WeightedLinearEnsemble evaluation new

```
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 4.0.5
library(dplyr)
## Warning: package 'dplyr' was built under R version 4.0.5
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(tidyr)
## Warning: package 'tidyr' was built under R version 4.0.5
library(comprehenr)
## Warning: package 'comprehenr' was built under R version 4.0.5
library(stringr)
library(ungeviz)
library(relayer)
## Note: The package "relayer" is highly experimental. Use at your own risk.
library(patchwork)
## Warning: package 'patchwork' was built under R version 4.0.3
library(xtable)
```

```
my_plot_hook <- function(x, options)</pre>
  paste("\n", knitr::hook_plot_tex(x, options), "\n")
knitr::knit_hooks$set(plot = my_plot_hook)
base_dir <- "D:/skola/1/weighted_ensembles/tests/test_cifar_2021/data/data_tv_5000_c100/0/evaluation_va
net_df <- read.csv(file.path(base_dir, "net_metrics.csv"))</pre>
ens_df_cal <- read.csv(file.path(base_dir, "ens_cal_metrics.csv"))</pre>
ens_df_pwc <- read.csv(file.path(base_dir, "ens_pwc_metrics.csv"))</pre>
net_long <- pivot_longer(net_df,</pre>
cols = c("accuracy", "nll", "ece"),
 names_to = "metric", values_to = "value"
ens_cal_long <- pivot_longer(ens_df_cal,</pre>
  cols = c("accuracy", "nll", "ece"),
 names_to = "metric", values_to = "value"
ens_pwc_long <- pivot_longer(ens_df_pwc,</pre>
 cols = c("accuracy", "nll", "ece"),
  names_to = "metric", values_to = "value"
networks <- net_df$network</pre>
comb stats df <- data.frame(matrix(</pre>
 ncol = 14, nrow = 0,
  dimnames = list(NULL, c(
    "combination_size", "combination_id",
    "acc_min", "acc_max", "acc_avg", "acc_var",
    "nll_min", "nll_max", "nll_avg", "nll_var",
    "ece_min", "ece_max", "ece_avg", "ece_var"
  ))
))
for (sss in unique(ens_df_cal$combination_size))
  for (ssi in unique(ens_df_cal %>%
    filter(combination_size == sss) %>%
    pull(combination_id)))
    cur_nets_vec <- to_vec(</pre>
      for (net in networks) {
        if (str_replace_all(net, "-", ".") %in% colnames(ens_cal_long) &&
          (ens cal long %>%
            filter(combination_size == sss & combination_id == ssi) %>%
            pull(str_replace_all(net, "-", ".")))[1] == "True") {
          net
        }
      }
    cur_nets <- net_df %>% filter(network %in% cur_nets_vec)
    comb_stats_df[nrow(comb_stats_df) + 1, ] <- c(</pre>
      sss, ssi,
```

```
min(cur_nets$accuracy), max(cur_nets$accuracy), mean(cur_nets$accuracy), var(cur_nets$accuracy),
    min(cur_nets$nll), max(cur_nets$nll), mean(cur_nets$nll), var(cur_nets$nll),
    min(cur_nets$ece), max(cur_nets$ece), mean(cur_nets$ece), var(cur_nets$ece)
}

ens_df_cal <- merge(ens_df_cal, comb_stats_df)
ens_df_cal$acc_imp_avg <- ens_df_cal$accuracy - ens_df_cal$acc_avg
ens_df_cal$acc_imp_max <- ens_df_cal$accuracy - ens_df_cal$acc_max

ens_df_pwc <- merge(ens_df_pwc, comb_stats_df)
ens_df_pwc$acc_imp_avg <- ens_df_pwc$accuracy - ens_df_pwc$acc_avg
ens_df_pwc$acc_imp_avg <- ens_df_pwc$accuracy - ens_df_pwc$acc_avg
ens_df_pwc$acc_imp_max <- ens_df_pwc$accuracy - ens_df_pwc$acc_max

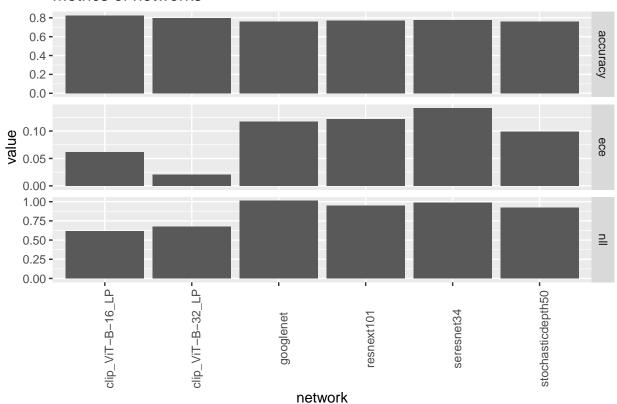
nets_plot <- ggplot(data = net_long) +
    geom_col(mapping = aes(x = network, y = value)) +
    facet_grid(rows = vars(metric), scales = "free") +</pre>
```

Metrics of networks

ggtitle("Metrics of networks")

nets_plot

theme(axis.text.x = element_text(angle = 90)) +



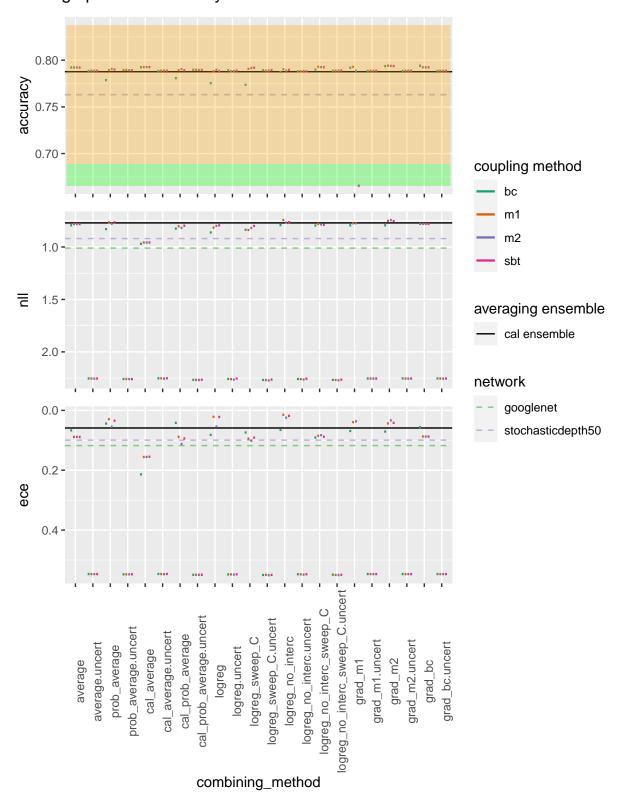
```
ens_pwc_plt_df <- ens_df_pwc %>% filter(combining_method != "lda")
ens_cal_plt_df <- ens_df_cal
comb methods <- c(
    "average", "prob_average",
    "cal_average", "cal_prob_average",
   "logreg", "logreg_sweep_C",
   "logreg_no_interc", "logreg_no_interc_sweep_C",
    "grad_m1", "grad_m2", "grad_bc"
comb_methods <- c(sapply(X=comb_methods, FUN={function(cm) c(cm, paste(cm, "uncert", sep="."))}))</pre>
ens_pwc_plt_df$combining_method <- factor(ens_pwc_plt_df$combining_method,
 levels = comb_methods)
for (sss in unique(ens_cal_plt_df$combination_size))
 for (ssi in unique(ens_cal_plt_df %>%
   filter(combination_size == sss) %>%
   pull(combination_id)))
    cur_ens_cal <- ens_cal_plt_df %>% filter(combination_size == sss &
      combination id == ssi)
   cur_ens_pwc <- ens_pwc_plt_df %>% filter(combination_size == sss &
      combination id == ssi)
   cur nets vec <- to vec(
      for (net in networks) {
        if (str_replace_all(net, "-", ".") %in% colnames(cur_ens_cal) &&
          cur_ens_cal[[str_replace_all(net, "-", ".")]][1] == "True") {
          net
       }
     }
    cur_nets <- net_df %>% filter(network %in% cur_nets_vec)
    acc_plot <- ggplot() +</pre>
      (
       geom_hline(
         data = cur_nets,
          mapping = aes(yintercept = accuracy, colour1 = network),
          linetype = "dashed"
        ) %>%
          rename geom aes(new aes = c("colour" = "colour1"))
      geom_hline(
       data = cur_ens_cal,
       mapping = aes(yintercept = accuracy, color = "cal ensemble")
       geom_hpline(
         data = cur_ens_pwc,
         mapping = aes(
           x = combining_method, y = accuracy,
```

```
colour2 = coupling_method
      ),
      size = 0.8, width = 0.11,
      position = position_dodge(width = 0.65)
    ) %>%
      rename_geom_aes(new_aes = c("colour" = "colour2"))
  scale_colour_brewer(
    aesthetics = "colour1", palette = 1,
    name = "network", type = "qual"
  scale_colour_brewer(
    aesthetics = "colour2", palette = 2,
    name = "coupling method", type = "qual"
  scale_color_manual(values = c("black"), name = "averaging ensemble") +
  theme(
    axis.text.x = element_blank(),
    axis.title.x = element_blank()
  )
y_limits <- layer_scales(acc_plot)$y$get_limits()</pre>
x_limits <- layer_scales(acc_plot)$x$get_limits()</pre>
all_y_lim <- c(y_limits[1], cur_ens_cal$all_cor)</pre>
acc_plot <- acc_plot +</pre>
  geom_rect(
    data = cur_ens_cal,
    mapping = aes(
     xmin = 0.5,
      xmax = length(x_limits) + 0.5,
      ymin = max(all_cor, y_limits[1]), ymax = all_cor + err_incons
    ),
   fill = "orange",
    alpha = 0.3, color = NA
if (all_y_lim[1] < all_y_lim[2]) {</pre>
  acc_plot <- acc_plot +</pre>
    geom_rect(
      data = cur_ens_cal,
      mapping = aes(
        xmin = 0.5,
        xmax = length(x_limits) + 0.5,
       ymin = all_y_lim[1], ymax = all_y_lim[2]
      ), fill = "green",
      alpha = 0.3, color = NA
}
nll_plot <- ggplot() +</pre>
    geom_hline(
```

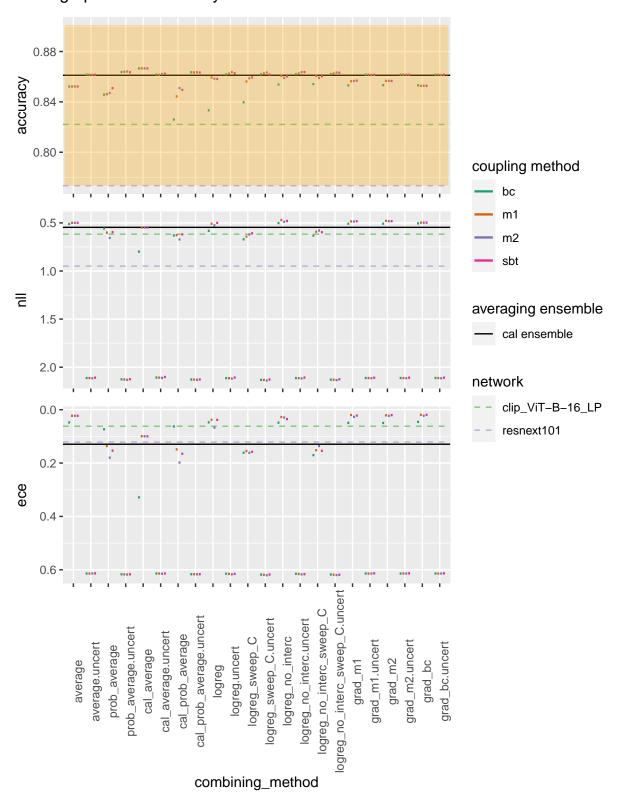
```
data = cur_nets,
      mapping = aes(yintercept = nll, colour1 = network),
      linetype = "dashed"
   ) %>%
      rename_geom_aes(new_aes = c("colour" = "colour1"))
 ) +
  geom_hline(
   data = cur_ens_cal,
   mapping = aes(yintercept = nll, color = "cal ensemble")
  ) +
   geom_hpline(
      data = cur_ens_pwc,
     mapping = aes(
      x = combining_method, y = nll,
       colour2 = coupling_method
      ),
      size = 0.8, width = 0.11,
      position = position_dodge(width = 0.65)
      rename_geom_aes(new_aes = c("colour" = "colour2"))
  ) +
  scale_colour_brewer(
   aesthetics = "colour1", palette = 1,
   name = "network", type = "qual"
  scale_colour_brewer(
   aesthetics = "colour2", palette = 2,
   name = "coupling method", type = "qual"
  ) +
  scale_color_manual(values = c("black"), name = "averaging ensemble") +
  scale_y_reverse() +
  theme(
   axis.text.x = element_blank(),
   axis.title.x = element_blank()
 )
ece_plot <- ggplot() +</pre>
   geom_hline(
     data = cur_nets,
      mapping = aes(yintercept = ece, colour1 = network),
      linetype = "dashed"
   ) %>%
      rename_geom_aes(new_aes = c("colour" = "colour1"))
 ) +
  geom_hline(
   data = cur_ens_cal,
   mapping = aes(yintercept = ece, color = "cal ensemble")
  ) +
  (
   geom_hpline(
     data = cur_ens_pwc,
```

```
mapping = aes(
           x = combining_method, y = ece,
           colour2 = coupling_method
          ),
          size = 0.8, width = 0.11,
          position = position_dodge(width = 0.65)
        ) %>%
          rename_geom_aes(new_aes = c("colour" = "colour2"))
      ) +
      scale_colour_brewer(
        aesthetics = "colour1", palette = 1,
       name = "network", type = "qual"
      ) +
      scale_colour_brewer(
        aesthetics = "colour2", palette = 2,
       name = "coupling method", type = "qual"
      scale_color_manual(values = c("black"), name = "averaging ensemble") +
      scale_y_reverse() +
      theme(axis.text.x = element_text(angle = 90))
    print(acc_plot / nll_plot / ece_plot + plot_layout(guides = "collect") +
      plot_annotation(title = paste(
        "Ensemble metrics",
        paste(
          c("Error inconsistency", cur_ens_cal$err_incons[[1]]),
          collapse = " "
        ),
        paste(
          c("Average pairwise accuracy variance", cur_ens_cal$mean_pwa_var[[1]]),
          collapse = " "
        ),
        sep = "\n"
      )))
 }
}
```

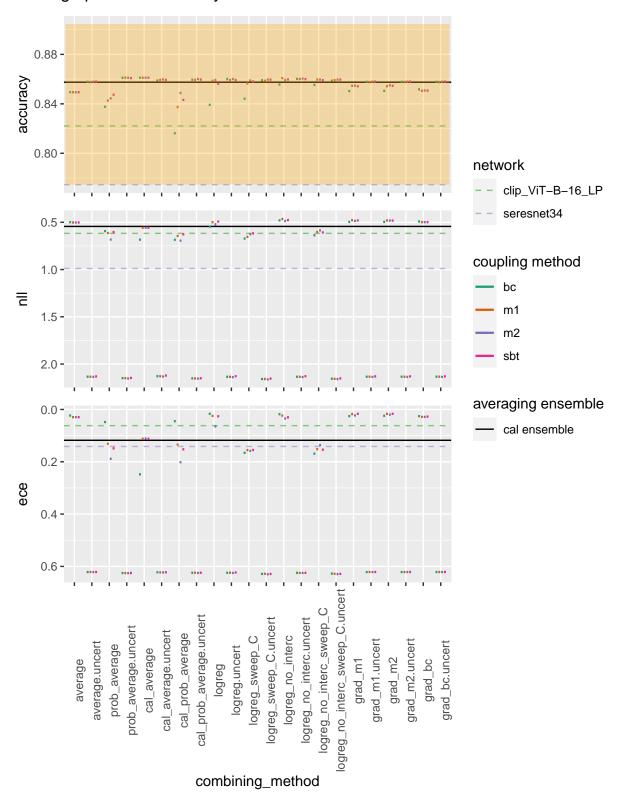
Ensemble metrics Error inconsistency 0.148800000548363 Average pairwise accuracy variance 2.3084990971256e-05



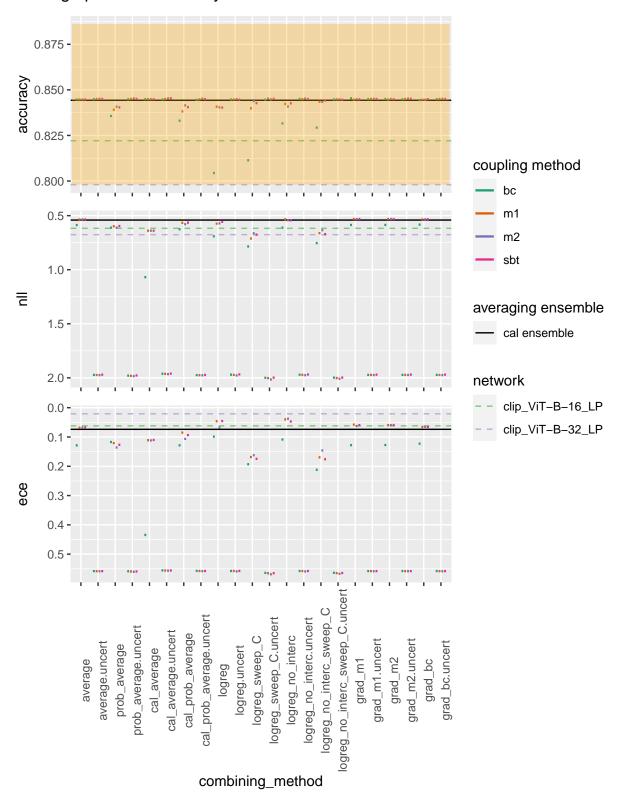
Ensemble metrics Error inconsistency 0.206299990415573 Average pairwise accuracy variance 3.54999865521677e–05



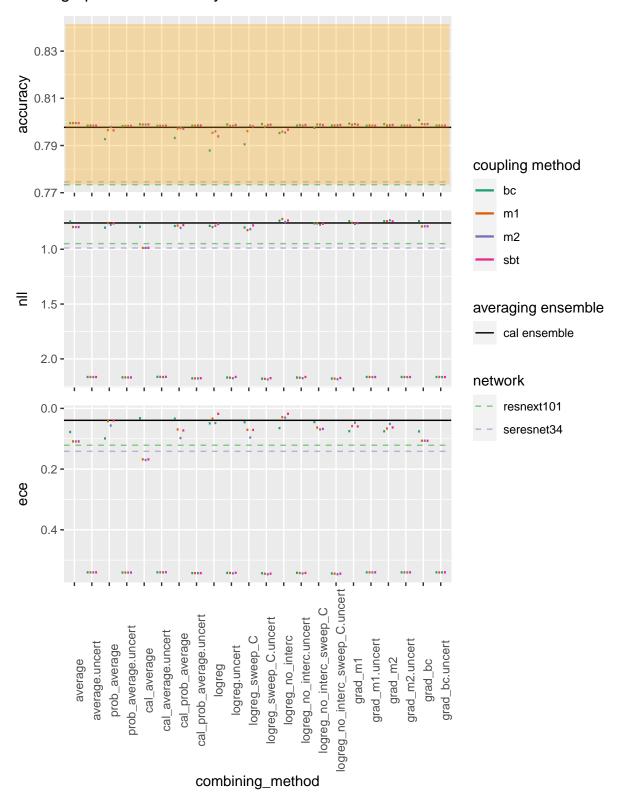
Ensemble metrics Error inconsistency 0.212099999189377 Average pairwise accuracy variance 3.87824838981032e–05



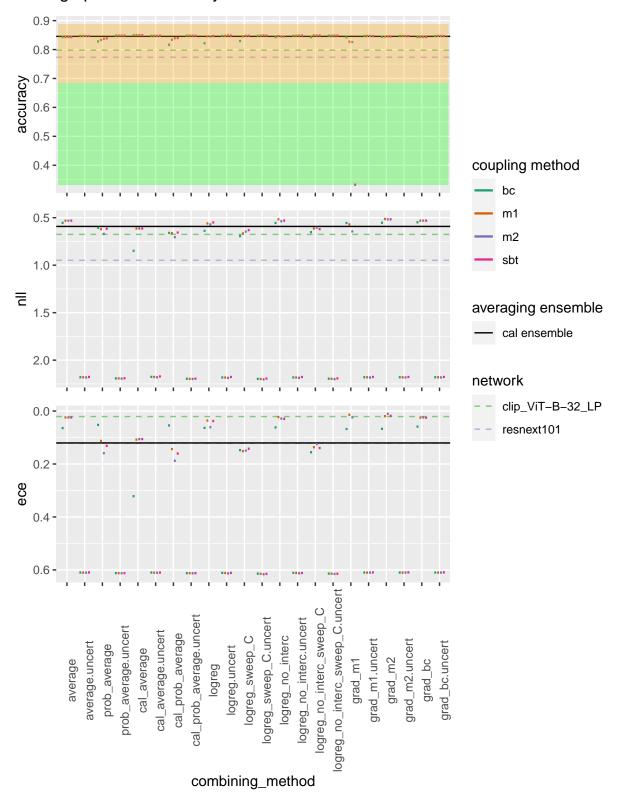
Ensemble metrics Error inconsistency 0.151899993419647 Average pairwise accuracy variance 1.15449938675738e-05



