



Identify Weather Interference

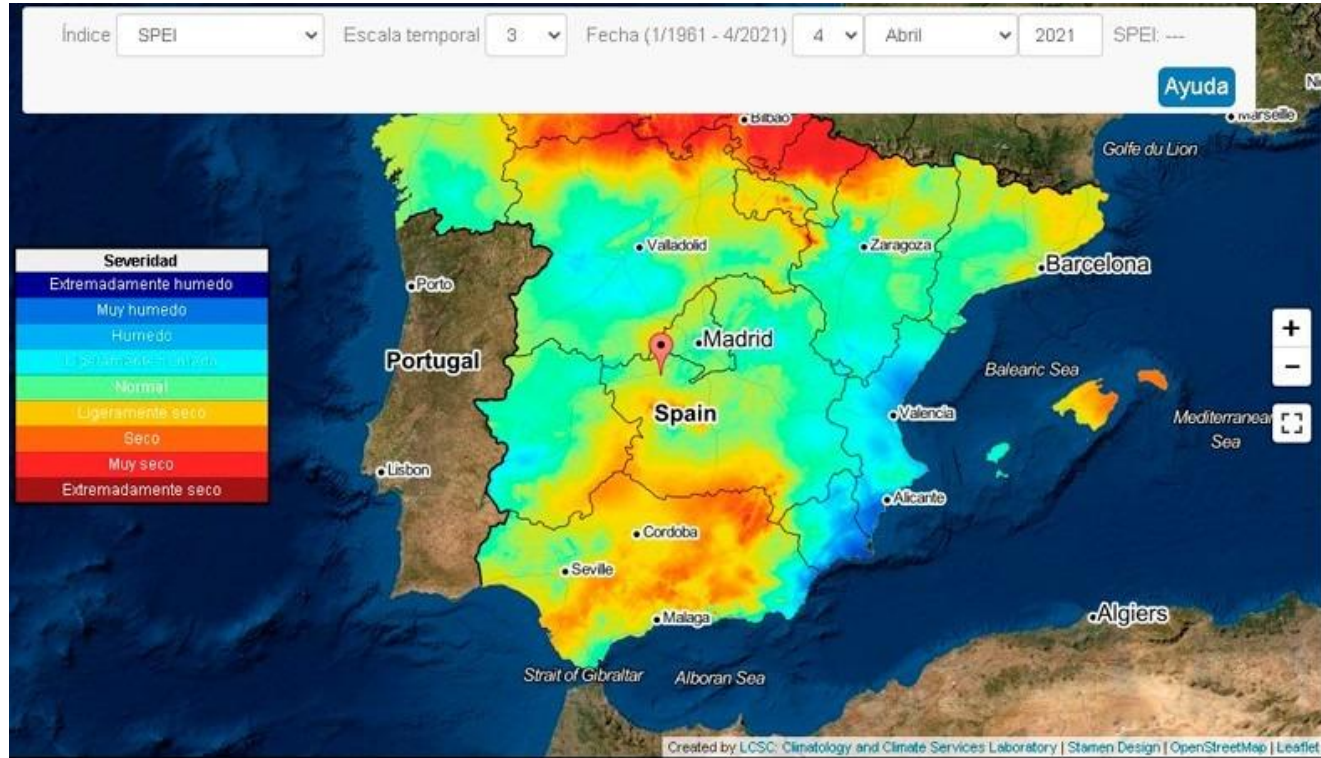
EDISS Winter School
Team 4 Hackathon Report

