valley
- Light to moderate snow – Northern Intermountain, Northern/Central Rockies and Central Great Basin
- Space Weather: Past 24 hours: minor, R1 radio blackout; next 24 hours: minor, R1 radio blackouts forecast
- Red Flag Warnings: AL, NM, CO, KS, NE, MO, AZ
- Elevated/Critical Fire Weather Areas: AZ, UT, NM, CO, TX, OK, KS, NE & MO

## **FEMA Readiness:**

- Type II IMATs from Regions II, V, VII and IX are NMC due to personnel and/or equipment issues

## **Disaster Activity:**

- Amendment No. 1 to FEMA-3370-EM-WA

# Mudslide – Washington State



## March 22, 2014

- Large mudslide in Snohomish County (pop. 745,913) in the town of Oso (pop. 180)
- Mud and debris, up to 20 feet deep in places, span 300 acres (updated analysis) across the north fork of the Stillaguamish River & WA State Route 530 (near Mile Post 37)

## Impacts

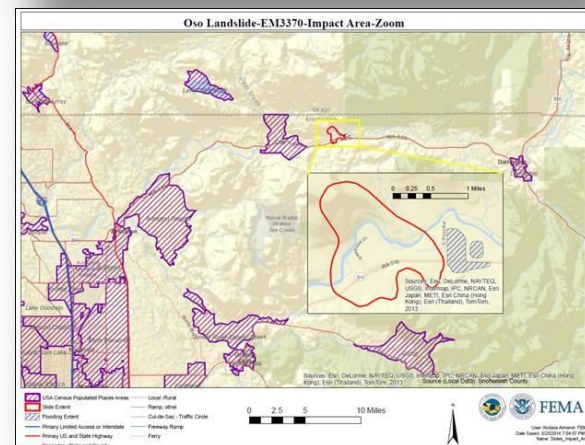
- ▲ 21 (+1) confirmed fatalities (unconfirmed recovered victims not included); 18 injuries (*Snohomish County, WA official website, March 30*)
- ▲ 30 (-60) people remain missing and/or unaccounted for
- ▲ 36 homes destroyed; 9 homes damaged
- ▲ 2 ARC shelters open with 3 (-3) occupants (*ARC 4:30 am EDT Shelter Report, March 31*)

## State/Local Response

- Governor declared a State of Emergency
- WA State EOC fully activated; Snohomish, Arlington and Darrington county EOCs activated
- US&R WA TF-1 deployed as State asset (not participating in Capstone Exercise 2014)
- ▲ AT&T deployed a mobile communication vehicle to provide cellular service
- ▲ 620 (+370) responders remain on scene ; (Federal, State, local and volunteer assets)
- ▲ WA National Guard deployed 208+ members

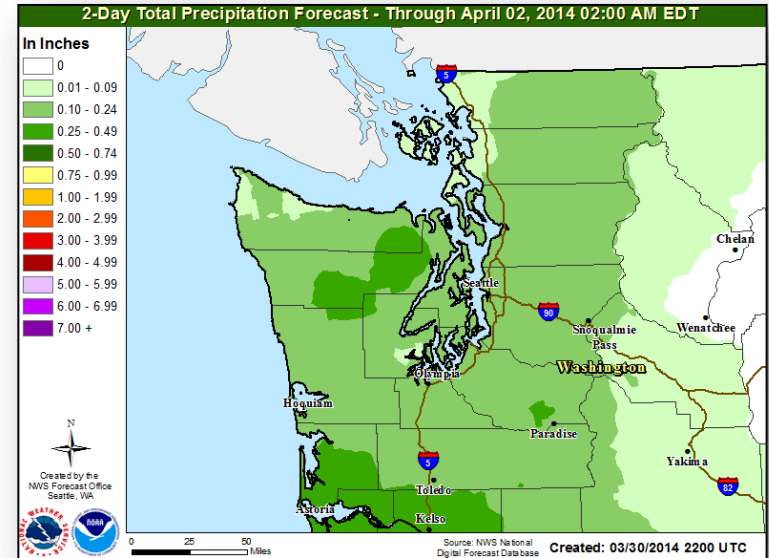
## Federal Response

- Emergency Declaration FEMA-3370-EM-WA approved March 24
  - Amendment No. 1 includes grant assistance for Snohomish County approved March 28
- US Forest Service providing an Incident Management Team
- US&R IST White deployed to WA; CA-TF7 on alert
- Region X IMAT at Incident Command Post; LNO at WA EOC
- N-IMAT West, Bothell MERS personnel and MEOV deployed to WA
- NRCC activated (exercise only); NWC at Watch/Steady State
- ▲ Joint IA (1) & PA (1) PDAs requested for Snohomish County