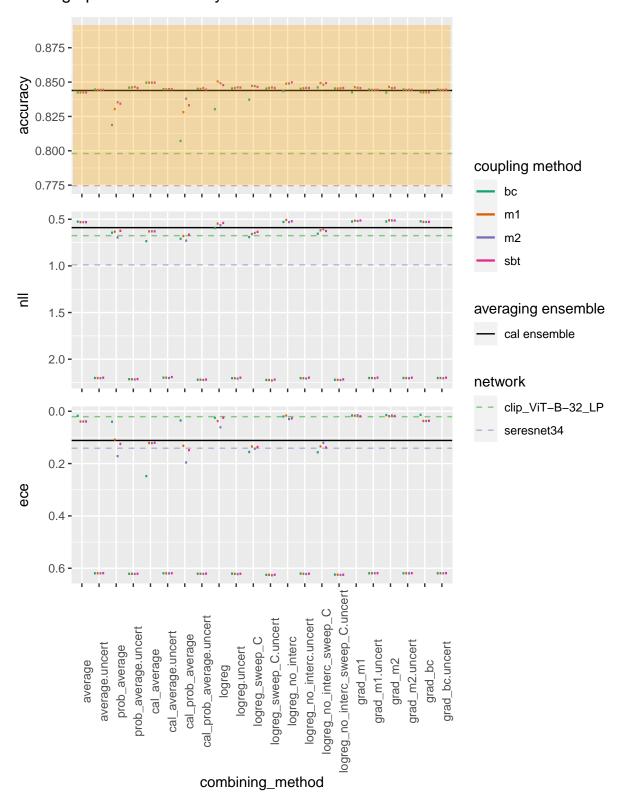
Ensemble metrics Error inconsistency 0.134800001978874 Average pairwise accuracy variance 1.62699925567722e–05



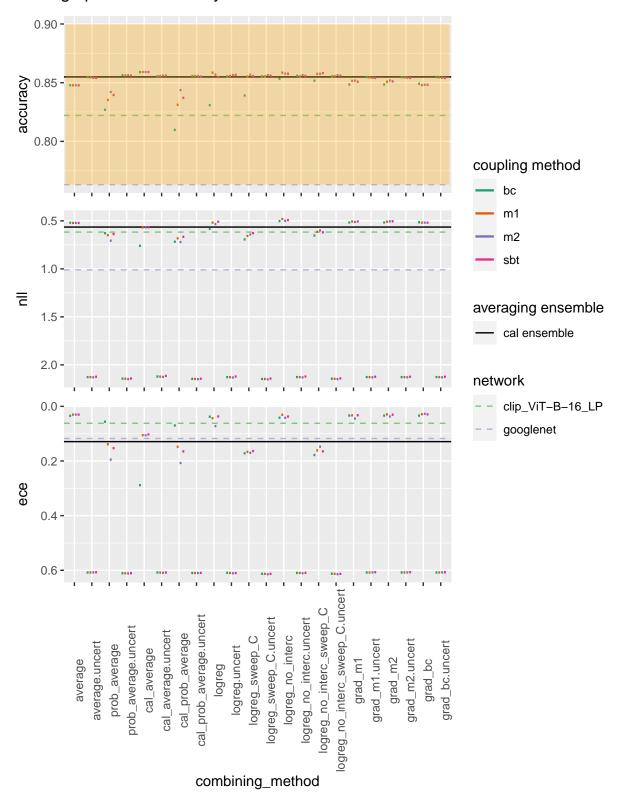
Ensemble metrics Error inconsistency 0.203799992799759 Average pairwise accuracy variance 3.10324903693981e–05



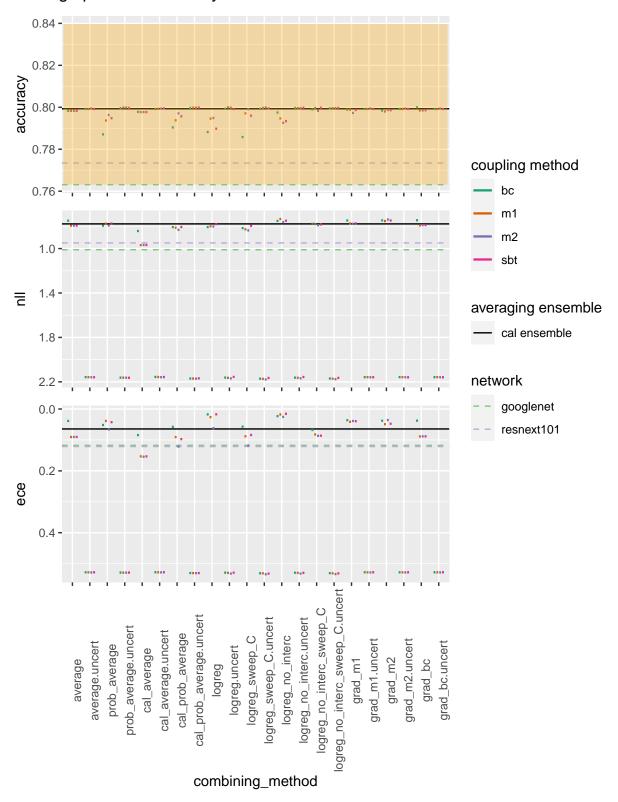
Ensemble metrics Error inconsistency 0.210199996829033 Average pairwise accuracy variance 3.34249853040092e–05



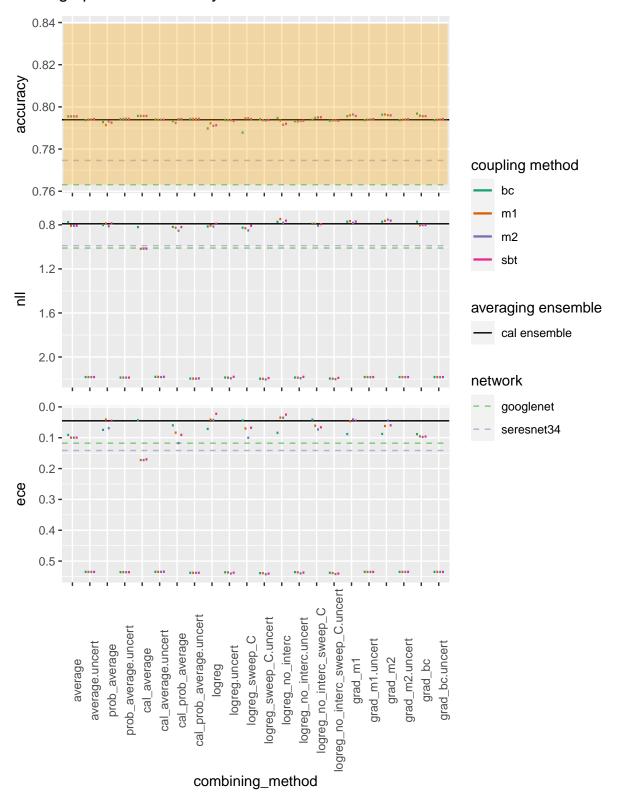
Ensemble metrics Error inconsistency 0.214399993419647 Average pairwise accuracy variance 5.38337335456163e–05



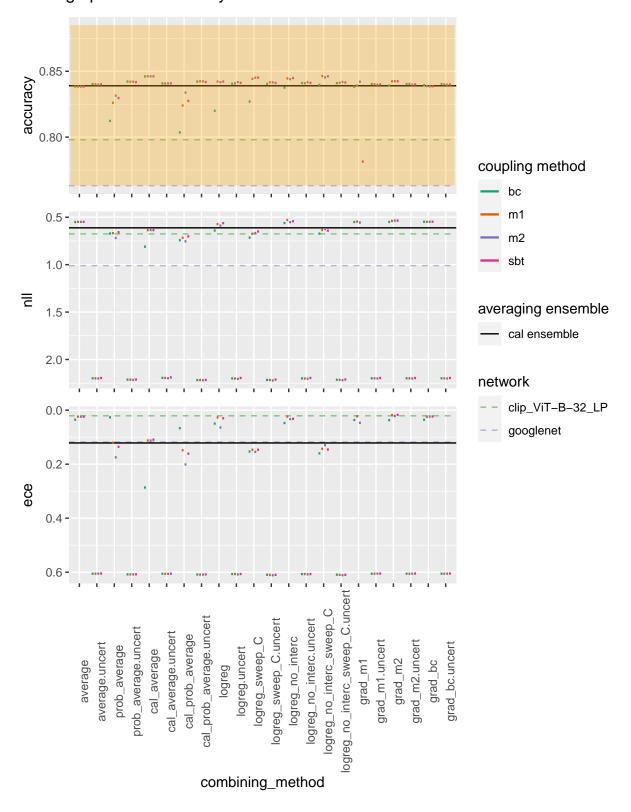
Ensemble metrics Error inconsistency 0.142700001597404 Average pairwise accuracy variance 2.15937434404623e–05



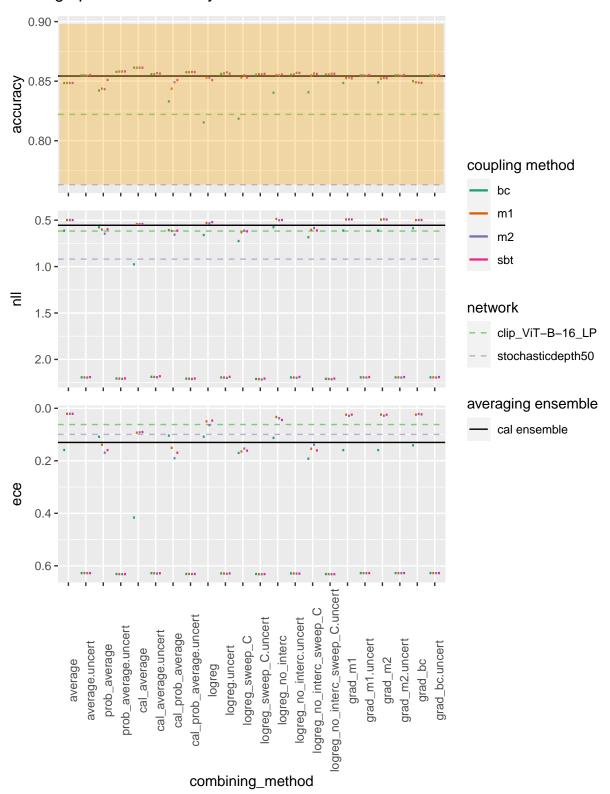
Ensemble metrics Error inconsistency 0.140699997544289 Average pairwise accuracy variance 2.17712404264603e–05



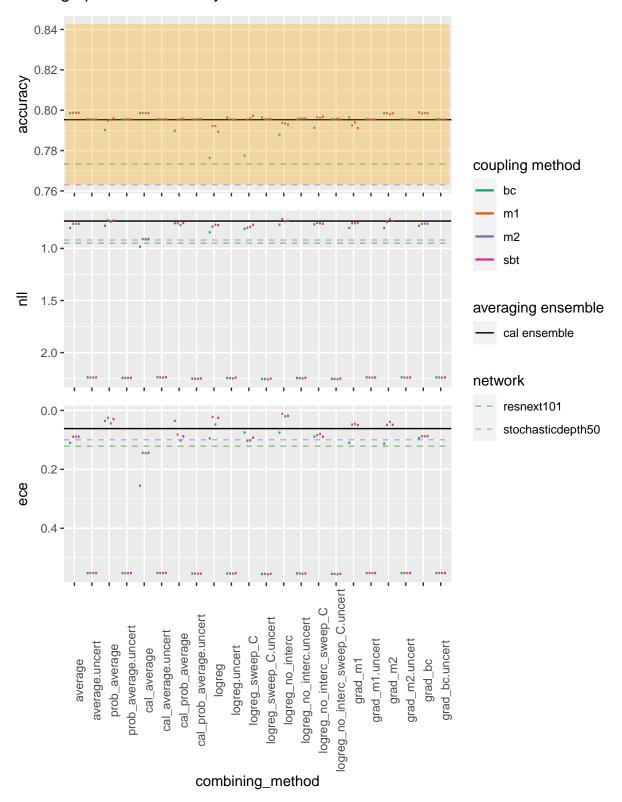
Ensemble metrics Error inconsistency 0.208899989724159 Average pairwise accuracy variance 4.53812390333042e–05



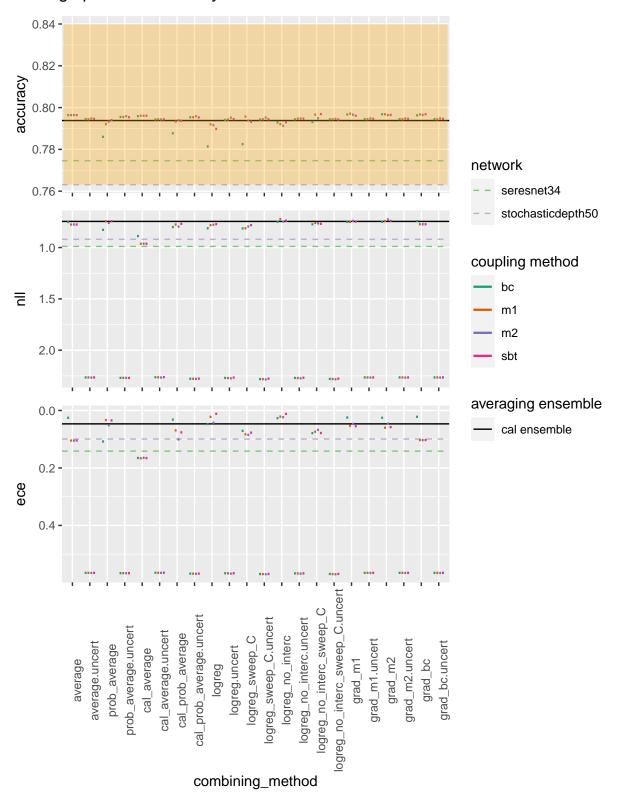
Ensemble metrics Error inconsistency 0.210400000214577 Average pairwise accuracy variance 3.26337321894243e–05



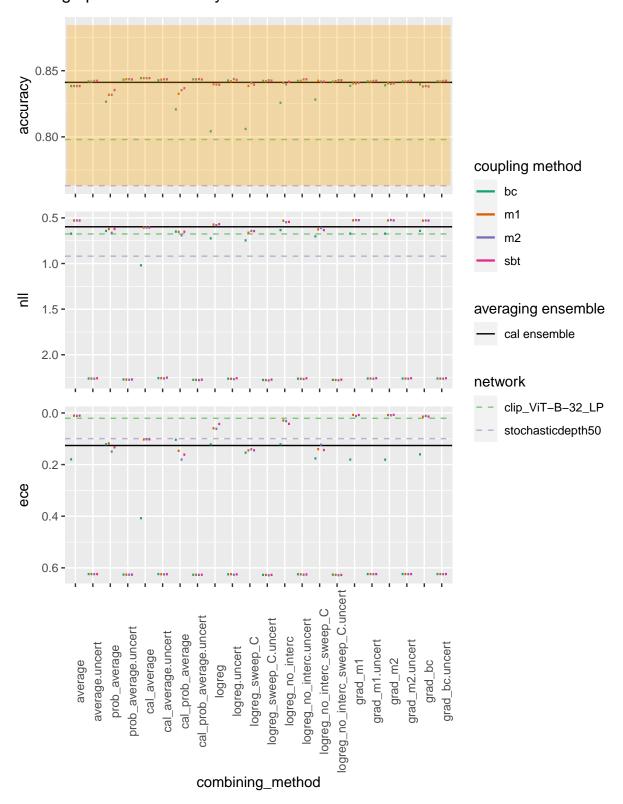
Ensemble metrics Error inconsistency 0.148699998855591 Average pairwise accuracy variance 1.73487424035557e–05



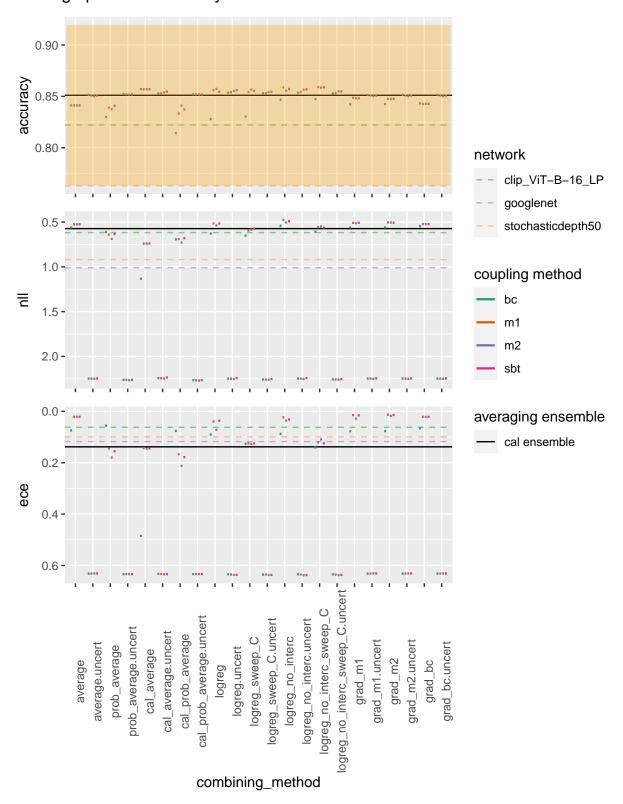
Ensemble metrics Error inconsistency 0.142099991440773 Average pairwise accuracy variance 1.83112406375585e-05



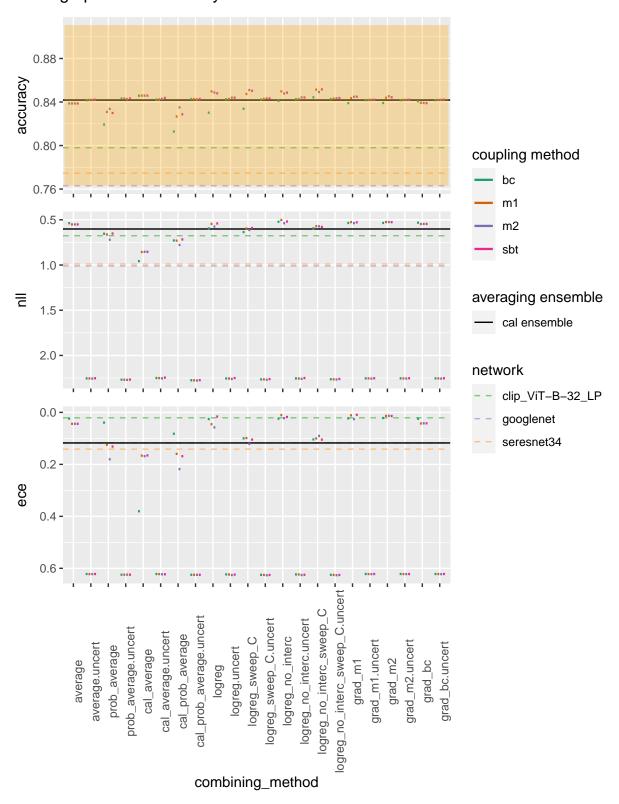
Ensemble metrics Error inconsistency 0.207699999213219 Average pairwise accuracy variance 2.9091237593093e-05



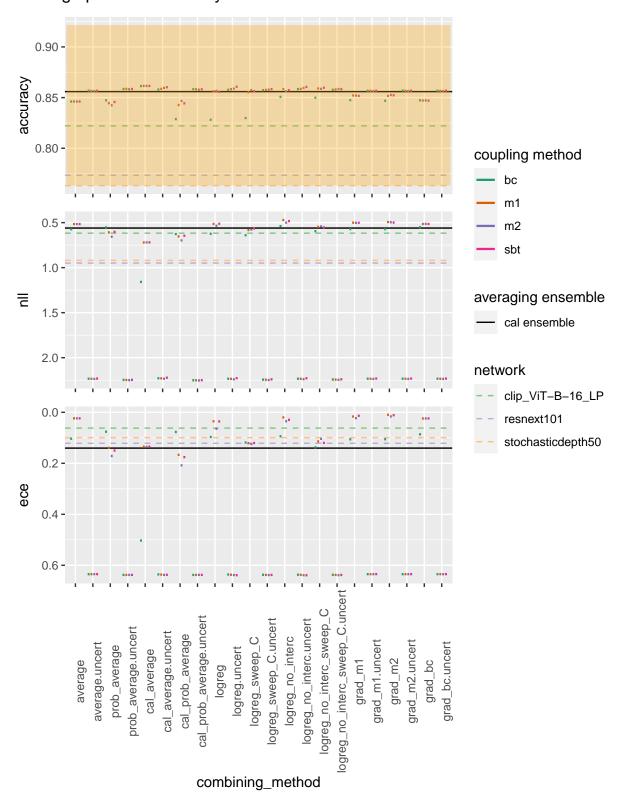
Ensemble metrics Error inconsistency 0.286799997091293 Average pairwise accuracy variance 4.86899771203753e–05



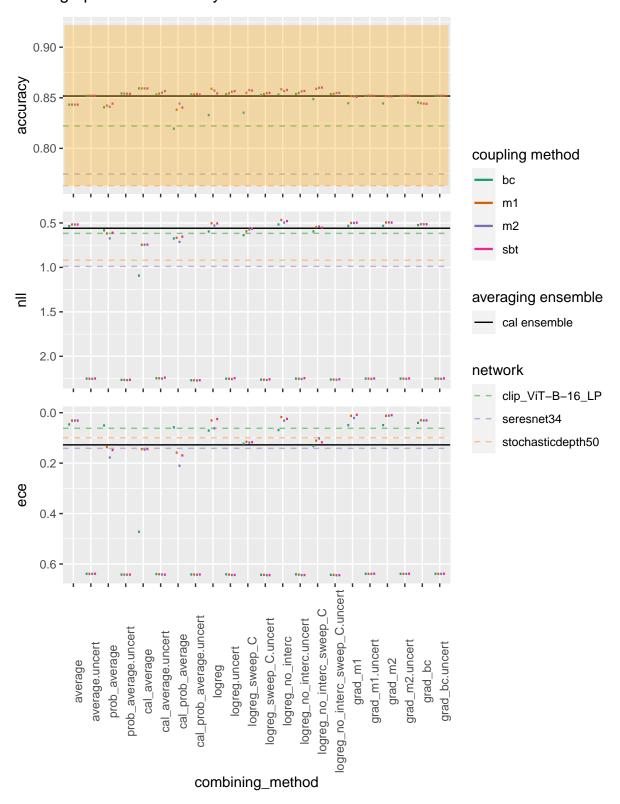
Ensemble metrics Error inconsistency 0.27989998459816 Average pairwise accuracy variance 4.47010970674455e–05



