

# LOX Hazards Quick Reference

## Sections

<ul style="list-style-type: none"><li>1. Non Precipitation Hazards</li><li>2. Winter Hazards</li><li>3. Hydrologic Hazards</li><li>4. Fire Weather Hazards</li></ul>	<ul style="list-style-type: none"><li>5. Coastal Hazards</li><li>6. Marine Hazards</li><li>7. Severe / Convective Hazards</li><li>8. Tropical Hazards</li></ul>	<ul style="list-style-type: none"><li>9. Tsunami Hazards</li><li>10. Other Hazards</li></ul>
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## General Guidelines

<b>Confidence</b> <ul style="list-style-type: none"><li>• Warning: 80-100%</li><li>• Advisory: 80-100%</li><li>• Watch: 50-100%</li></ul>	<b>Coverage</b> <ul style="list-style-type: none"><li>• Local: 1-32%</li><li>• Areas: 33-66%</li><li>• Widespread 67-100%</li></ul>	<b>Update Cycle:</b> <ul style="list-style-type: none"><li>• Warning: 6 hours</li><li>• Advisory: 6 hours</li><li>• Watch: 8-12 hours</li></ul>
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# Non Precipitation Hazards [\(Back To Top\)](#)

Channel Islands Zones 549 and 550: Only High Wind Warnings issued

Hazard	Criteria	Time Window	Notes
<b>Air Quality &amp; Visibility</b>			
<b>Air Stagnation Advisory</b> (AS.Y) <a href="#">NPWLOX</a>	Weather conditions that contribute to poor natural ventilation for a period of days, with potentially poor air quality	0 – 2 hrs	
<b>Ashfall Advisory</b> (AF.Y) <a href="#">NPWLOX</a>	Airborne ash plume resulting deposition at the surface, either directly from a volcanic eruption or from suspension of a significant amount of relic ash	0 – 2 hrs	
<b>Dense Fog Advisory</b> (FG.Y) <a href="#">NPWLOX</a>	Areas of visibility to <b>1/4 mile or less</b> for a period of 3 hours or more	0 – 36 hrs	
<b>Dense Smoke Advisory</b> (SM.Y) <a href="#">NPWLOX</a>	Widespread visibility of <b>1/4 mile or less</b> due to smoke	0 – 36 hrs	
<b>Dust Storm Warning</b> (DS.W) <a href="#">NPWLOX</a>	Widespread visibility of <b>1/4 mile or less</b> due to blowing dust	0 – 2 hrs	
<b>Blowing Dust Advisory</b> (DU.Y) <a href="#">NPWLOX</a>	Widespread visibility <b>1/4 to 1 mile</b> due to blowing dust	0 – 36 hrs	
<b>Frost &amp; Freeze</b>			
Zones 36, 37, 38, 59: 1 <sup>st</sup> and 2 <sup>nd</sup> each season Nov 1 to Mar 31 Anytime Apr 1 to Oct 31		Zones 34, 35, 39, 40, 41, 44, 45, 46, 547, 548, 87, 88: Issue any time of year.	Zones 51, 52, 53, 54: Never issue freeze warnings.
<b>Hard Freeze Warning</b> (HZ.W) <a href="#">NPWLOX</a>	Surface temperature of <b>&lt;=28 F</b> for two or more consecutive hours over a widespread area	0 – 36 hrs	
<b>Hard Freeze Watch</b> (HZ.A) <a href="#">NPWLOX</a>	Surface temperature of <b>&lt;=28 F</b> for two or more consecutive hours over a widespread area	12 – 48 hrs	
<b>Freeze Warning</b> (FZ.W) <a href="#">NPWLOX</a>	Surface temperature of <b>29-32 F</b> for two or more consecutive hours over a widespread area	0 – 36 hrs	
<b>Freeze Watch</b> (FZ.A) <a href="#">NPWLOX</a>	Surface temperature of <b>29-32 F</b> for two or more consecutive hours over a widespread area	12 – 48 hrs	
<b>Frost Advisory</b> (FR.Y) <a href="#">NPWLOX</a>	Surface temperature of <b>33-35 F</b> for two or more consecutive hours over a widespread area	0 – 36 hrs	