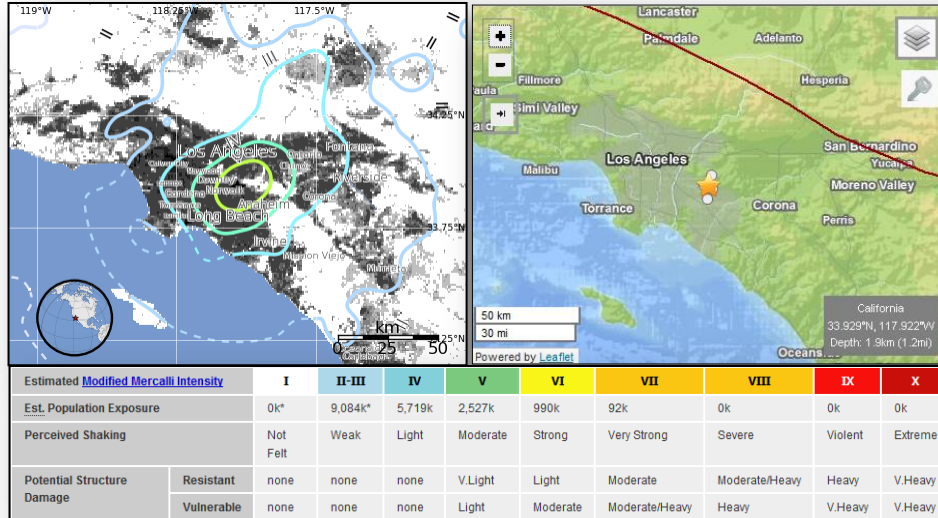


# Mudslide – Washington State

- No significant precipitation expected through mid-week
  - Next chance for precipitation is Thursday
- River is flowing through the blockage in a new channel in an orderly fashion at this time
- Flood Warning in effect upstream of landslide area along
  - North Fork of Stillaguamish River
- Flash Flood Watch in effect for landslide area downstream to the forks confluence
- Pool level upstream of the debris dam began to recede and continues to slowly fall during next several days
- Pool Level behind blockage has begun to fall
- Likelihood of sudden breach of the debris dam very low
  - However, debris dam instability means a flash flood threat still persists



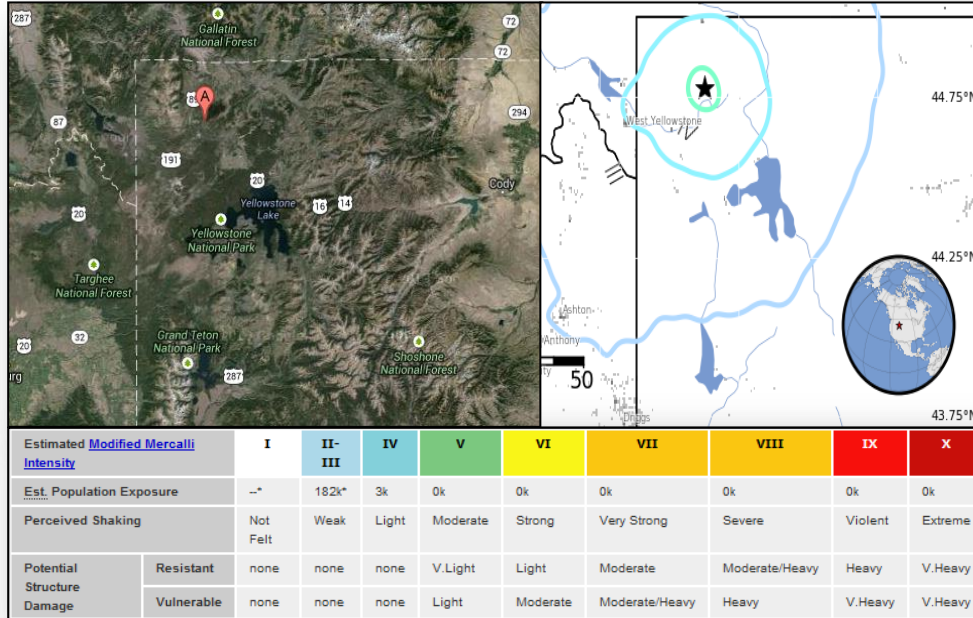
# Significant Earthquake Activity



## **M 5.1 - Southern California - FINAL**

- At 12:09 a.m. EDT, March 29, 2014
  - 24 miles SE of Los Angeles, CA
  - Depth: 4.6 miles
- USGS PAGER
  - Green Alert - Low likelihood of shaking-related fatalities
  - Yellow Alert - Economic losses; some localized damages are possible
- Level VII on Modified Mercalli Intensity scale
  - 92k exposed to very strong shaking
- Felt throughout 5 counties
  - Orange, Los Angeles, Ventura, Riverside and San Bernardino counties
- Minor damages, water main breaks and minor gas leaks; minor power outages (all power now restored)
- No fatalities or injuries reported
- State EOC remains at Normal Operations
- Region IX RRCC remains at Watch/Steady State
- No requests for FEMA assistance

# Significant Earthquake Activity

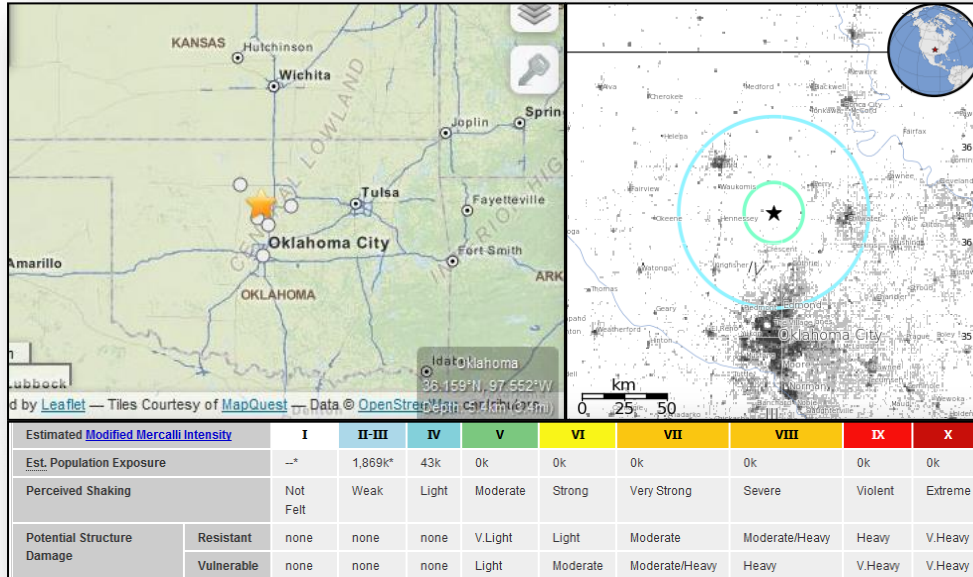


## **M 4.8 - Yellowstone National Park - FINAL**

- At 8:34 a.m. EDT, March 31, 2014
  - In northwest WY, 23 mi ENE of West Yellowstone, MT
  - Depth of 4.2 miles
- USGS issued a Green PAGER indicating a low likelihood shaking-related fatalities and economic losses
- Level IV on Modified Mercalli Intensity scale
  - 3k exposed to light shaking
- No fatalities, injuries or damage was reported
- Numerous aftershocks continue



