



Emergency Management Satellites and Application in China(2023)

National Disaster Reduction Center of China

01

**Emergency Satellite Observation
Constellation**

02

Major Disaster Response in 2023

03

International Disaster Response in 2023



01

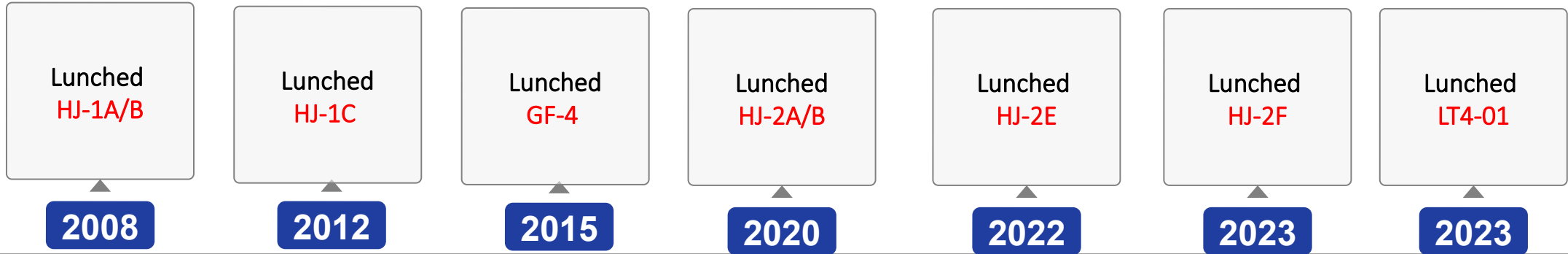
Emergency Satellite Observation Constellation

» Emergency Satellite Observation Constellation

The “14th Five-Year (2021-2025) Plan for National Emergency Management System“ was issued by the State Council in February 2022.

Establishing **an Emergency Satellite Observation Constellation** was one of its important way to strengthen the capacity of risk monitoring, early warning and emergency rescue, and to foster the modernization of the emergency management system and capacity.

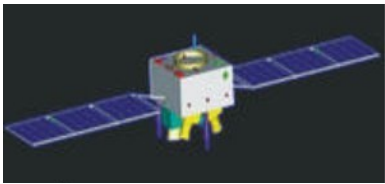
Emergency Satellite Observation Constellation



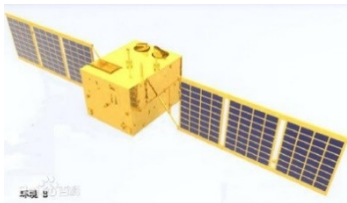
National Comprehensive Disaster Prevention and Mitigation Plan

National Medium and long-term Development Plan for Civil Space infrastructure

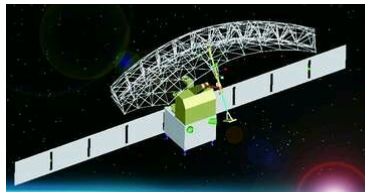
The 14th Five-Year Plan for the National Emergency Management System



HJ-1A



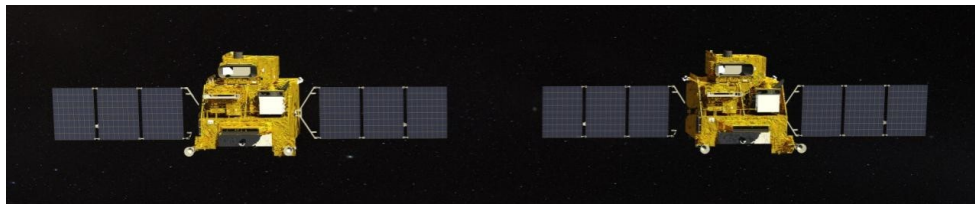
HJ-1B



HJ-1C

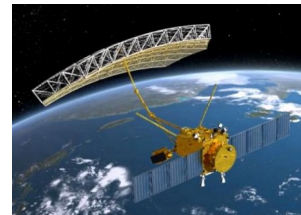


GF-4



HJ-2A

HJ-2B



HJ-2E/F

LT4-01

» Satellite HJ-2F



Launched: 8 Aug.2023

Payloads: S-band multi-polarization synthetic aperture radar(SAR).

