DIPLOMA SATELLITE CLASS PHOTO CHALLENGE

DON’T OPEN YET! :)

TASK 1 — IMAGE A

What features can you notice in this image? How can you identify them? What conclusions can you draw about the landscape?

TASK 1 — IMAGE B

What features can you notice in this image? How can you identify them? What conclusions can you draw about the landscape?

TASK 1 — IMAGE C

What features can you notice in this image? How can you identify them? What conclusions can you draw about the landscape?

TASK 2A

Talk about the differences between these two images. What do you notice? Why do you think they are different?

(Hint: they were taken by the same satellite, and are both RGB images)

TASK 2B — Which of these two images do you think was taken first? Why do you think that?

A

B

TASK 2C — Which of these two images do you think was taken first? Why do you think that?

A

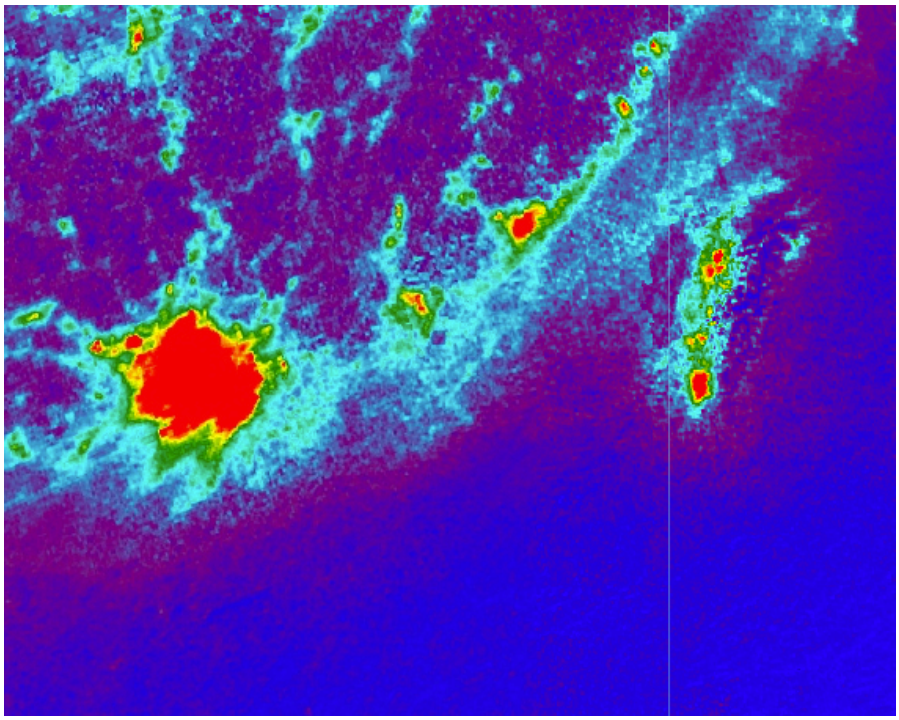
B

TASK 2D

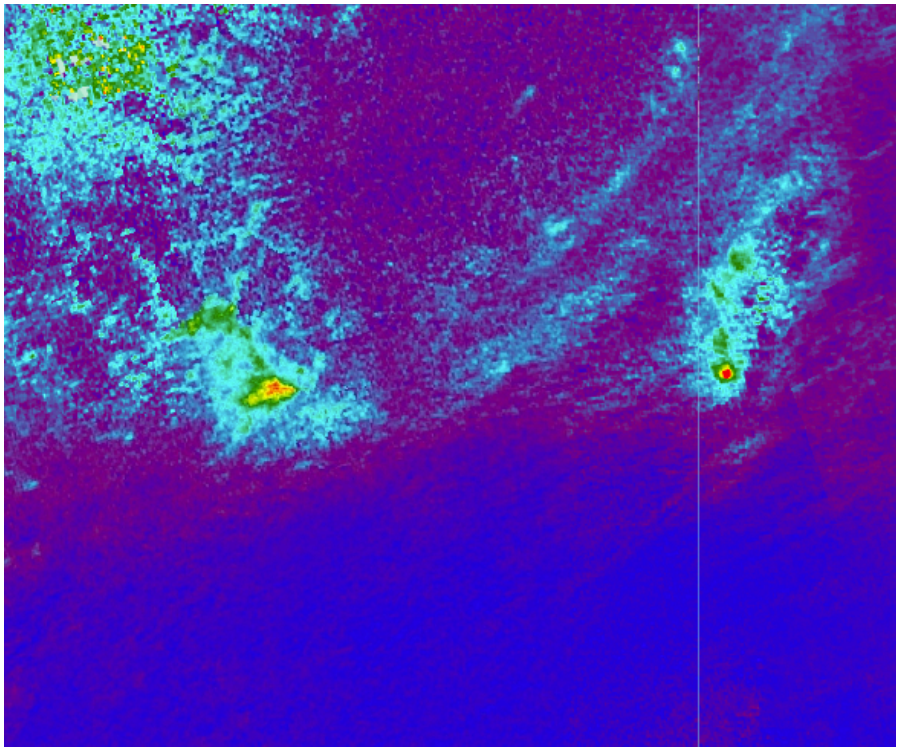
This is an image of NO2 emissions, taken of the same area over two different 2-day periods, separated by 2 weeks. Red indicates the highest concentration, blue the lowest.

