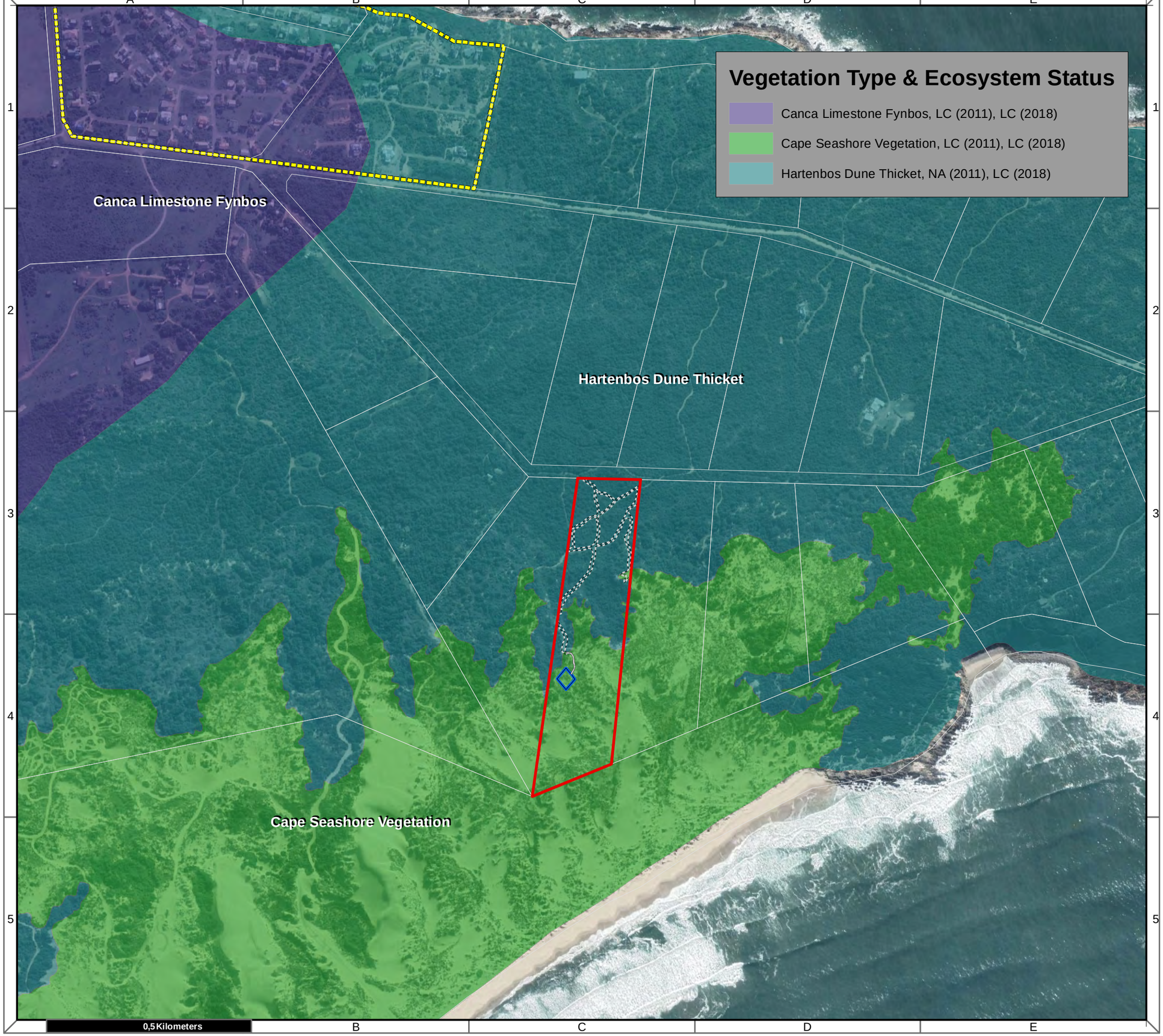

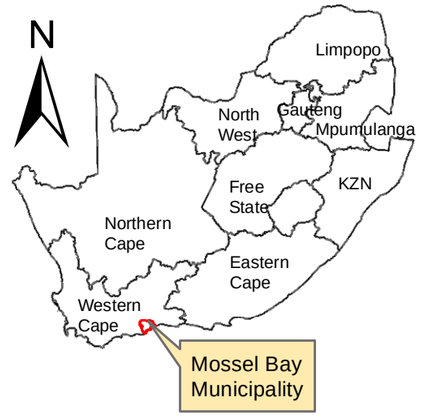

House Steenekamp
Portion 19 of 25 Misgunst aan de Gouritz Rivier

Legend

Portion_19_of_257

Development

SDP

Open Space

Option 1

Roads existing

Roads new

Urban Edge (2019)

Notes

- Map Scale is 1: 9 000 when printed on A3
- Aerial image courtesy of Google Earth Pro 2021
- Imagery date March 2020
- Biodiversity data courtesy of SANBI BGIS 2020 & WCBSP 2017
- 2018 Threat Status Assessment (Skowno, A et al August 2019)
- LC (Least Concern), VU (Vulnerable), EN (Endangered), CR (Critically Endangered)

Kilometers

0 225 450 900 1 350 1 800

Map Drawn By:	Date	Reference
Melissa Mackay	2021/11/24	MOS618

Cape Environmental Assessment Practitioners (Pty) Ltd
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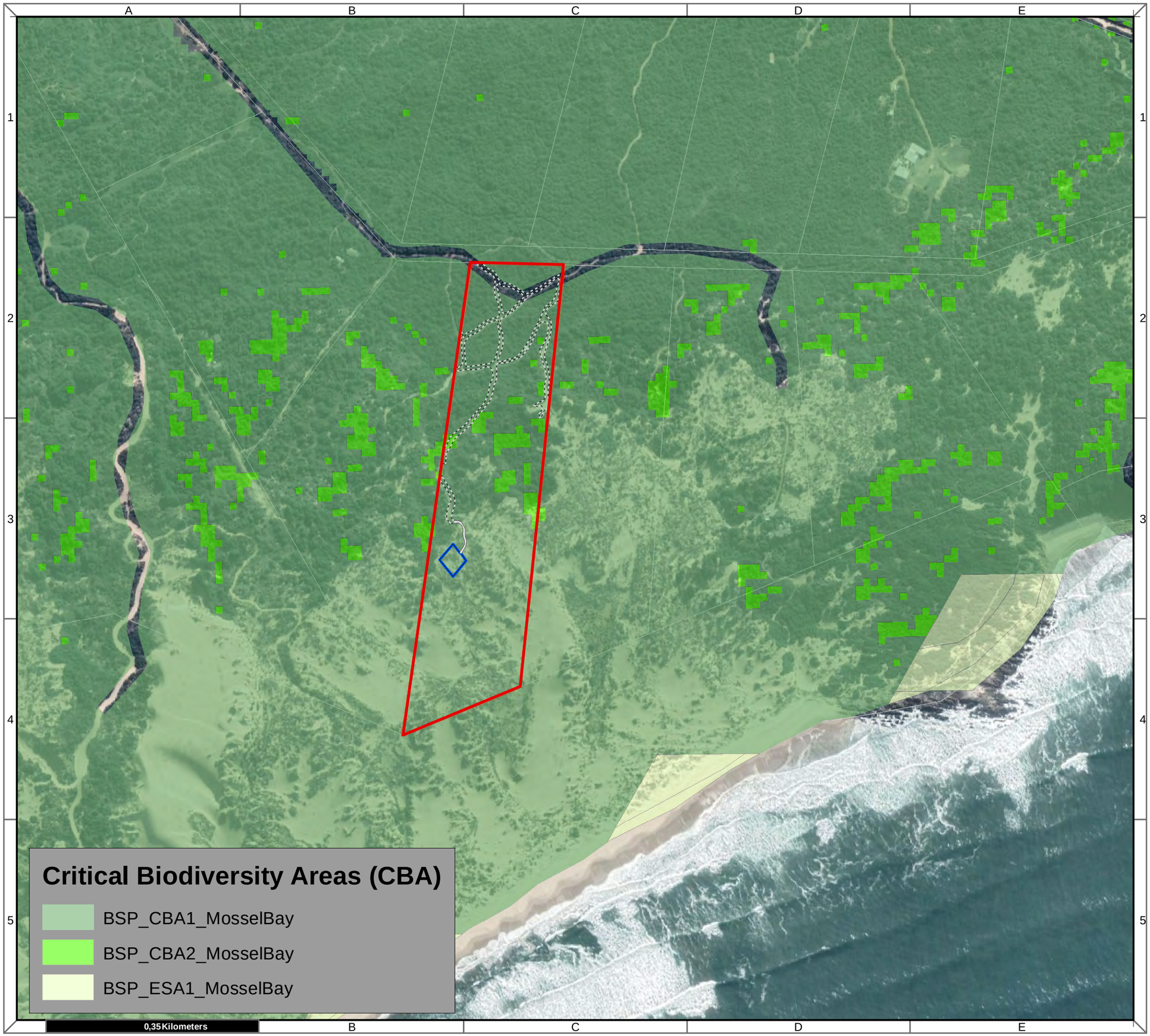
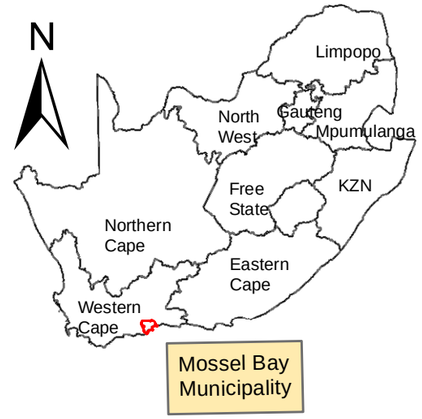
George 6530