Feb 2023

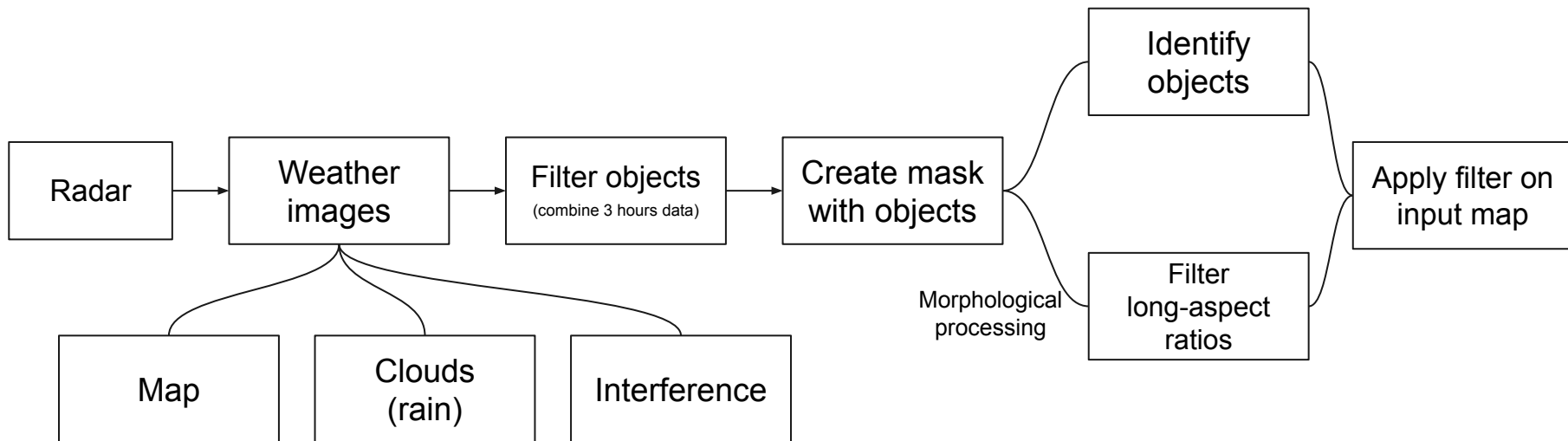




Radar > detect weather condition



Approach/pipeline



Remove objects from map

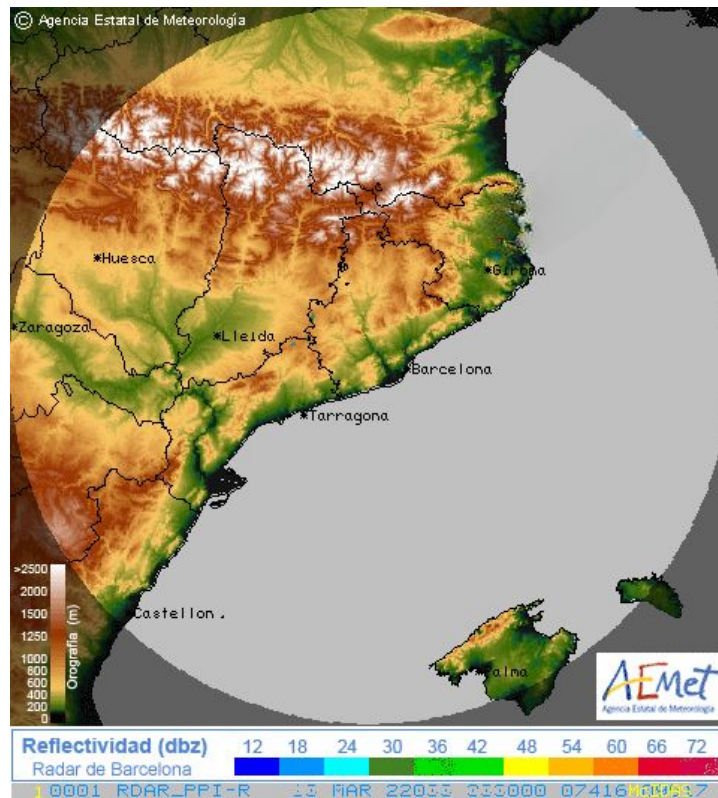