# Significant Earthquake Activity



## **M 4.3 – Oklahoma - FINAL**

- Occurred at 2:51 a.m. EDT, March 30, 2014
- 47 miles N of Oklahoma City, OK (pop 599,199)
- Depth of 3.4 miles
- USGS issued a Green PAGER alert for low likelihood of shaking-related fatalities and economic losses
- Level IV on Modified Mercalli Intensity scale
  - 43k exposed to light shaking
- No fatalities or injuries reported
- Numerous aftershocks continue

# USGS Earthquake FAQs



## Earthquake Forecasting :

- USGS scientists, nor any other party has ever predicted a major earthquake; there is no current science on how and none expected in the foreseeable future

## Aftershocks:

- Depending on type of earthquake and magnitude, aftershocks can continue for days, weeks, or months

## Precursors:

- A temporary increase / decrease in seismicity is part of **normal** fluctuation of earthquake rates.
- Neither an increase / decrease is a positive indication that a large earthquake is imminent

## Earthquake Probability:

- Based on scientific data, probabilities calculated for potential future earthquakes
- Scientists estimate next 30 years probability of a major EQ occurring;
  - San Francisco Bay area 67% and Southern California 60%

For additional information see [USGS EARTHQUAKE INFORMATION](#)





# Disaster Requests & Declarations



Declaration Requests in Process		Requests APPROVED (since last report)	Requests DENIED (since last report)
6	Date Requested	0	0
IN – DR Severe Winter Storm	March 5, 2014		
MD – DR Snowstorm	March 10, 2014		
TX – DR (Appeal) Severe Winter Storm	March 13, 2014		
WV – DR Chemical Spill	March 21, 2014		
OR – DR Severe Winter Storm, Landslides, and Flooding	March 21, 2014		
NC – DR Severe Winter Storm	March 25, 2014		

# Disaster Amendments



Amendment	Effective Date	Action
Amendment No.1 FEMA-3370-EM-WA	March 28, 2013	Provides grant assistance & emergency protective measures (Category B), including direct federal assistance for Snohomish County

## Public Assistance Categories

A	B	C	D	E	F	G
Debris Removal	Emergency Protective Measures	Road Systems & Bridges	Water Control Facilities	Public Buildings & Contents	Public Utilities	Parks, Recreational, & Other

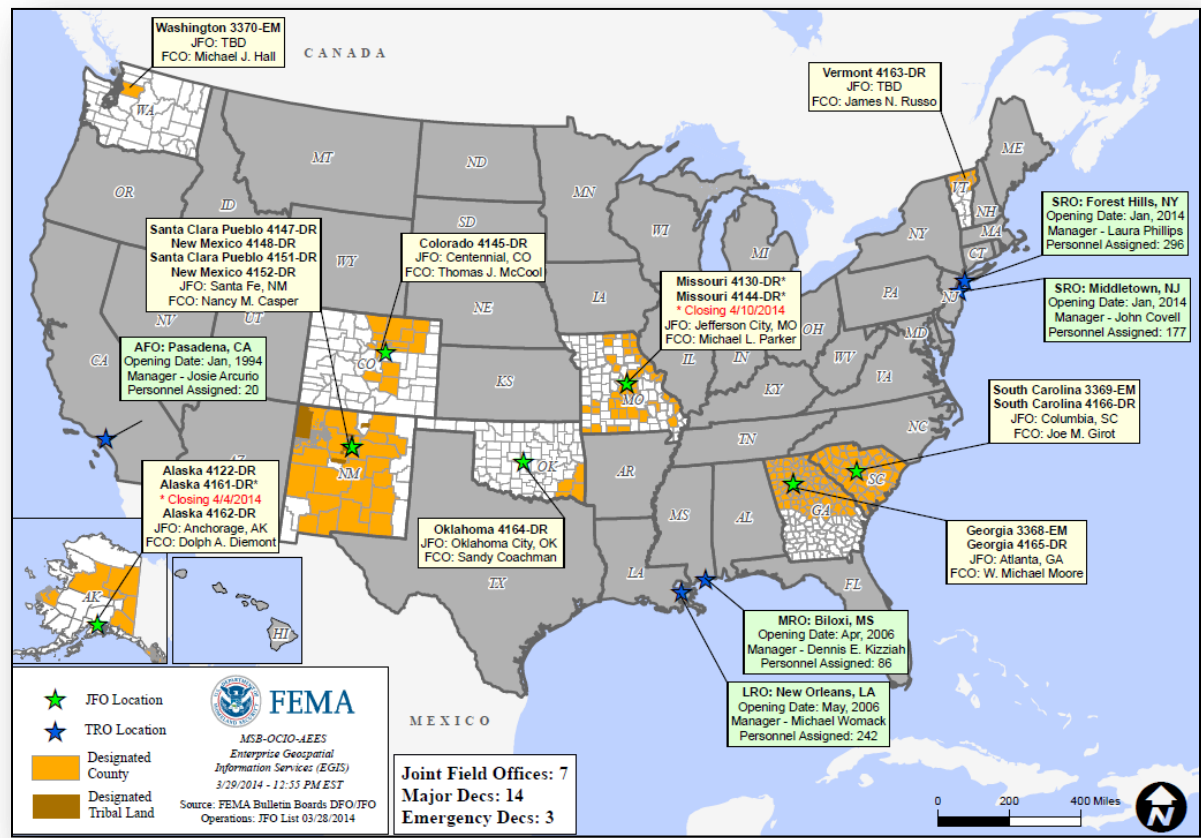
# Joint Preliminary Damage Assessments



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Region	State / Location	Event	IA/PA	Number of Counties		Start – End
				Requested	Complete	
IV	TN	Winter Storms March 2-5, 2014	PA	20	0	4/1 – TBD
VIII	MT	Flooding March, 2014	PA	20 counties & 1 Tribal Nation	0	3/31– 4/5
X	WA	Mudslide March 22, 2014	IA	1	0	TBD
			PA	1	0	TBD