VEGETATION TYPE & ECOSYSTEM STATUS





House Steenekamp
Portion 19 of 25 Misgunst aan de Gouritz Rivier

Legend

Portion_19_of_257

SDP

Open Space

Option 1

Roads existing

Roads new

Non-Perennial

Perennial

Notes

- Map Scale is 1: 6 000 when printed on A3
- Aerial image courtesy of Google Earth Pro 2020
- Imagery date May 2021
- Biodiversity data courtesy of SANBI BGIS (WCBSP 2017)

Kilometers

0 0,05 0,1 0,2 0,3 0,4

Map Drawn By:	Date	Reference
Melissa Mackay	2021/11/24	MOS618

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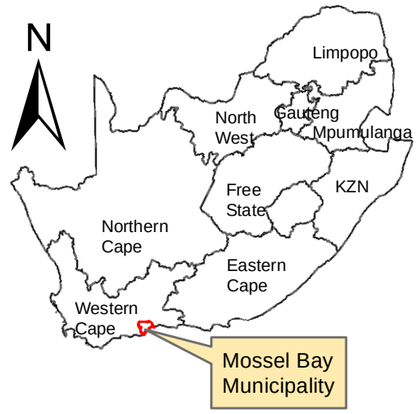
CRITICAL BIODIVERSITY AREAS



House Steenekamp
Portion 19 of 25 Misgunst aan de Gouritz Rivier

Legend

Portion_19_of_257

Development

SDP

Option 1

Roads existing

Roads new

Open Space

Notes

- Map Scale is 1: 10 000 when printed on A3
- Aerial image courtesy of Google Earth Pro 2021
- Imagery date May 2021
- Biodiversity data courtesy of SANBI BGIS 2020 and the WCBSP 2017

Kilometers

0 225 450 900 1 350 1 800

Map Drawn By:	Date	Reference
Melissa Mackay	2021/11/24	MOS618

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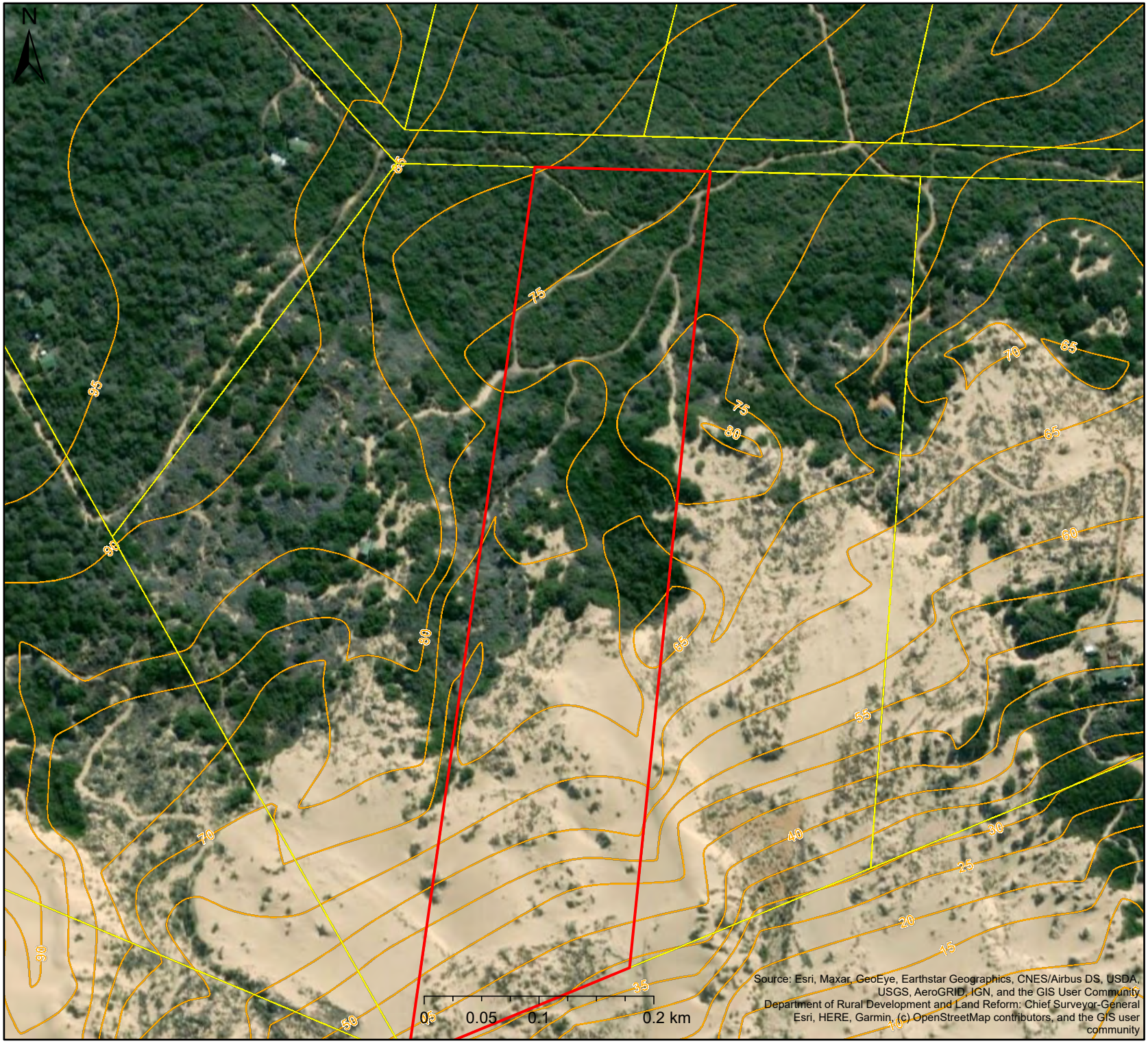
George 6530

NATIONAL FRESHWATER ECOSYSTEM PRIORITY AREAS (NFEPA)