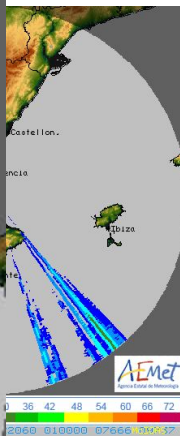
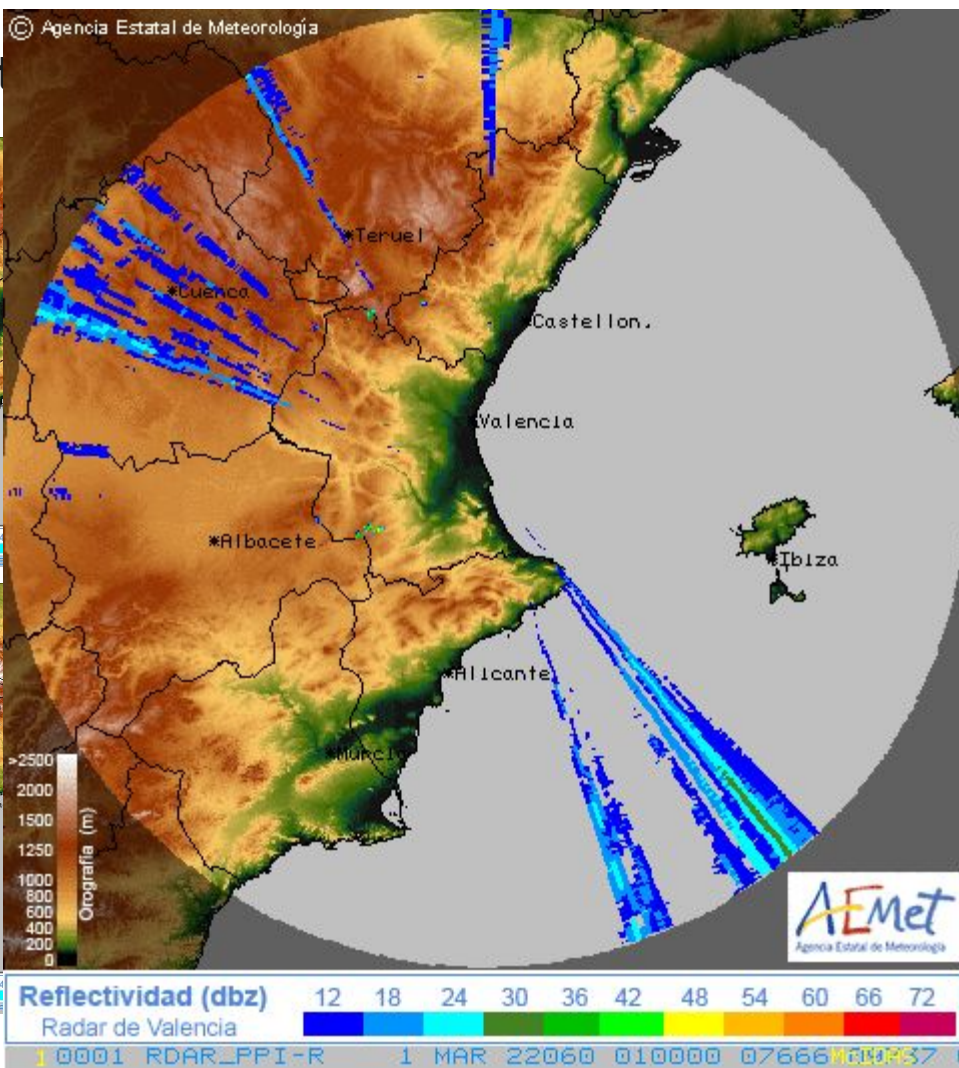
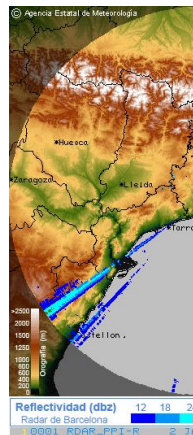
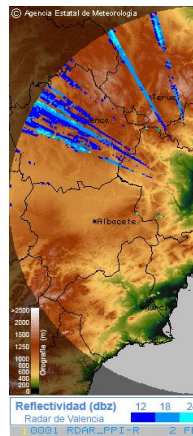
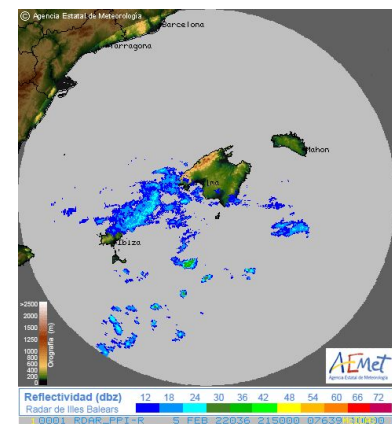