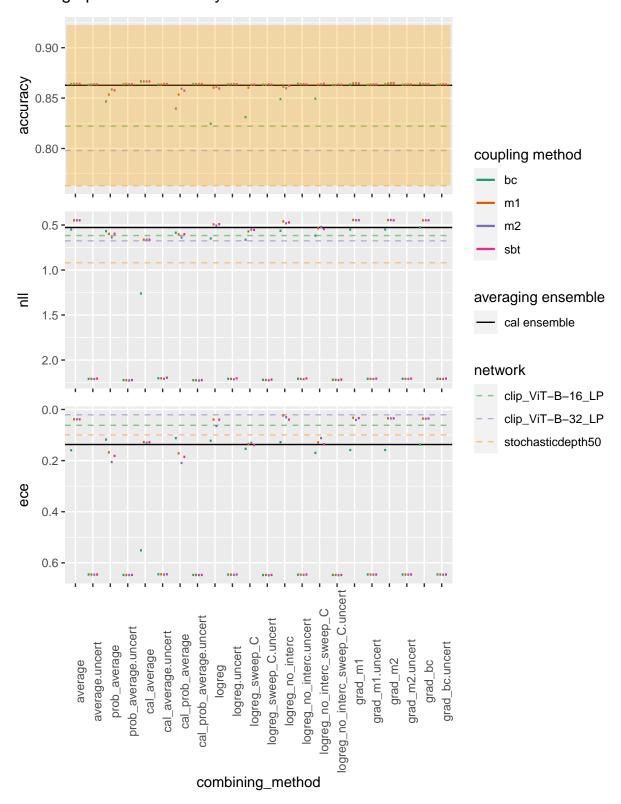
Ensemble metrics Error inconsistency 0.282700002193451 Average pairwise accuracy variance 3.79922021238599e–05



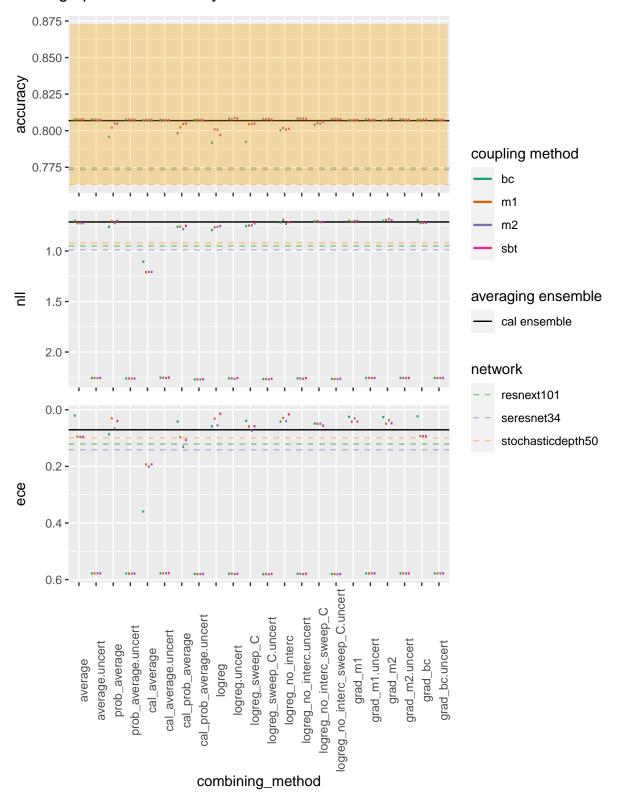
Ensemble metrics Error inconsistency 0.282299995422363 Average pairwise accuracy variance 3.98788724851329e–05



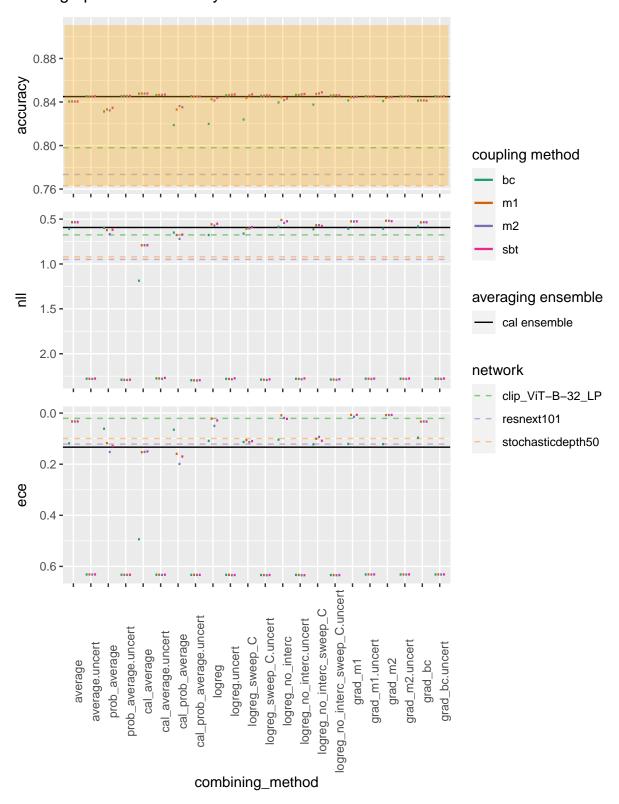
Ensemble metrics Error inconsistency 0.284999996423721 Average pairwise accuracy variance 3.25644286931492e–05



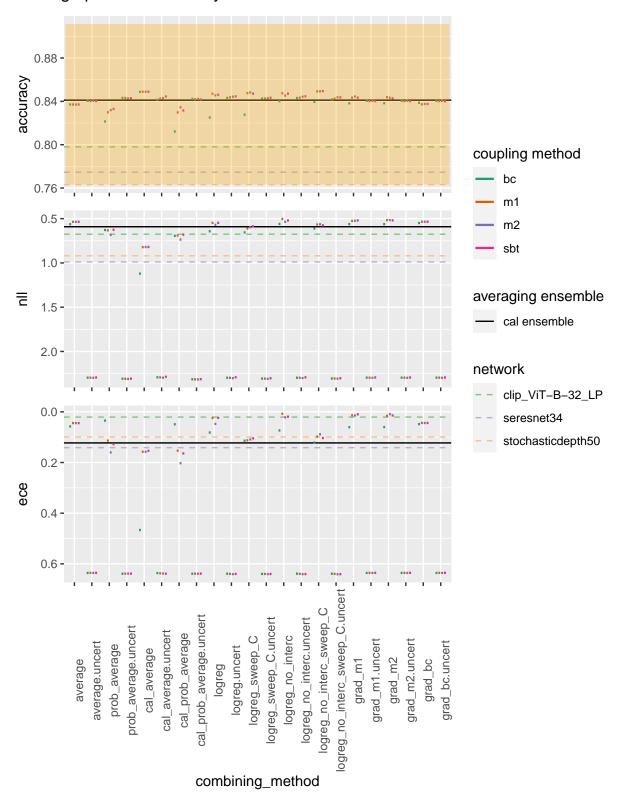
Ensemble metrics Error inconsistency 0.212799996137619 Average pairwise accuracy variance 2.30799869314069e–05



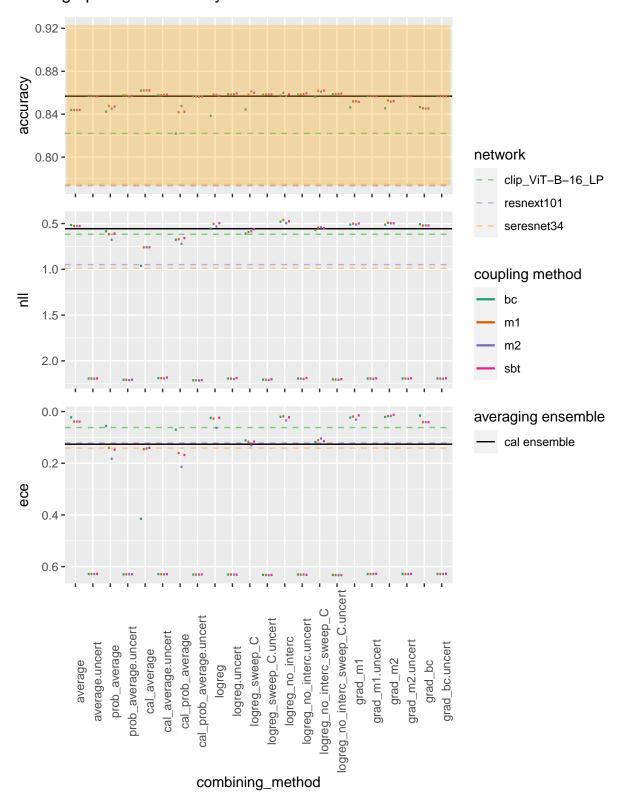
Ensemble metrics Error inconsistency 0.280099987983704 Average pairwise accuracy variance 3.4432207030477e–05



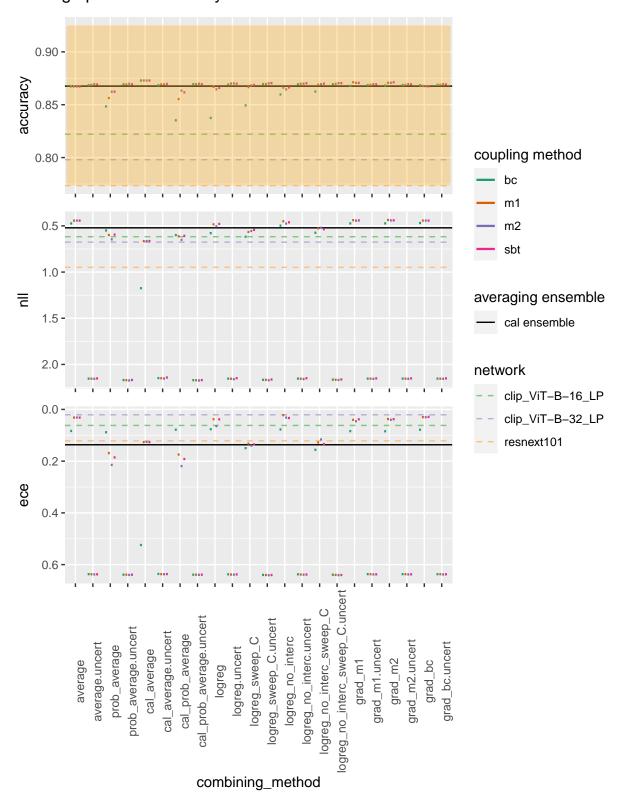
Ensemble metrics Error inconsistency 0.280000001192093 Average pairwise accuracy variance 3.59233163180761e–05



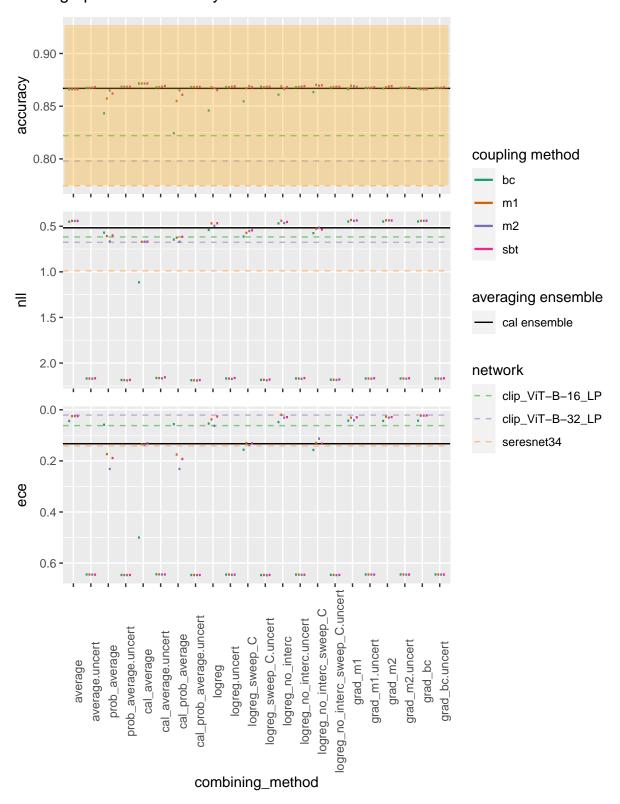
Ensemble metrics Error inconsistency 0.276600003242493 Average pairwise accuracy variance 4.0245537093142e-05



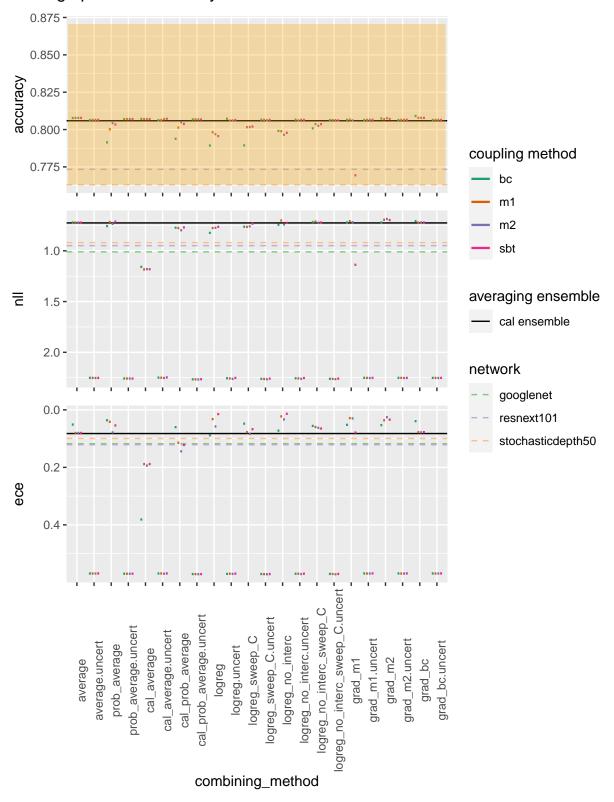
Ensemble metrics Error inconsistency 0.28099998831749 Average pairwise accuracy variance 3.47010973200668e-05



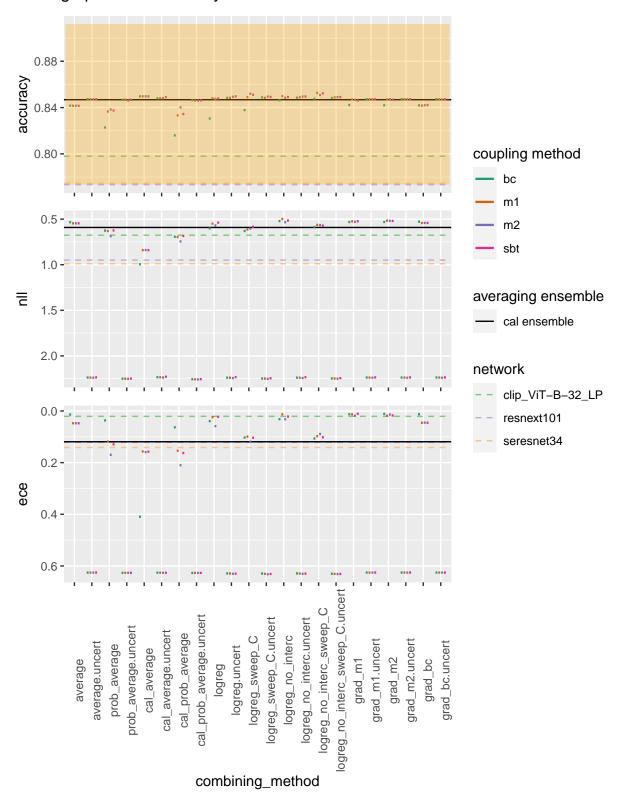
Ensemble metrics Error inconsistency 0.287099987268448 Average pairwise accuracy variance 3.72233153029811e–05



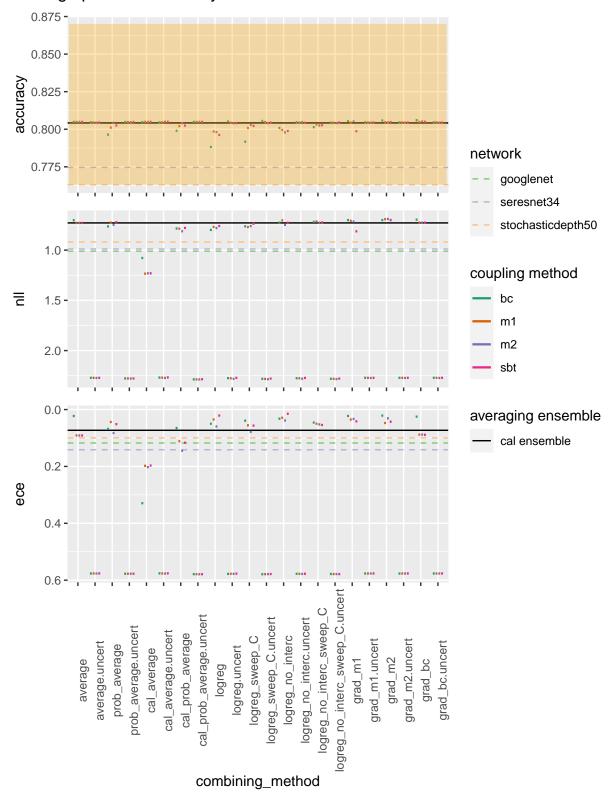
Ensemble metrics Error inconsistency 0.220100000500679 Average pairwise accuracy variance 2.75677666650154e–05



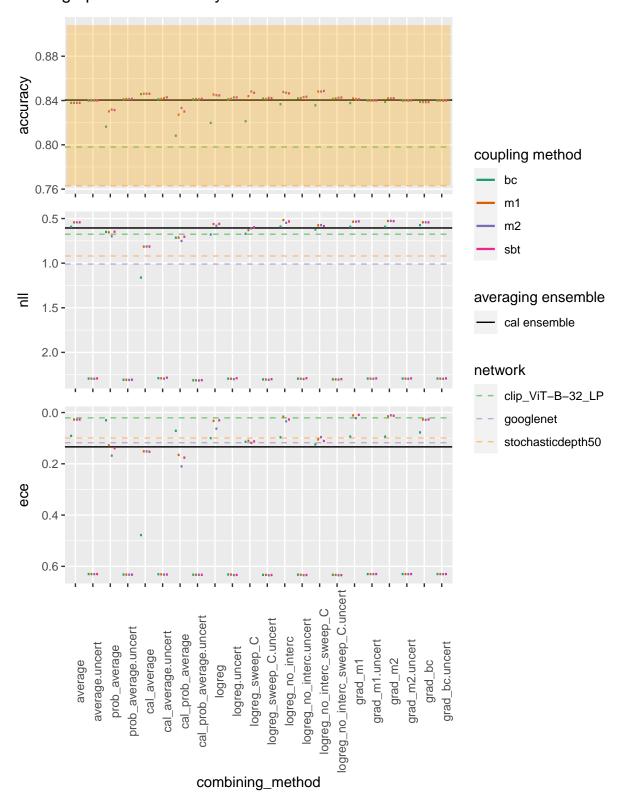
Ensemble metrics Error inconsistency 0.274399995803833 Average pairwise accuracy variance 3.58788711309899e–05



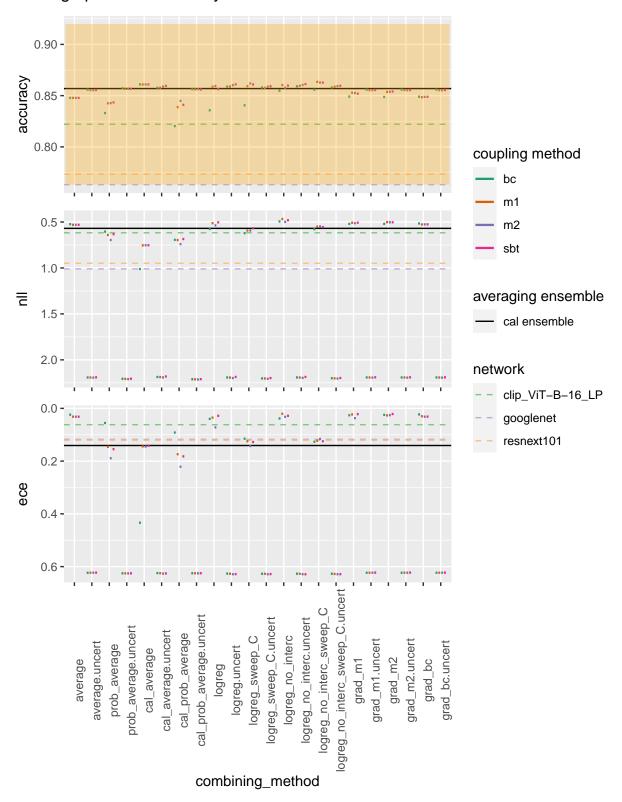
Ensemble metrics Error inconsistency 0.215799987316132 Average pairwise accuracy variance 2.80744316114578e–05



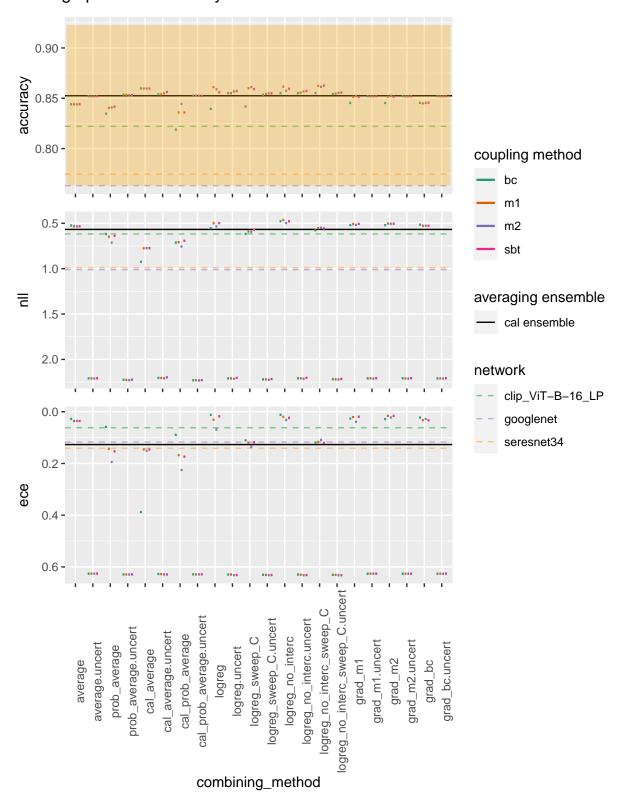
Ensemble metrics Error inconsistency 0.282700002193451 Average pairwise accuracy variance 4.33588720625266e-05