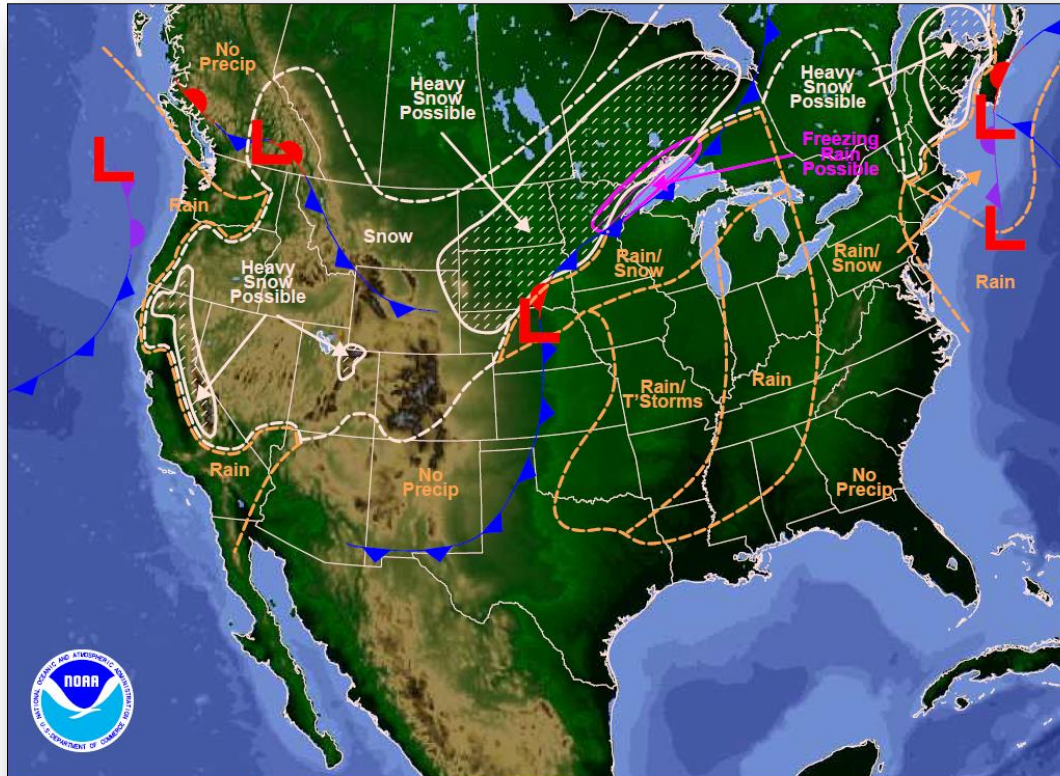
# Open Field Offices as of March 31, 2014



# National Weather Forecast



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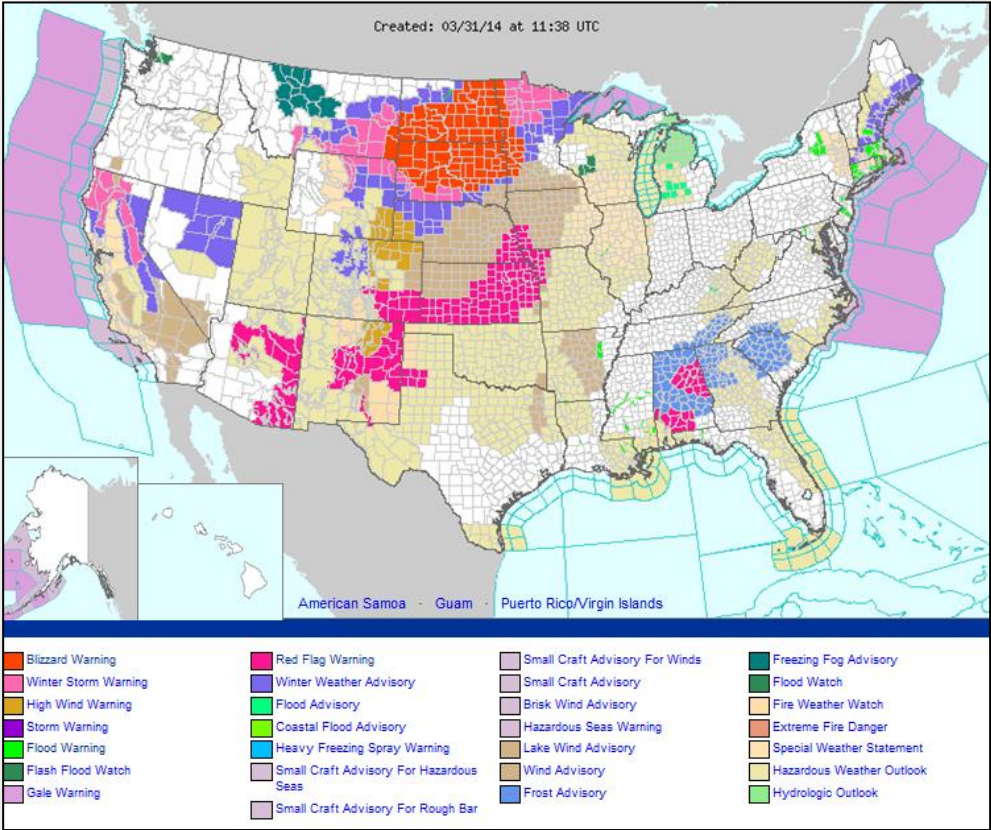
Weather Forecast for Mon, Mar 31, 2014, issued 3:22 AM EDT  
DOC/NOAA/NWS/NCEP/Weather Prediction Center  
Prepared by McCreynolds based on WPC, SPC and NHC forecasts



