

Normalised Difference Water Index (McFeeters, 1996)

$$\text{NDWI} = \frac{\text{Green} - \text{NIR}}{\text{Green} + \text{NIR}}$$

Modified NDWI (Xu, 2006)

$$\text{MNDWI} = \frac{\text{Green} - \text{SWIR}}{\text{Green} + \text{SWIR}}$$

Normalised Difference Pond Index (Lacaux et al., 2007)

$$\text{NDPI} = \frac{\text{SWIR} - \text{Green}}{\text{SWIR} + \text{Green}}$$

Normalised Difference Moisture Index (Gao, 1996)

$$\text{NDMI} = \frac{\text{NIR} - \text{SWIR}}{\text{NIR} + \text{SWIR}}$$

Normalised Difference Turbidity Index (Lacaux et al., 2007)

$$\text{NDTI} = \frac{\text{Red} - \text{Green}}{\text{Red} + \text{Green}}$$

Normalised Difference Vegetation Index (Rouse et al., 1973)

$$\text{NDVI} = \frac{\text{NIR} - \text{Red}}{\text{NIR} + \text{Red}}$$

Automated Water Extraction Index (Feyisa et al., 2014)

$$\text{AWEI}_{\text{nsh}} = 4 \cdot (\text{Green} - \text{SWIR}_1) - (0.25 \cdot \text{NIR}_4 + 2.75 \cdot \text{SWIR}_2)$$