Status: On-orbit test

Capacity: resolution 5-meter or 25-meter for flood, landslide and other disaster monitoring under bad weather conditions such as insufficient light, clouds, rain and fog.

HJ-2E: same payloads with HJ-2F, launched in 2022

» Satellite LT4-01



Launched: 13 Aug.2023

Payloads: L-band multi-polarization synthetic aperture radar(SAR).

Status: On-orbit test

Capacity: Four application modes, flexible adjust observation, short revisit period and large imaging width.

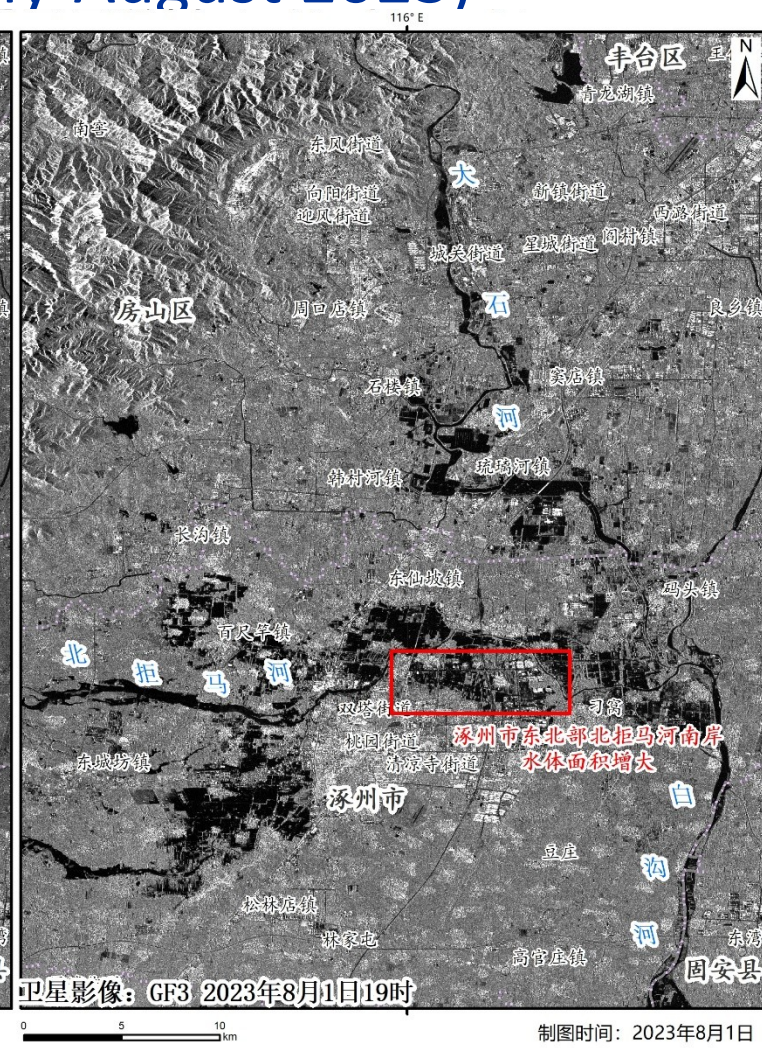
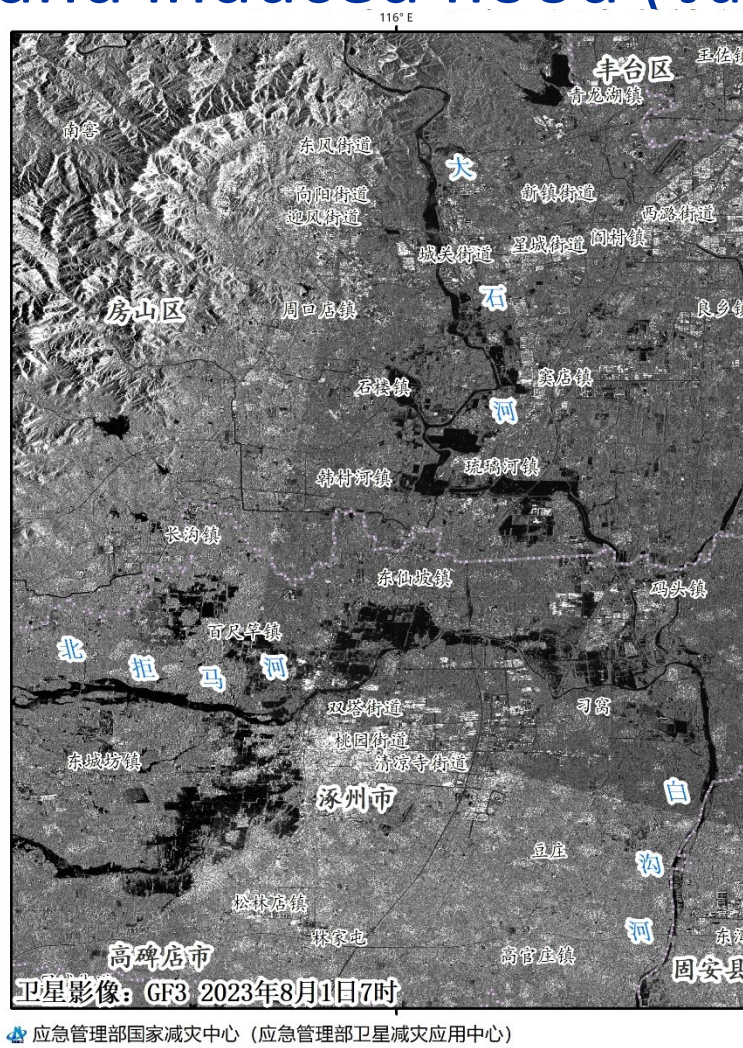
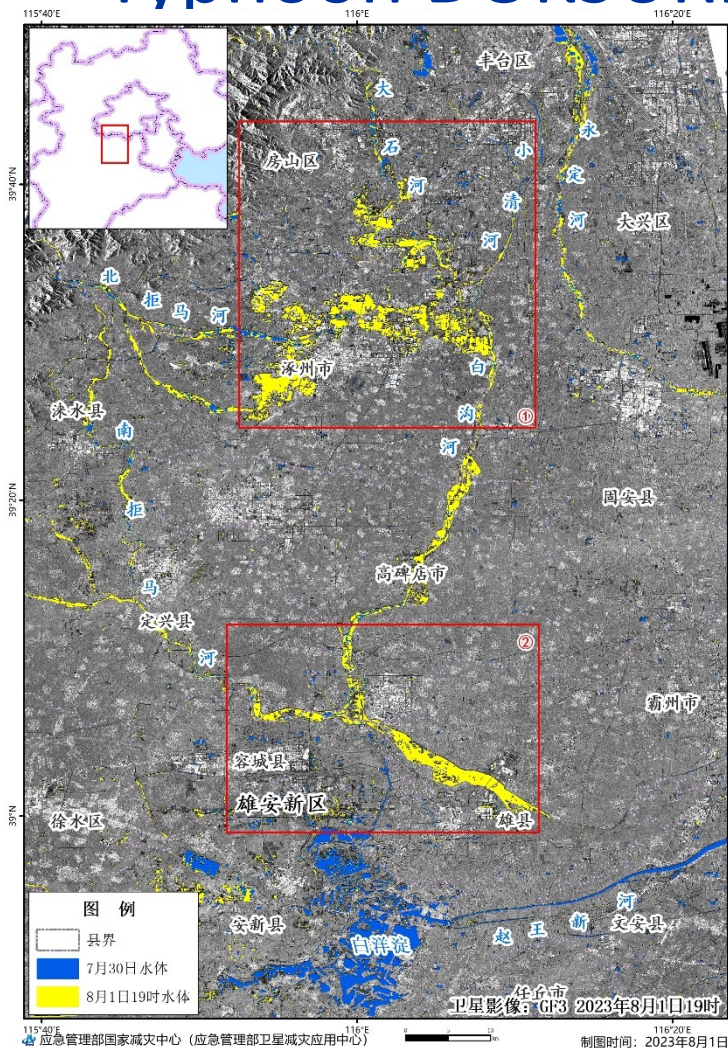