Portion 19 of 257 Misgunst aan de

Legend

Farm Portions

Contours 5m

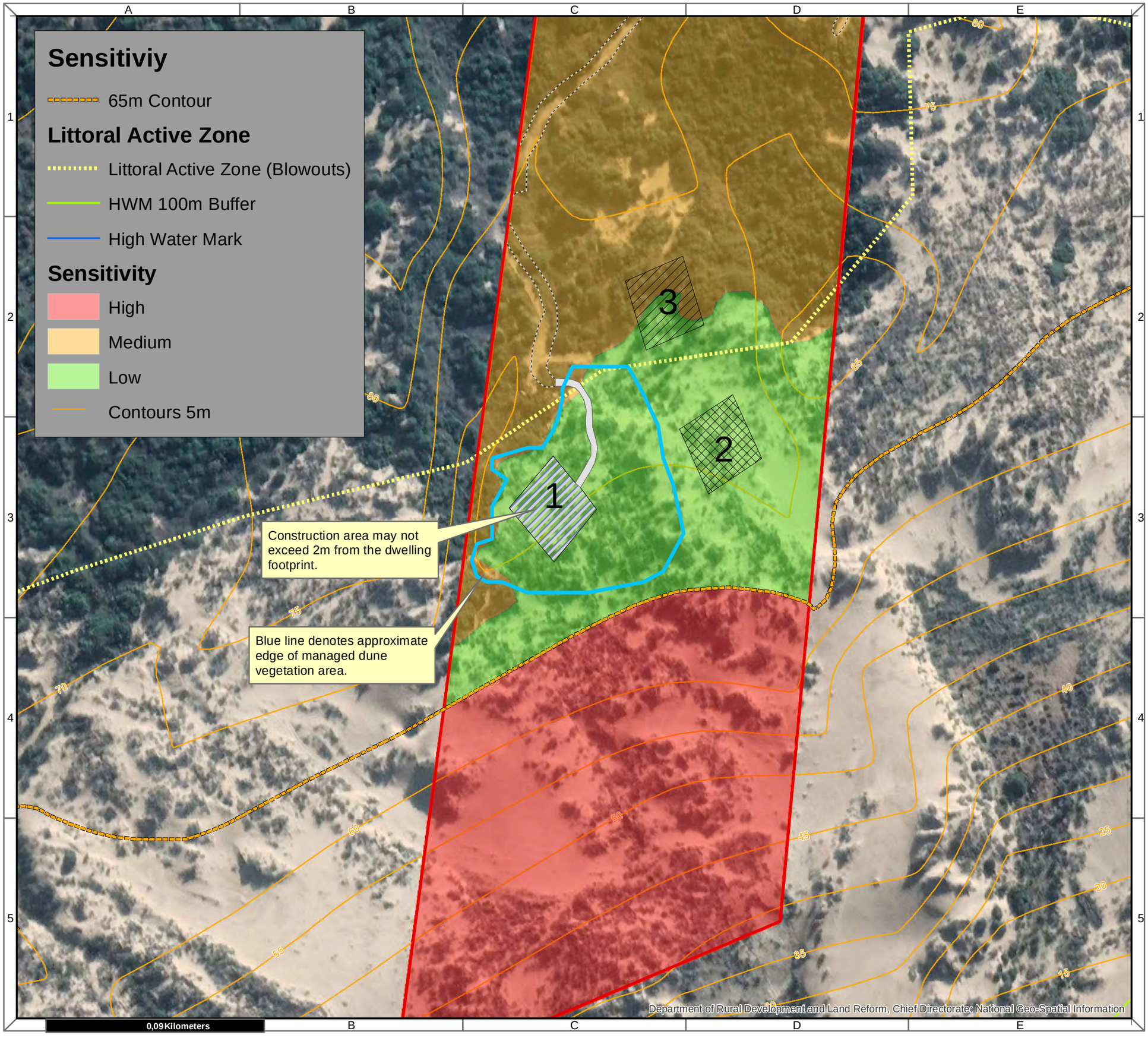
Scale: 1:4 514

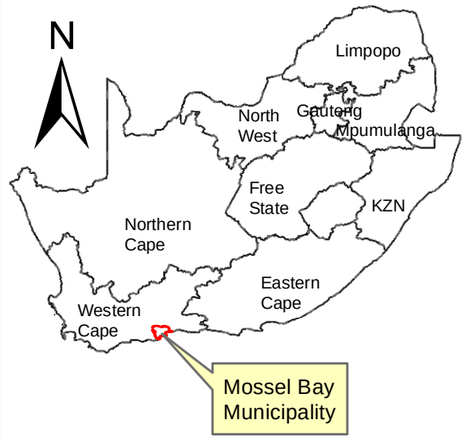
Date created: September 23, 2020

Compiled with CapeFarmMapper

Western Cape Government

Agriculture





House Steenekamp
Portion 19 of 25 Misgunst aan de Gouritz Rivier

Legend

- Portion_19_of_257

SDP

- Option 1
- Roads existing
- Roads new
- Open Space
- Option 2
- Option 3

Notes

- Map Scale is 1: 2 0800 when printed on A3
- Aerial image courtesy of Google Earth Pro 2022
- Imagery date May 2021

Kilometers

0 0,0125 0,025 0,05 0,075 0,1

Map Drawn By:	Date	Reference
Melissa Mackay	2022/04/26	MOS618

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SITE SENSITIVITY PLAN

Sentinel 2 Satellite Imagery

Sentinel 2 Bands and Combinations

There are 13 Sentinel 2 bands in total. Each band is 10, 20, or 60 meters in pixel size. Sentinel 2 consists of 2 satellites.

Normalized difference vegetation index (NVDI)

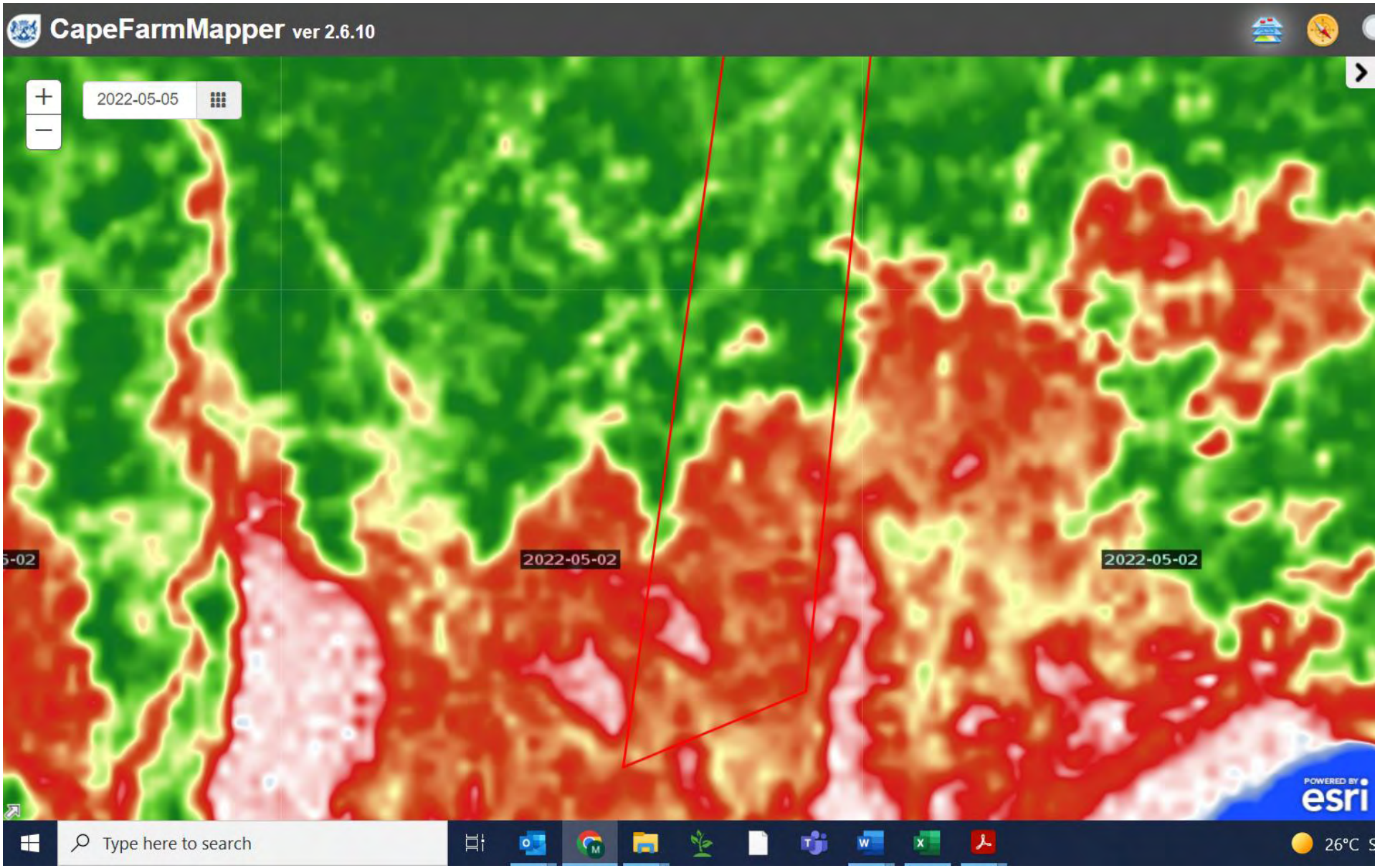
The well known and widely used NDVI is a simple, but effective index for quantifying green vegetation. It normalizes green leaf scattering in Near Infra-red wavelengths with chlorophyll absorption in red wavelengths.

The value range of the NDVI is -1 to 1. Negative values of NDVI (values approaching -1) correspond to water. Values close to zero (-0.1 to 0.1) generally correspond to barren areas of rock, sand, or snow. Low, positive values represent shrub and grassland (approximately 0.2 to 0.4), while high values indicate temperate and tropical rainforests (values approaching 1). It is a good proxy for live green vegetation.

Natural Color (B4, B3, B2)

The natural color band combination uses the red (B4), green (B3), and blue (B2) channels. Its purpose is to display imagery the same way our eyes see the world. Just like how we see, healthy vegetation is green. Next, urban features often appear white and grey. Finally, water is a shade of dark blue depending on how clean it is.