# Active Watches/Warnings



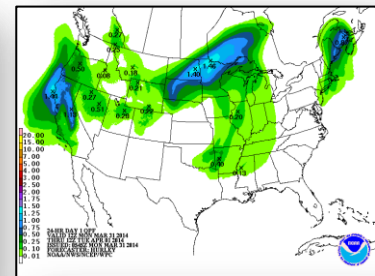
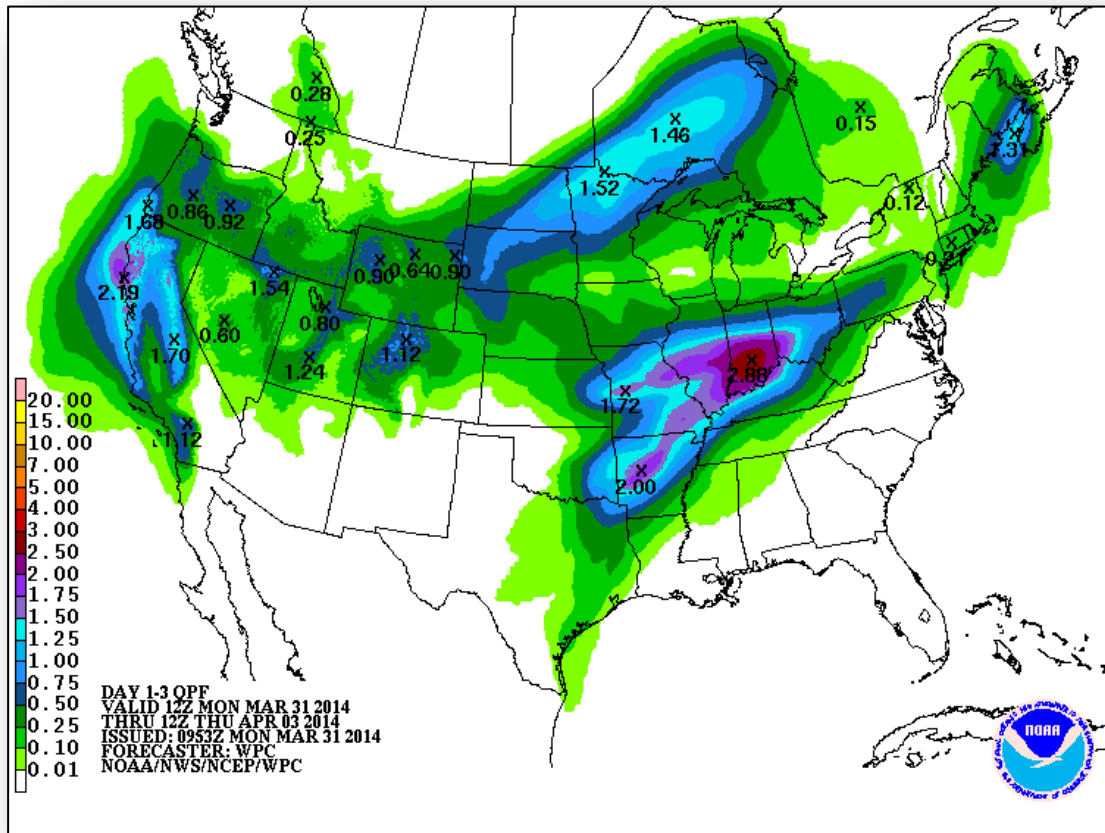
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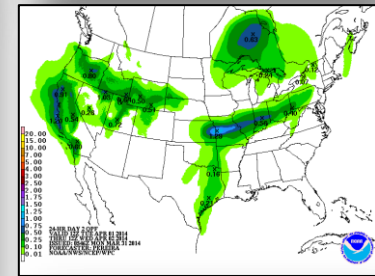


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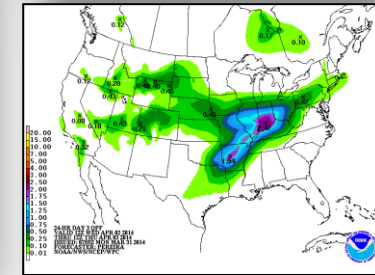
# Precipitation Forecast – 3 Day