02

**Major Disaster Response
in 2023**

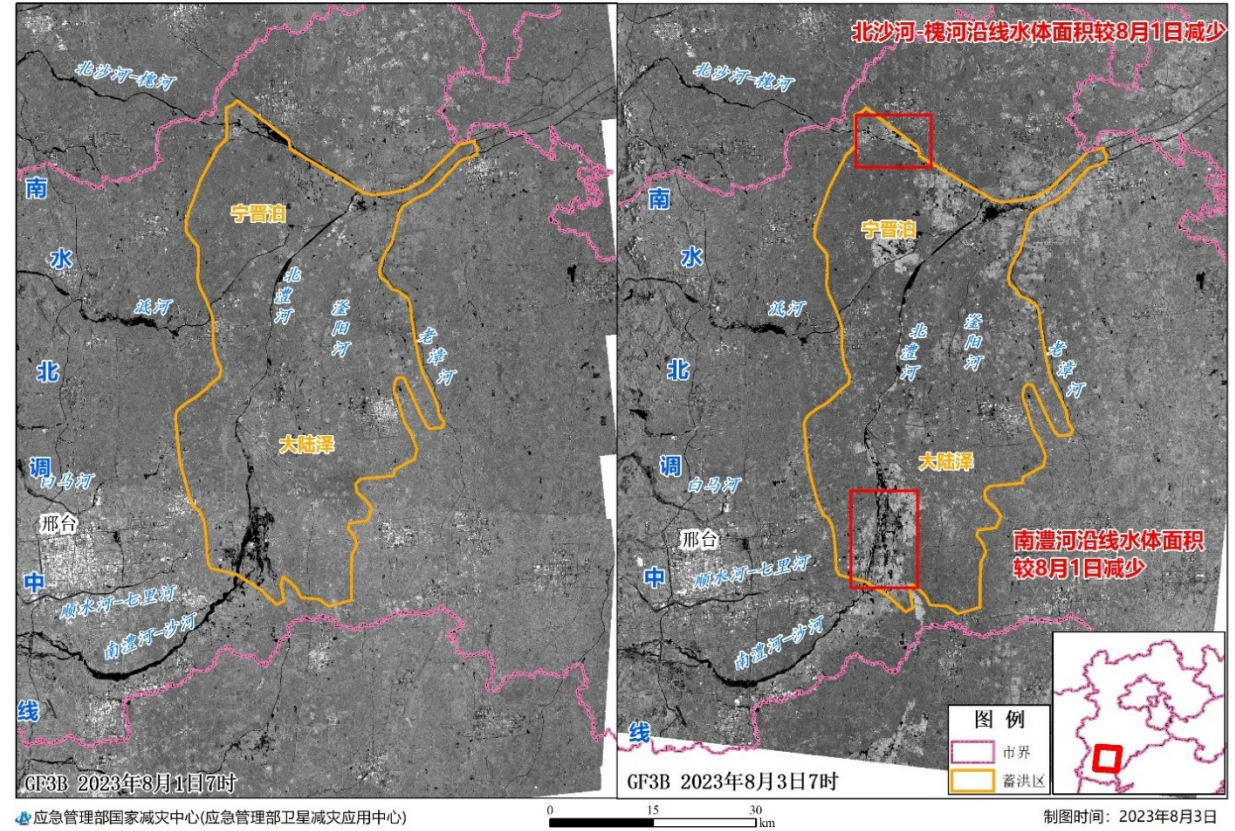
