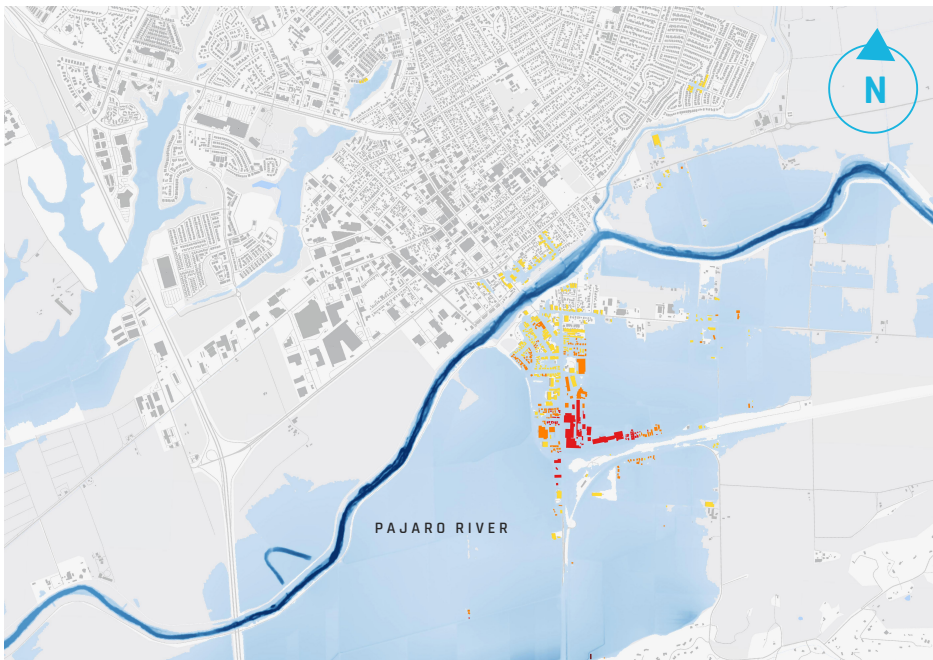# FLOODING IN CALIFORNIA, USA, AFTER ATMOSPHERIC RIVER HIT IN MARCH 2023

FLOOD BRIEFING SERIES POWERED BY MULTISOURCE DATA ANALYSIS LEVERAGING ICEYE SATELLITE IMAGERY

ANALYSIS RELEASE 9

PAJARO RIVER

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In early March, the state of California experienced heavy snow followed by warmer "atmospheric river" storm systems, leading to a significant risk of flooding. Snow levels rose above 7.000 feet, causing rapid snowmelt and increasing the risk of flooding across many locations. The heavy rainfall measured 2-3 inches in several areas and up to 10 inches in localized regions.

Flooding was observed near the coast north and south of the San Francisco Bay Area, and significant river flooding from heavy rain and snowmelt runoff along the Sierra Nevada foothills.

Our 9th flood analysis release report includes flood extent and depth data for parts of the Central Coast region, Sonoma County, Marin County, Lake County, Yolo County, Napa County, Stanislaus County, Fresno County, Monterey County, Tulare County, Santa Barbara County, Ventura County, Los Angeles County, San Diego County and more. We will continue to monitor the event and provide updates.