Day 1

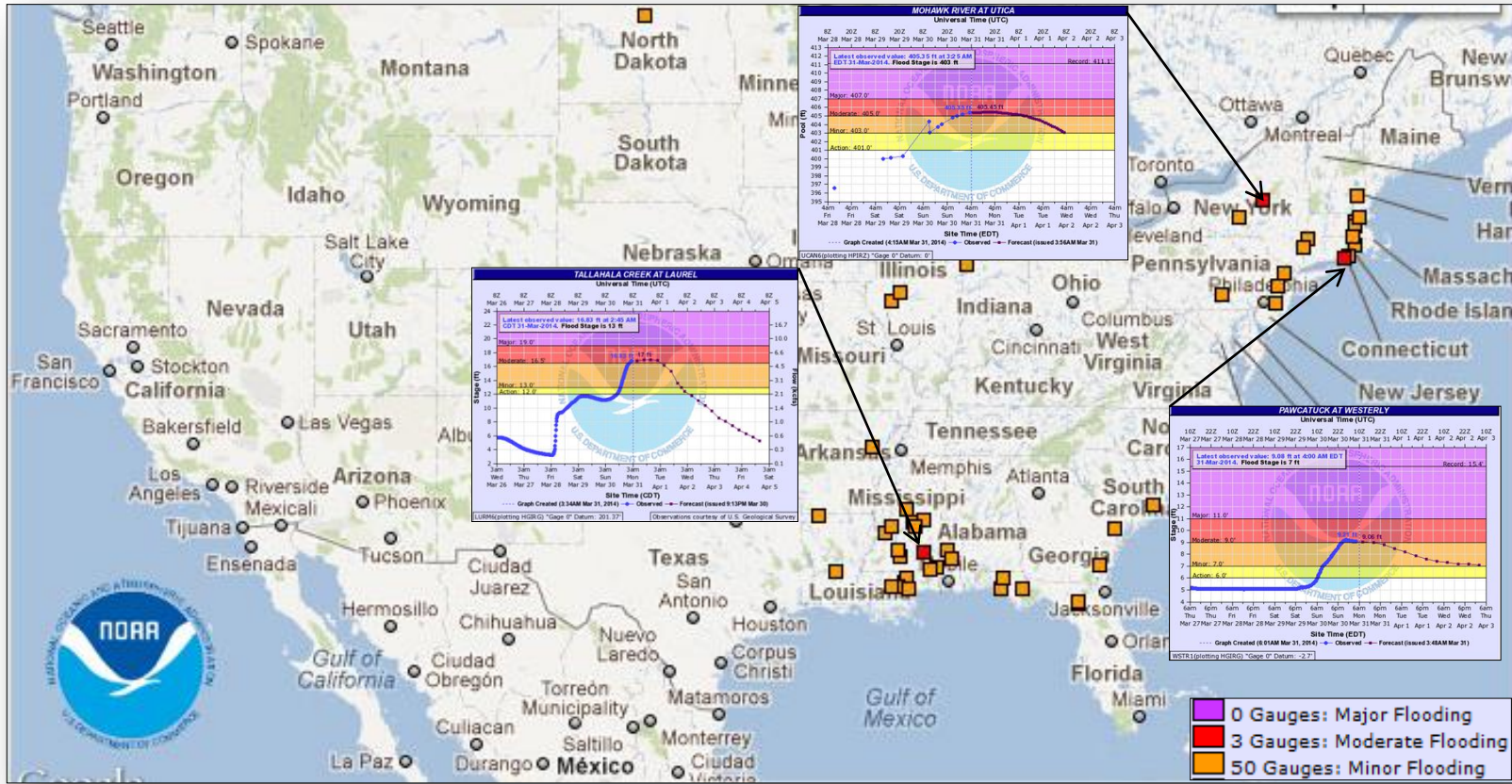


Day 2



Day 3

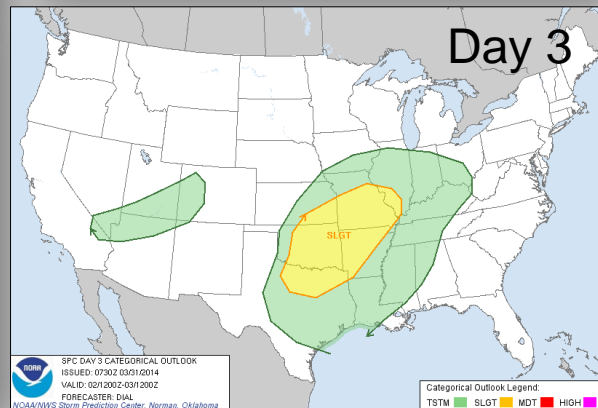
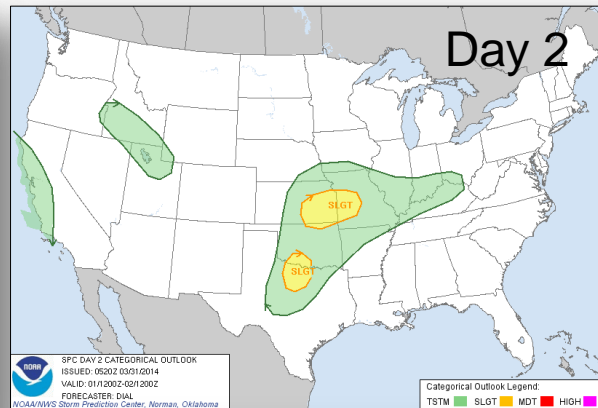
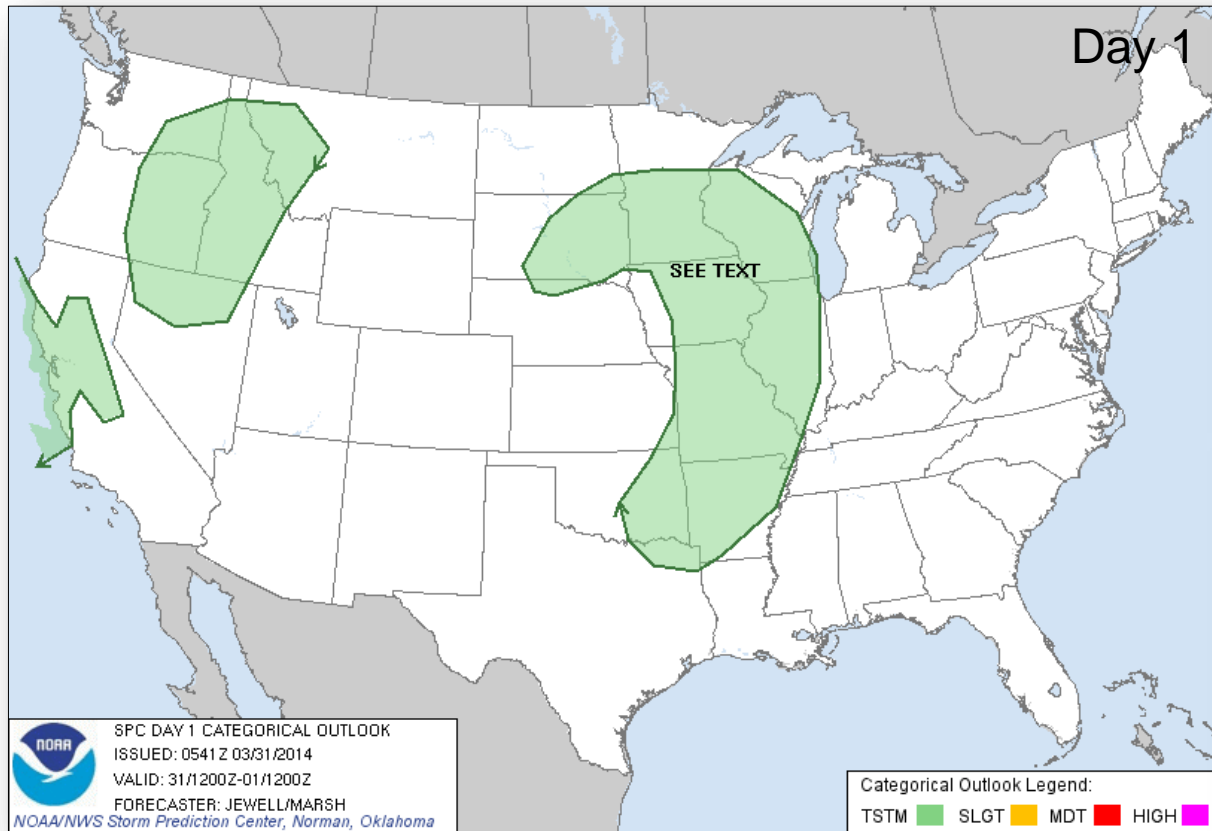
# River Forecast – 7 Day