<b>Excessive Heat Warning</b> (EH.W) NPWLOX	HeatRisk (Red to Magenta) over large area	0 – 36 hrs	For more information on the HeatRisk Program: <a href="https://goo.gl/Z1mK85">https://goo.gl/Z1mK85</a>
<b>Excessive Heat Watch</b> (EH.A) NPWLOX	HeatRisk (Red to Magenta) over large area possible	12 – 72 hrs	
<b>Heat Advisory</b> (HT.A) NPWLOX	HeatRisk (Orange to Red) over large area	0 – 36 hrs	
<b>High Wind Warning</b> (HW.W) NPWLOX	Areas of winds for more than 1 hour: Coastal/Valley Zones: Wind Sus $\geq$ 40 mph or Gst $\geq$ 58 mph  Mountain/Desert Zones (Below 7000ft): Wind Sus $\geq$ 45 mph or Gst $\geq$ 58 mph  Mountain/Desert Zones (Above 7000ft): Wind Sus $\geq$ 55 mph or Gst $\geq$ 75 mph	0 – 36 hrs	
<b>High Wind Watch</b> (HW.A) NPWLOX	Areas of winds for more than 1 hour: Coastal/Valley Zones: Wind Sus $\geq$ 40 mph or Gst $\geq$ 58 mph  Mountain/Desert Zones (Below 7000ft): Wind Sus $\geq$ 45 mph or Gst $\geq$ 58 mph  Mountain/Desert Zones (Above 7000ft): Wind Sus $\geq$ 55 mph or Gst $\geq$ 75 mph	12 – 48 hrs	
<b>Wind Advisory</b> (WI.Y) NPWLOX	Areas of winds for more than 1 hour Coastal/Valley Zones: Wind Sus $\geq$ 30 mph or Gst $\geq$ 35 mph  Mountain/Desert Zones: Wind Sus $\geq$ 35 mph or Gst $\geq$ 45 mph	0 – 36 hrs	

# Winter Hazards [\(Back To Top\)](#)

Channel Islands Zones 549 and 550: No Winter Hazards issued

Hazard	Criteria	Time Window	Notes
<b>Blizzard Warning</b> (BZ.W) <a href="#">WSWLOX</a>	Sustained winds $\geq 35$ mph Visibility $\leq 1/4$ mile Snow and blowing snow expected for 3 hours or more	0 - 36 hrs	
<b>Blizzard Watch</b> (BZ.A) <a href="#">WSWLOX</a>	Sustained winds $\geq 35$ mph Visibility $\leq 1/4$ mile Snow and blowing snow expected for 3 hours or more	12 - 72 hrs	
<b>Freezing Rain Advisory</b> (ZR.Y) <a href="#">WSWLOX</a>	Light Icing: Accrual of ice up to $1/4$ inch thick due to freezing rain or drizzle	0 - 36 hrs	
<b>Ice Storm Warning</b> (IS.W) <a href="#">WSWLOX</a>	Significant Icing: Accrual of ice of $1/4$ inch or more due to freezing rain	0 - 36 hrs	
<b>Wind Chill Warning</b> (WC.W) <a href="#">WSWLOX</a>	Wind chill values $\leq -20$ F	0 - 36 hrs	
<b>Wind Chill Watch</b> (WC.A) <a href="#">WSWLOX</a>	Wind chill values $\leq -20$ F	12 - 72 hrs	
<b>Wind Chill Advisory</b> (WC.Y) <a href="#">WSWLOX</a>	Wind chill values $-19$ F to $-10$ F	0 - 36 hrs	
<b>Winter Storm Warning</b> (WS.W) <a href="#">WSWLOX</a>	Heavy Snow Accumulation Mountain zones (Above 7000 ft): $12''$ in 12 hrs or $18''$ in 24 hrs Mountain zones (Below 7000 ft): $8''$ in 12 hrs or $12''$ in 24 hrs All Other Zones: $4''$ in 12 hrs or $6''$ in 24 hrs -OR- Sleet Accumulation $\geq 1/2$ inch -OR- Any snow accumulations AND High Wind Warning Criteria	0 - 36 hrs	
<b>Winter Storm Watch</b>	Heavy Snow Accumulation	12 - 72 hrs	