ICEYE
FLOOD SOLUTIONS

526 SQ MI (1,363 KM²)
total flood extent
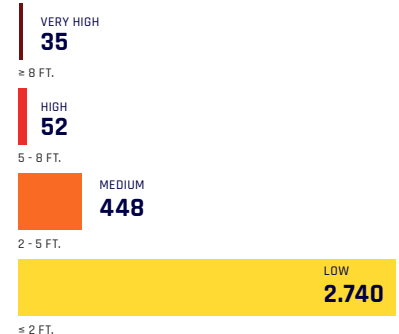
AFFECTED LOCATIONS
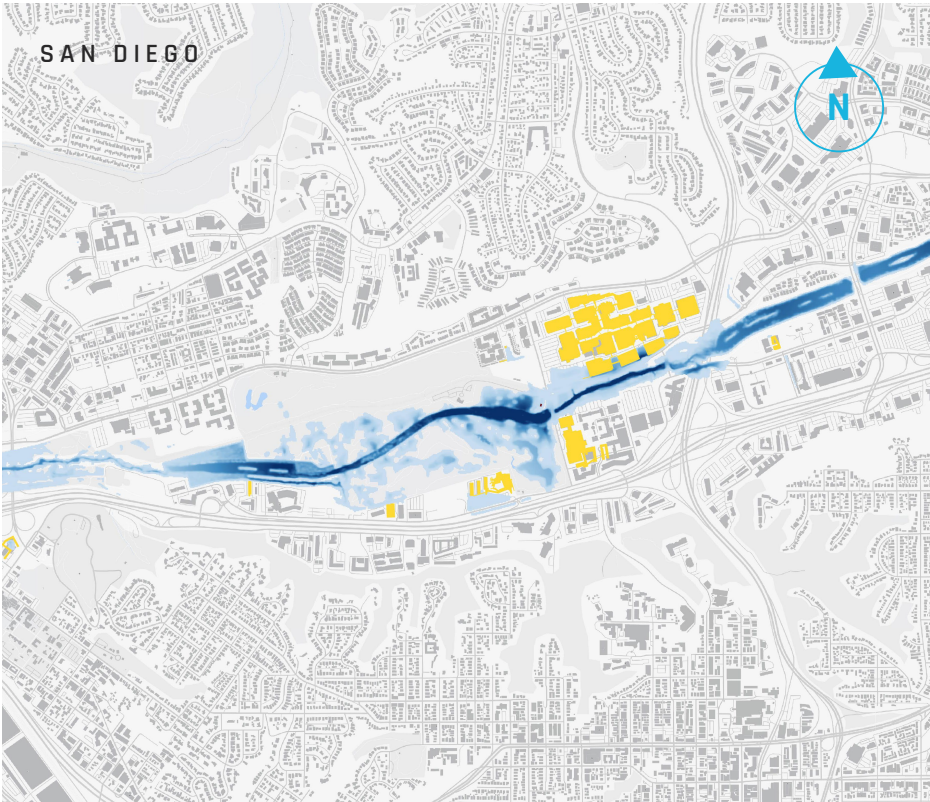Pajaro, Porterville, San Jose, Salinas, Visalia, Gilroy, Watsonville.
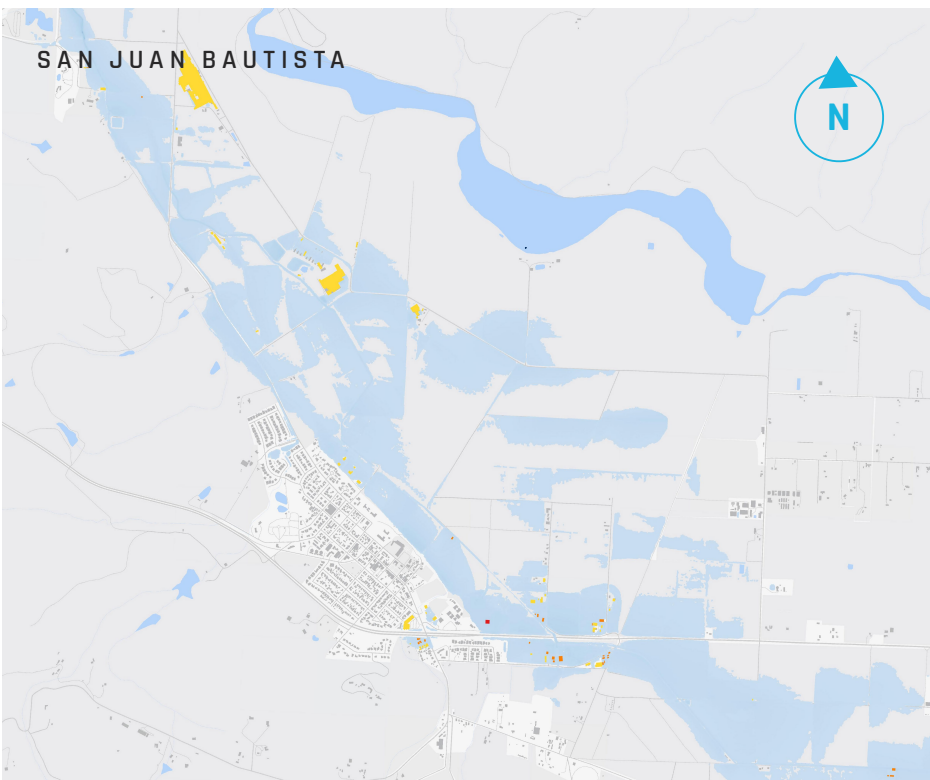
1.15 FT (0,352 M)
average inundation at building level

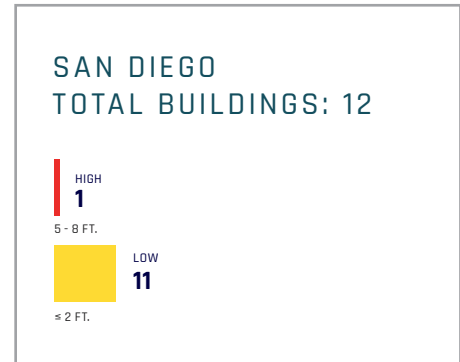**TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY**

CALIFORNIA:
3.275

VERY HIGH	35
≥ 8 FT.	
HIGH	52
5 - 8 FT.	
MEDIUM	448
2 - 5 FT.	
LOW	2.740
≤ 2 FT.	

START MONITORING	START PEAK FIRST ACQUISITION	FIRST ANALYSIS	END PEAK LAST ACQUISITION	FINAL ANALYSIS
March 6th	March 10th	March 11th	March 22nd	March 22nd

SAN DIEGO

TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY

SAN DIEGO
TOTAL BUILDINGS: 12

HIGH
1
5 - 8 FT.

LOW
11
≤ 2 FT.

SAN JUAN BAUTISTA

TOTAL NUMBER OF BUILDINGS AFFECTED BY FLOOD WATER DEPTH CATEGORY

SAN JUAN BAUTISTA
TOTAL BUILDINGS: 79

HIGH
1
5 - 8 FT.

MEDIUM
27
2 - 5 FT.

LOW
51
≤ 2 FT.

The analysis is focused on data specific to the regions most affected by the floods. Some areas which have been impacted by the flooding may not be represented in the data.

Disclaimer: The impact numbers are subject to change as ICEYE continues to analyze the flood and extend the analysis area. The current data is based on ICEYE's analysis with information collected until 11 PM UTC on March 22nd, 2023. Some areas which have been impacted by the flooding may not be represented in this initial data. Building numbers are derived from FEMA's USA Structures dataset.

TALK TO SALES & GAIN ACCESS TO OUR DETAILED ANALYSIS
www.ICEYE.com/flood

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