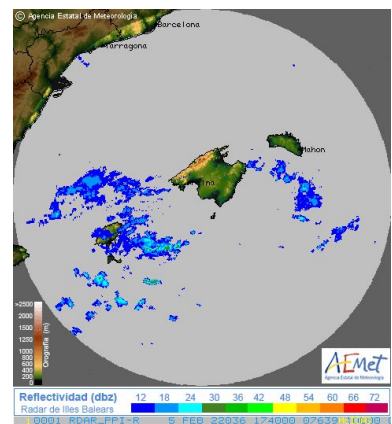
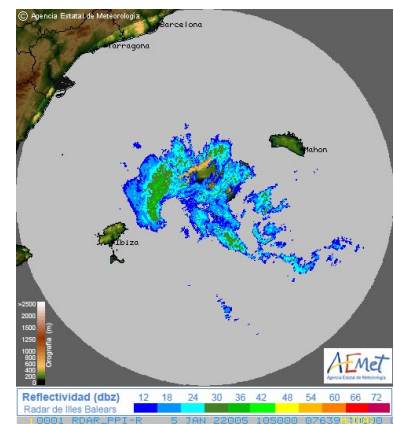
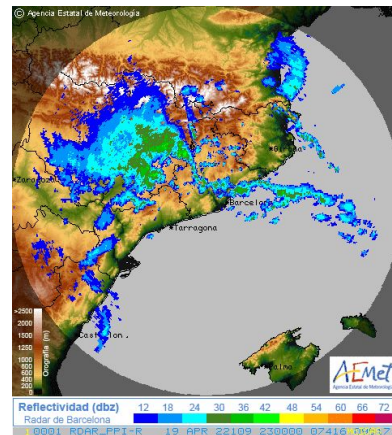
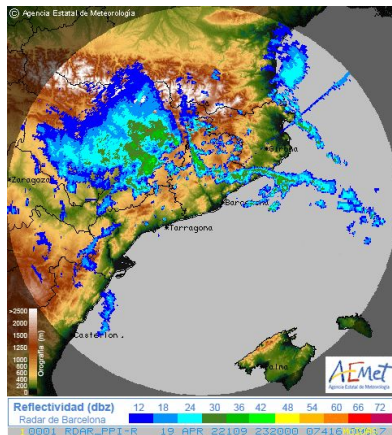
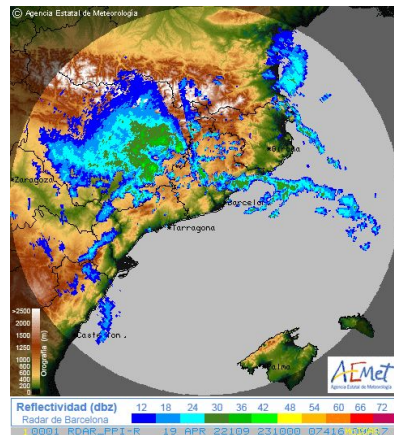