<p>(WS.A) WSWLOX</p>	<p>Mountain Zones (Above 7000 ft): 12" in 12 hrs or 18" in 24 hrs Mountain Zones (Below 7000 ft): 8" in 12 hrs or 12" in 24 hrs All Other Zones: 4" in 12 hrs or 6" in 24 hrs -OR- Sleet Accumulation &gt;= 1/2 inch -OR- Any snow accumulations AND High Wind Warning Criteria</p>		
<p><b>Winter Weather Advisory</b> (WW.Y) WSWLOX</p>	<p>Snow Accumulation Mountain Zones: 4-7" in 12 hrs Zones 37, 38, 59: 1-3" in 12 hrs All Other Zones: Dusting to 3" in 12 hrs -OR- Sleet Accumulation &lt;= 1/2 inch -OR- Visibility &lt;= 1/4 mile from blowing snow with sustained winds &lt;= 35 mph</p>	<p>0 - 36 hrs</p>	

# Hydrologic Hazards [\(Back To Top\)](#)

Hazard	Criteria	Time Window	Notes
<b>Hydrologic Outlook</b> <b>ESFLOX</b>	There is a $\geq 50\%$ chance of a storm system bringing flooding or flash flooding to the area	36 - 96 hrs	
<b>Flood Warning</b> (FL.W) <b>FLWLOX</b>	Mainstem river or tributary flow rates exceed the flood flow rate guidance -OR- The magnitude of the flood changes to a higher category (i.e., minor to moderate, moderate to major) -OR- A dam has failed in such a way that the release of water will cause the downstream river to <u>slowly</u> rise	0 – 2 hrs	
<b>Flood Watch</b> (FA.A) <b>FFALOX</b>	A threat of mainstem river flooding -OR- Flooding that is hazardous to either life or property, or will cause a great amount of flood related problems	0 – 36 hrs	
<b>Flood Advisory</b> (FA.Y) <b>FLSLOX</b>	Nuisance flooding that causes minor inconveniences (urban flooding from poor drainage, minor flooding of low-lying areas)	0 – 2 hrs	
<b>Flood Statement</b> <b>FLSLOX</b>	Updates, cancellations, or subtraction of areas to Flood Warnings or Advisories	0 – 2 hrs	
<b>Flash Flood Warning</b> (FF.W) <b>FFWLOX</b>	Flash flooding that poses a threat to life and/or property -OR- USGS Debris Flow flash flood guidance reached -OR- Dam or levee failure	0 – 2 hrs	
<b>Flash Flood Watch</b> (FF.A) <b>FFALOX</b>	$\geq 50\%$ chance of Flash flooding that poses a threat to life and/or property -OR- $\geq 50\%$ chance of USGS Debris Flow flash flood guidance reached -OR- $\geq 50\%$ chance of Dam or levee failure	0 – 36 hrs	

<b>Flash Flood Statement</b> FFSLOX	Updates, cancellations, or subtraction of areas to Flash Flood Warnings	0 – 2 hrs	
<b>Hydrologic Statement</b> RVSLOX	CNRFC issues a river forecast product (RNORVFRSA) that indicates an observed or forecast river stage/flow at or above Flood Stage/Flow		