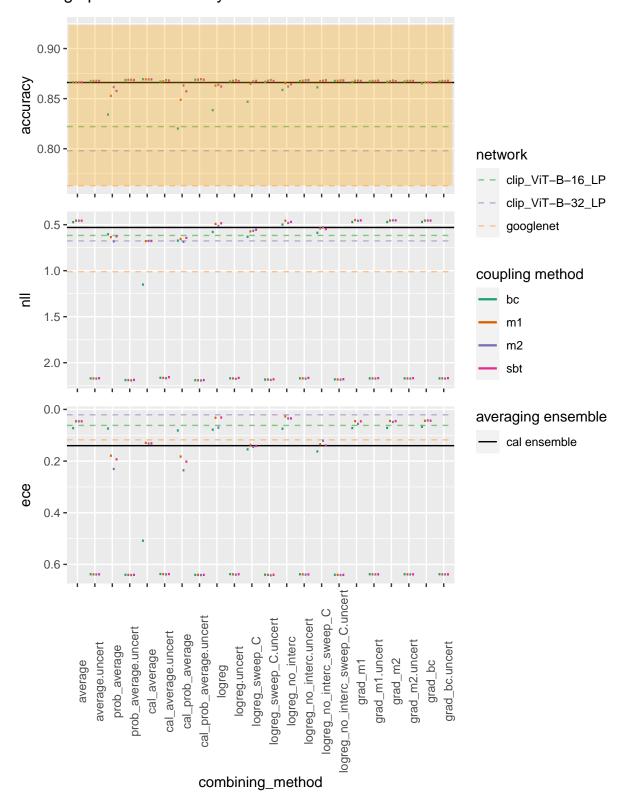
Ensemble metrics Error inconsistency 0.281699985265732 Average pairwise accuracy variance 4.93010920763481e–05



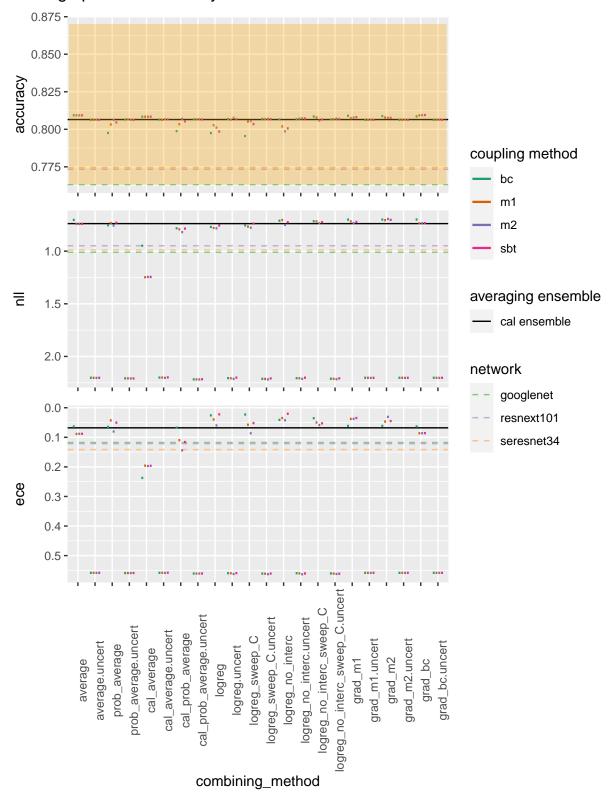
Ensemble metrics Error inconsistency 0.283600002527237 Average pairwise accuracy variance 5.08388693560846e-05



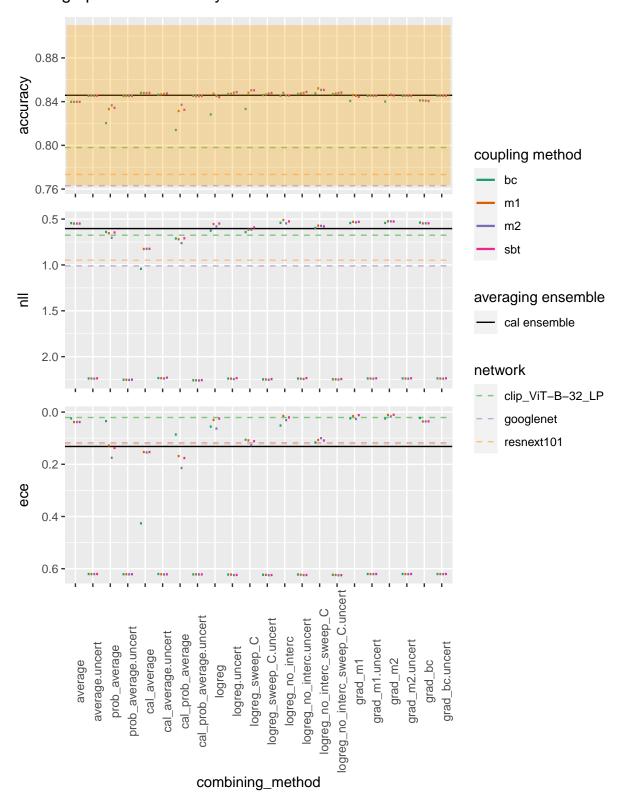
Ensemble metrics Error inconsistency 0.287599980831146 Average pairwise accuracy variance 4.92266481160186e–05



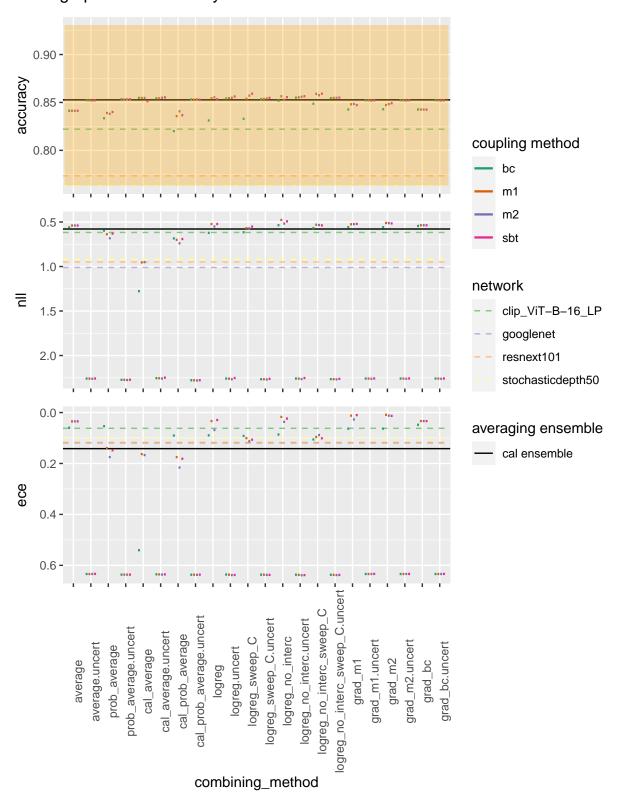
Ensemble metrics Error inconsistency 0.209099993109703 Average pairwise accuracy variance 2.65044345724164e–05



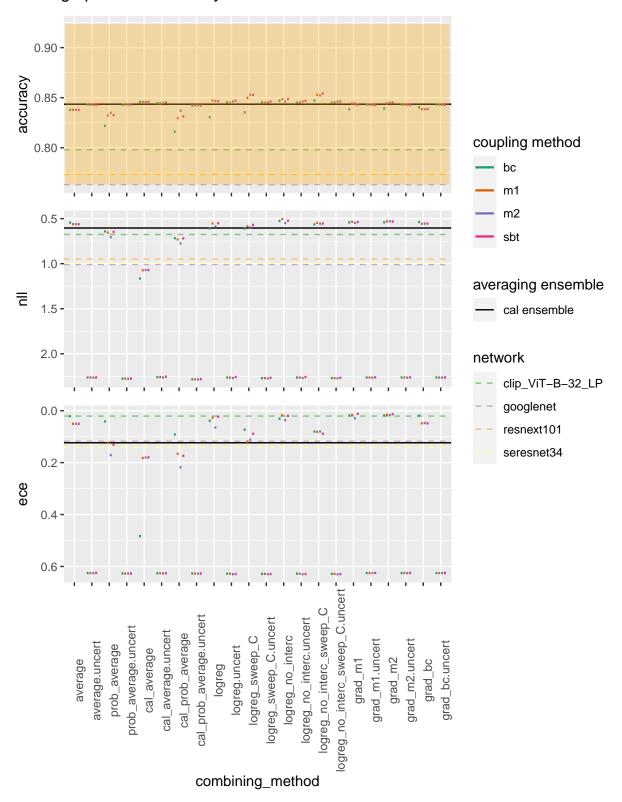
Ensemble metrics Error inconsistency 0.277700006961823 Average pairwise accuracy variance 4.35588772234041e-05



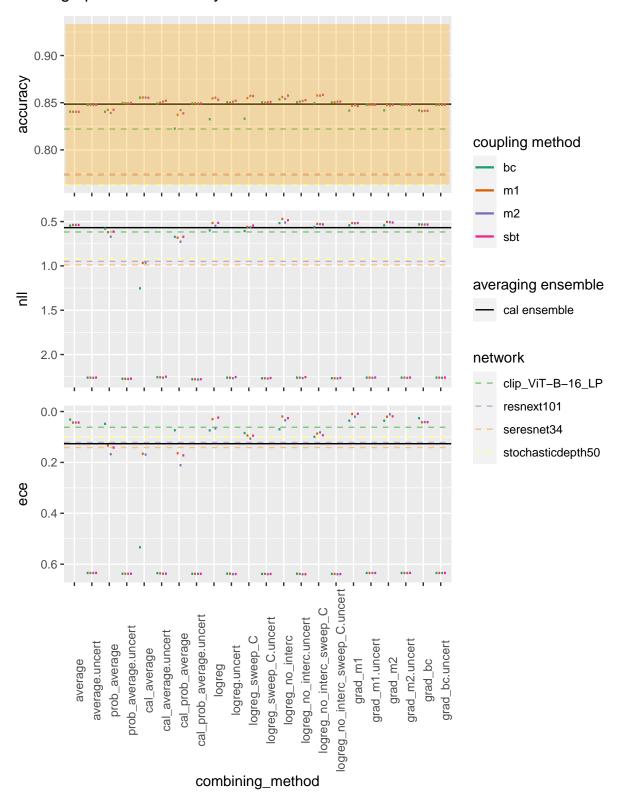
Ensemble metrics Error inconsistency 0.326900005340576 Average pairwise accuracy variance 4.59987313661259e–05



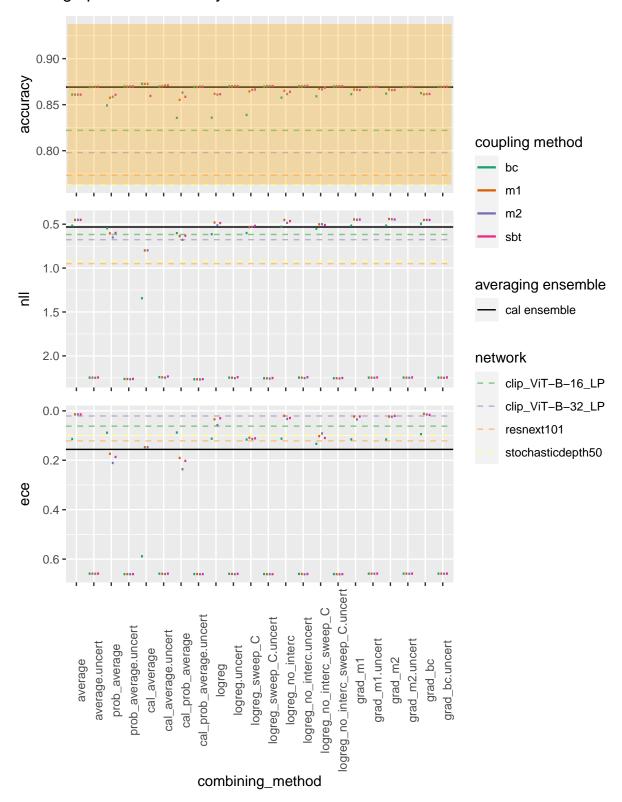
Ensemble metrics Error inconsistency 0.319399982690811 Average pairwise accuracy variance 4.23684214183595e–05



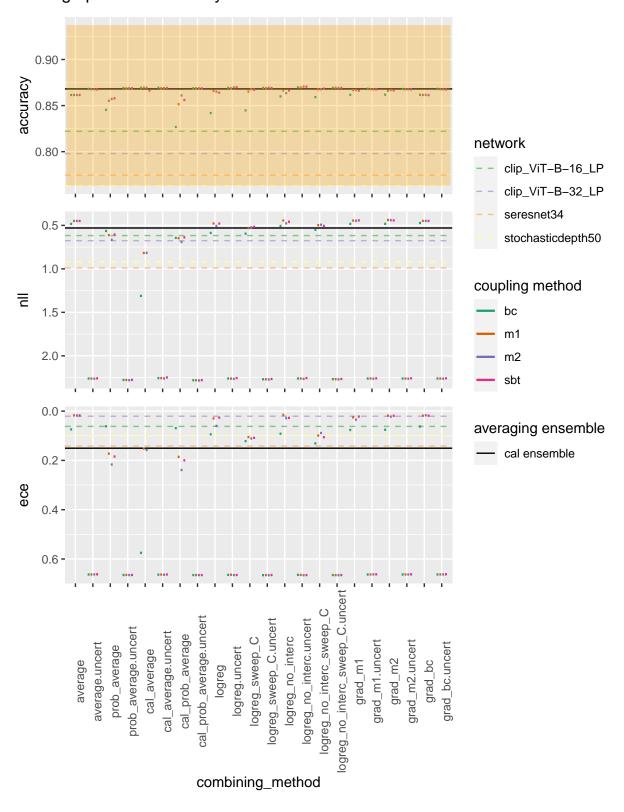
Ensemble metrics Error inconsistency 0.321399986743927 Average pairwise accuracy variance 3.97115436499007e–05



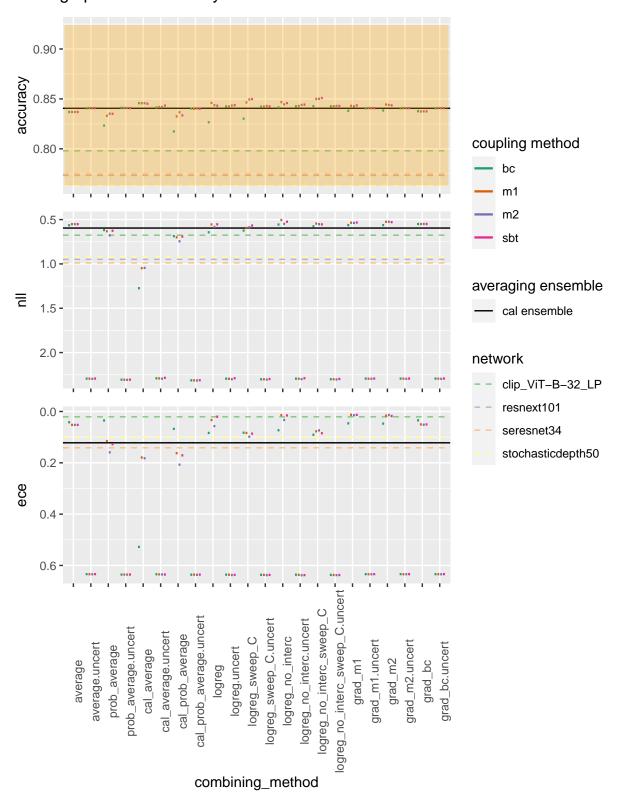
Ensemble metrics Error inconsistency 0.337999999523163 Average pairwise accuracy variance 3.92877918784507e–05



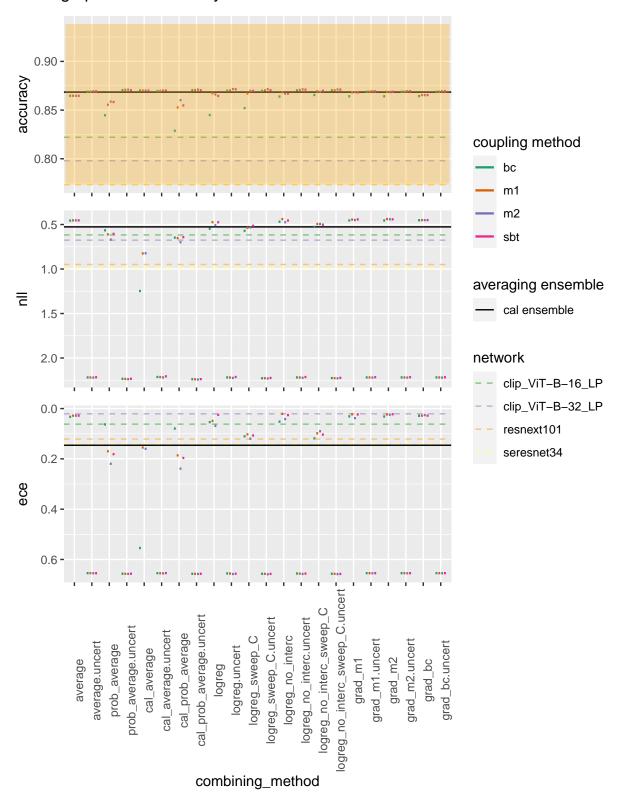
Ensemble metrics Error inconsistency 0.338499993085861 Average pairwise accuracy variance 4.09471685998142e–05



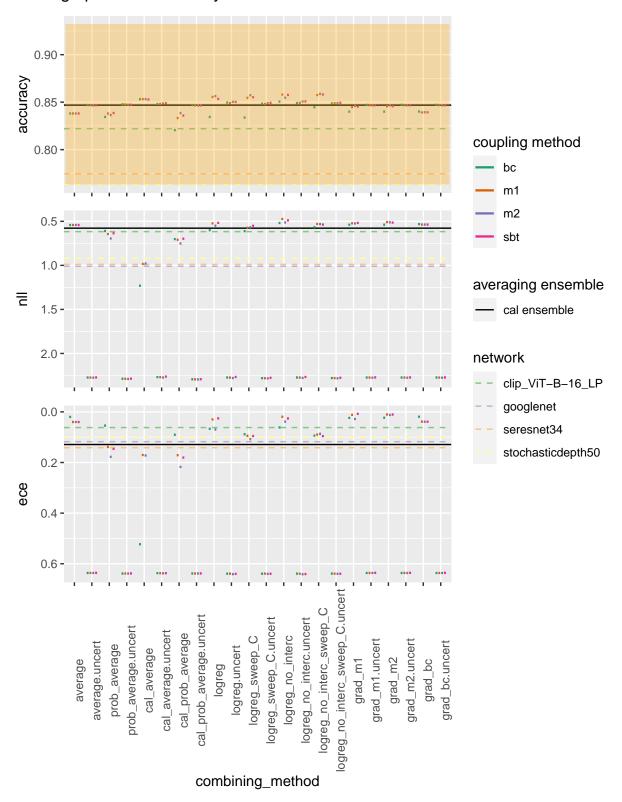
Ensemble metrics Error inconsistency 0.319199979305267 Average pairwise accuracy variance 3.63696744898334e-05



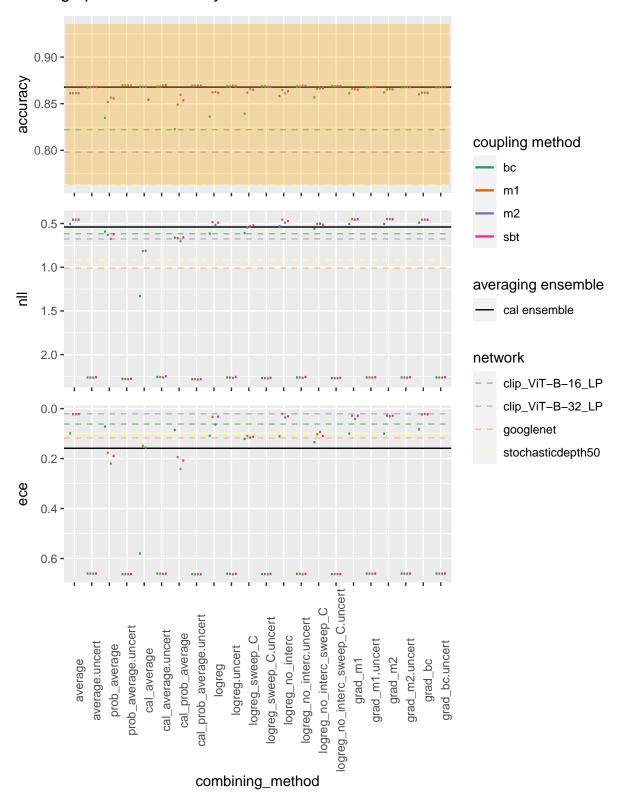
Ensemble metrics Error inconsistency 0.333099991083145 Average pairwise accuracy variance 4.16387301811483e–05



