

Supplementary Material

Tab. S1 - List of the 22 vegetation indices used in this study.

Vegetation Index	Name	Formula	Reference
DVI	Difference Vegetation Index	$a B8 - B4$ where: a is the slope of the soil line	Richardson & Wiegand (1977).
NDVI	Normalized Difference Vegetation Index	$(B8-B4)/(B8+B4)$	Rousel et al. (1973)
GNDVI	Green Normalized Difference Vegetation Index	$(B8-B3)/(B8+B3)$	Gitelson et al. (1996)
IPVI	Infrared Percentage Vegetation Index	$(B8) / (B8 + B4)$	Crippen (1990)
SAVI	Soil Adjusted Vegetation Index	$(1 + L) * (B8 - B4) / (B8 + B4 + L)$ $L = 0.5$	Huete (1988)
MSAVI	Modified Soil Adjusted Vegetation Index	$(1 + L) * (B8 - B4) / (B8 + B4 + L)$ where: $L = 1 - 2 * s * NDVI * WDV$ and s is the soil line slope	Qi et al. (1994)
PVI	Perpendicular Vegetation Index	$PVI = \sin(a) * B8 - \cos(a) * B4$ where: a is the angle between the soil line and the NIR axis, in degrees.	Richardson & Wiegand (1977).
RVI	Ratio Vegetation Index	$B8 / B4$	Tucker (1979)
TNDVI	Transformed Normalized Difference Vegetation Index	$(\text{Sqrt NDVI} + 0.5)$	Deering et al. (1975)
TSAVI	Transformed Soil Adjusted Vegetation Index	$a(B8 - aB4 - b) / \{B4 + aB8 - ab + 0.08(1 + a^2)\}$ where: a is the slope of the soil line and b is intercept of the soil line	Baret & Guyot (1991)
WDVI	Weighted Difference Vegetation Index	$B8 - a \text{ red}$ where: a is the slope of the soil	Clevers (1993)
ARVI	Atmospherically Resistant Vegetation Index	$(B8 - rb) / (B8 + rb)$ $rb = (B4) - \text{gamma} * (B2 - B4)$, with $\text{gamma} = 1$	Kaufman & Tanre (1992)
IRECI	Inverted Red-Edge Chlorophyll Index	$(B7 - B4) / (B5 / B6)$	Guyot & Baret (1988)

Vegetation Index	Name	Formula	Reference
NDII	Normalized Difference Infrared Index	$(B8-B11)/(B8+B11)$	Hardisky et al. (1984)
SIPI	Structure Intensive Pigment Index	$(B8-B2)/(B8-B4)$	Blackburn (1998)
MCARI	Modified Chlorophyll Absorption Ratio Index	$[(B5 - B4) - 0.2 * (B5 - B3)] * (B5 - B4)$	Daughtry et al. (2000)
MTCI	Meris Terrestrial Chlorophyll Index	$(B6 - B5)/(B5 - B4)$	Dash & Curran (2007)
NDI45	Normalized Difference Index	$(b5 - red) / (b5 + red)$	Delegido et al. (2013)
NDI705	Red-edge NDVI (NDVI705)	$(R750 - R705) / (R750 + R705)$	Rouse et al. (1973)
PSSRa	Pigment Specific Simple Ratio	$B7 / B4$	Blackburn (1998)
REIP	Red-Edge Inflection Point Index	$700 + 40 * ((B4 + B7)/2 - B5) / (B6 - B5)$	Guyot et al. (1988)
S2REP	Sentinel-2 Red-Edge Position Index	$705 + 35 * ((B4 + B7)/2 - B5) / (B6 - B5)$	Guyot & Baret (1988).