The three alternatives proposed for House Steenekamp have been mapped onto the Sentinel 2 NVDI and Natural Colour imagery for the periods 2017 / 2018 to 5 May 2022. The imagery clearly shows the stabilisation of thicket vegetation in these areas and the expansion of the vegetation across the dune system. This confirms the information from the coastal engineers report that the dune areas are systematically revegetating over time and that the active coastal processes are shifting southwards.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2022-05-02
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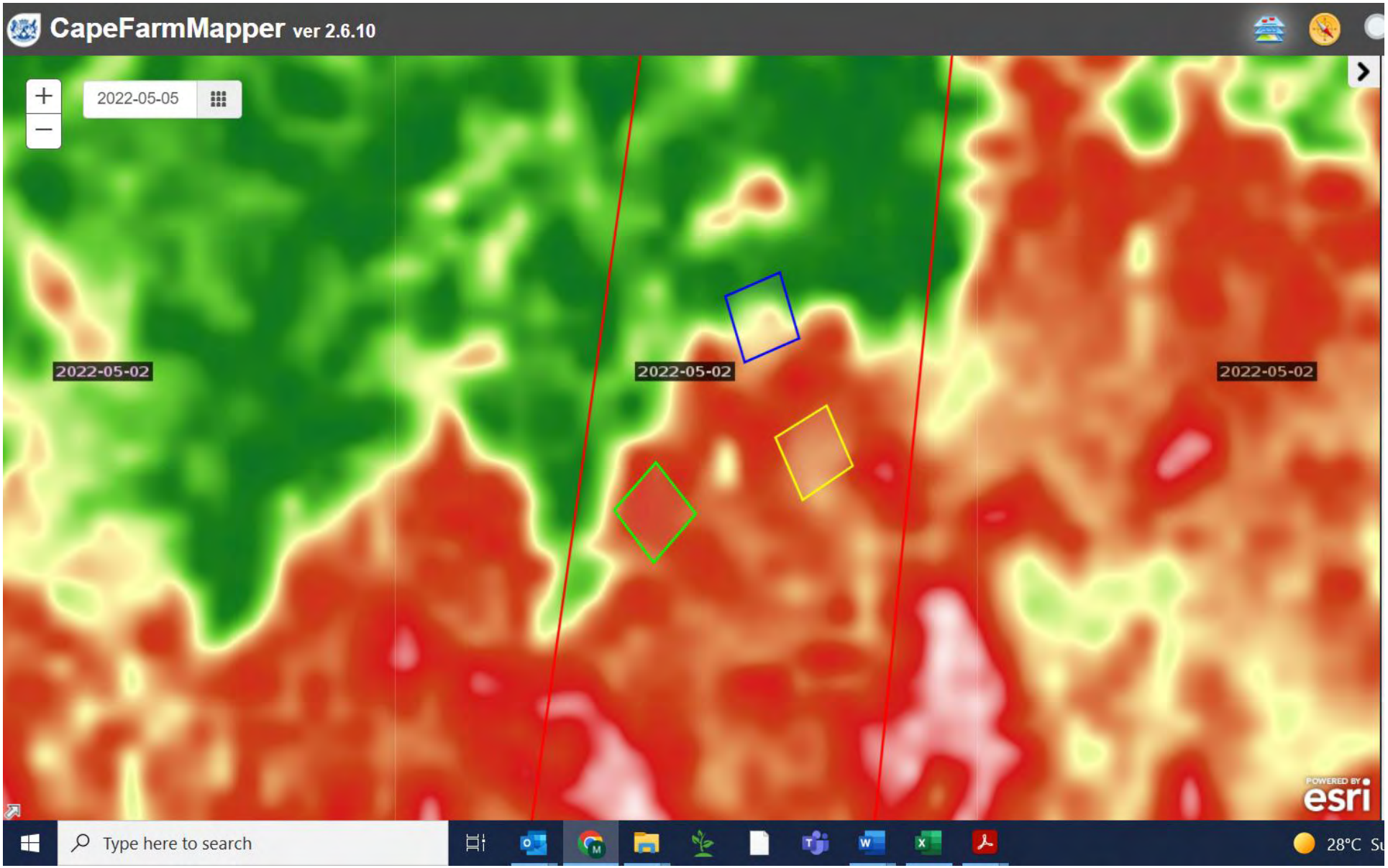
POWERED BY esri
Type here to search
26°C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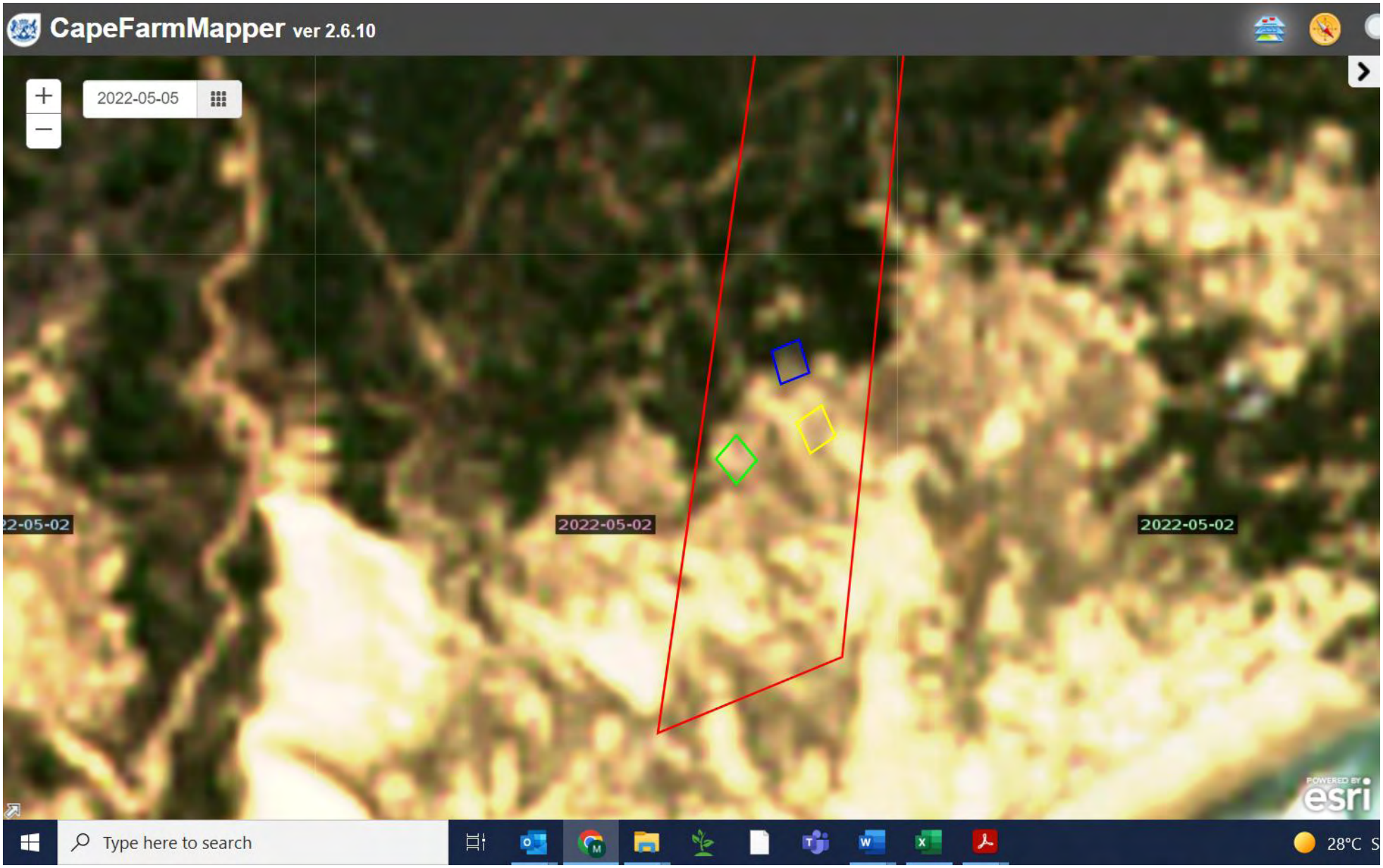