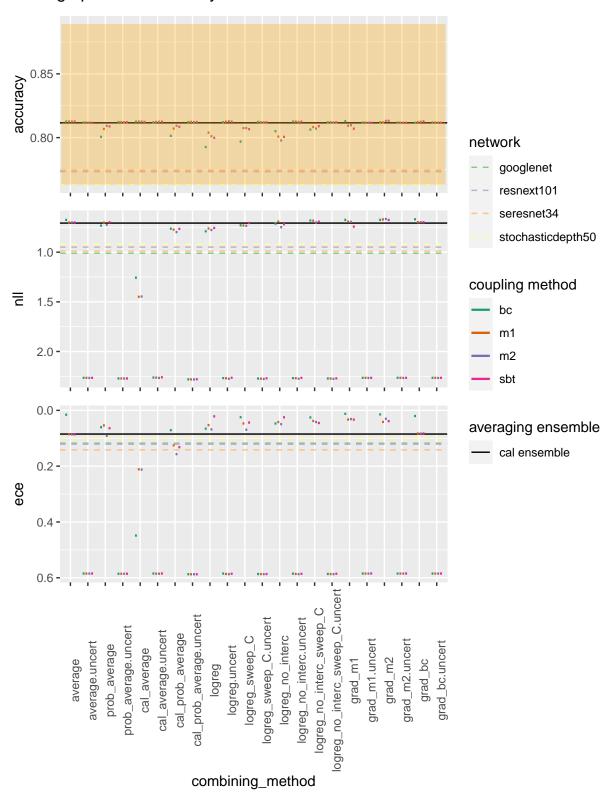
Ensemble metrics Error inconsistency 0.326499998569489 Average pairwise accuracy variance 4.71043567813467e–05



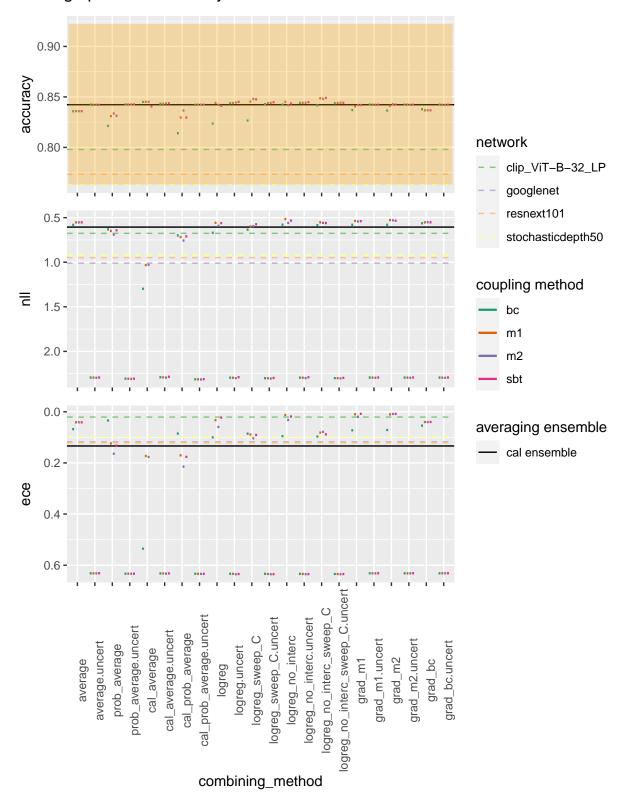
Ensemble metrics Error inconsistency 0.341999977827072 Average pairwise accuracy variance 4.88924815726932e–05



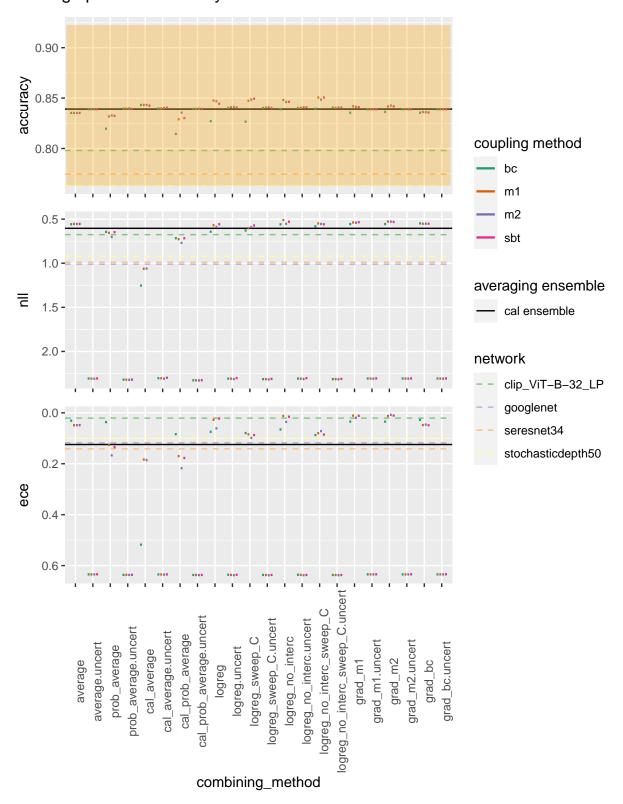
Ensemble metrics Error inconsistency 0.260600000619888 Average pairwise accuracy variance 2.95949866995215e-05



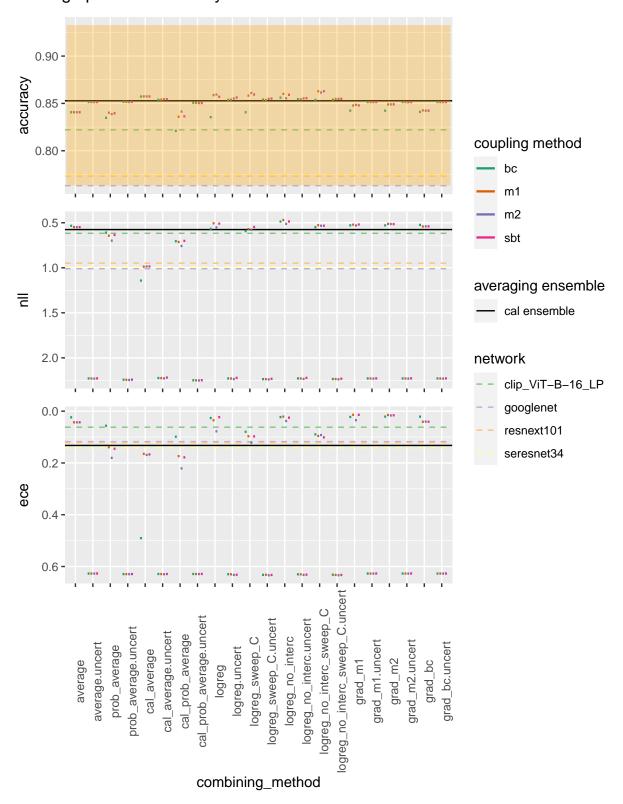
Ensemble metrics Error inconsistency 0.324099987745285 Average pairwise accuracy variance 4.18831114075147e–05



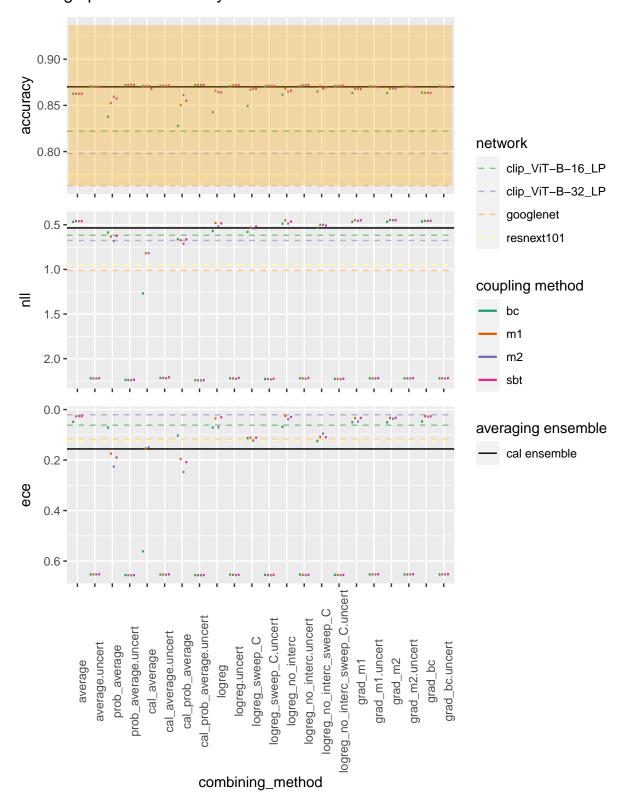
Ensemble metrics Error inconsistency 0.323499977588654 Average pairwise accuracy variance 4.2766234400915e–05



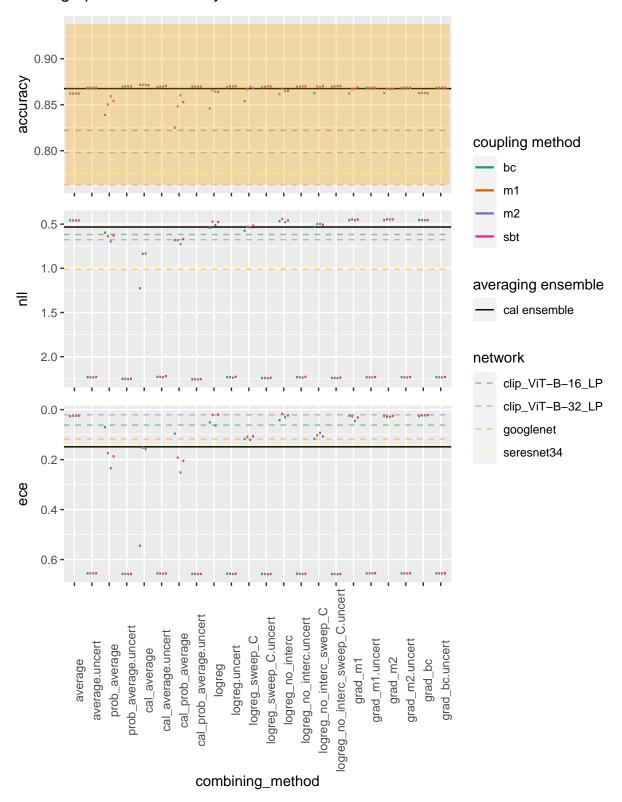
Ensemble metrics Error inconsistency 0.322099983692169 Average pairwise accuracy variance 4.6937791921664e-05



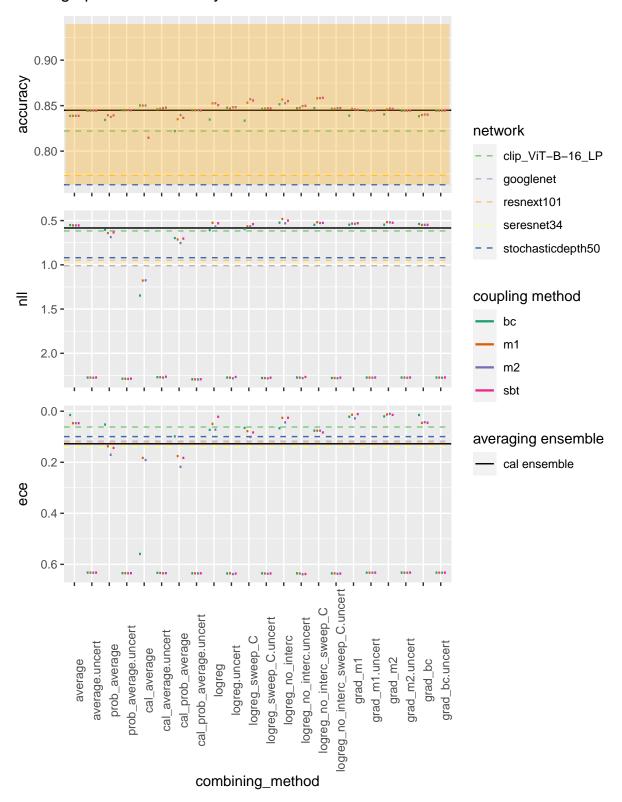
Ensemble metrics Error inconsistency 0.337799996137619 Average pairwise accuracy variance 4.97215442010202e–05



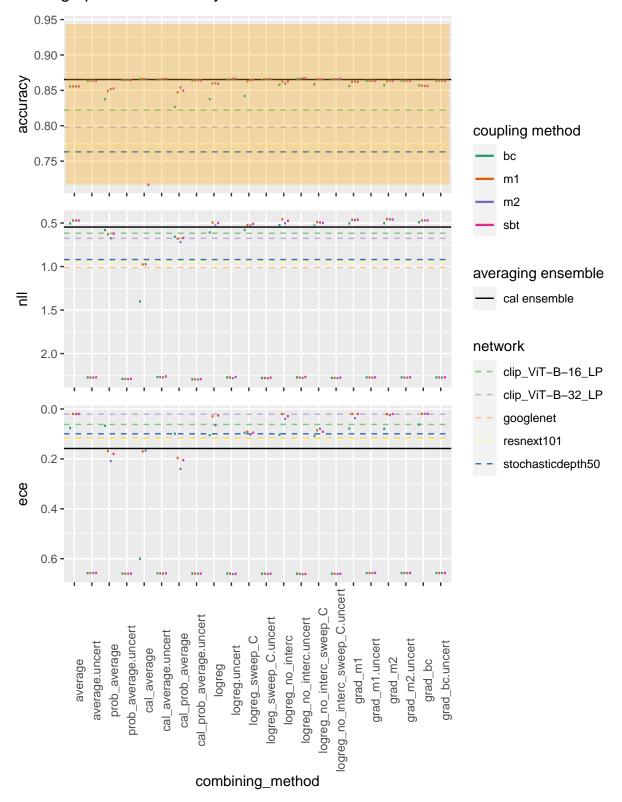
Ensemble metrics Error inconsistency 0.339899986982346 Average pairwise accuracy variance 5.11846701556351e–05



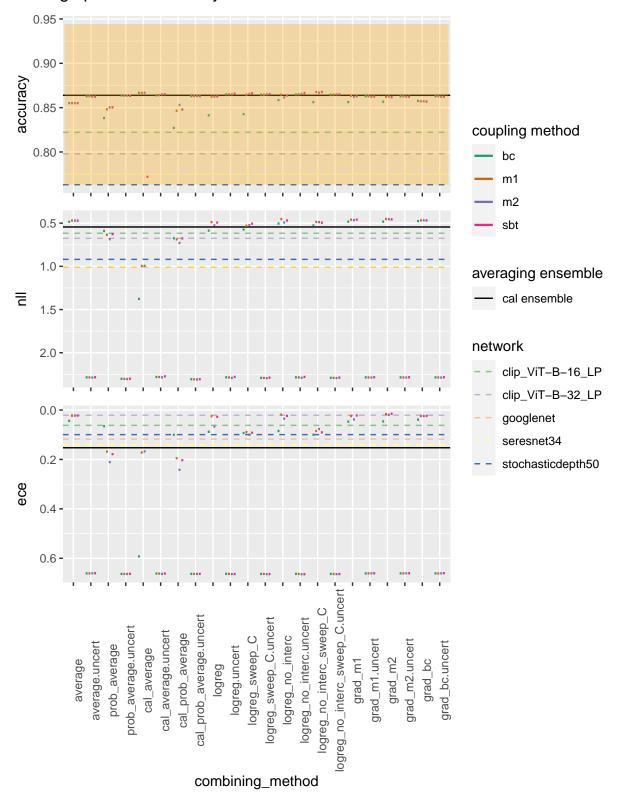
Ensemble metrics Error inconsistency 0.353499978780746 Average pairwise accuracy variance 4.46607882622629e–05



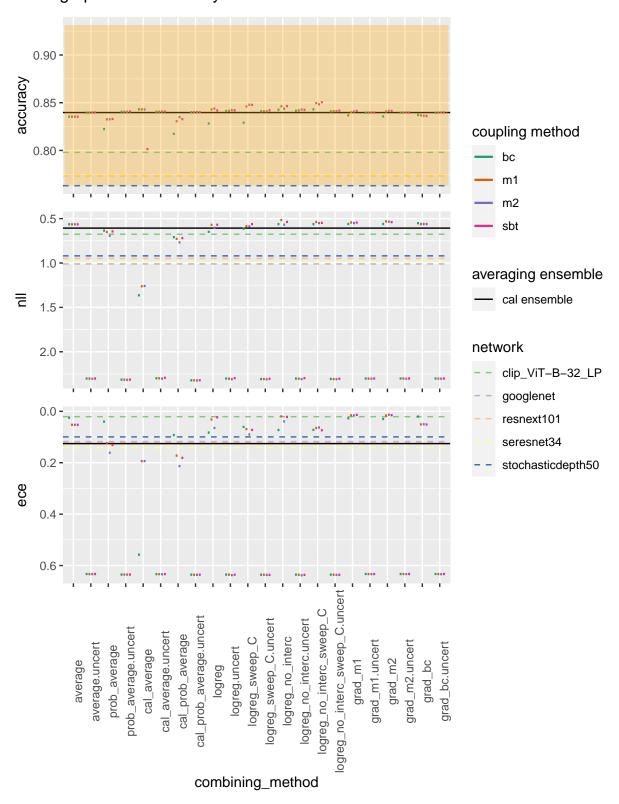
Ensemble metrics Error inconsistency 0.373499989509583 Average pairwise accuracy variance 4.81671813759021e–05



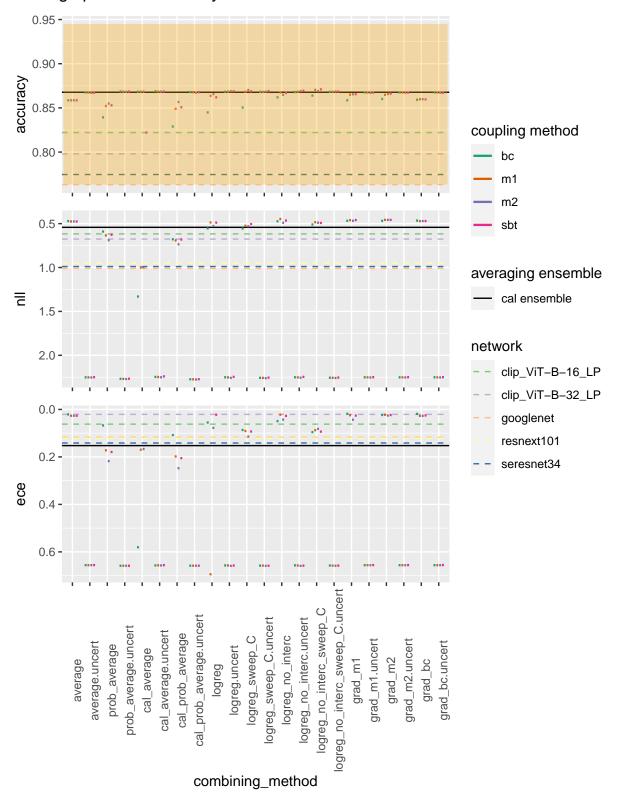
Ensemble metrics Error inconsistency 0.373400002717972 Average pairwise accuracy variance 4.92575818498153e–05



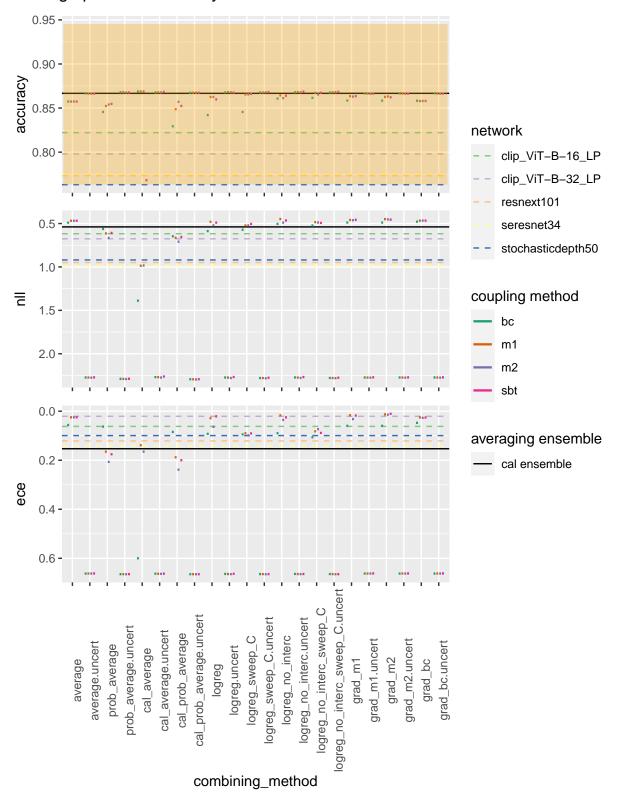
Ensemble metrics Error inconsistency 0.351300001144409 Average pairwise accuracy variance 4.11695873481221e–05



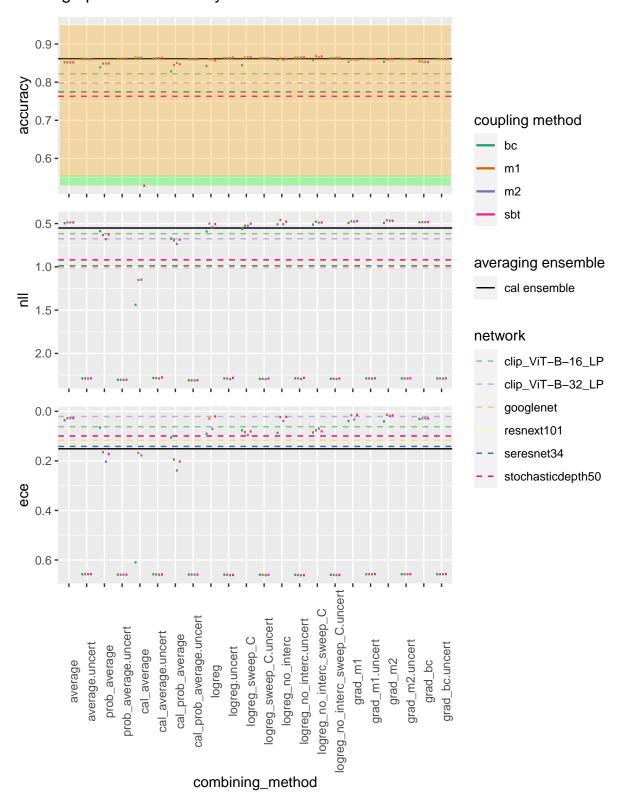
Ensemble metrics Error inconsistency 0.369699984788895 Average pairwise accuracy variance 4.94615851494018e–05



Ensemble metrics Error inconsistency 0.368099987506866 Average pairwise accuracy variance 4.2230385588482e-05



Ensemble metrics Error inconsistency 0.394899994134903 Average pairwise accuracy variance 4.77338762721047e-05



```
xax <- c(
 "err_incons", "mean_pwa_var"
yax <- c("acc_imp_max", "acc_imp_avg")</pre>
for (xa in xax)
{
  for (ya in yax)
    cur_plot <- ggplot() +</pre>
      geom_point(
       data = ens_cal_plt_df,
        mapping = aes_string(x = xa, y = ya, color = shQuote("cal ensemble")),
       alpha = 0.5
      ) +
      geom_point(
       data = ens_pwc_plt_df,
        mapping = aes_string(x = xa, y = ya, color = "coupling_method"),
       alpha = 0.5
      ) +
      facet_grid(rows = vars(combining_method)) +
      ggtitle(sprintf(
        "Accuracy improvement of ensemble over
      the %s of networks vs %s.",
       if (ya == "acc_imp_max") "best" else "average", xa
      )) +
      coord_cartesian(ylim=c(0, 0.1)) +
      theme(strip.text.y = element_text(size = 8, angle = 0))
   print(cur_plot)
  }
}
```

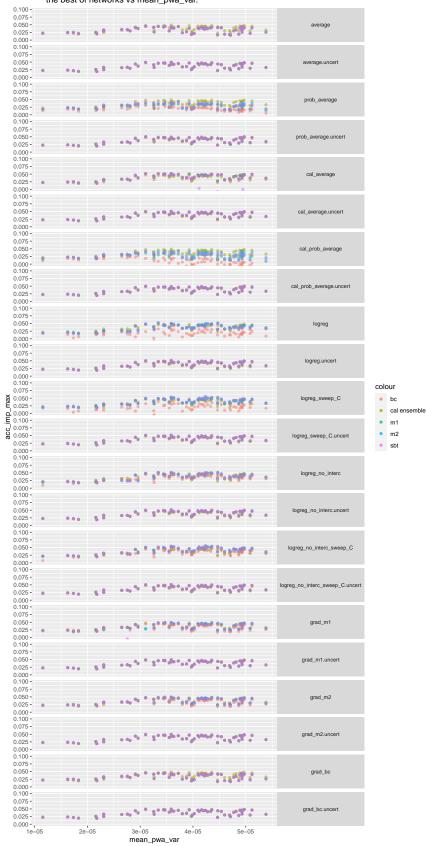
Accuracy improvement of ensemble over the best of networks vs err_incons.