Figure: Using temporal median filter
to remove objects

Batch of Input



Batch of Input Images (2)



Filter objects and create mask

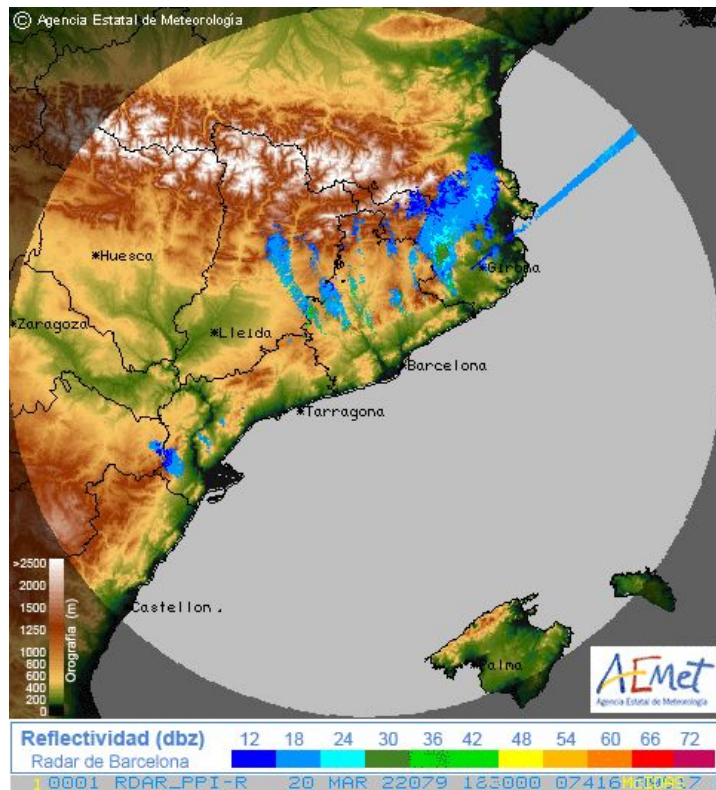


Figure: Median of clouds and interference of 3 hours

