Predictor Variables for Lake Catchment Analysis

|  |  |  |  |
| --- | --- | --- | --- |
| Predictor | Description | Type | Units |
| Lake\_ID | Lake identifier | ID | – |
| Year | Year of observation | Temporal | – |
| Week | Week of the year | Temporal | – |
| chla\_mean | Chlorophyll-a concentration | Temporal | mg/m³ |
| lswt\_mean | Lake surface water temperature | Temporal | °C |
| lake\_mix\_layer\_temperature | Mixed layer temperature | Temporal | °C |
| temperature\_2m | Air temperature at 2m | Temporal | °C |
| runoff\_sum | Total runoff | Temporal | mm/week |
| surface\_runoff\_sum | Surface runoff | Temporal | mm/week |
| total\_precipitation\_sum | Total precipitation | Temporal | mm/week |
| Lake\_area | Lake surface area | Static | km² |
| Shore\_len | Shoreline length | Static | km |
| Shore\_dev | Shoreline development index | Static | – |
| Vol\_total | Total lake volume | Static | km³ |
| Depth\_avg | Average depth | Static | m |
| Dis\_avg | Average discharge | Static | m³/s |
| Res\_time | Residence time | Static | days |
| Elevation | Lake surface elevation | Static | m a.s.l. |
| Slope\_100 | Slope in 100m window | Static | % |
| Wshd\_area | Watershed area | Static | km² |
| Grassland | Grassland cover | Static | % |
| Tree\_broad\_deciduous | Deciduous broadleaf cover | Static | % |
| Shrub\_herb\_flooded | Flooded herb/shrub cover | Static | % |
| Shrubland | Shrubland cover | Static | % |
| Tree\_needle\_evergreen | Evergreen needleleaf cover | Static | % |