**Meeting Minutes** **of the Subcommittee on Disaster Reduction**

3 May 2018, 10:00 a.m. to 12:00 p.m., White House Conference Center Lincoln Room

Italics indicate absent members. “T” indicate members participating via teleconference.

**Co-chairs**

David Applegate (USGS)   
Mary Erickson (NOAA)

Jack Meszaros (OSTP)

**Designated Representatives**

# ASPR Darrin Donato

# BLM Georgette Fogle

# CDC *Mollie Mahany*

# DHS *Erin Walsh*

# DHS/FEMA *Roy Wright*

# DHS/USCG *Jim Small*

**DOD** *Al Johnson*

**DOE** *Patricia Hoffman*

**DOT** *Sheila Duwadi*

**EOP/OMB** *Michael Clark*

**EOP/OSTP** Jack Meszaros

**EPA** *Greg Sayles*

**FERC** *Marsha Palazzi*

# HUD Dana Bres

# NASA *Craig Dobson*

**NGA** *Kerri Dugan*

# NGB Steve Mason

# NIH *Aubrey Miller*

**NIST** *Steve Cauffman*

**NOAA** Mary Erickson

**NPS** Marcy Rockman

# NSF Greg Anderson

**State** *Fernando Echavarria*

**USACE** *Tony Niles*

*Dimitra Syriopoulou*

**USAID** Sezin Tokar

**USCB** *Laura Furgione*

**USDA** *TBD*

**USFS** *Monica Lear*

*Carlos Rodriguez-Franco*

**USGS** David Applegate

**USNRC** *Edwin Hackett*

**USPHS** *Estella Jones*

**Other Attendees  
DHS/FEMA** Antwane Johnson

Marshall Lawless

Nick Shufro

**EPA** Keely Maxwell

**NASA** David Green (T)

**NOAA** Michelle Mainelli

**NGA** Kevin Dobbs (T)

**NPS** Ann Hitchcock (T) **NSC** John Ferris

**STPI** Robert Rozansky

**USCB** Kimberly Jones-Ruiz (T)

**USGS** Dale Cox (T)

Kenneth Hudnut (T)  
Charles Mandeville

Alice Pennaz

**USNRC** John Nakoski (T)

Kimberly

**USUHS** Thomas Kirsch (T)

**SDR Secretariat**

Aleeza Wilkins

**Handouts**

* May Meeting Agenda
* Draft April Meeting Minutes
* HayWired Earthquake Scenario   
  Fact Sheet

**Agenda**

10:00 Welcome, Introductions, and Approval of Minutes

10:05 Co-chairs Report

10:20 Readout: International Working Group Activities

10:35 Briefing: HayWired Scenario

11:15 Briefing: Integrated Public Alert & Warning Systems

11:55 Close and Next Actions

1. **Welcome and Introductions**

National Science and Technology Council (NSTC) Subcommittee on Disaster Reduction (SDR) Co-chair David Applegate (USGS) called the December meeting to order at 10:02 a.m. in the White House Conference Center Lincoln Room, and participants introduced themselves.

1. **Report from the Co-chairs and Approval of Minutes**

The draft of the minutes for the April monthly meeting was approved with no changes.

SDR Co-chair Mary Erickson (NOAA) reported that NOAA and other agencies are actively participating in the Eagle Horizon exercise. The hurricane scenario provides a well-timed opportunity to apply lessons from last fall’s Hurricanes Harvey, Irma, and Maria in advance of the 2018 Atlantic hurricane season, which begins on June 1.

SDR Co-Chair Jack Meszaros (OSTP) shared an update on the work of the SDR working group developing a “No Wrong Door” approach to improving the use of science in disaster response. First, the group has designed a playbook help better route calls posted on social media, which is being exercised in the Eagle Horizon activity. Second, in order to identify key data needs, the group will convene a workshop on May 30 for State, Local, and Federal government, as well as non-profits and private industry to share needs during disasters and increase awareness of existing federal data tools. Third, there is an effort to create a Disaster Tech Team to ensure local teams have access to the best-available products on hand as well as technical assistance during a crisis.