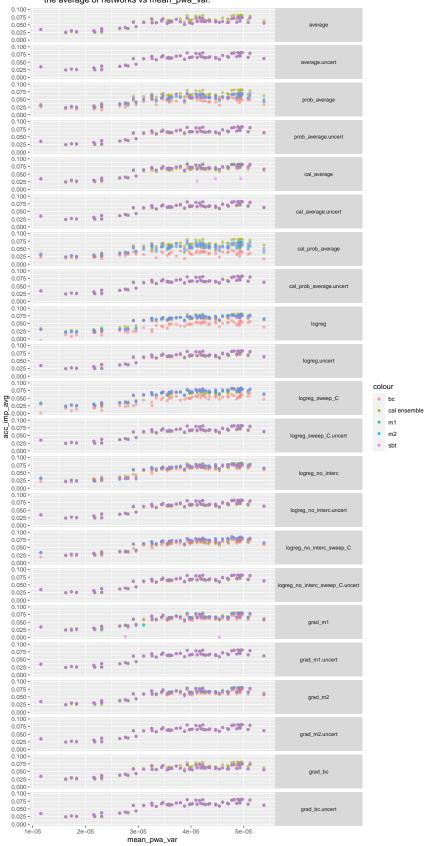
Accuracy improvement of ensemble over the average of networks vs err_incons.



Accuracy improvement of ensemble over the best of networks vs mean_pwa_var.

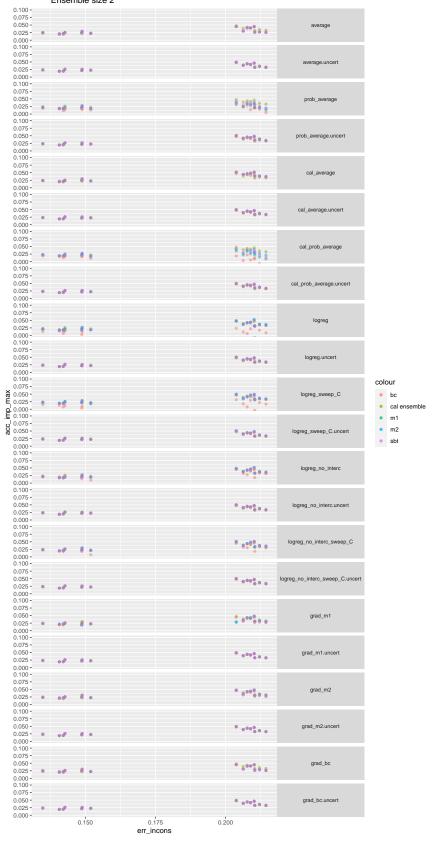


Accuracy improvement of ensemble over the average of networks vs mean_pwa_var.

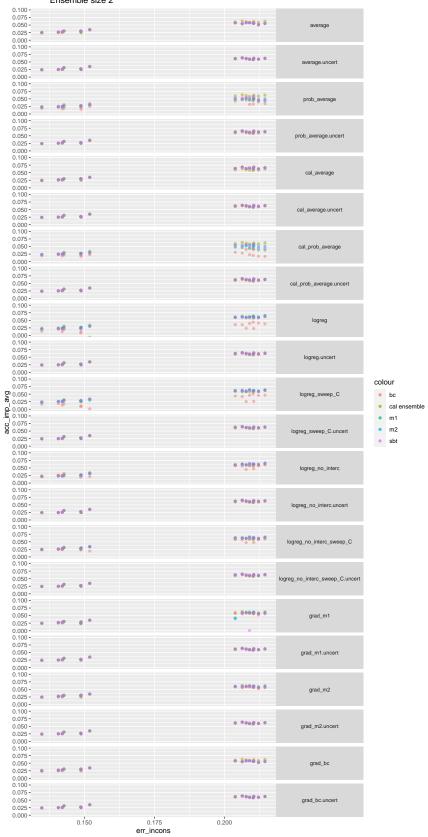


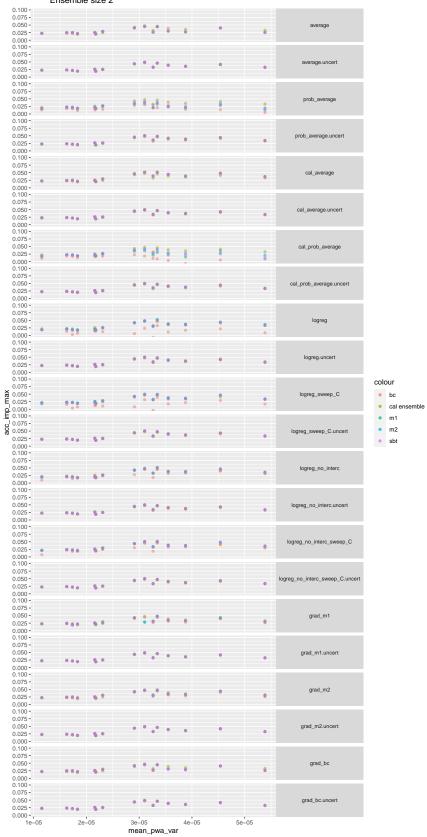
```
for (sss in unique(ens_cal_plt_df$combination_size))
  cur_ens_cal_plt_df <- ens_cal_plt_df %>% filter(combination_size == sss)
  cur_ens_pwc_plt_df <- ens_pwc_plt_df %>% filter(combination_size == sss)
  for (xa in xax)
    for (ya in yax)
      cur_plot <- ggplot() +</pre>
        geom_point(
         data = cur_ens_cal_plt_df,
         mapping = aes_string(x = xa, y = ya, color = shQuote("cal ensemble")),
          alpha = 0.5
        ) +
        geom_point(
         data = cur_ens_pwc_plt_df,
         mapping = aes_string(x = xa, y = ya, color = "coupling_method"),
         alpha = 0.5
        ) +
        facet_grid(rows = vars(combining_method)) +
        ggtitle(sprintf(
          "Accuracy improvement of ensemble over
        the %s of networks vs %s.
        Ensemble size %s",
         if (ya == "acc_imp_max") "best" else "average", xa, sss
        )) +
        coord_cartesian(ylim=c(0, 0.1)) +
        theme(strip.text.y = element_text(size = 8, angle = 0))
     print(cur_plot)
    }
  }
}
```

Accuracy improvement of ensemble over the best of networks vs err_incons. Ensemble size 2

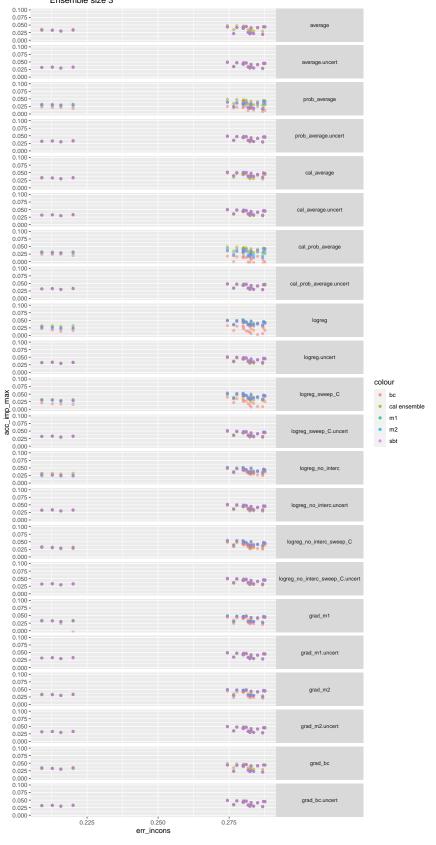


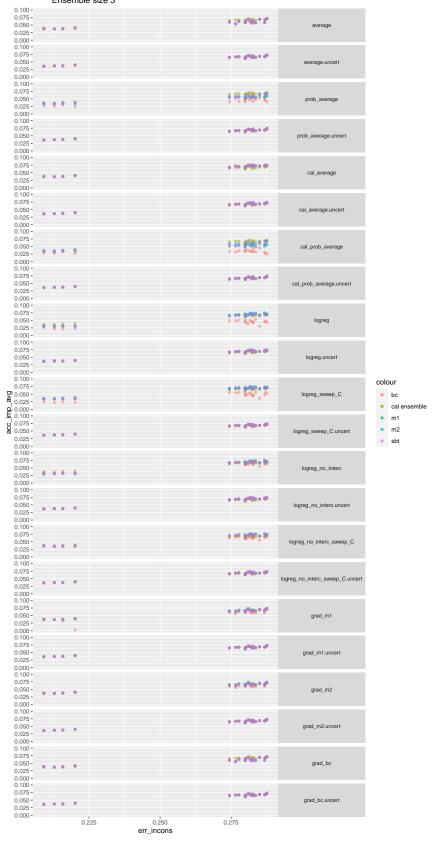
Accuracy improvement of ensemble over the average of networks vs err_incons. Ensemble size 2



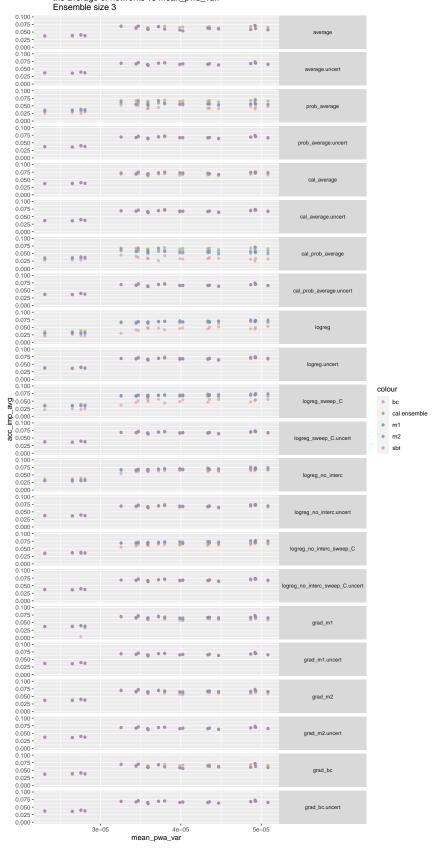








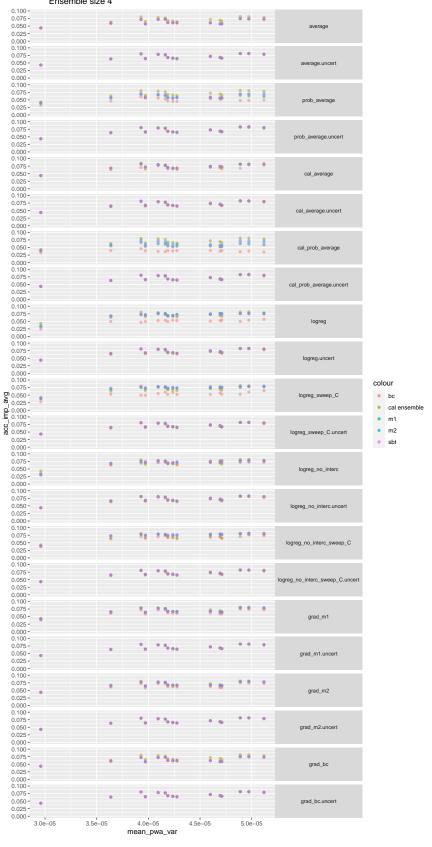




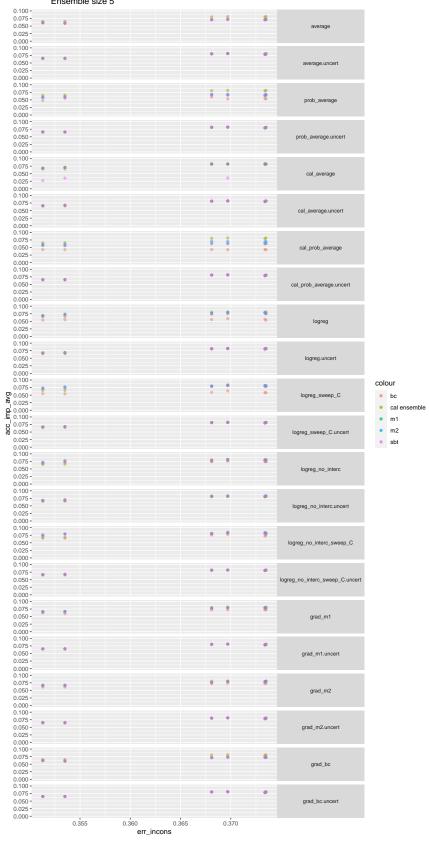






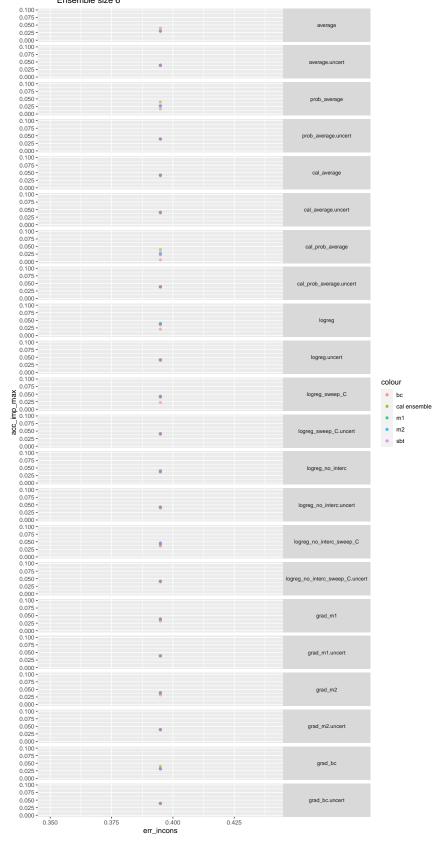


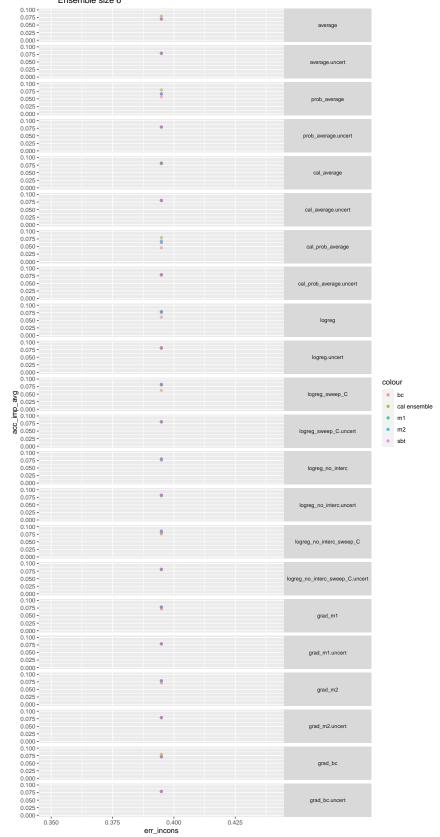


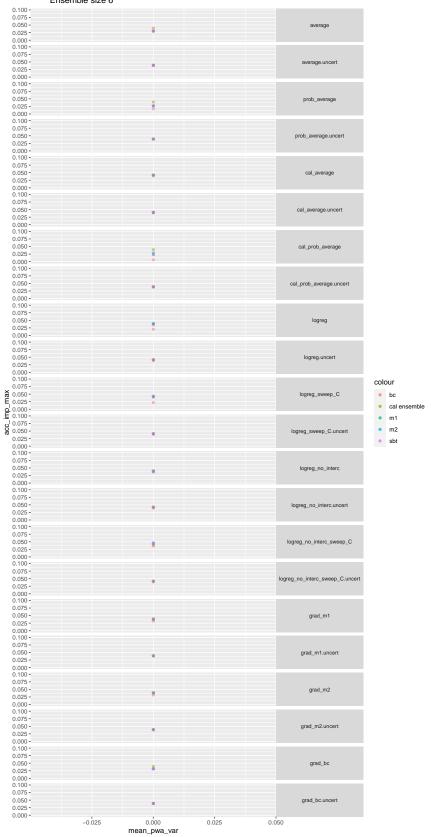


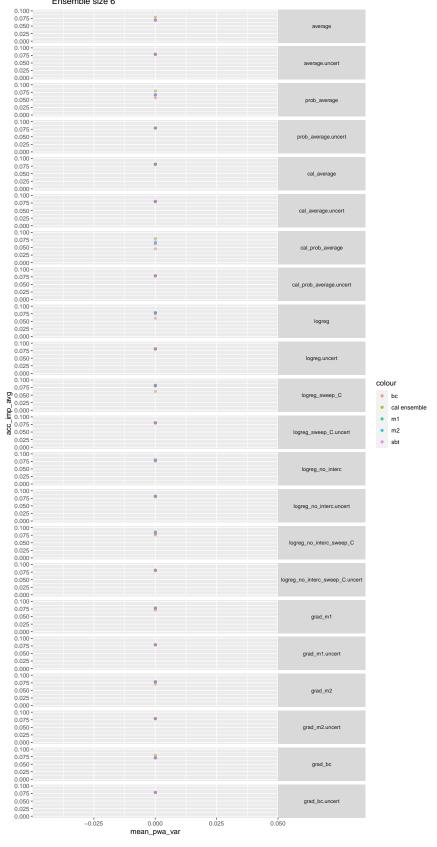




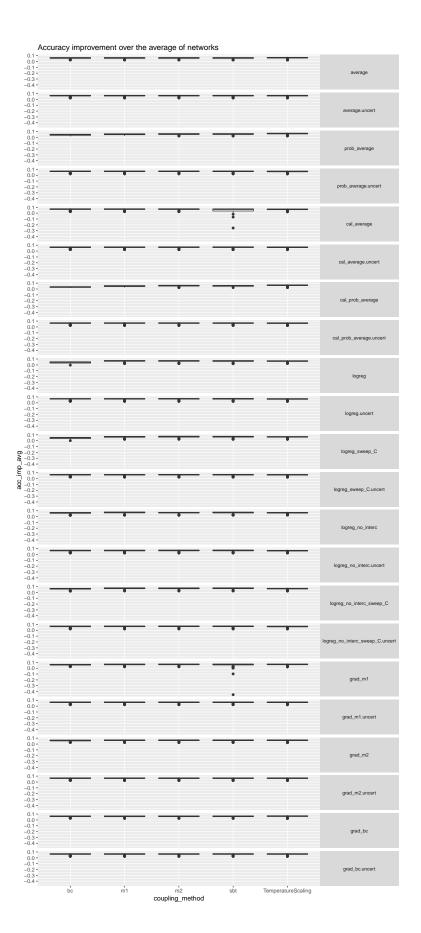




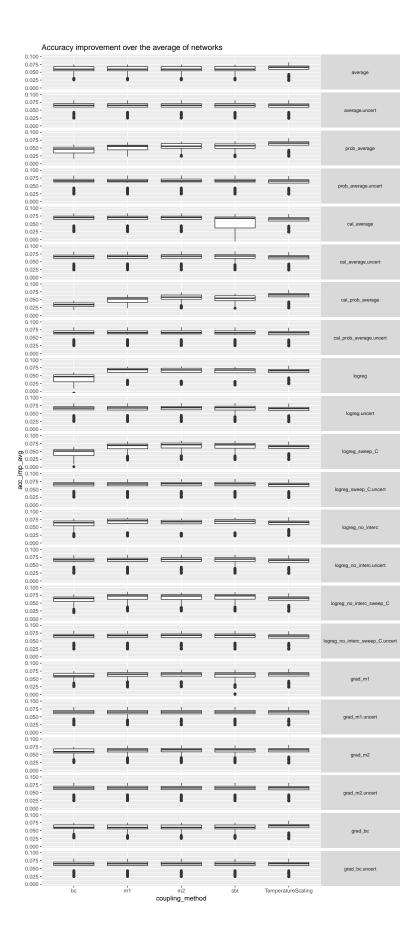




```
avg_imp_table <- rbind(</pre>
  ens_pwc_plt_df %>%
    mutate(method = paste(combining_method, coupling_method, sep=" ")) %>%
    group_by(method) %>%
    summarise(imp_o_avg = mean(acc_imp_avg), imp_o_max = mean(acc_imp_max)),
  ens_cal_plt_df %>%
    mutate(method = paste0("average of ", calibrating_method)) %>%
    group by(method) %>%
    summarise(imp_o_avg = mean(acc_imp_avg), imp_o_max = mean(acc_imp_max))
imp_avg_plot <- ggplot() +</pre>
  geom_boxplot(data = ens_pwc_plt_df, mapping = aes(x = coupling_method, y = acc_imp_avg)) +
  geom_boxplot(data = ens_cal_plt_df, mapping = aes(x = calibrating_method, y = acc_imp_avg)) +
  facet_grid(rows = vars(combining_method)) +
  ggtitle("Accuracy improvement over the average of networks") +
  theme(strip.text.y = element_text(size = 8, angle = 0))
print(imp_avg_plot)
```



print(imp_avg_plot + coord_cartesian(ylim=c(0, 0.1)))



print(xtable(avg_imp_table %>% arrange(desc(imp_o_avg)), digits=c(0, 0, 4, 4)), tabular.environment="localization"