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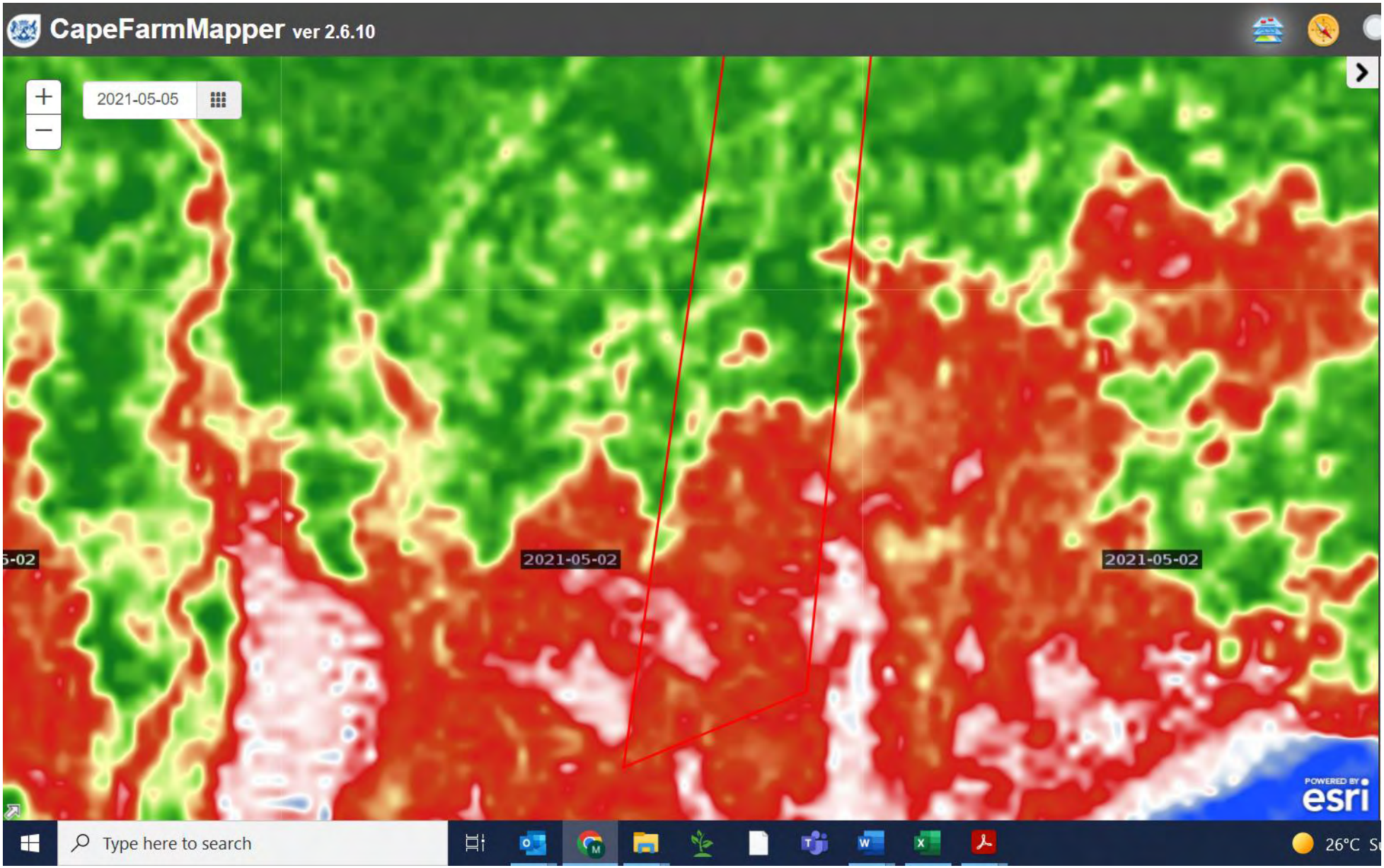
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Type here to search
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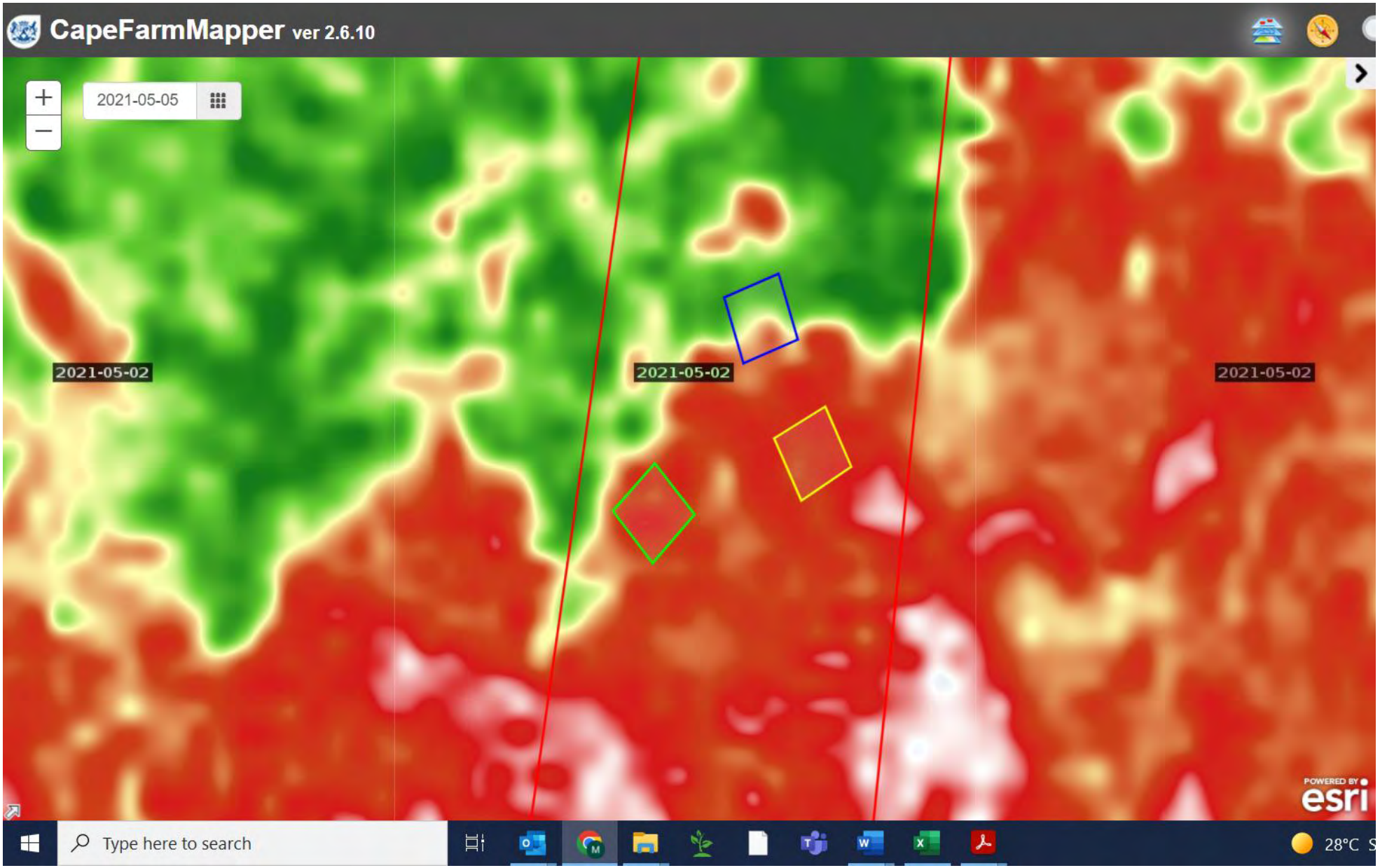
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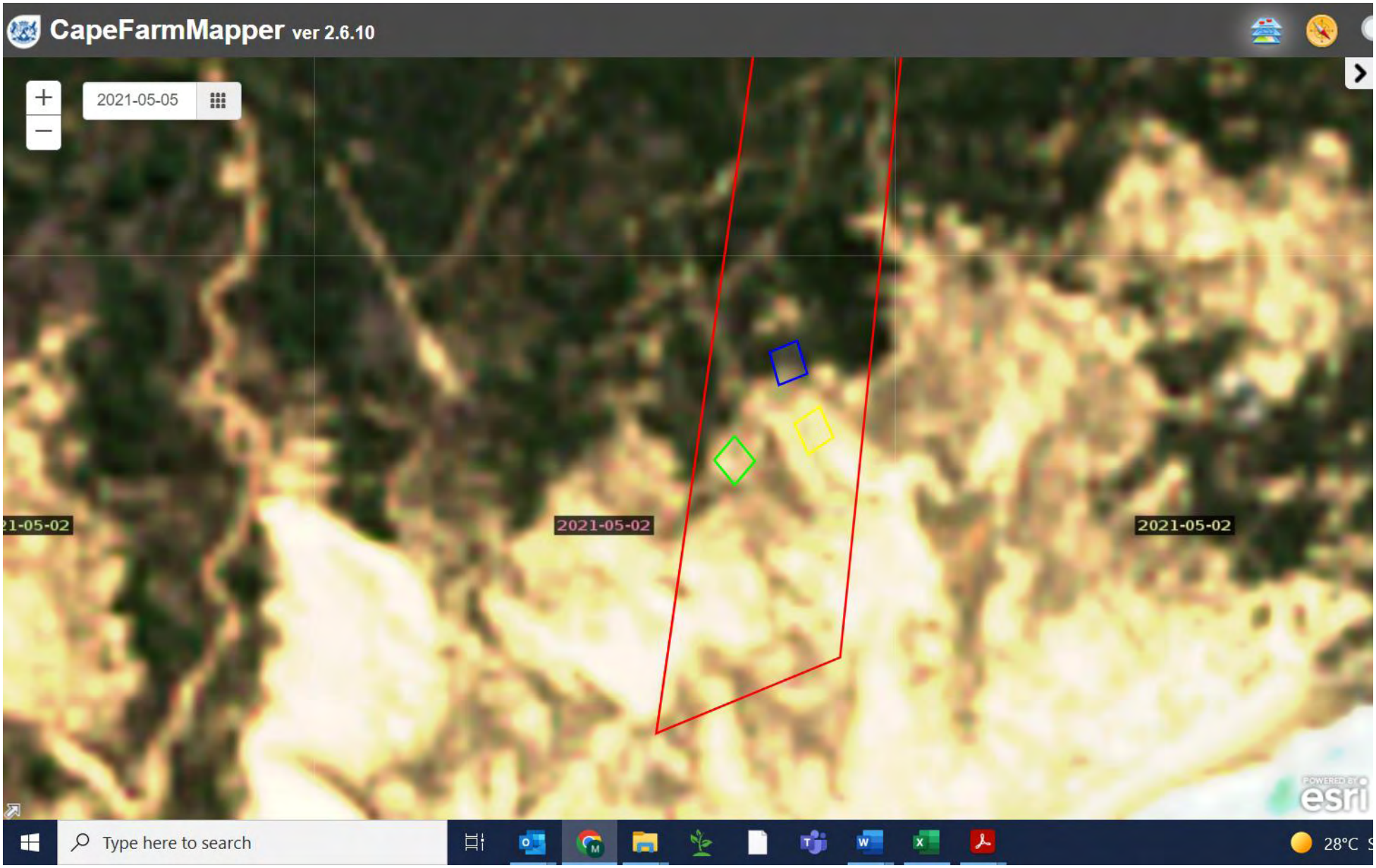