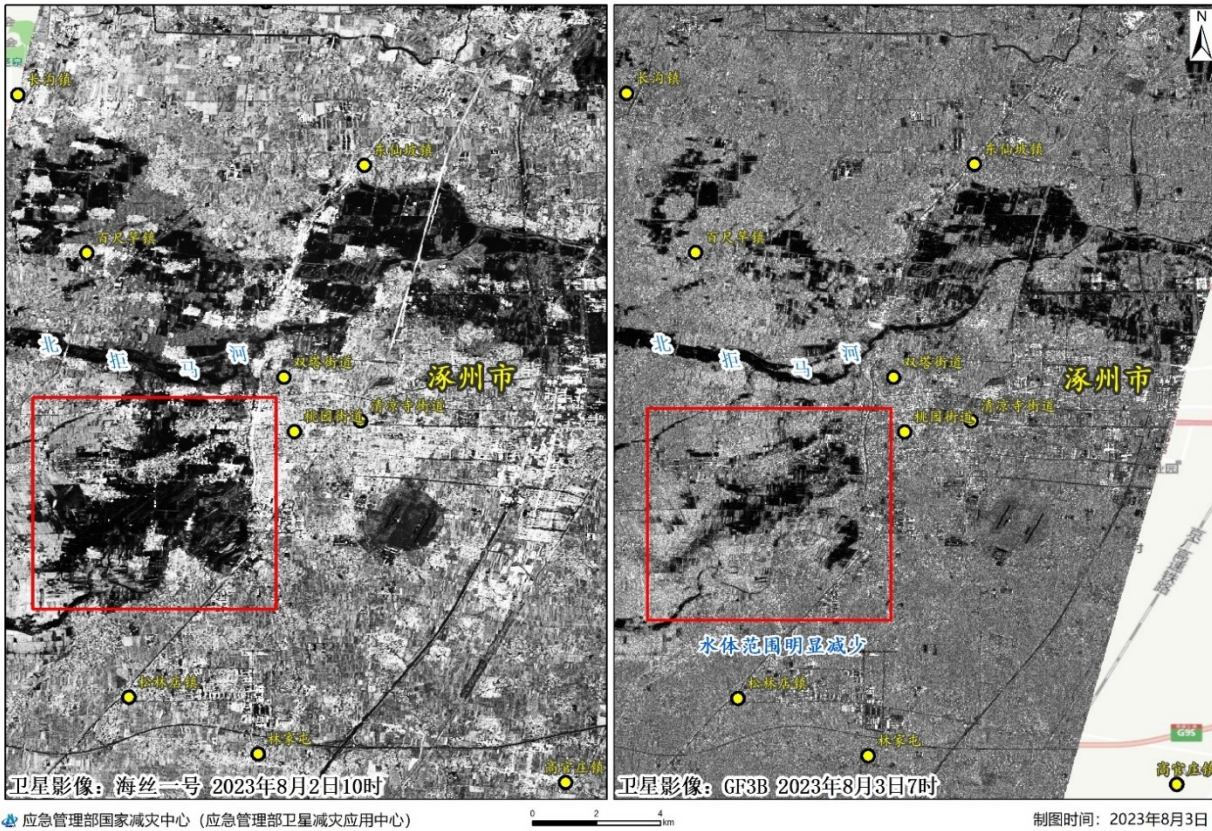
Major Disaster Response in 2023

