| HAB Variable (Threshold) | Best-fit Logistic GLM - **RS** $P_{bloom} = e^{(logit)}/[e^{(logit)} + 1]$ | DF | AIC | POD | FAR | POFD | HSS | Optimized Probability Threshold | Nagelkerke's $R^2$ |
|---|---|---|---|---|---|---|---|---|---|
| *Pseudo-nitzschia* ($10^4$ cells mL$^{-1}$) | **(i)** logit = 8.54 - 10.84*[$R_{rs}$ (510/555)] – 0.216*[Month] + 4.67*[$R_{rs}$(490/555)] | 140 | 131 | 0.86 | 0.15 | 0.33 | 0.54 | 0.64 | 0.33 |
| | **(ii)** logit = 5.32 – 2.87*[$R_{rs}$ (490/555)] – 0.165*[Month] | 141 | 139 | 0.88 | 0.15 | 0.33 | 0.56 | 0.4 | 0.28 |
| pDA (500 ng L$^{-1}$) | logit = -134.3 + 0.253[Chl] + 4.0*[Sal] – 502*[$R_{rs}$ (555)] | 157 | 178 | 0.83 | 0.48 | 0.35 | 0.42 | 0.29 | 0.19 |
| cDA (10 pg cell$^{-1}$) | logit = -90.0 - 0.35*[Temp] – 666*[$R_{rs}$ (555)] + 2.87*[Sal ] | 134 | 158 | 0.9 | 0.55 | 0.52 | 0.42 | 0.35 | 0.15 |