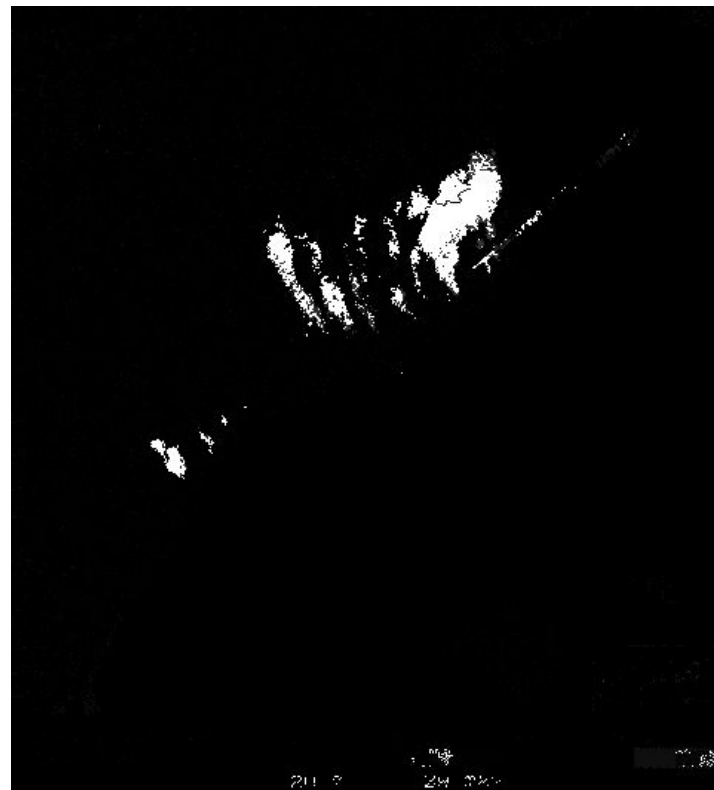


Figure: Masked average clouds and interference of 3 hours

Background subtraction

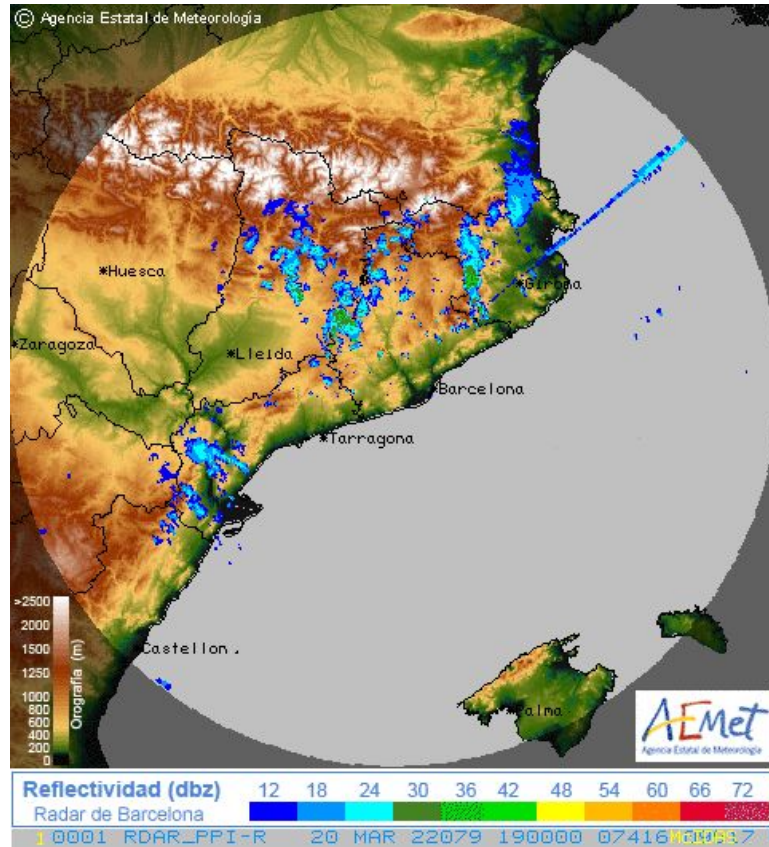


Figure: Input image