Typhoon DOKSURI and induced flood (July-August 2023)



Major Disaster Response in 2023

Typhoon DOKSURI and induced flood (July-August 2023)



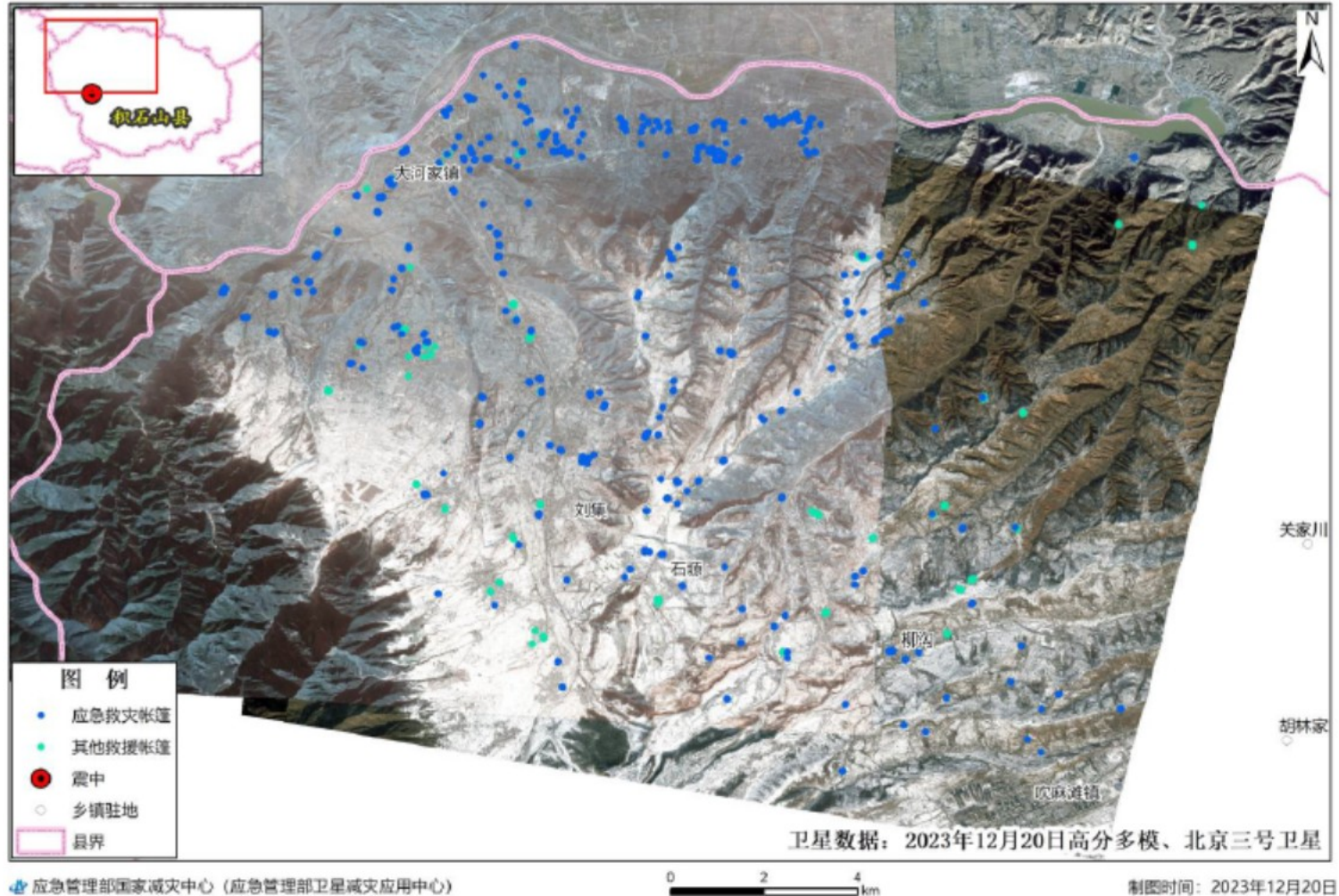
» Major Disaster Response in 2023

Earthquake Jishishan County, Gansu Province(18 Dec, 2023)



» Major Disaster Response in 2023

Earthquake Jishishan County, Gansu Province(18 Dec, 2023)