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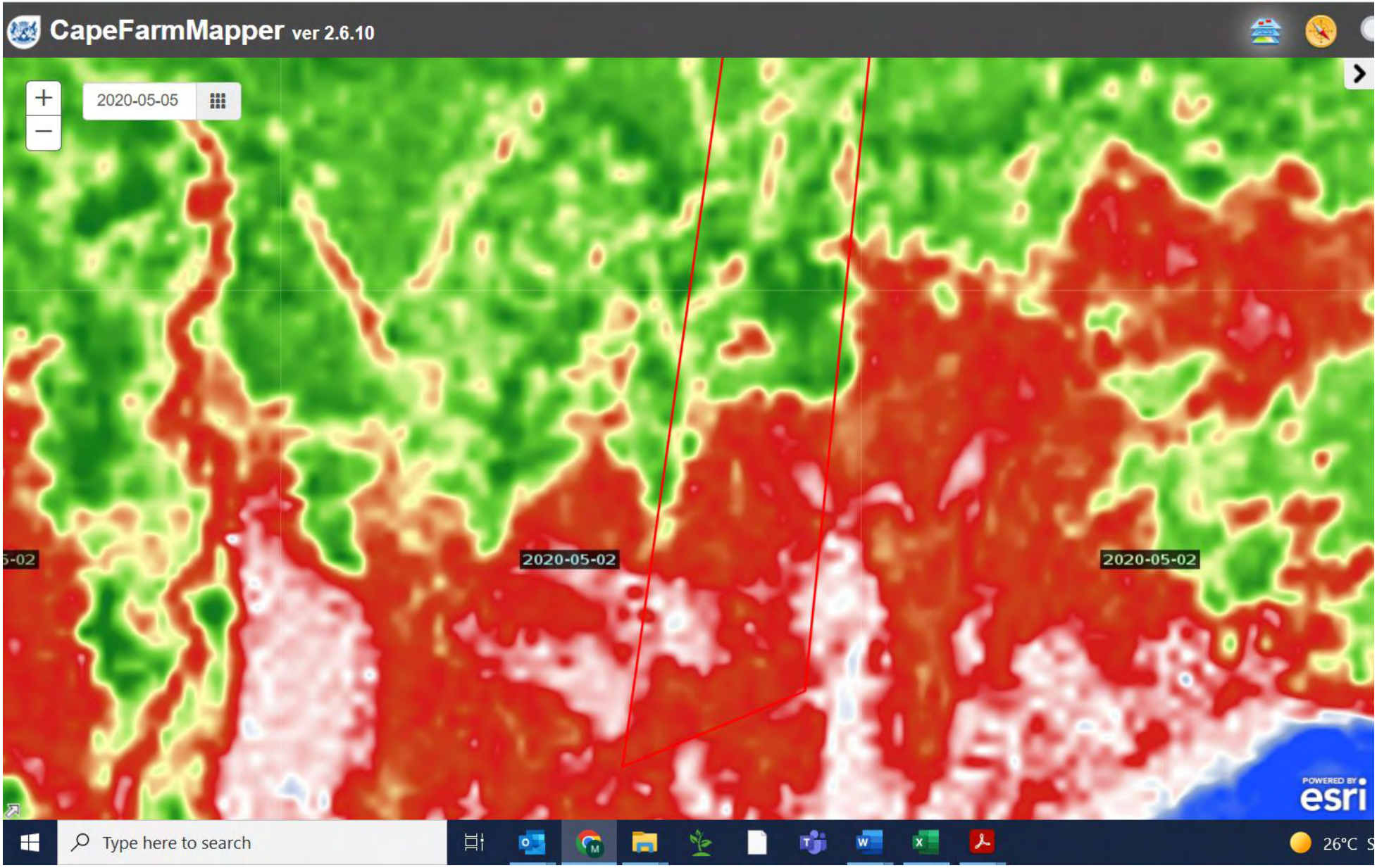
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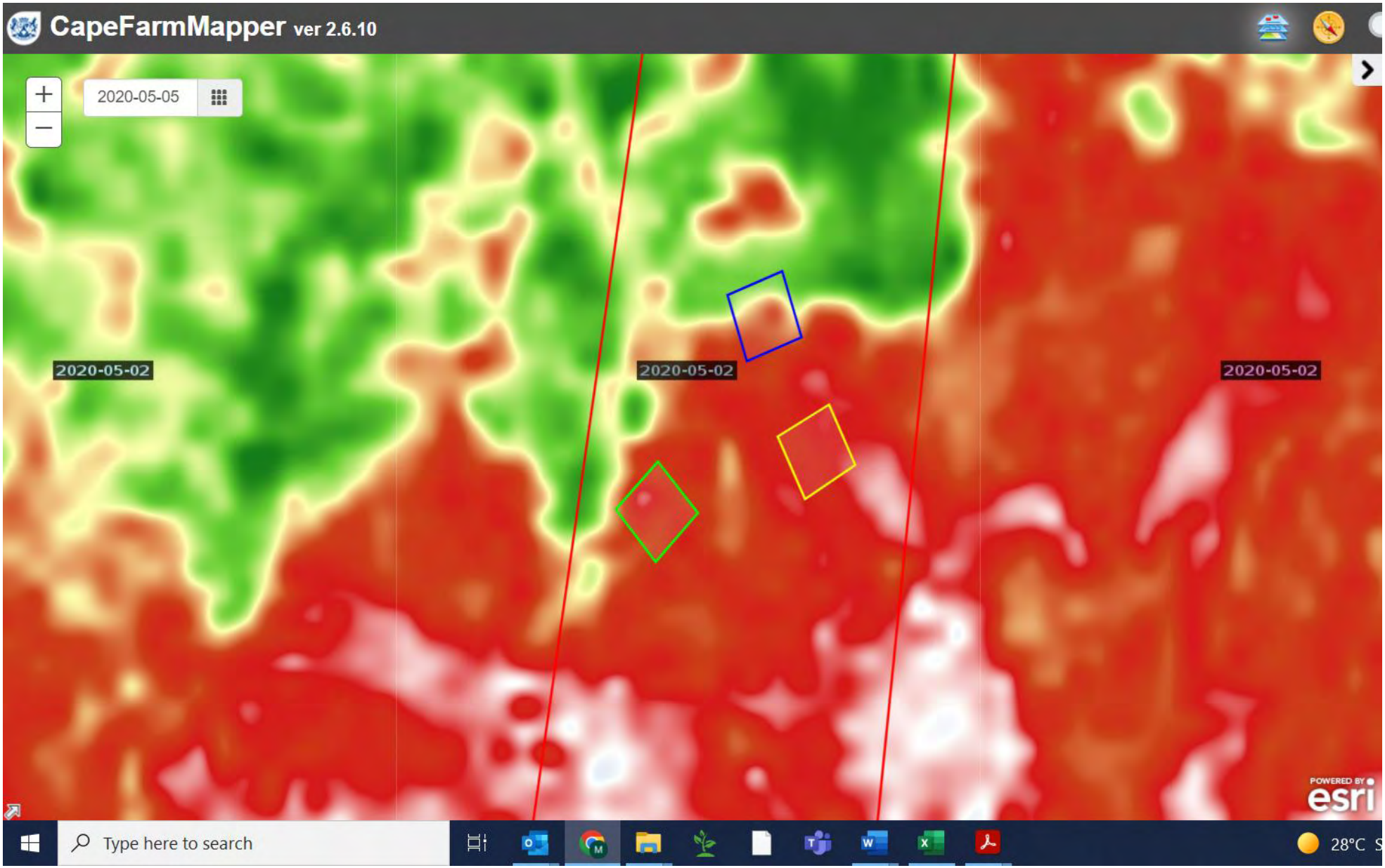
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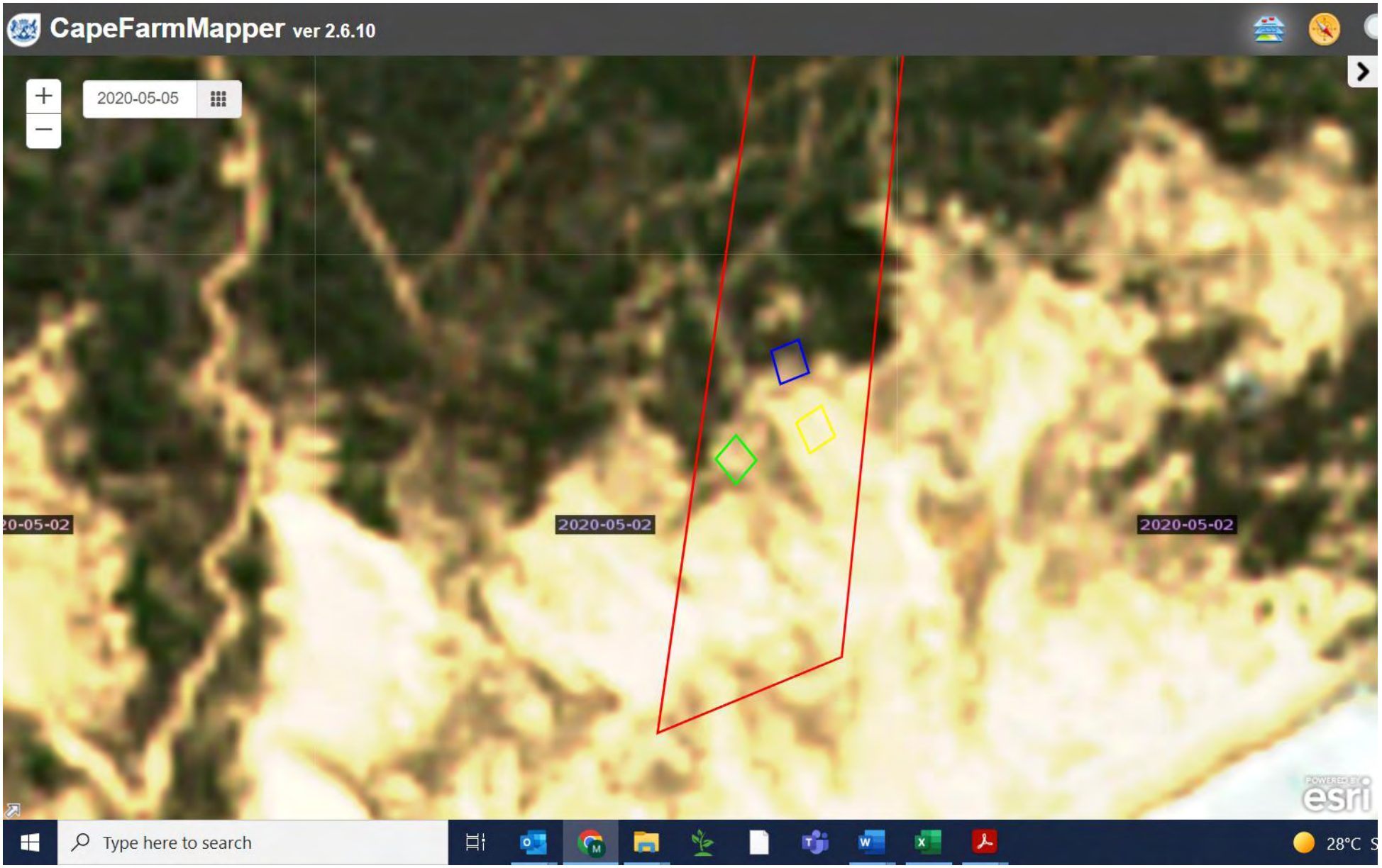
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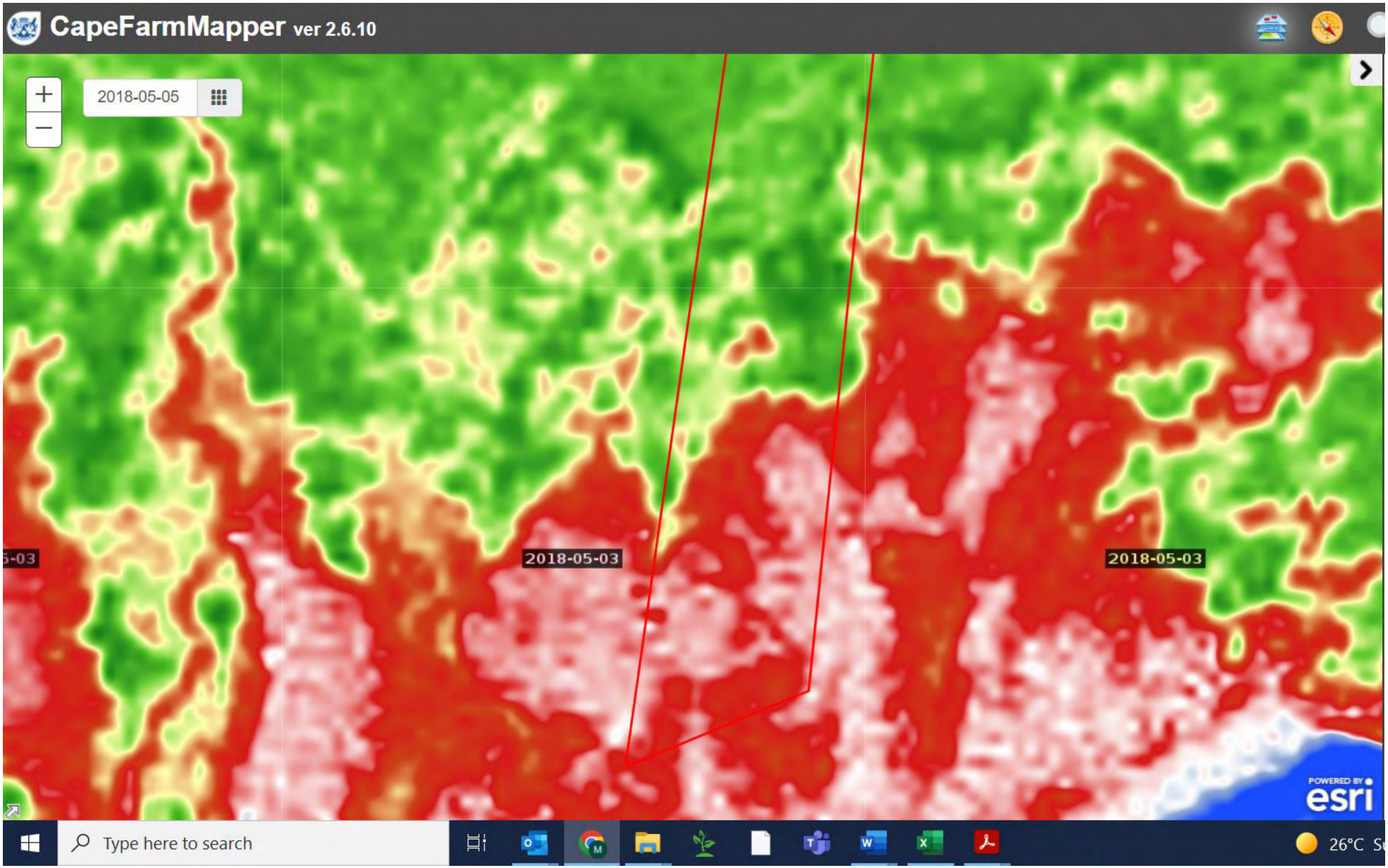
