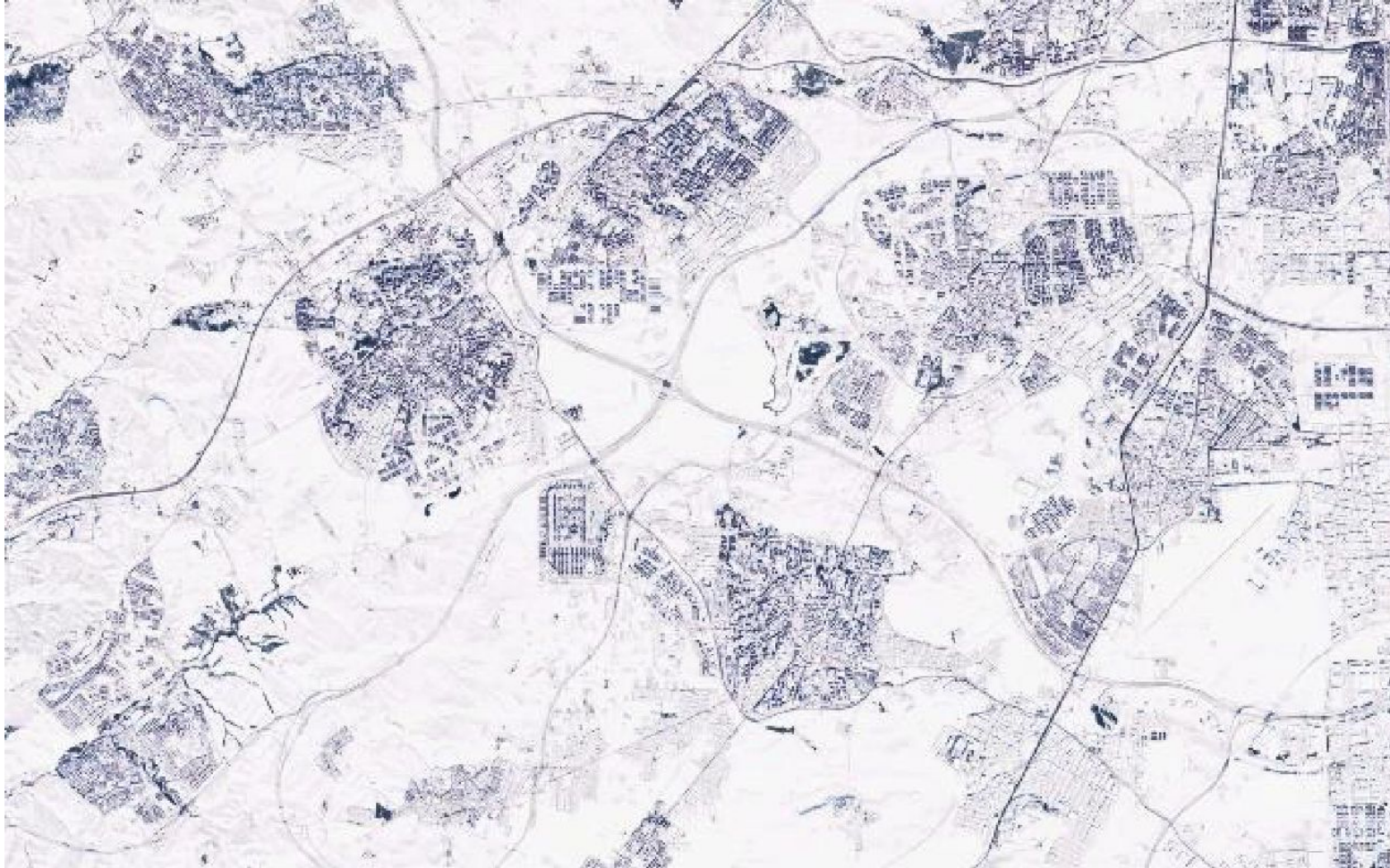


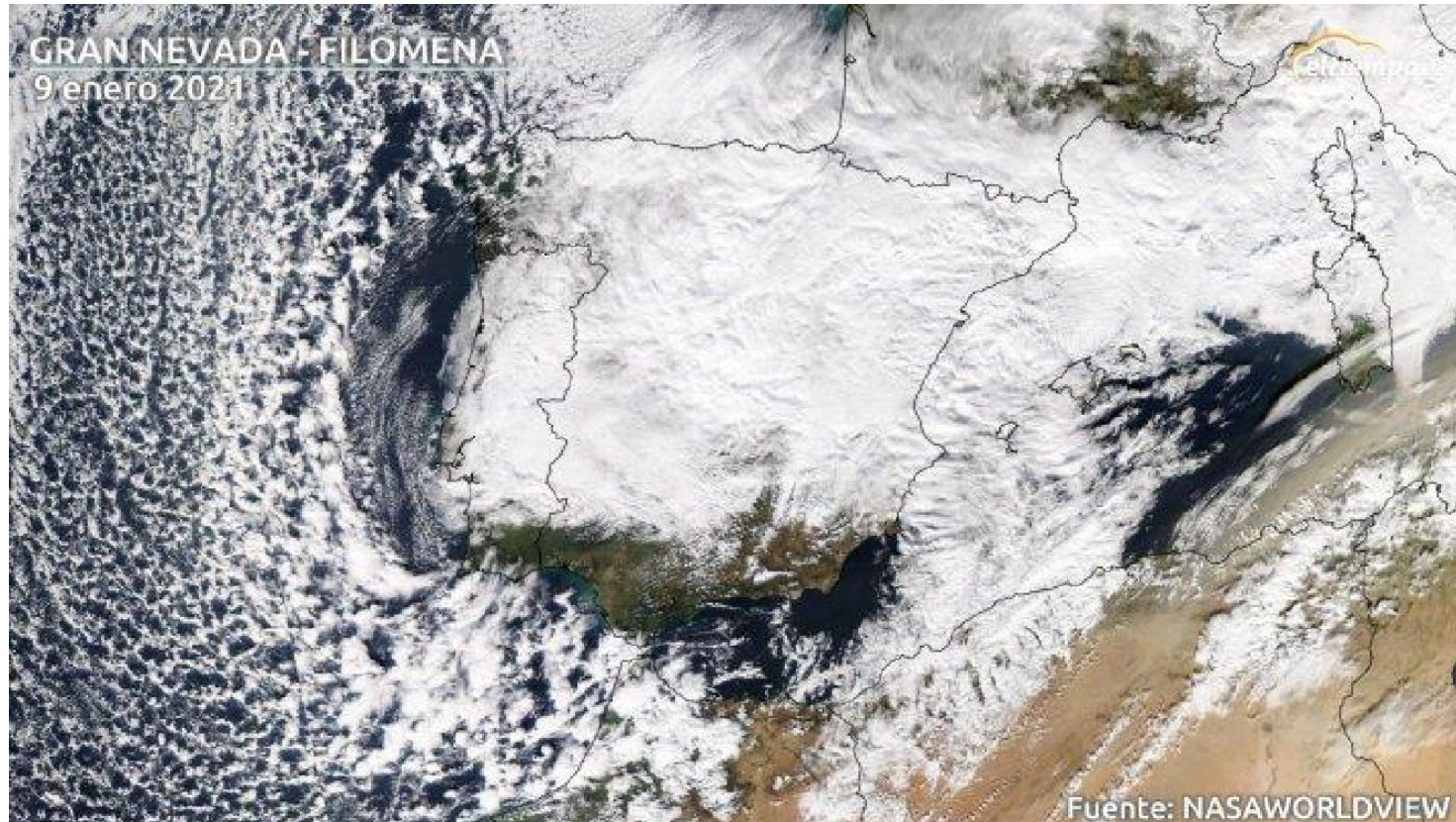
Extreme winter events in Madrid in January 2021