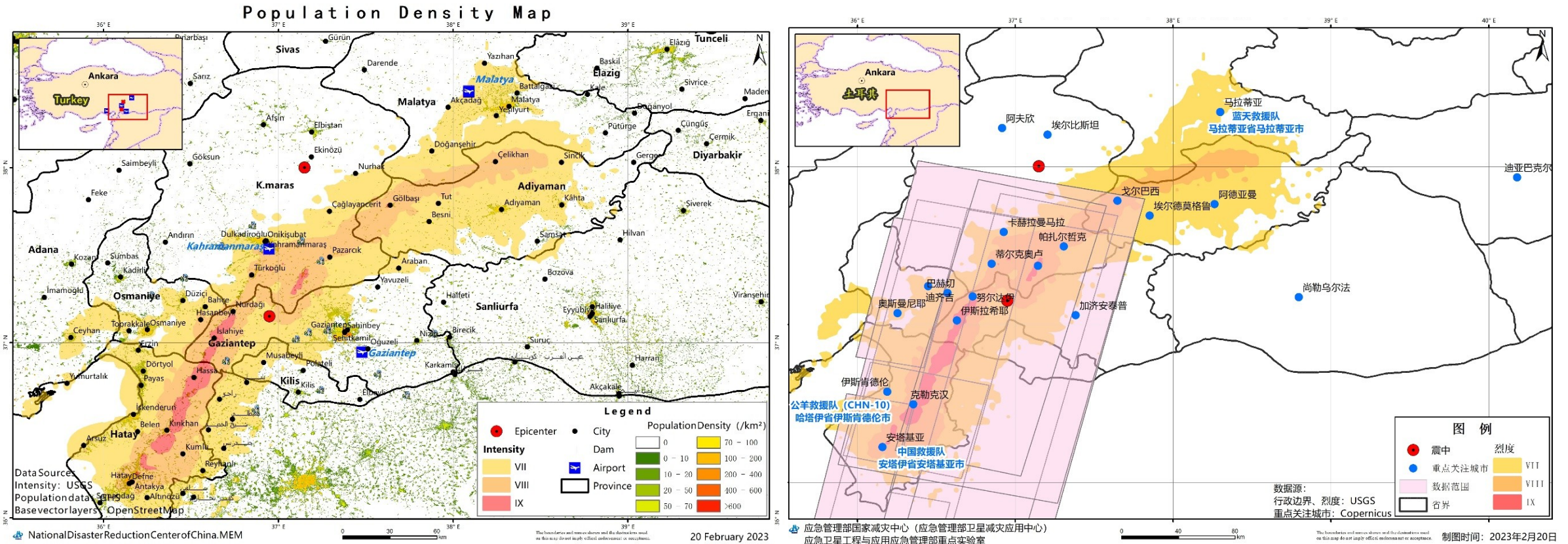


03

**International Disaster
Response
in 2023**

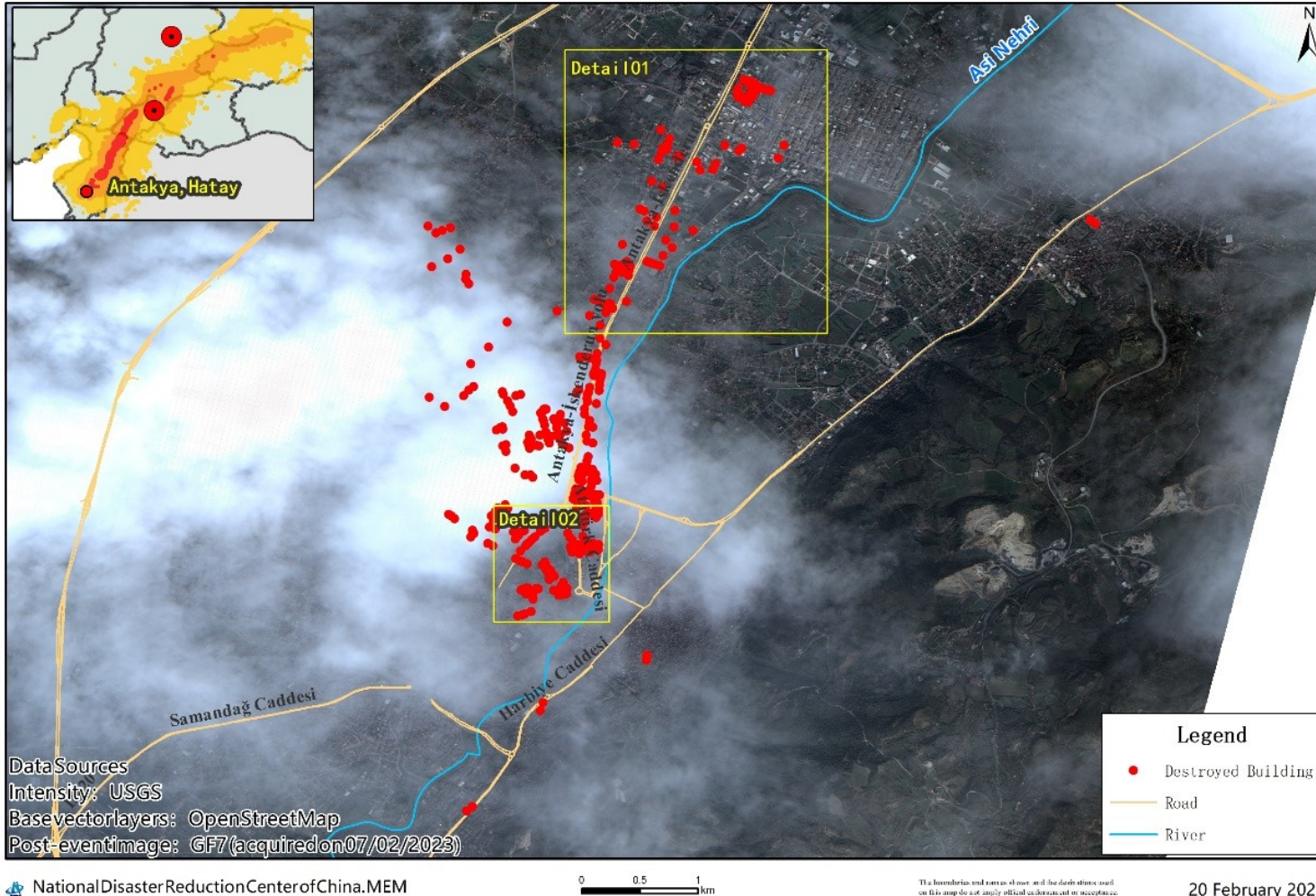
International Disaster Response in 2023

Earthquake in Türkiye (Feb 6, 2023)



International Disaster Respo

Antakya—Republic of Türkiye

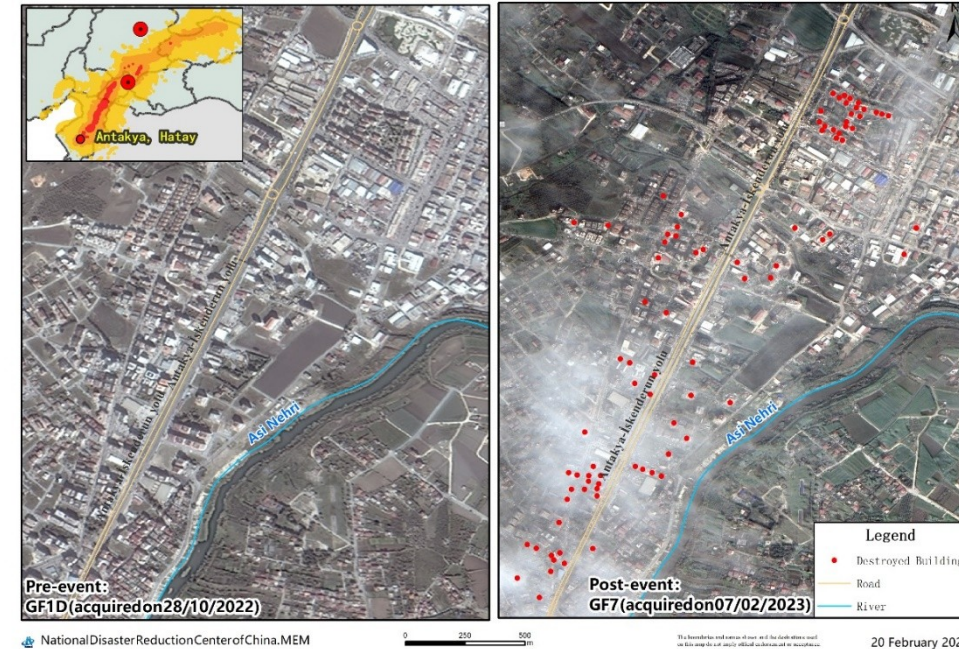


National Disaster Reduction Center of China.MEM

20 February 2023

The boundaries and names shown on this map do not imply official endorsement or acceptance.

Antakya, Hatay—Detail 01



National Disaster Reduction Center of China.MEM

Antakya, Hatay—Detail 02



National Disaster Reduction Center of China.MEM

20 February 2023

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Thank you for your attention !

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