# Convective Outlooks Days 1 – 3

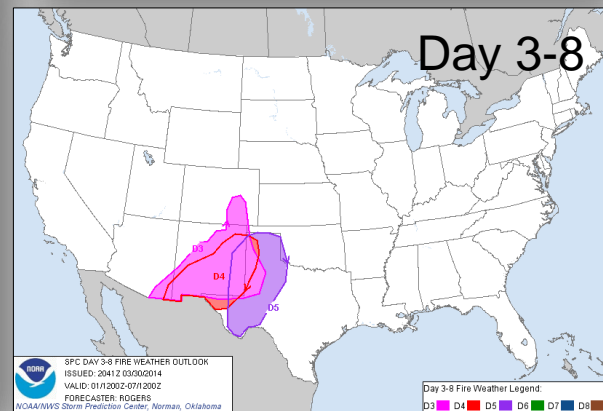
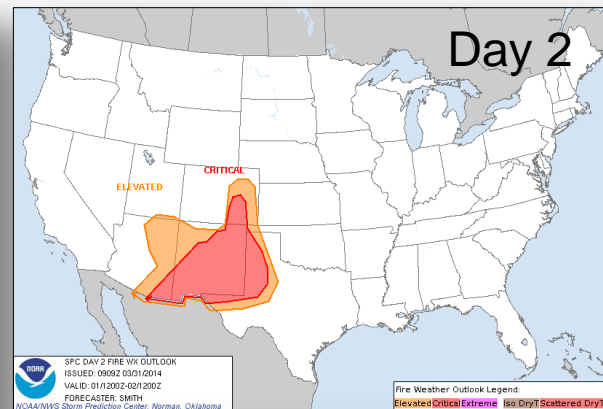
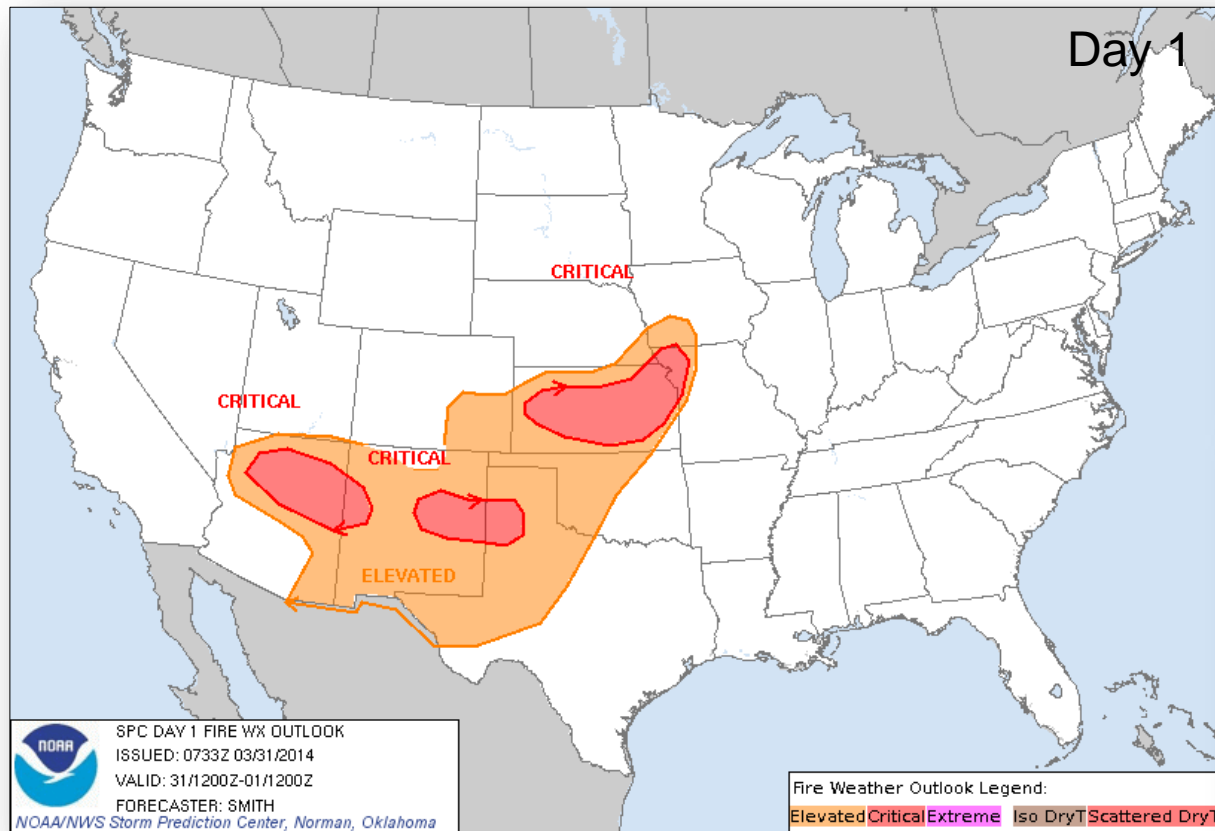