Describe what you can see in both images. What do you think you are looking at? What conclusions can you draw about each? Where might the differences stem from?

A

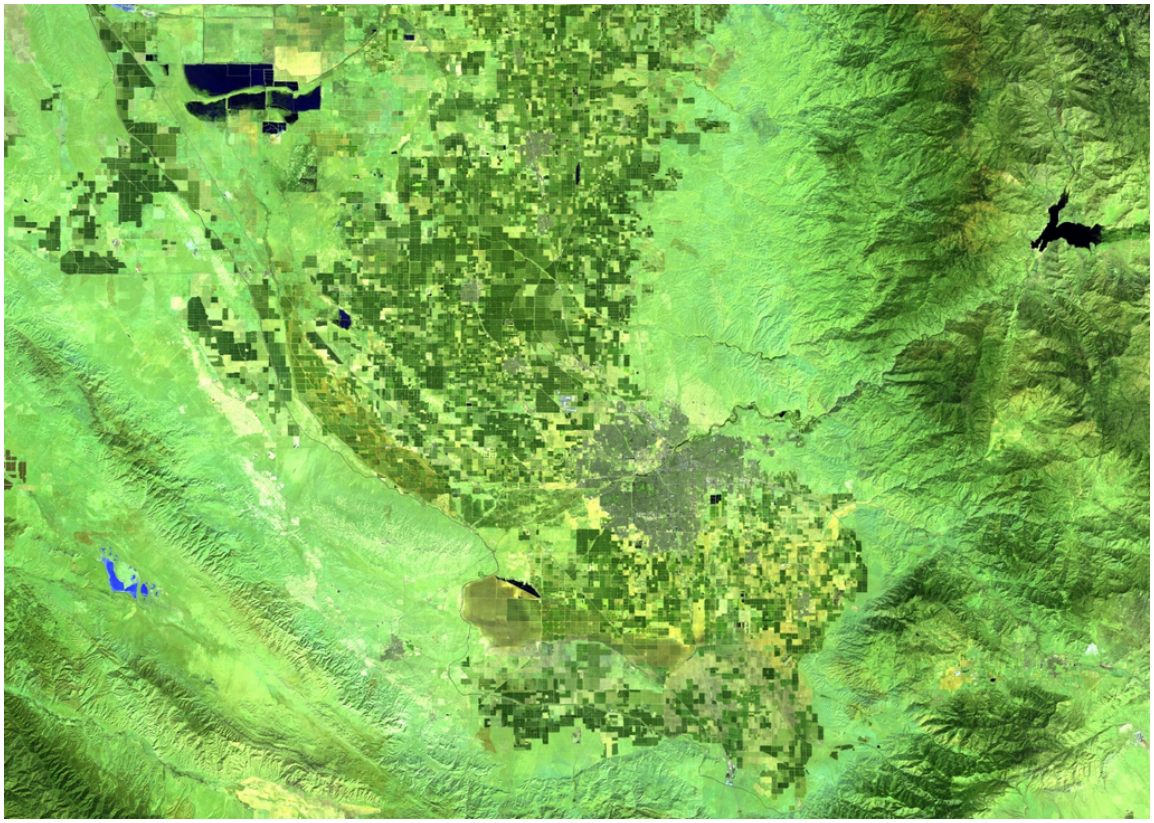


B



TASK 3A

These two images were taken at the same time and place, but the lower image is constructed from the shortwave infrared bands. What do you notice more in the first image? What do you notice more in the second image?



TASK 3B

These are the winter and summer images from example 2A, but now using near infrared.

What differences between the two seasonal images are easier to spot? What differences are harder to spot?