SDR Co-Chair Dave Applegate (USGS) reported that the American Geosciences Institute's Critical Issues Program is offering a free webinar, "Adapting Wildfire Management to 21st Century Conditions" on May 16 at 1:00pm EDT.  The registration link was distributed with the meeting summary.

Applegate also noted that registration is open for the 43rd Annual Natural Hazards Research and Applications Workshop, to be held in Broomfield, Colorado from July 8-11, 2018. The workshop is attended by over 500 federal, state, and local emergency officials; representatives of nonprofit and humanitarian organizations; hazards researchers; disaster consultants; and others dedicated to reducing risk and alleviating the harm from disasters. This year’s workshop theme is “Twenty Questions: Looking for Answers to Reduce Disaster Risk.” It serves as a great opportunity for the S&T community to come together with the practitioner community. More information on the Natural Hazards Workshop is available at: [https://hazards.colorado.edu/workshop/2018](https://hazards.colorado.edu/workshop/2018" \t "_blank).

Sezin Tokar (USAID) announced that afternoon’s international working group meeting, which was to include discussions on the upcoming UN Regional Platform meeting in Cartagena, Colombia, this June, and that the registration deadline in May 15. Tokar also reported that the recent 2018 Summit of the Americas resulted in the Lima Commitment, which includes disaster resilience language (available at: [http://www.summit-americas.org/viii/compromiso\_lima\_en.pdf](http://www.summit-americas.org/viii/compromiso_lima_en.pdf" \t "_blank)), including the commitment in Paragraph 31:

"Fostering transparency in the management of infrastructure and public resources allocated to ensure resilience to disaster, including the aforementioned infrastructure platform, in order to improve the response to emergencies and prevention, mitigation, recovery and reconstruction projects, and, to that end, promoting coordination through the Regional Platform for Disaster Risk Reduction in the Americas."

Shufro shared that last month’s FEMA held a Lunch and Learn session on the UN Sendai Framework and Indicators and how they map to FEMA’s recently released Strategic Plan for 2018-2022. The presentation slide deck was distributed with the meeting summary.

1. **Briefing on the HayWired Scenario**

Ken Hudnut and Dale Cox with the USGS Science Application for Risk Reduction (SAFRR) project described the HayWired Earthquake Scenario, which was rolled out on April 18, 2018. The scenario assesses the likely impacts of a magnitude-7.0 earthquake on the Hayward Fault, which runs directly below the cities on the east side of San Francisco Bay. Heavily urbanized areas would experience severe shaking and a range of cascading hazards. Ground shaking, liquefaction, fire, and landslides would be major sources of damage, and shaking alone would cost an estimated $82 billion in damages. The fault rupture could cause up to eight feet of displacement in some locations, and continued slip would significantly disrupt buildings and critical infrastructure (such as water pipelines) crossing the fault.

The scenario estimates 800 deaths and 18,000 injuries, with 2,500 people needing rescue from collapsed buildings and over 400,000 people displaced. The HayWired scenario is not a prediction, but a tool to help communities, the state, utilities, and the private sector explore mitigation actions that can change these outcomes. For example, full implementation of earthquake early warning systems like ShakeAlert would provide a few seconds of warning, resulting in 1,500 fewer people injured.

There is a one in three chance of a M6.7 or larger earthquake on the Hayward or adjoining Rodgers Creek faults in the next 30 years. Although we do not know which Bay Area fault will rupture next, preparing with the HayWired scenario allows government, non-profits, private industry, and the public to work together to “outsmart” disaster.  More information on the Haywired scenario is at [https://www.usgs.gov/haywired](https://www.usgs.gov/haywired" \t "_blank)**.** A 6-minute movie published by the USGS about the HayWired scenario may be viewed at [https://youtu.be/aRLb3PmIYFc](https://youtu.be/aRLb3PmIYFc" \t "_blank). The HayWired Campaign ([https://outsmartdisaster.com](https://outsmartdisaster.com/" \t "_blank)) serves as a call to action for statewide engagement to strengthen resilience and reduce risk from future earthquakes.