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# Critical Fire Weather Areas Days 1 – 8

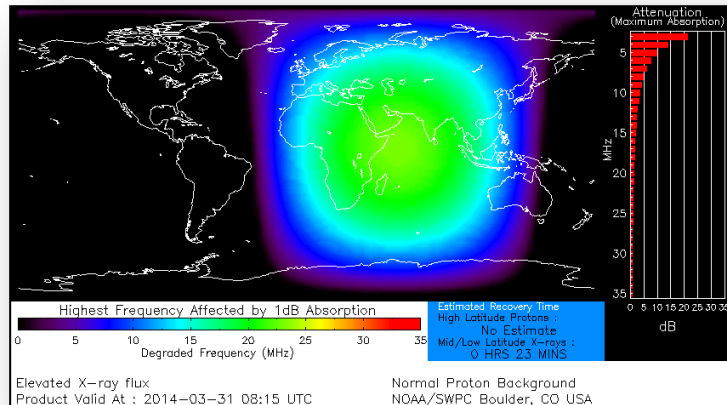




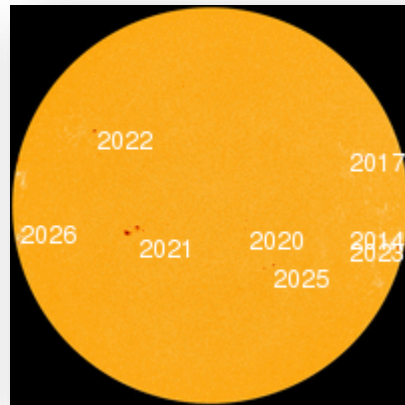
# Space Weather

NOAA Scales Activity (Range: 1/minor to 5/extreme)	Past 24 Hours	Current	Next 24 Hours
Space Weather Activity:	Minor	None	Minor
• Geomagnetic Storms	None	None	None
• Solar Radiation Storms	None	None	None
• Radio Blackouts	R1	None	R1

## HF Communication Impact



## Sunspot Activity



# FEMA Readiness – Deployable Teams/Assets



Deployable Teams/Assets									
Resource	Status	Total	Available		Partially Available	Not Available	Deployed Activated	Comments	Rating Criterion
FCO		40	18	45%	5	2	15		OFDC Readiness: FCO    Green    Yellow    Red Type 1   3+            2            1 Type 2   4+            3            2 Type 3   4              3            2
FDRC		9	4	44%	0	0	5		FDRC    3            2            1
US&R		28	24	86%	2	2	0	<ul style="list-style-type: none"><li>NV-TF1 (Yellow/Conditional)</li><li>NM-TF1 (Yellow/Capstone)</li><li>PA-TF1 (Red/Capstone)</li><li>CA-TF3 (Red/Capstone)</li><li>CA-TF7 on alert for WA mudslide</li><li>IST White deployed to WA for mudslide</li><li>WA-TF1 (Red/deployed to WA as state asset)</li></ul>	<ul style="list-style-type: none"><li>Green = Available/FMC</li><li>Yellow = Available/PMC</li><li>Red    = Out-of-Service</li><li>Blue   = Assigned/Deployed</li></ul>
National IMAT		3	1	33%	0	0	2	<ul style="list-style-type: none"><li>IMAT Blue/White/Red participating in CAPSTONE</li><li>IMAT West deployed to WA for mudslide</li><li>IMAT East deployed to AK for CAPSTONE</li></ul>	<ul style="list-style-type: none"><li>Green: 3 avail</li><li>Yellow: 1 avail</li><li>Red: 0 avail <i>Individual N-IMAT red if 50% of Section Chiefs and/or Team Leader is unavailable for deployment.</i></li></ul>
Regional IMAT		13	4	31%	0	4	5	<ul style="list-style-type: none"><li>Region IV deployed to GA &amp; SC</li><li>Region VI deployed to TX &amp; OK</li><li>Region X deployed to WA</li><li>Region I,III,VI-I &amp; VIII participating in CAPSTONE</li></ul> <u>Not Mission Capable:</u> <ul style="list-style-type: none"><li>Region II, V &amp; IX: Personnel shortages</li><li>Region VII: Personnel/equipment shortages</li></ul>	<ul style="list-style-type: none"><li>Green: 7 or more avail</li><li>Yellow: 4 - 6 teams available</li><li>Red: &gt; 8 teams deployed/unavailable</li><li><i>R-IMAT also red if TL Ops/Log Chief is unavailable and has no qualified replacement.</i></li></ul>
MCOV		55	51	93%	0	3	1	<ul style="list-style-type: none"><li>3 not available – maintenance</li><li>1 deployed to WA for mudslide</li></ul>	<ul style="list-style-type: none"><li>Green = Available/FMC</li><li>Yellow = Available/PMC</li><li>Red    = Out-of-Service</li><li>Blue   = Assigned/Deployed</li></ul>

# FEMA Readiness – National/Regional Teams



National/Regional Teams									
Resource	Status	Total	Available		Partially Available	Not Available	Deployed/ Activated	Comments	Rating Criterion
NWC		5	5	100%	0	0	24/7		• Green = FMC • Yellow = PMC • Red = NMC
NRCC		2	367	95%	0	20	Level I	• Activated (CAPSTONE EX)	
HLT		1	1	100%	0	0	Not Activated		
DEST							Not Activated		
RRCCs		10	10	100%	0	0	Not Activated		
RWCs/MOCs		10	10	100%	0	0	24/7		



# FEMA

**FEMA's mission is to support our citizens and first responders to ensure that as a nation we work together to build, sustain, and improve our capability to prepare for, protect against, respond to, recover from, and mitigate all hazards.**