# Fire Weather Hazards [\(Back To Top\)](#)

Channel Islands Zones 549 and 550: No Fire Weather Hazards issued

Hazard	Criteria	Time Window	Notes
<p><b>Red Flag Warning</b> (FW.W) RFWLOX</p>	<p>Dry Fuels AND:</p> <p><b>Zone 59:</b> RH <math>\leq</math> 15% AND Wind Sustained <math>\geq</math> 25 mph AND Duration 8+ hours -OR- Forecaster discretion in coordination with GACC or local agency</p> <p><b>All Other Zones:</b> RH <math>\leq</math> 15% AND Wind Sus <math>\geq</math> 25 mph or Gst <math>\geq</math> 35 mph AND Duration 6+ hours -OR- RH <math>\leq</math> 10% AND Wind Sus <math>\geq</math> 15 mph or Gst <math>\geq</math> 25 mph AND Duration 6+ hours -OR- Widespread or significant dry lightning -OR- Forecaster discretion in coordination with GACC or local agency</p>	<p>0 – 48 hrs</p>	
<p><b>Fire Weather Watch</b> (FW.A) RFWLOX</p>	<p>Red Flag Warning Conditions possible (See Above)</p>	<p>18 - 96 hrs</p>	

# Coastal Hazards [\(Back To Top\)](#)

Channel Islands Zones 549 and 550: No Coastal Hazards issued

Hazard	Criteria	Time Window	Notes
Coastal Flood Warning (CF.W) <a href="#">CFWLOX</a>	Damaging coastal flooding. See Criteria Matrix in Marine SDM for water level & surf thresholds	0 - 36 hrs	
Coastal Flood Watch (CF.A) <a href="#">CFWLOX</a>	Potential for damaging coastal flooding. See Criteria Matrix in Marine SDM for water level & surf thresholds	24 – 48 hrs	
Coastal Flood Advisory (CF.Y) <a href="#">CFWLOX</a>	Minor but impactful coastal flooding. See Criteria Matrix in Marine SDM for water level & surf thresholds	0 - 36 hrs	
High Surf Warning (SU.W) <a href="#">CFWLOX</a>	Areas of surf: Zones 34, 35: Surf $\geq$ 20 ft Zones 39, 40, 41, 87 $\geq$ 15 ft	0 - 36 hrs	
High Surf Advisory (SU.Y) <a href="#">CFWLOX</a>	Areas of surf: Zones 34, 35: Surf $\geq$ 10 ft Zones 39, 40, 41, 87 $\geq$ 7 ft	0 - 36 hrs	
Beach Hazards Statement (BH.S) <a href="#">CFWLOX</a>	Elevated rip current and jetty dangers on a High Impact day -OR- Long range outlook for high confidence High Surf or Coastal Flooding. See Criteria Matrix in Marine SDM for water level & surf thresholds	0 - 48 hrs 2 – 5 day (outlook)	

# Marine Hazards [\(Back To Top\)](#)

Hazard	Criteria	Time Window	Notes
<b>Hurricane Force Wind Warning</b> (HF.W) <a href="#">MWWLOX</a>	Sustained Wind or Gusts <b>&gt;= 64 kt</b> for 2 hrs or more	0 – 24 hrs	
<b>Hurricane Force Wind Watch</b> (HF.A) <a href="#">MWWLOX</a>	Sustained Wind or Gusts <b>&gt;= 64 kt</b> for 2 hrs or more	12 - 48 hrs	
<b>Storm Warning</b> (SR.W) <a href="#">MWWLOX</a>	Sustained Wind or Gusts <b>48 - 63 kt</b> for 2 hrs or more	0 - 24 hrs	
<b>Storm Watch</b> (SR.A) <a href="#">MWWLOX</a>	Sustained Wind or Gusts <b>48 - 63 kt</b> for 2 hrs or more	12 - 48 hrs	
<b>Gale Warning</b> (GL.W) <a href="#">MWWLOX</a>	Sustained Wind or Gusts <b>34 - 47 kt</b> for 2 hrs or more	0 - 24 hrs	
<b>Gale Watch</b> (GL.A) <a href="#">MWWLOX</a>	Sustained Wind or Gusts <b>34 - 47 kt</b> for 2 hrs or more	12 - 48 hrs	
<b>Small Craft Advisory</b> (SC.Y) <a href="#">MWWLOX</a>	Sustained Wind or Gusts <b>21 - 33 kt</b> for 2 hrs or more -OR- Hazardous Sea Conditions	0 - 24 hrs	
<b>Small Craft Advisory For Hazardous Seas</b> (SW.Y) <a href="#">MWWLOX</a>	Hazardous Sea Conditions: Seas <b>&gt;= 10 ft</b> @ any period -OR- Seas <b>&gt;= 9 ft</b> @ period <b>&lt;= 9 sec</b> -OR- Seas <b>&gt;= 8 ft</b> @ period <b>&lt;= 8 sec</b> -OR- Seas <b>&gt;= 7 ft</b> @ period <b>&lt;= 7 sec</b> -OR- Seas <b>&gt;= 6 ft</b> @ period <b>&lt;= 6 sec</b> -OR-	0 - 24 hrs	
<b>Marine Weather Statement</b> <a href="#">MWSLOX</a>	SMW Supplements -OR- General Convective Potential -OR- Northeast Wind at Avalon Harbor - OR- Breaking Waves at Harbors -OR- Widespread Dense Fog -OR- Tsunami Events Details -OR- Hazardous Materials Spills -OR- Coastal Flooding Affecting Harbors -OR- Extended Outlook for Warning Conditions	0 - 24 hrs 2 – 5 day (outlook)	