1. **Briefing on the Integrated Public Alert and Warning System**

Antwane Johnson, Director of the Integrated Public Alert & Warning System (IPAWS) division of FEMA’s National Continuity Programs, provided an update on IPAWS. Johnson began by explaining the history of IPAWS as a national program created to ensure that the President has the ability, under all conditions, to communicate with the American public about disasters and other threats to public safety. Although the President has never used it, the System provides emergency alert and warning messaging capabilities for emergency officials to the public through radio, television, cellular phones, and Internet applications. The IPAWS vision is to allow for the creation and dissemination of information from a single source over several channels.

IPAWS has been used for all types of public safety threat warnings, including evacuations, wildfires, and child abduction/AMBER alerts. Since 2012, just under three million messages have been issued, mostly from the National Weather Service regarding flash floods and tornado warnings.

Wireless Emergency Alert (WEA) capabilities allow a 90-character emergency alert text message to be broadcast to cellular phones by targeting cell tower coverage. WEA does not require a data plan and has automatically opted in cell phone users since 2012. Future improvements to WEA include:

• Message length increase from 90 to 360 characters;

• A new alert category for “public safety messages”;

• Spanish language alerts;

• Message delivery to 100% of target area with no more than a 0.1 mile overshoot; and

• Alert preservation on phones for 24 hours.

The Advanced Warning and Response Network (AWARN) is the next generation for delivering emergency information to the public, based on next-generation television broadcasting standards. AWARN simultaneously sends alerts to TV sets, tablets, in-car systems, and smartphones without using cellular data, and delivers rich media content, such as maps, videos, and pictures. Johnson also shared developments in vehicle-to-everything (V2X) communication using satellite radio to define emergency zones and alert vehicles traveling within the zone in the direction of the emergency.

1. **Adjournment**

Applegate adjourned the SDR April meeting at 12:02 p.m. and noted that the Subcommittee’s next meeting will be held on Thursday, June 7, in the White House Conference Center Lincoln Room.

1. **SDR 2018 Meeting Calendar**

SDR meetings in 2018 will be held from 10:00 a.m. to 12:00 p.m. on the dates listed below in the Lincoln Room of the White House Conference Center unless otherwise noted:

**2018**

* Thursday, January 4
* Thursday, February 1
* Thursday, March 1
* Thursday, April 5
* Thursday, May 3
* Thursday, June 7
* Thursday, July 5\*
* Thursday, August 2\*\*
* Thursday, September 6
* Thursday, October 4
* Thursday, November 1
* Thursday, December 6

\* July meeting subject to change to avoid proximity to the Independence Day Federal holiday.

\*\* August meeting subject to cancellation.

1. **Agenda Items and Other Communications with the Subcommittee**

Please send proposed agenda items and any other items intended for distribution to the full Subcommittee to the SDR Secretariat ([SDR@usgs.gov](mailto:SDR@usgs.gov)).

1. **Contact Information**

**SDR Leadership**

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| --- | --- | --- | --- |
| David Applegate | Co-chair | 703-648-6600 | applegate@usgs.gov |
| Mary Erickson | Co-chair | 240-678-2849 | Mary.erickson@noaa.gov |
| Jack Meszaros | Co-chair | 202-456-6020 | Jacqueline\_R\_Meszaros@ostp.eop.gov |

**Executive Secretariat**

SDR@usgs.gov

1. **Summary of May Actions**

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| --- | --- | --- |
| **Action** | **Lead** | **By When** |
| The next SDR meeting will be held on Thursday, June 7, in the White House Conference Center Lincoln Room. | SDR Members | For Information |
| Register for the 3rd Annual Natural Hazards Research and Applications Workshop in Broomfield, Colorado from July 8-11, 2018 at [https://hazards.colorado.edu/workshop/2018](https://hazards.colorado.edu/workshop/2018" \t "_blank). | SDR Members | June 2018 |
| Send additional disaster-related priorities from your agency for consideration in the new Administration to the SDR Secretariat (SDR@usgs.gov) on a rolling basis. | SDR Members | Standing |
| Send Dave Applegate an email (applegate@usgs.gov) if you are interested in contributing to the work of the SDR and would like additional documentation or an agency-specific letter. | SDR Members | Standing |
| Email the SDR Secretariat (SDR@usgs.gov) to suggest external DRR stakeholder groups to invite to present at quarterly SDR meetings on behalf of the U.S. National Platform for UNISDR. | SDR Members | Standing |