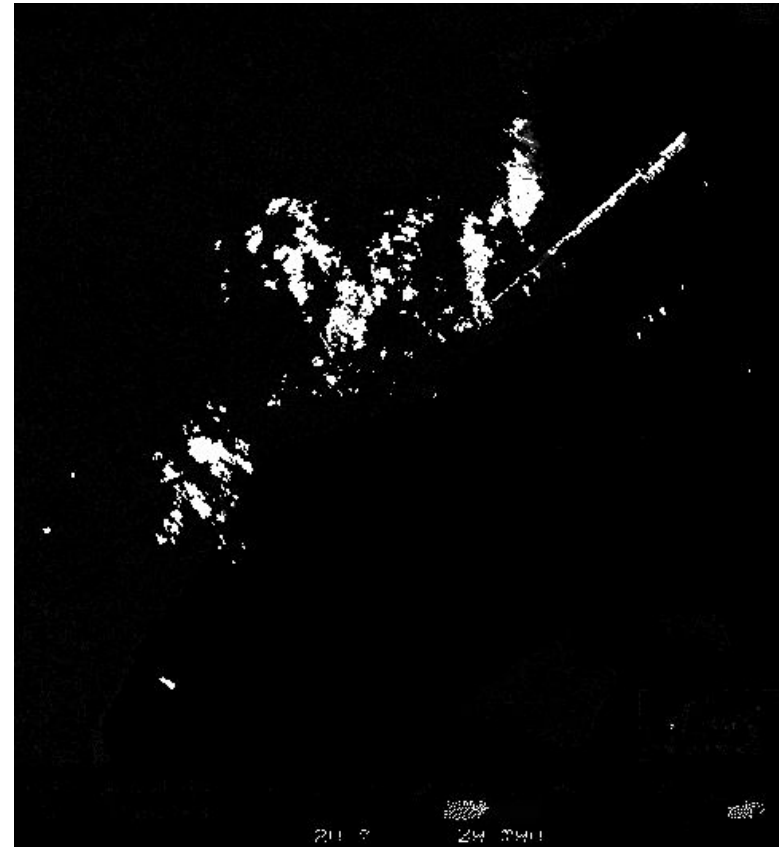


Figure: Masked image

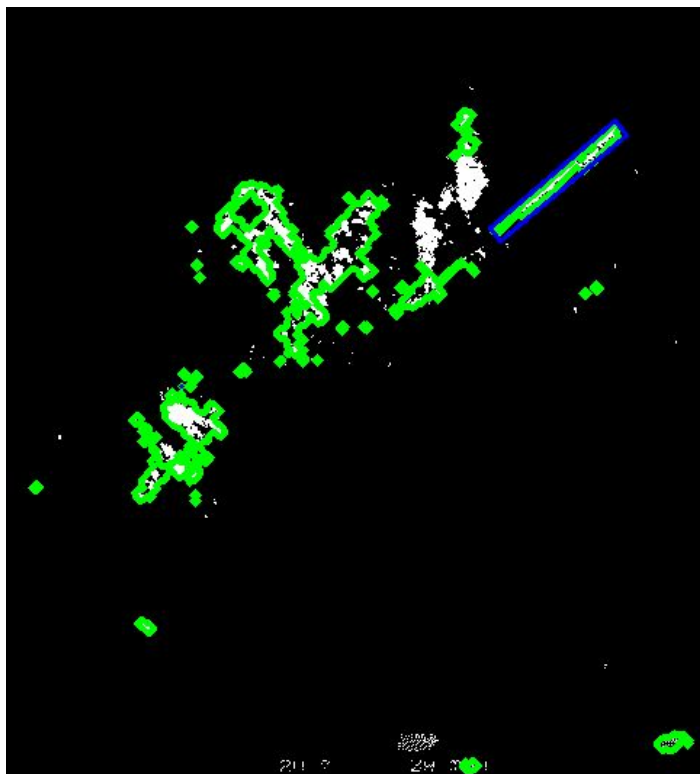


Figure: Filtering contours based on shape matching and aspect ratio

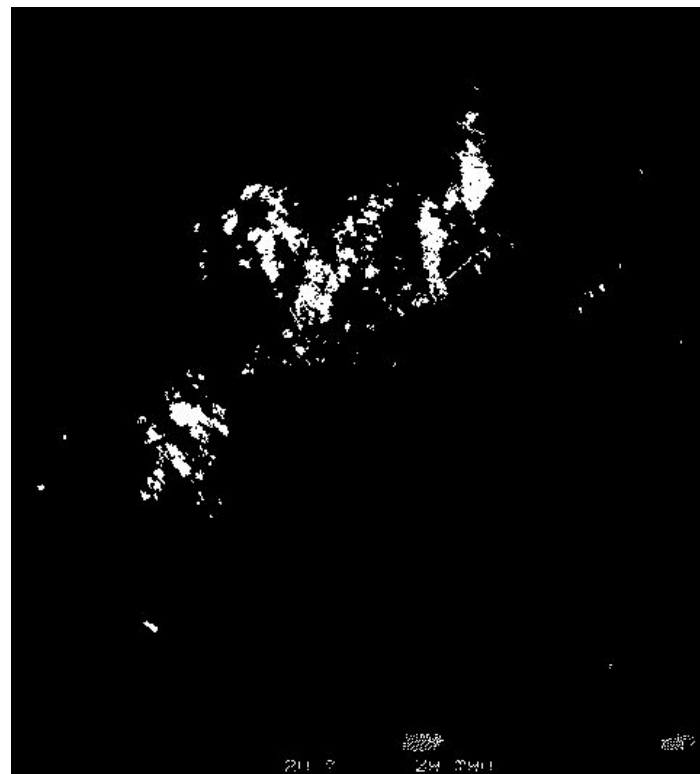


Figure: Interference removal