Jose Valdecantos

Extreme winter events in Madrid in January 2021

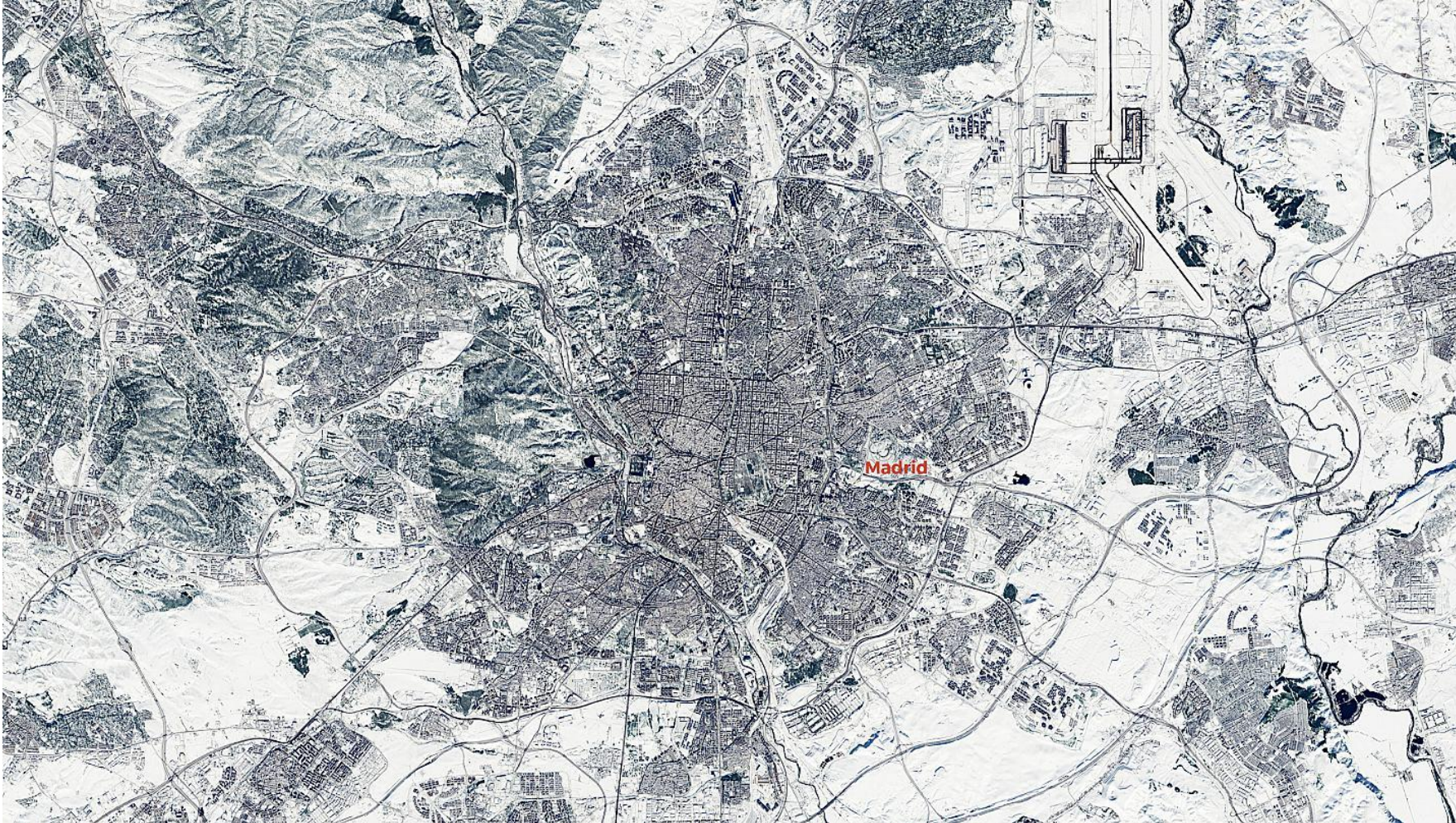
The weather: Filomena



- Combination of Filomena Storm, coming from the Atlantic and polar cold present in the Iberic Peninsula
 - Biggest Snow storm in Spain since 1971
 - 50cm snow in central Spain.
- UNUSUAL

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The weather: Filomena

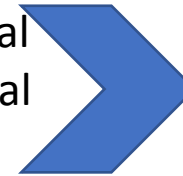


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OTHER FACTORS

1. Spanish roads: 3 level networks

- National
- Regional
- Local



Different standards,
Levels of service

2. Started on a Friday, during the day

3. Polar cold after storm

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Early development

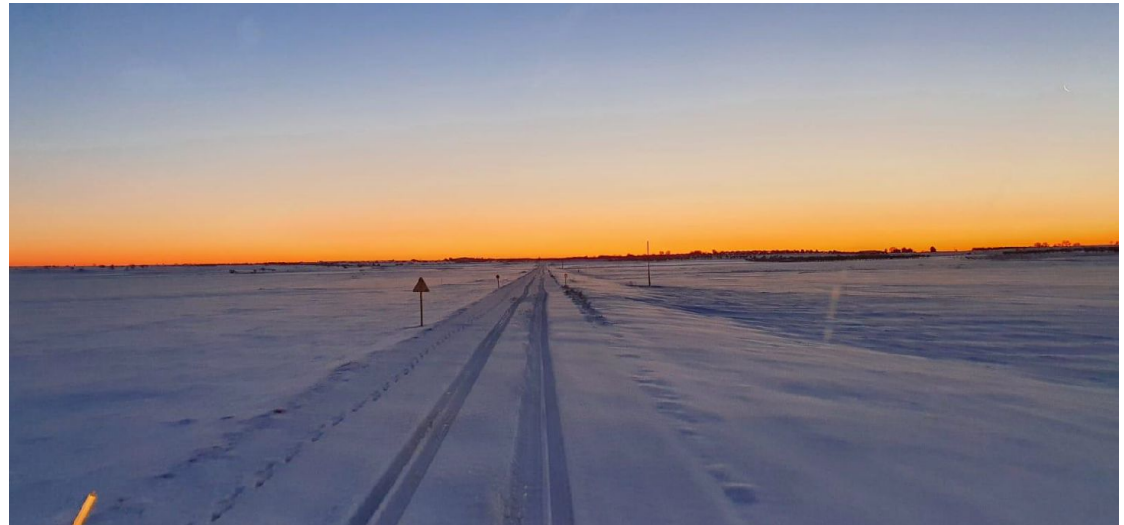
- Fast, severe storm
- Quick gridlock on roads
- Decision to evacuate drivers Friday night



