

COMMISSION 5 POSITIONING AND MEASUREMENT

TS09A Remote Sensing / Imagery Analysis and Modelling 2















Specifications of Satellite Data 🚳 UTM				
Satellite /sensor	Worldview-2			
Date launched	8 <sup>th</sup> Oct 2013			
Altitude	770 km			
Inclination	98.2°			
Swath width	16.4 km			
Orbit type	Sun-synchronous			
Equatorial crossing time	10.30 am $\pm$ 15 minute			
Quantization	11-bits (DN range:0-20-	47)		
Spatial resolution	0.46 m (PAN), 1.8 m (M	S)		
Wavelength	Band 1: 0.45-0.52 μm Band 2: 0.52-0.60 μm Band 3: 0.63-0.69 μm Band 4: 0.76-0.90 μm	Band 5: 1.55-1.75 μm Band 6: 10.4-12.5 μm Band 7: 2.08-2.35 μm Band 8: 2.08-2.35 μm		











Animal species		Total no. of animal within 8 weeks	
Scientific Name	Common Name		
Long-tailed Macaque	Monkey	270	In-situ
Hystrix brachyura	Porcupine	54	
Sus scrofa	Wild boar	474	observations,
Paradoxurus hermaphroditus	Palm Civet	7	derived
Prionailurus bengalensis	Leopard cat	1	ahundance
Varanus salvator	Monitor Lizard	6	abunuance
Canis lupus	Domestic Dog	8	
Callosciurus notatus	Squirrel	15	
Tupaia glis	Tree shrew	7	
Gallus gallus	Domestic chicken	7	
Amaurornis phoenicurus	Kiwi	30	
Acridotheses tristis	Myna	8	
Felis silvestris catus	Domestic cat	1	
Tragulus kanchil	Wild Deer	1	
Scotophilus kuhlii	Bat	1	
Copsychus saularis	Robin	1	
Eutropis multifasciata	Mabuya Lizard	1	
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5 mair JTM c	i hotsp ampus	oots of S	wildli	fe in		UNIVERSITI TEKNO
Table below	v shows the d	ominant spe	cies of anima	l at every hot Domina	spot in UTM	campus. cies
	1	44	r r		Wild boar	
	2	30		Long-	tailed Macaqu	ie
	3	30		Long-	tailed Macaqu	ie
	4	37		Long-	tailed Macaqu	ie
	5	34			Wild boar	
	6	30		Long-	tailed Macaqu	ie
Hotspot	1	2	3	4	5	6
NDVI	0.317918	0.318393	0.082261	0.431036	0.364139	0.501157
Richness	3.999948	5.999949	4.999885	3.999876	3.999979	8.999472
Evenness	0.073546	0.501109	0.131856	0.735265	0.543112	0.296785
Diversity	3.27266	2.880776	3.249923	2.611701	2.685176	5.327552
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Assessme	ents		CINOLOGI MALAYSIA
Summary of assess	ment of biodiversity index map	derived from WV2 data	set.
	<b>Biodiversity Index</b>	RMSE	
	Diversity	1.860	
	Richness	3.654	
	Evenness	0.324	
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