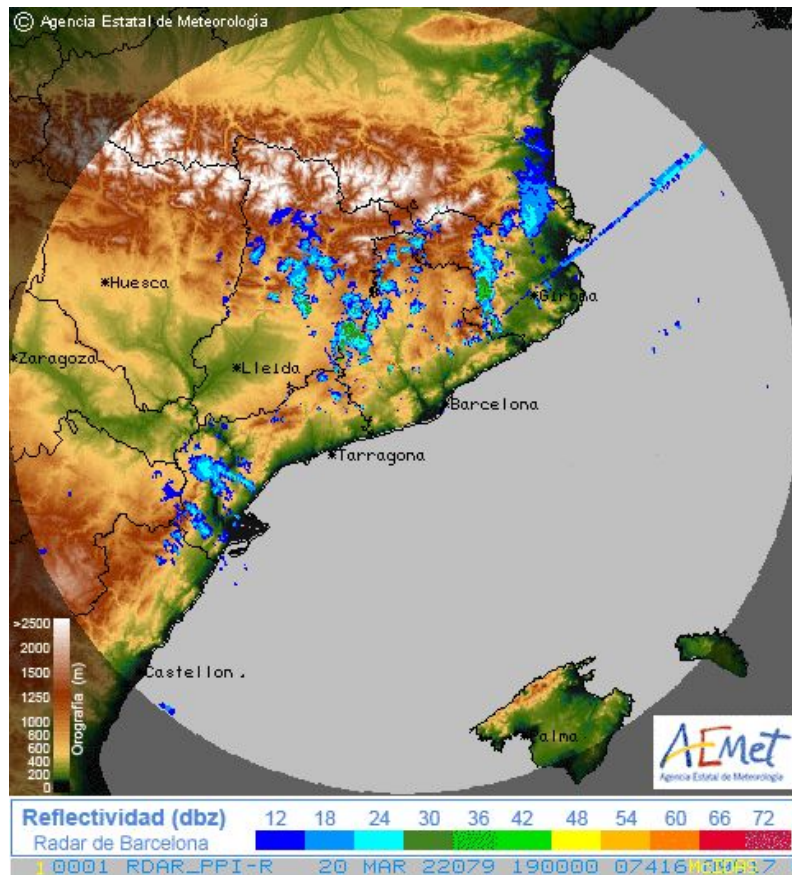


Figure: Input image

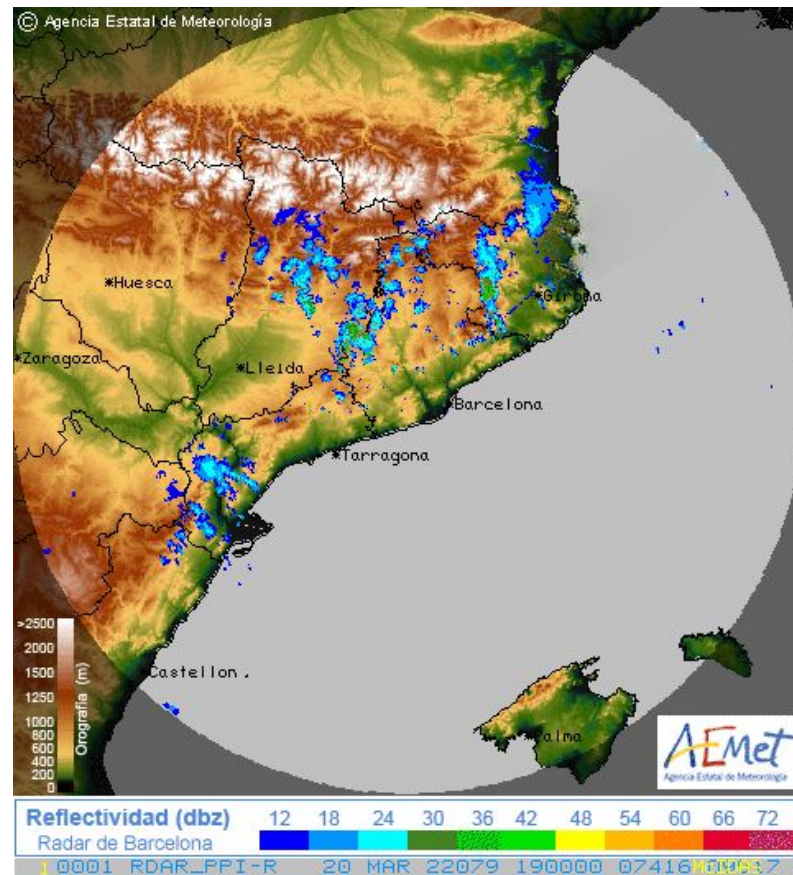


Figure: Output image



Want to know more?

Our sales representative will be in touch...



Thank you!