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Saturday

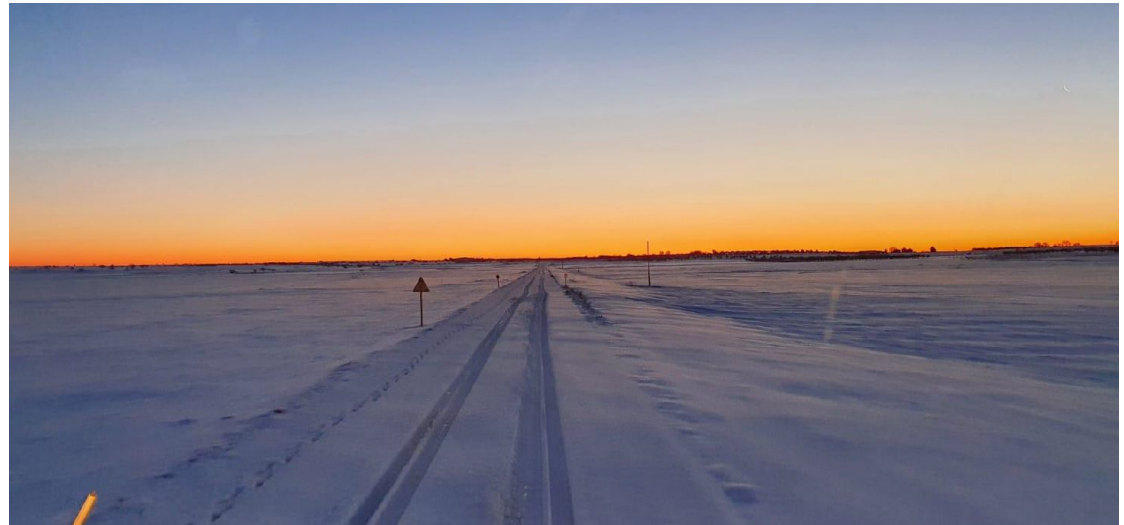
- Numerous alert calls, special requirements for the región to function
- After storm is over, low temperatures: ice problems



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Consequences

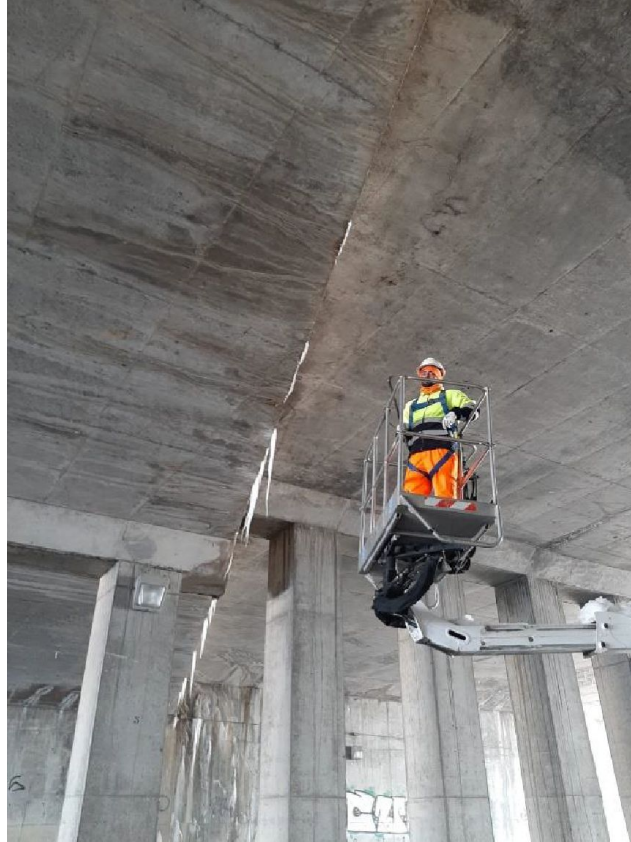
- Slow recovery
- Unusual problems



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Damages

- Several million euro worth of damages:
 - Power lines
 - Trees
 - Signs
 - Lighting
 - Delineators
 - Pavement



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Lessons learned

- Importance of public communication
- Coordination between different administrations



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Thank you!