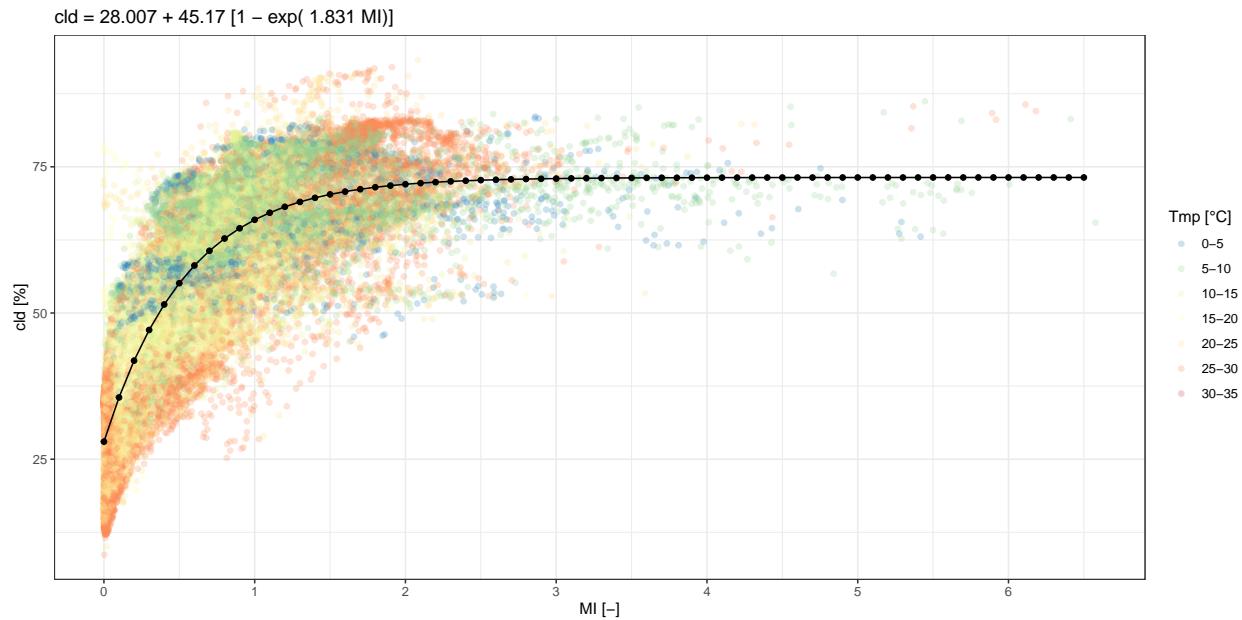


Cloud coverage (`cld`) and VPD

Cloud coverage (`cld`)

Linear regression

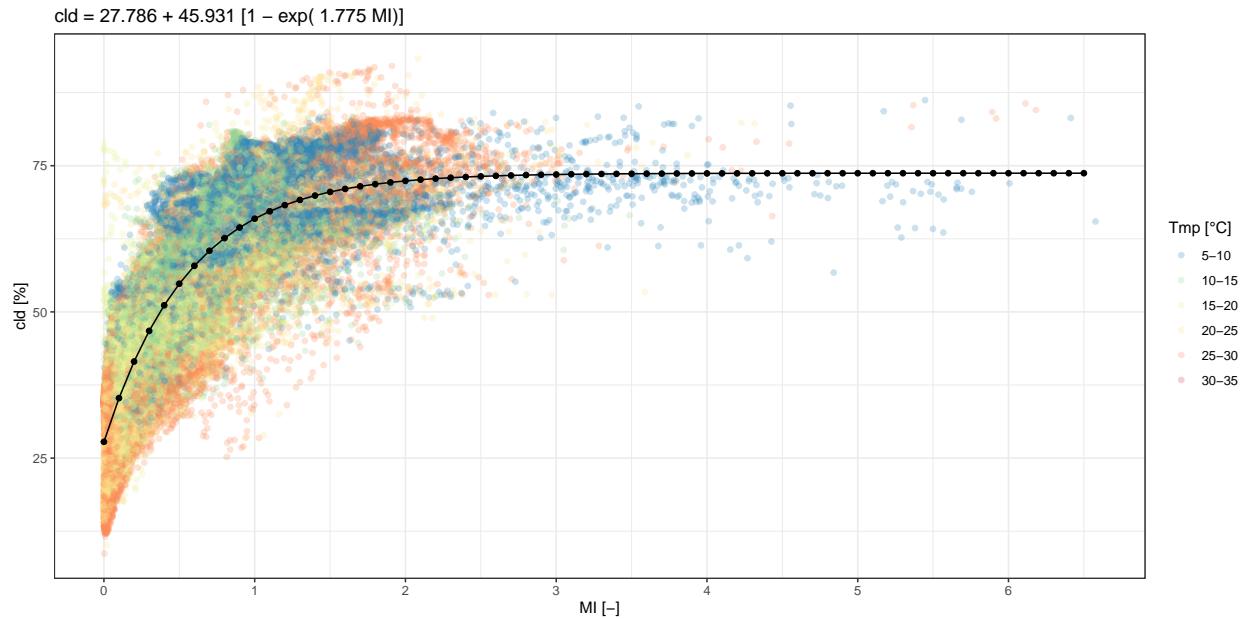
RMSE	R2
8.418736	0.6982215



```
#>
#> Formula: CLD ~ a + b * (1 - exp(-kMI * MI))
#>
#> Parameters:
#>   Estimate Std. Error t value Pr(>|t|)
#>   a     28.00680   0.12545 223.3   <2e-16 ***
#>   kMI   1.83127   0.01589 115.2   <2e-16 ***
#>   b     45.17031   0.14309 315.7   <2e-16 ***
#> ---
#> Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
#>
#> Residual standard error: 8.37 on 44991 degrees of freedom
#>
#> Number of iterations to convergence: 325
#> Achieved convergence tolerance: 1.615e-09
```

Linear regression ($T_c \geq 5$)

RMSE	R2
8.421604	0.6983247



```
#>
#> Formula: CLD ~ a + b * (1 - exp(-kMI * MI))
#>
#> Parameters:
#>   Estimate Std. Error t value Pr(>|t|)
#> a    27.78646   0.12636  219.9   <2e-16 ***
#> kMI  1.77522   0.01602  110.8   <2e-16 ***
#> b    45.93129   0.14974  306.7   <2e-16 ***
#> ---
#> Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
#>
#> Residual standard error: 8.417 on 42204 degrees of freedom
#>
#> Number of iterations to convergence: 330
#> Achieved convergence tolerance: 3.397e-09
```

Growing season VPD

```
#>
#> Formula: vpd ~ a * exp(kTmp *Tmp - kMI * MI)
#>
#> Parameters:
#>             Estimate Std. Error t value Pr(>|t|)
#> a      4.6123245  0.0237225 194.4   <2e-16 ***
#> kTmp  0.0609249  0.0002073 294.0   <2e-16 ***
#> kMI   0.8725886  0.0030810 283.2   <2e-16 ***
#> ---
#> Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
#>
#> Residual standard error: 2.232 on 42202 degrees of freedom
#>
#> Number of iterations to convergence: 8
#> Achieved convergence tolerance: 7.373e-06
```