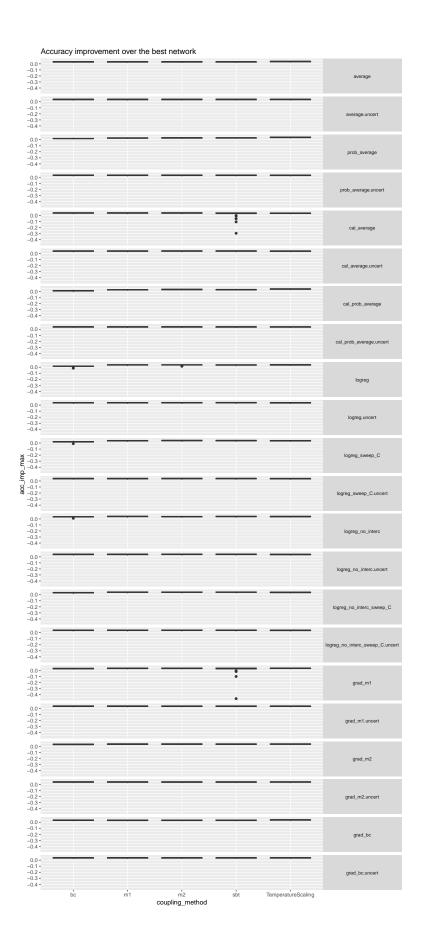
% latex table generated in R 4.0.2 by x table 1.8-4 package % Mon Jan 31 10:19:17 2022

	method	imp_o_avg	imp_o_max
1	logreg_no_interc_sweep_C sbt	0.0653	0.0413
$\overline{2}$	logreg no interc sweep C m1	0.0651	0.0411
3	cal_average m1	0.0646	0.0407
4	cal_average m2	0.0646	0.0407
5	cal average bc	0.0646	0.0407
6	logreg_no_interc_sweep_C m2	0.0644	0.0404
7	logreg_sweep_C m2	0.0640	0.0400
8	logreg_sweep_C sbt	0.0635	0.0396
9	logreg_no_interc.uncert sbt	0.0635	0.0396
10	logreg no interc.uncert m2	0.0633	0.0394
11	logreg.uncert sbt	0.0633	0.0393
12	logreg.uncert m2	0.0632	0.0392
13	cal_average.uncert sbt	0.0629	0.0390
14	logreg_no_interc_sweep_C.uncert sbt	0.0629	0.0389
15	logreg_no_interc_sweep_C.uncert m2	0.0628	0.0389
16	logreg_no_interc m1	0.0628	0.0388
17	logreg_sweep_C.uncert m2	0.0627	0.0388
18	logreg_no_interc.uncert m1	0.0627	0.0388
19	logreg_sweep_C.uncert sbt	0.0627	0.0388
20	cal_average.uncert m2	0.0626	0.0387
21	logreg_no_interc.uncert bc	0.0625	0.0386
$\frac{21}{22}$	logreg.uncert m1	0.0625	0.0385
$\frac{22}{23}$	logreg_no_interc_sweep_C.uncert m1	0.0625	0.0385
$\frac{23}{24}$	logreg.uncert bc	0.0624	0.0385
$\frac{24}{25}$	logreg_sweep_C.uncert m1	0.0624	0.0384
$\frac{26}{26}$	logreg_no_interc_sweep_C.uncert bc	0.0623	0.0383
$\frac{20}{27}$	prob_average.uncert m1	0.0623	0.0383
28	prob_average.uncert bc	0.0622	0.0383
$\frac{20}{29}$	prob_average.uncert m2	0.0622	0.0383
$\frac{23}{30}$	logreg_sweep_C.uncert bc	0.0622	0.0383
31	cal_average.uncert m1	0.0622	0.0383
$\frac{31}{32}$	prob_average.uncert sbt	0.0622	0.0382
$\frac{32}{33}$	logreg_sweep_C m1	0.0621	0.0382 0.0381
34	logreg_no_interc sbt	0.0621 0.0620	0.0381
35	cal_average.uncert bc	0.0620	0.0381
36	cal prob average.uncert m2	0.0620	0.0381
37	cal_prob_average.uncert bc	0.0619	0.0380
38	cal_prob_average.uncert m1	0.0619	0.0379
39	cal_prob_average.uncert inf cal_prob_average.uncert sbt	0.0618	0.0379
40	logreg m1	0.0614	0.0375
41	grad_bc.uncert bc	0.0613	0.0373
41	grad_m1.uncert bc	0.0613	0.0373
43	average.uncert bc	0.0613	0.0373
$\frac{43}{44}$	grad_m2.uncert bc	0.0613	0.0373
$\frac{44}{45}$	grad m2.uncert m1	0.0613	
$\frac{45}{46}$	grad m1.uncert sbt	0.0613 0.0612	0.0373
$\frac{40}{47}$	· -		0.0373
	grad_m2.uncert sbt	0.0612	0.0373
48	grad_m1.uncert m1	0.0612	0.0373

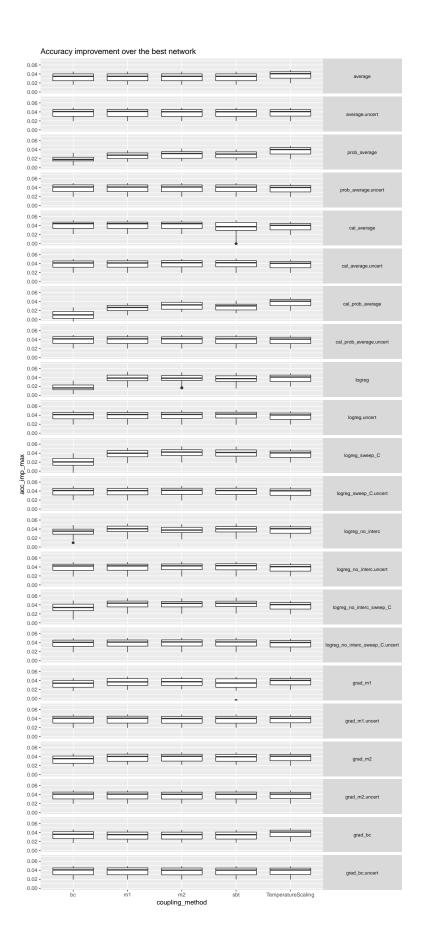
```
49
    grad bc.uncert sbt
                                                 0.0612
                                                                0.0373
                                                 0.0612
50
    grad_bc.uncert m1
                                                                0.0373
51
    average.uncert sbt
                                                 0.0612
                                                                0.0373
    average.uncert m1
                                                 0.0612
                                                                0.0373
53
    grad m2.uncert m2
                                                 0.0612
                                                                0.0373
54
    average.uncert m2
                                                 0.0612
                                                                0.0373
    grad m1.uncert m2
                                                 0.0612
                                                                0.0373
56
    grad bc.uncert m2
                                                 0.0612
                                                                0.0372
57
    average of TemperatureScaling
                                                 0.0611
                                                                0.0372
    \rm grad\_m2\ m2
58
                                                 0.0611
                                                                0.0372
    grad m2 sbt
                                                 0.0610
                                                                0.0371
60
    logreg m2
                                                                0.0370
                                                 0.0610
61
    grad m2 m1
                                                 0.0608
                                                                0.0369
62
    logreg no interc m2
                                                 0.0605
                                                                0.0366
63
    grad m1 m2
                                                 0.0603
                                                                0.0364
    grad m1 m1
64
                                                 0.0603
                                                                0.0363
65
    logreg sbt
                                                 0.0596
                                                                0.0357
66
    logreg no interc sweep C bc
                                                 0.0580
                                                                0.0340
    logreg_no_interc bc
67
                                                 0.0577
                                                                0.0338
    grad bc bc
68
                                                 0.0576
                                                                0.0337
69
    grad_m2 bc
                                                 0.0574
                                                                0.0335
70
    grad bc m2
                                                 0.0573
                                                                0.0333
71
    grad_bc m1
                                                 0.0573
                                                                0.0333
72
    grad bc sbt
                                                 0.0572
                                                                0.0333
73
    grad m1 bc
                                                 0.0572
                                                                0.0332
    average m1
                                                 0.0567
                                                                0.0327
75
    average m2
                                                 0.0567
                                                                0.0327
    average sbt
                                                 0.0567
                                                                0.0327
77
    average bc
                                                 0.0567
                                                                0.0327
78
    cal prob average m2
                                                 0.0551
                                                                0.0311
79
    prob average sbt
                                                 0.0532
                                                                0.0292
80
    prob average m2
                                                 0.0530
                                                                0.0291
81
    cal prob average sbt
                                                 0.0517
                                                                0.0277
82
    prob_average m1
                                                 0.0510
                                                                0.0271
83
    cal average sbt
                                                 0.0498
                                                                0.0258
84
    cal prob average m1
                                                 0.0490
                                                                0.0250
85
    grad m1 sbt
                                                 0.0474
                                                                0.0234
86
    logreg_sweep_C bc
                                                 0.0443
                                                                0.0204
87
    prob average bc
                                                 0.0431
                                                                0.0191
88
    logreg bc
                                                 0.0408
                                                                0.0169
89
    cal prob average bc
                                                 0.0336
                                                                0.0096
```

```
imp_max_plot <- ggplot() +
  geom_boxplot(data = ens_pwc_plt_df, mapping = aes(x = coupling_method, y = acc_imp_max)) +
  geom_boxplot(data = ens_cal_plt_df, mapping = aes(x = calibrating_method, y = acc_imp_max)) +
  facet_grid(rows = vars(combining_method)) +
  ggtitle("Accuracy improvement over the best network") +
  theme(strip.text.y = element_text(size = 8, angle = 0))

print(imp_max_plot)</pre>
```



print(imp_max_plot + coord_cartesian(ylim=c(0, 0.07)))



print(xtable(avg_imp_table %>% arrange(desc(imp_o_max)), digits=c(0, 0, 4, 4)), tabular.environment="lost

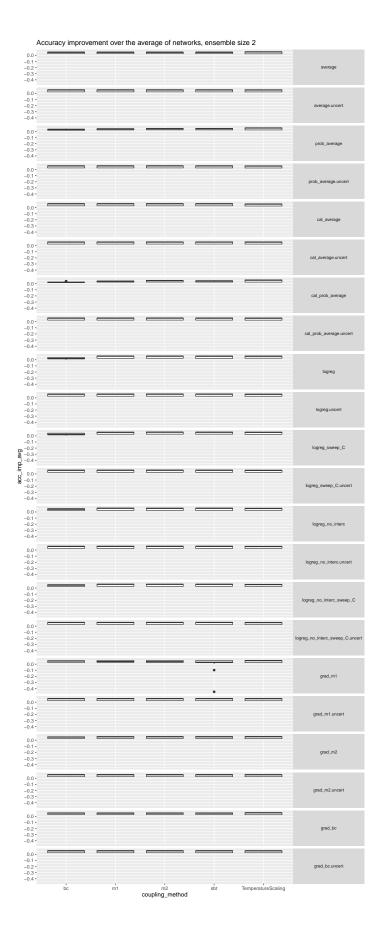
% latex table generated in R 4.0.2 by x table 1.8-4 package % Mon Jan 31 10:19:21 2022

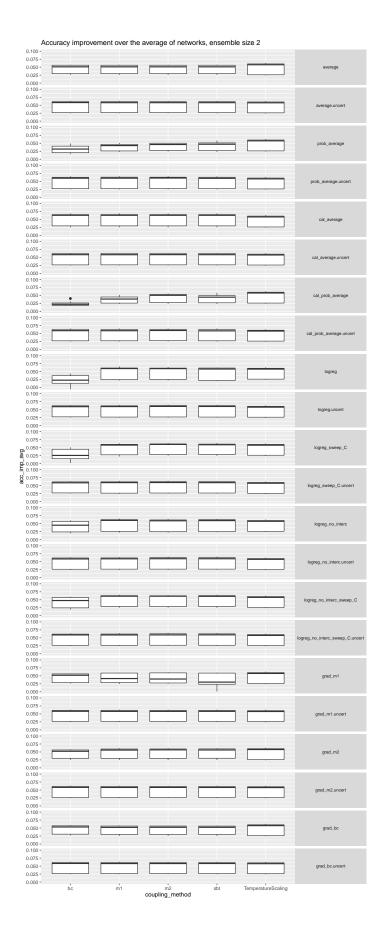
	method	imp_o_avg	imp_o_max
1	logreg_no_interc_sweep_C sbt	0.0653	0.0413
$\overline{2}$	logreg no interc sweep C m1	0.0651	0.0411
3	cal_average m1	0.0646	0.0407
4	cal_average m2	0.0646	0.0407
5	cal average bc	0.0646	0.0407
6	logreg_no_interc_sweep_C m2	0.0644	0.0404
7	logreg_sweep_C m2	0.0640	0.0400
8	logreg_sweep_C sbt	0.0635	0.0396
9	logreg_no_interc.uncert sbt	0.0635	0.0396
10	logreg no interc.uncert m2	0.0633	0.0394
11	logreg.uncert sbt	0.0633	0.0393
12	logreg.uncert m2	0.0632	0.0392
13	cal_average.uncert sbt	0.0629	0.0390
14	logreg_no_interc_sweep_C.uncert sbt	0.0629	0.0389
15	logreg_no_interc_sweep_C.uncert m2	0.0628	0.0389
16	logreg_no_interc m1	0.0628	0.0388
17	logreg_sweep_C.uncert m2	0.0627	0.0388
18	logreg_no_interc.uncert m1	0.0627	0.0388
19	logreg_sweep_C.uncert sbt	0.0627	0.0388
20	cal_average.uncert m2	0.0626	0.0387
21	logreg_no_interc.uncert bc	0.0625	0.0386
$\frac{21}{22}$	logreg.uncert m1	0.0625	0.0385
$\frac{22}{23}$	logreg_no_interc_sweep_C.uncert m1	0.0625	0.0385
$\frac{23}{24}$	logreg.uncert bc	0.0624	0.0385
$\frac{24}{25}$	logreg_sweep_C.uncert m1	0.0624	0.0384
$\frac{26}{26}$	logreg_no_interc_sweep_C.uncert bc	0.0623	0.0383
$\frac{20}{27}$	prob_average.uncert m1	0.0623	0.0383
28	prob_average.uncert bc	0.0622	0.0383
$\frac{20}{29}$	prob_average.uncert m2	0.0622	0.0383
$\frac{23}{30}$	logreg_sweep_C.uncert bc	0.0622	0.0383
31	cal_average.uncert m1	0.0622	0.0383
$\frac{31}{32}$	prob_average.uncert sbt	0.0622	0.0382
$\frac{32}{33}$	logreg_sweep_C m1	0.0621	0.0382 0.0381
34	logreg_no_interc sbt	0.0621 0.0620	0.0381
35	cal_average.uncert bc	0.0620	0.0381
36	cal prob average.uncert m2	0.0620	0.0381
37	cal_prob_average.uncert bc	0.0619	0.0380
38	cal_prob_average.uncert m1	0.0619	0.0379
39	cal_prob_average.uncert inf cal_prob_average.uncert sbt	0.0618	0.0379
40	logreg m1	0.0614	0.0375
41	grad_bc.uncert bc	0.0613	0.0373
41	grad_m1.uncert bc	0.0613	0.0373
43	average.uncert bc	0.0613	0.0373
$\frac{43}{44}$	grad_m2.uncert bc	0.0613	0.0373
$\frac{44}{45}$	grad m2.uncert m1	0.0613	
$\frac{45}{46}$	grad m1.uncert sbt	0.0613 0.0612	0.0373
$\frac{40}{47}$	· -		0.0373
	grad_m2.uncert sbt	0.0612	0.0373
48	grad_m1.uncert m1	0.0612	0.0373

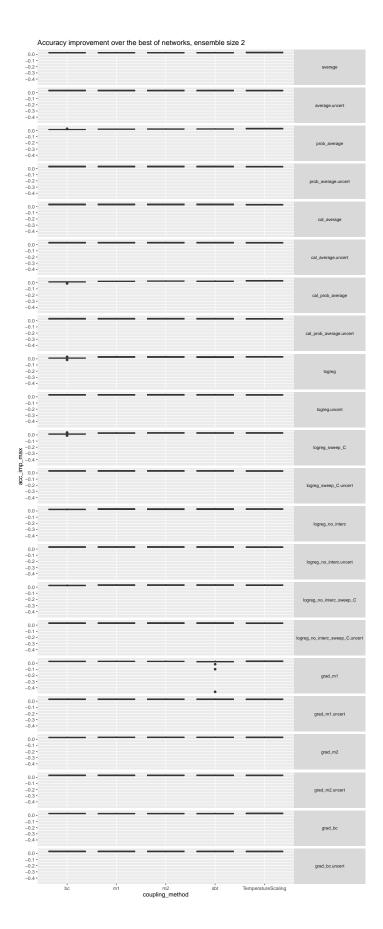
```
49
    grad bc.uncert sbt
                                                 0.0612
                                                                0.0373
50
    grad_bc.uncert m1
                                                 0.0612
                                                                0.0373
51
                                                 0.0612
                                                                0.0373
    average.uncert sbt
52
    average.uncert m1
                                                 0.0612
                                                                0.0373
53
    grad m2.uncert m2
                                                 0.0612
                                                                0.0373
54
    average.uncert m2
                                                 0.0612
                                                                0.0373
55
    grad m1.uncert m2
                                                 0.0612
                                                                0.0373
56
    grad bc.uncert m2
                                                 0.0612
                                                                0.0372
57
    average of TemperatureScaling
                                                 0.0611
                                                                0.0372
58
    grad_m2 m2
                                                                0.0372
                                                 0.0611
    grad m2 sbt
                                                 0.0610
                                                                0.0371
60
    logreg m2
                                                 0.0610
                                                                0.0370
    grad m2 m1
61
                                                 0.0608
                                                                0.0369
    logreg no interc m2
62
                                                 0.0605
                                                                0.0366
63
    grad m1 m2
                                                 0.0603
                                                                0.0364
    grad m1 m1
64
                                                 0.0603
                                                                0.0363
65
    logreg sbt
                                                 0.0596
                                                                0.0357
66
    logreg no interc sweep C bc
                                                 0.0580
                                                                0.0340
67
    logreg_no_interc bc
                                                 0.0577
                                                                0.0338
    grad bc bc
68
                                                 0.0576
                                                                0.0337
69
    grad_m2 bc
                                                 0.0574
                                                                0.0335
70
    grad bc m2
                                                 0.0573
                                                                0.0333
71
    grad_bc m1
                                                 0.0573
                                                                0.0333
72
    grad bc sbt
                                                 0.0572
                                                                0.0333
73
    grad m1 bc
                                                 0.0572
                                                                0.0332
    average m1
                                                 0.0567
                                                                0.0327
75
    average m2
                                                 0.0567
                                                                0.0327
76
    average sbt
                                                 0.0567
                                                                0.0327
77
    average bc
                                                 0.0567
                                                                0.0327
78
    cal prob average m2
                                                 0.0551
                                                                0.0311
79
    prob average sbt
                                                 0.0532
                                                                0.0292
80
    prob average m2
                                                 0.0530
                                                                0.0291
81
    cal prob average sbt
                                                 0.0517
                                                                0.0277
82
    prob_average m1
                                                 0.0510
                                                                0.0271
83
    cal average sbt
                                                 0.0498
                                                                0.0258
84
    cal_prob_average m1
                                                 0.0490
                                                                0.0250
85
    grad m1 sbt
                                                 0.0474
                                                                0.0234
86
    logreg_sweep_C bc
                                                 0.0443
                                                                0.0204
87
    prob average bc
                                                 0.0431
                                                                0.0191
88
    logreg bc
                                                 0.0408
                                                                0.0169
89
    cal prob average bc
                                                 0.0336
                                                                0.0096
```