## Severe Weather/Convection Hazards [\(Back To Top\)](#)

Hazard	Criteria	Time Window	Notes
Severe Thunderstorm Warning (SV.W) <a href="#">SVRLOX</a>	Hail Diameter $\geq 1$ " -OR- Convective Winds $\geq 58$ mph -OR- Severe Wind Damage Reports	0 – 2 hrs	
Severe Thunderstorm Watch (SV.A) <a href="#">WCNLOX</a>	SPC issues a Severe Thunderstorm Watch Outline Statement	0 – 48 hrs	
Tornado Warning (TO.W) <a href="#">TORLOX</a>	A tornado is sighted, reported by a reliable source, or indicated to be likely occurring or forming in radar data	0 – 2 hrs	
Tornado Watch (TO.A) <a href="#">WCNLOX</a>	SPC issues a Severe Thunderstorm Watch Outline Statement	0 – 48 hrs	
Severe Weather Statement (SV.S) <a href="#">SVSLOX</a>	Follow-up product for Severe Thunderstorm and Tornado Warnings	0 – 2 hrs	
Significant Weather Advisory <a href="#">SPSLOX</a>	For organized strong thunderstorms that are expected to remain below severe limits.	0 – 2 hrs	

# Tropical Cyclone Hazards [\(Back To Top\)](#)

Hazard	Criteria	Time Window	Notes
Hurricane Local Statement <a href="#">HLSLOX</a>	Tropical Prediction Center places any part of the WFO LOX county warning area under a Tropical Storm or Hurricane Watch or Warning or Evacuation Order -OR- To dispel rumors or clarify tropical cyclone information affecting the WFO LOX county warning area (MIC or AMIC approved)	0 – 2 hrs	

# Tsunami Hazards [\(Back To Top\)](#)

Hazard	Criteria	Time Window	Notes
Tsunami Warning <a href="#">SPSLOX</a>	NTWC in Alaska issues a Tsunami Warning for any part of the LOX WFO. (Water rise $\geq$ 3.3 ft)	0 – 2 hrs	
Tsunami Watch <a href="#">SPSLOX</a>	NTWC in Alaska issues a Tsunami Watch for any part of the LOX WFO.	0 – 2 hrs	
Tsunami Advisory <a href="#">SPSLOX</a>	NTWC in Alaska issues a Tsunami Advisory for any part of the LOX WFO. (Water rise 1.0 to 3.2 ft)	0 – 2 hrs	

## Other Hazard Related Products [\(Back To Top\)](#)

Hazard	Criteria	Time Window	Notes
Hazardous Weather Outlook <a href="#">HWOLOX</a>	Summary of weather hazards affecting or expected to affect the WFO LOX area during the next 7 days.		
Short Term Forecast <a href="#">NOWLOX</a>	Ongoing or forecast weather conditions less than warning or advisory criteria expected	0 – 6 hrs	
Special Weather Statement <a href="#">SPSLOX</a>	Significant or unusual weather event(s) forecast to occur	1 – 3 days	