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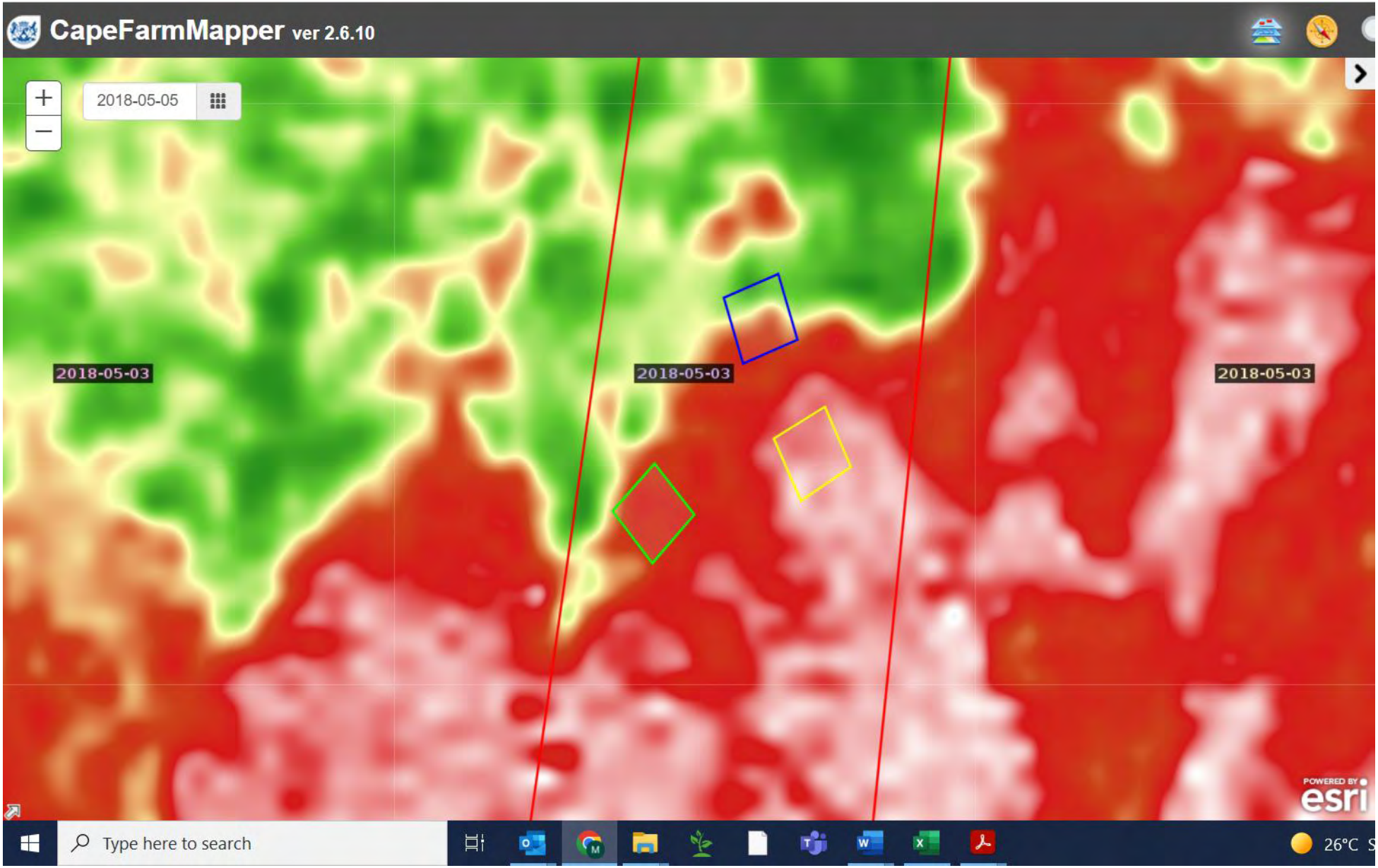
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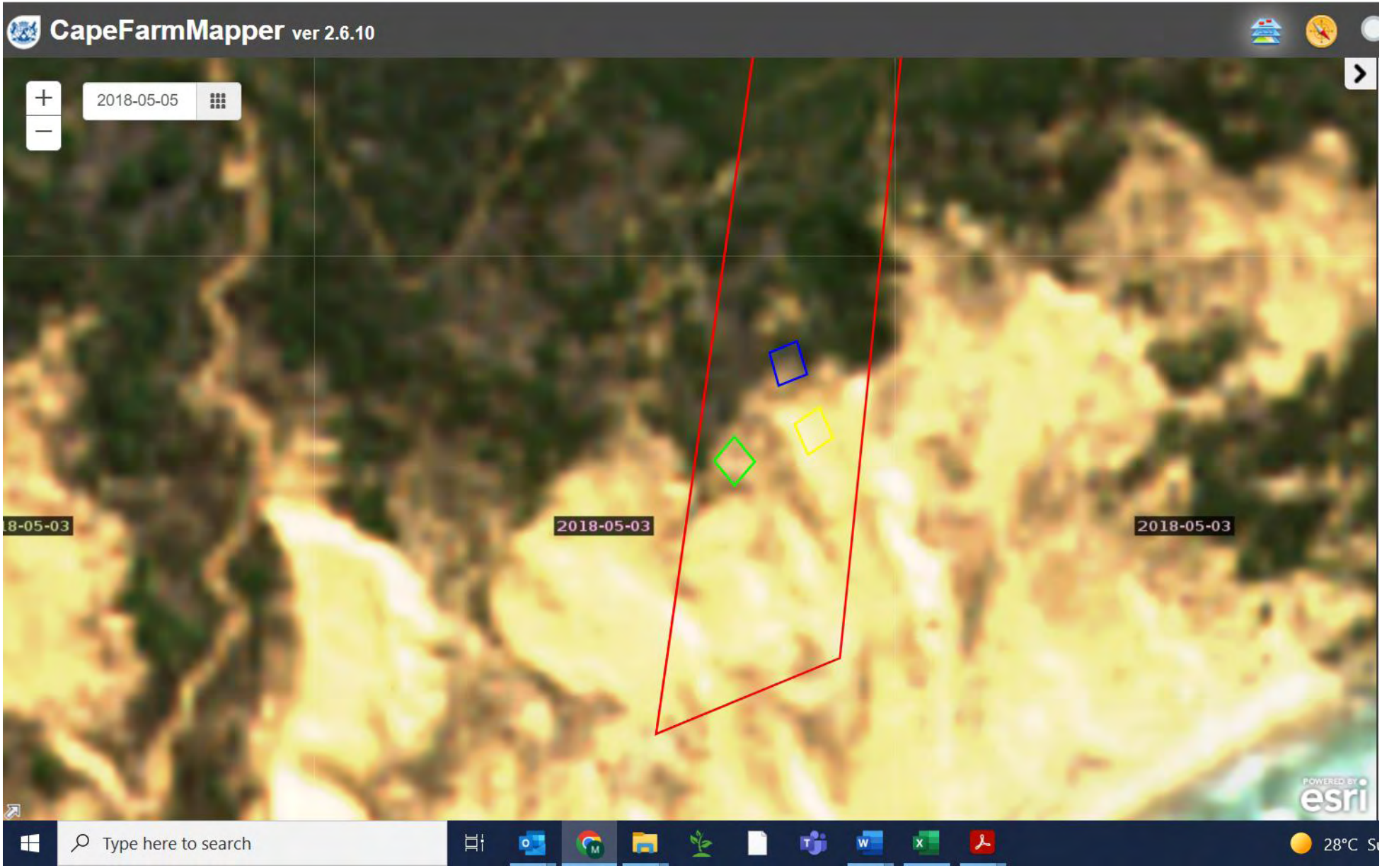
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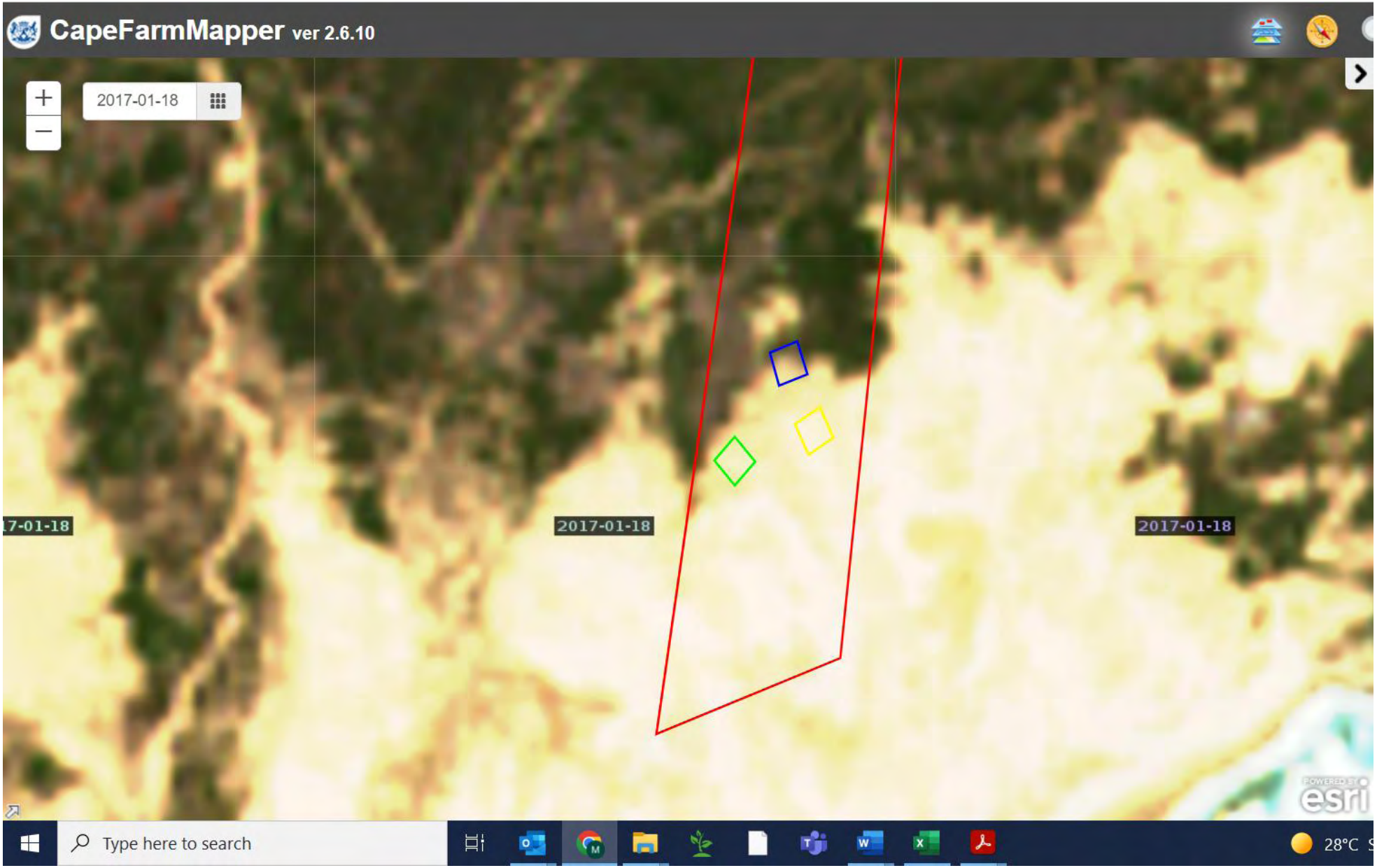
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