Dear Examiners

Thank you for reviewing my Masters thesis titled, "Assessing whether Soil Moisture Content (SMC) can be estimated for wetlands in the grassland biome of South Africa, using freely available spaceborne sensors" and providing suggestions and feedback for the improvement thereof.

Please find the table below which includes the response to suggestions and comments provided by the examiners

Sincerely,

Howar

Ridhwannah Gangat

1814325

Comment	Addressed
On line 28 of the abstract, please add the word 'in'higher ranges of SMC (≥ 50 %)	Done
The thesis contains 2 study area sections, one in the introduction and the other in	I have left the
the methods. I would suggest that these sections be condensed into one section	sections as is
and full description is given in the introduction together with the study area map	because section 1.4
	in the introduction
	provides a brief
	and general
	context as to why
	monitoring soil
	moisture content in
	the palustrine
	wetlands in the
	grassland biome of
	South Africa is
	important and why
	we chose that
	study area. This
	supports the aims
	and objectives.
	Whereas under
	sections 3 a full
	description and a
	little of the history
	is explained.
Page 9 of motivation section, the first sentence does not make sense as the decline	Done: I have
in the extent should be from 71% to 64% and not the other way round. This must	corrected this by
be corrected	swapping the two
	extents, therefore
	instead of reading
	as 71% to 64%, it
	now reads a 64% to
	71%.
Page 12, the thesis outline, add a full stop on line 5 SMC.	Done
Page 20, Paragraph 1, line 8, it should be monitor and not monitoring	Done
Page 24, paragraph 1, line 11, Because of the dielectric	Done
Page 25, paragraph 2, put a full stop at the end of the paragraph.	Done
Page 29, paragraph 2, line 3, Add a full stop at the end of the sentence passive	Done
and active.	
Page 34, paragraph 1, the first sentence leading from page 33 does not make	Done: I have
sense, please reword	reworded the
	sentence to read
	better by adding in
	the full dates on
	which the Sentinel
	sensors were
	launched.
In the annotated report, the examiner asked for a better quality map	I have kept the
	image because this
	is a Sentinel 2

	image that was
	downloaded. Other
	images such as
	google images or
	Landsat that were
	previously tested
	added no value to
	the contrast in for
	e.g. roads or
	buildings.
Page 37, paragraph 3, line 4-5, remove the full stop at the end of the sentence as it	-
	Done
continues to the next sentence (DEA, 2015). Near the koedoespoort railway	
Page 41, paragraph 2, line 11pixels and is to allow (not making sense)	Done: I have
	reworded the
	sentence by adding
	a full stop after
	'pixels' and the
	next sentence
	which start at, 'The
	higher spatial
	resolution'
	Explains why
	resampling 20 m to
	10 m was carried
	out.
Page 45, paragraph 2, line 7, reword line 7use only a fixed number of input	Done: I have
variables can be (not making sense)	reworded the
Tariasies can be (not making sense)	sentence so that
	message is clearer:
	'but they use only a
	fixed number of
	input variables and
	thus can only be
	·
	used if the data is assumed to be
	normally
Burger of the first of the firs	distributed.'
Page 56, paragraph 1, line 4, remove the word while , lower range of soil moisture, while less	Done
Page 65, last paragraph, line 5(VV) ($R^2 = 0.7$; RMSE = 16), the result table shows	Done: I included
different values for VV: $(R^2 = 0.92; RMSE = 10 \text{ for S1B and } R^2 = 0.76; RMSE = 17 \text{ for}$	the results (R2;
S1A), please correct these values on the sentence.	RMSE) or each
	sensor Sentinl-1A,
	Sentinel-1B and
	Sntinel-2A,
	Sentinel-2B,
	making it less
	confusing for the
	reader; whereas
	the previous
	version of the

Page 67, paragraph 1, line 3-4, you mention the data split outperformed the cross-validation, however the results table indicate contrary to this as the cross validation performed better, please correct this paragraph.	Masters dissertation only included the results for two sensors Corrected: I have corrected the statement by rewording the paragraph and explaining that although in certain cases the results show cross- validation to
	performed better in more cases than cross-validation.
Page 67, last paragraph, line 8, remove the full stop after the word small as the sentence continues.	Done
The page numbers of the thesis was not added and this will have to be added	Done