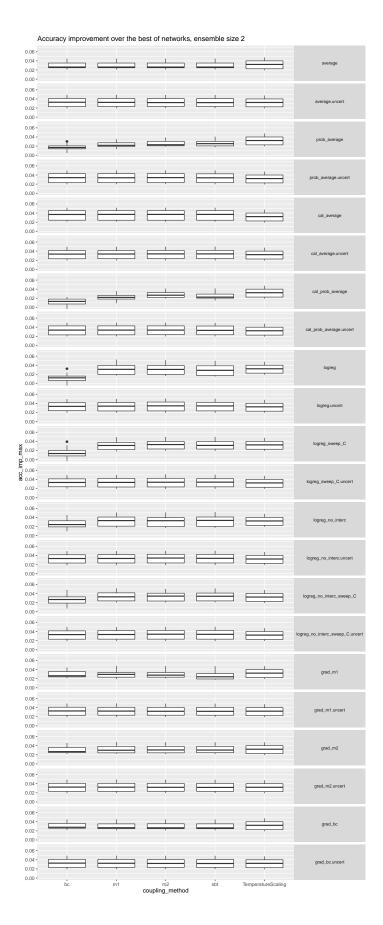
```
avg_imp_table_cs <- rbind(
  ens_pwc_plt_df %>%
  mutate(method = paste(combining_method, coupling_method, sep=" ")) %>%
  group_by(method, combination_size) %>%
  summarise(imp_o_avg = mean(acc_imp_avg), imp_o_max = mean(acc_imp_max)),
  ens_cal_plt_df %>%
  mutate(method = paste0("average of ", calibrating_method)) %>%
  group_by(method, combination_size) %>%
  summarise(imp_o_avg = mean(acc_imp_avg), imp_o_max = mean(acc_imp_max))
)
```

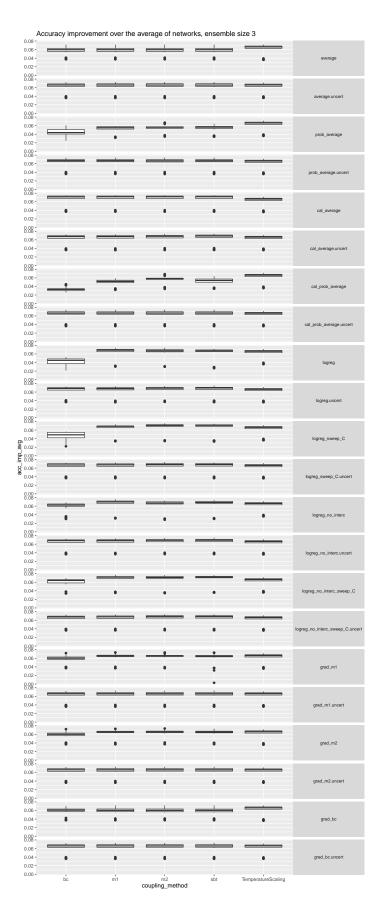
```
## 'summarise()' has grouped output by 'method'. You can override using the '.groups' argument.
## 'summarise()' has grouped output by 'method'. You can override using the '.groups' argument.
for (sss in unique(ens_cal_plt_df$combination_size))
  imp_avg_plot <- ggplot() +</pre>
   geom_boxplot(data = ens_pwc_plt_df %% filter(combination_size == sss), mapping = aes(x = coupling_
   geom_boxplot(data = ens_cal_plt_df %>% filter(combination_size == sss), mapping = aes(x = calibration_size)
   facet_grid(rows = vars(combining_method)) +
   ggtitle(sprintf("Accuracy improvement over the average of networks, ensemble size %s", sss)) +
    theme(strip.text.y = element_text(size = 8, angle = 0))
  print(imp_avg_plot)
  print(imp_avg_plot + coord_cartesian(ylim=c(0, 0.1)))
  imp_max_plot <- ggplot() +</pre>
   geom_boxplot(data = ens_pwc_plt_df %% filter(combination_size == sss), mapping = aes(x = coupling_
   geom_boxplot(data = ens_cal_plt_df %>% filter(combination_size == sss), mapping = aes(x = calibration_size)
   facet_grid(rows = vars(combining_method)) +
   ggtitle(sprintf("Accuracy improvement over the best of networks, ensemble size %s", sss)) +
   theme(strip.text.y = element_text(size = 8, angle = 0))
  print(imp_max_plot)
  print(imp_max_plot + coord_cartesian(ylim=c(0, 0.07)))
```

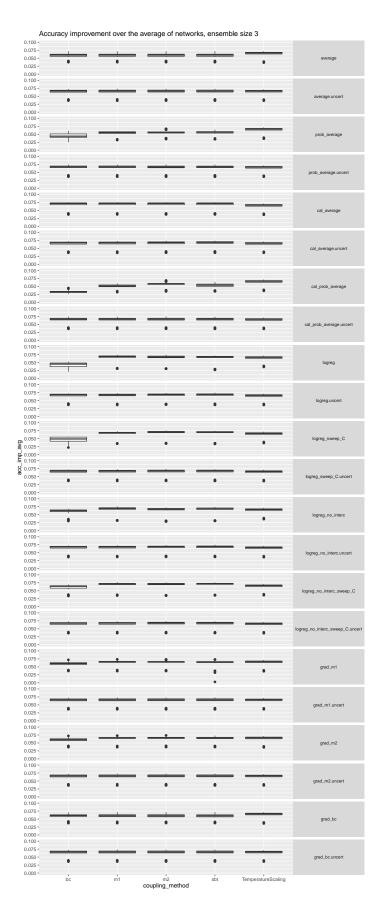


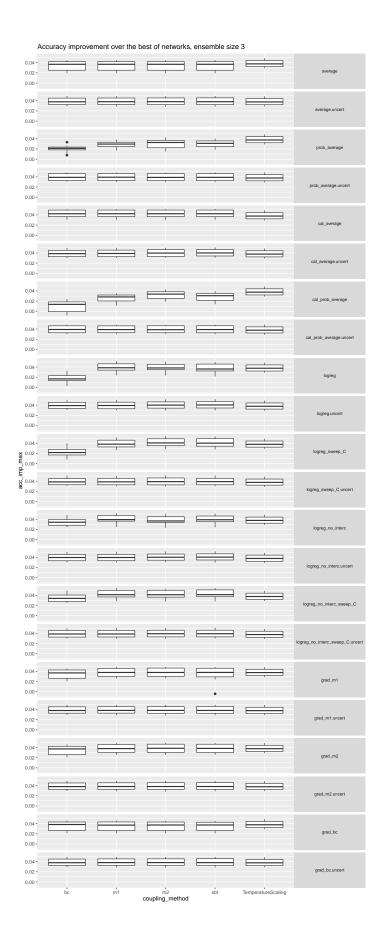


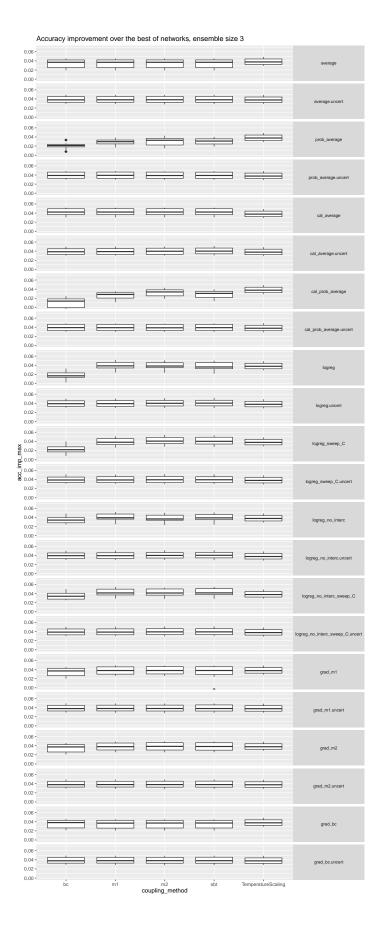


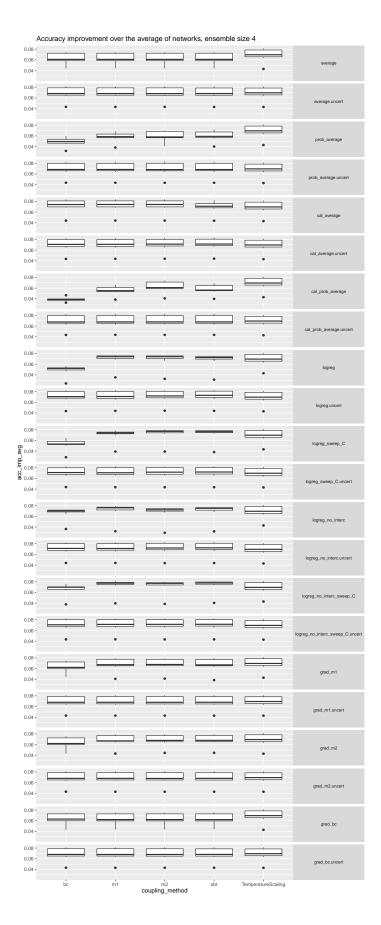


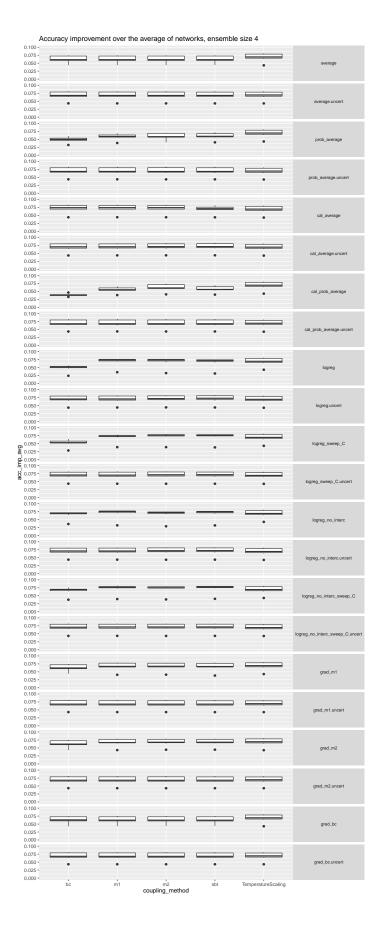


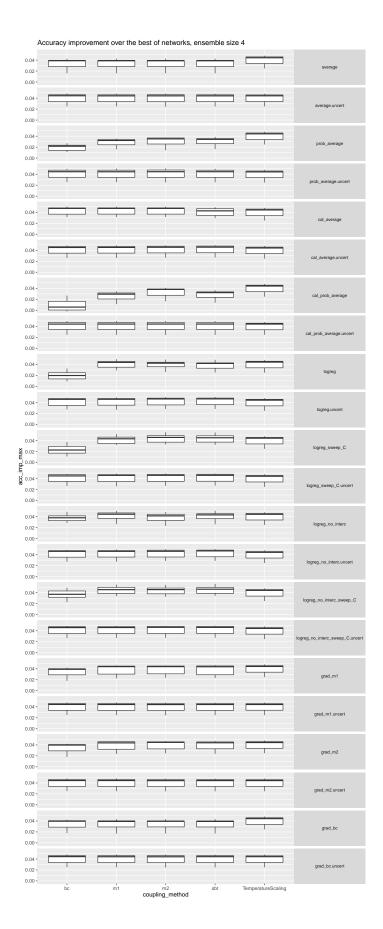


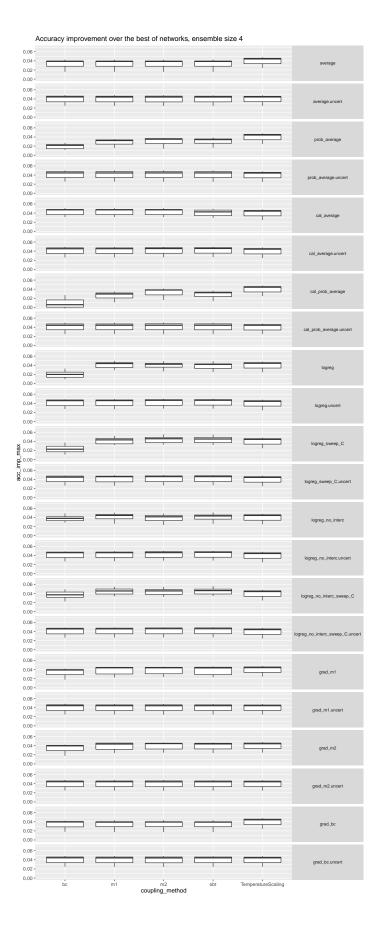


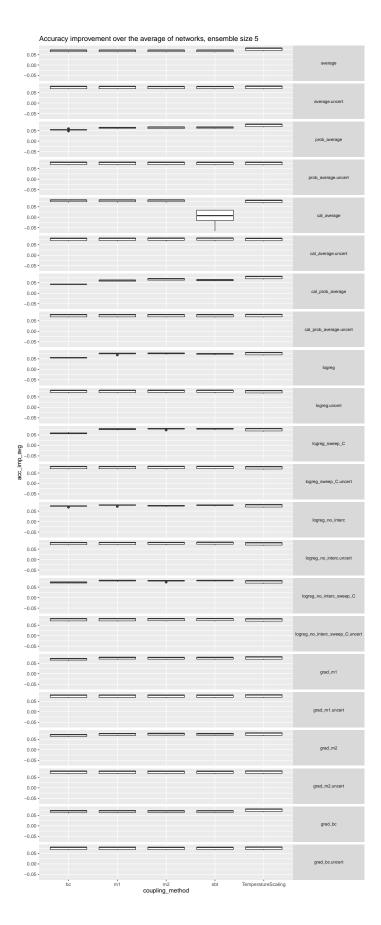


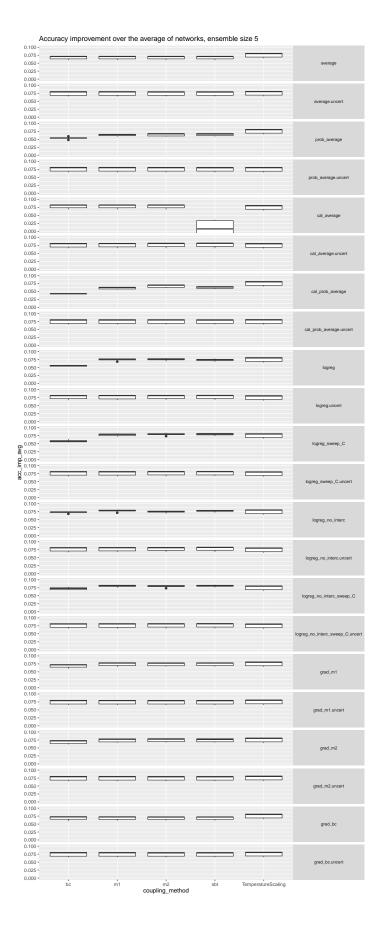


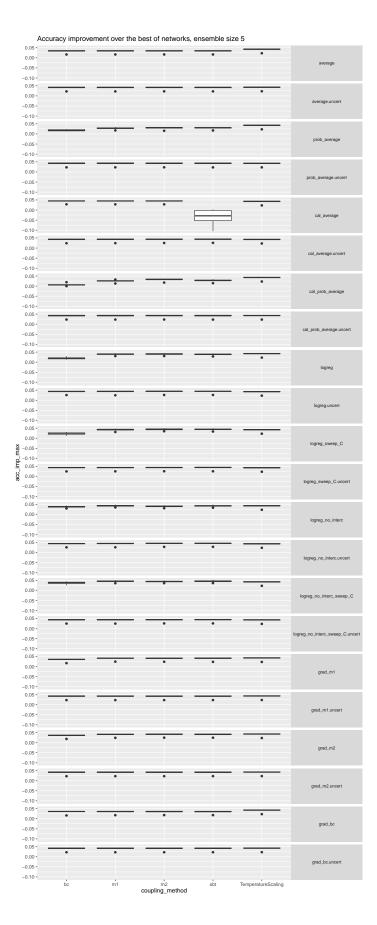


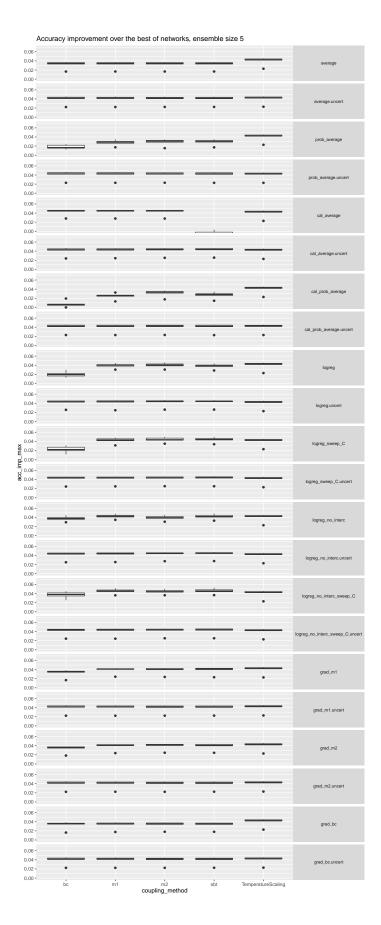


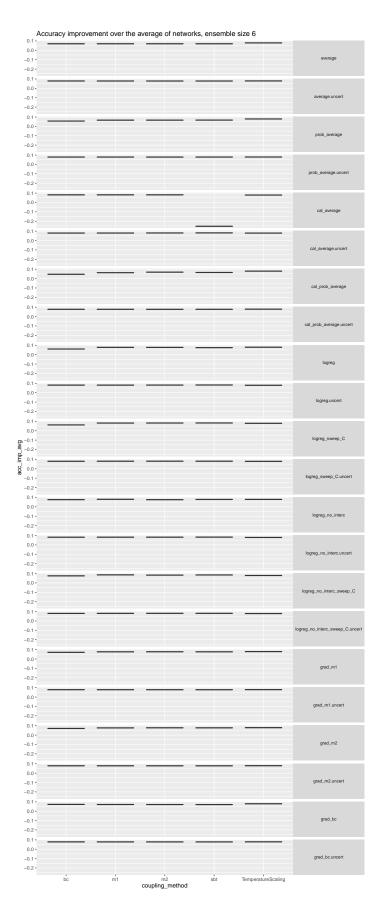


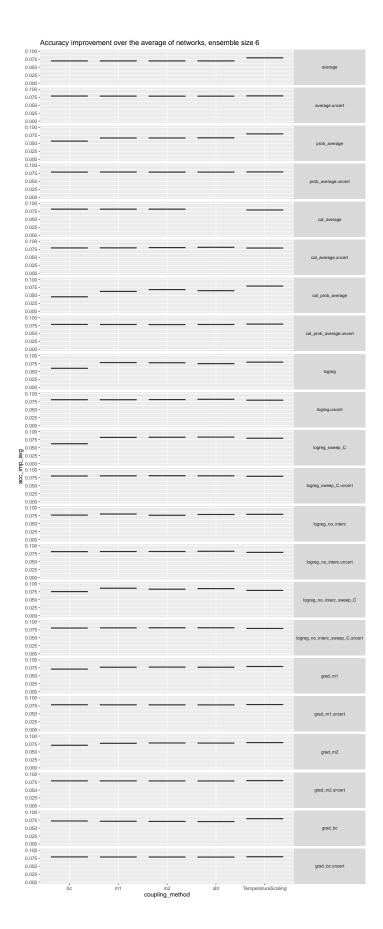


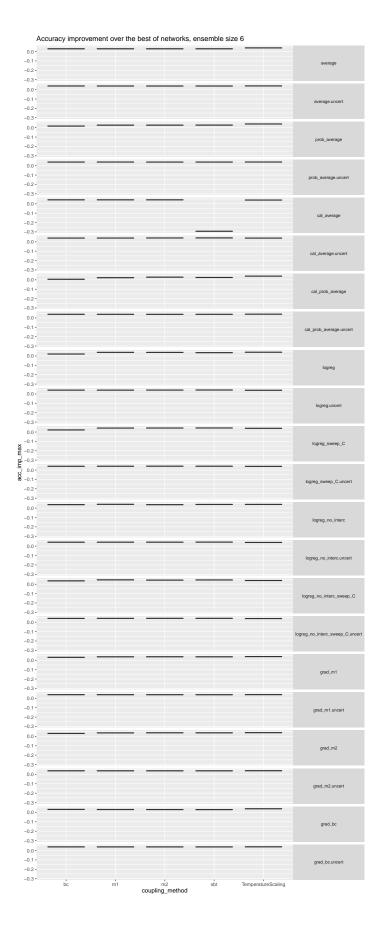


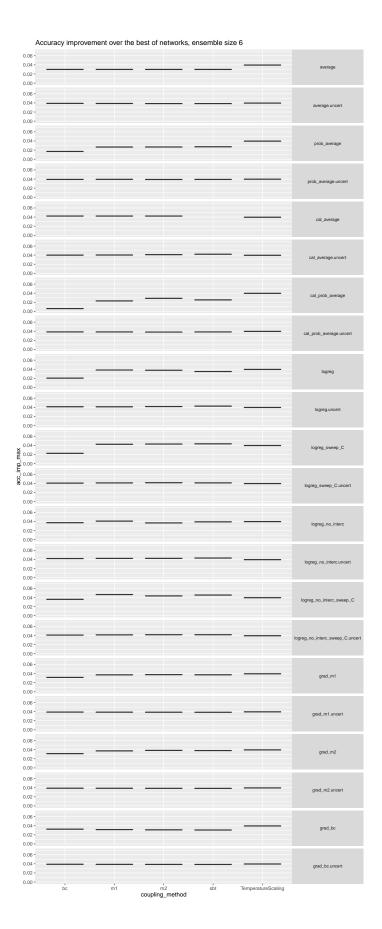












```
for (sss in unique(ens_cal_plt_df$combination_size))
{
   print(xtable(avg_imp_table_cs %>% filter(combination_size == sss) %>% arrange(desc(imp_o_avg)), digit
   print(xtable(avg_imp_table_cs %>% filter(combination_size == sss) %>% arrange(desc(imp_o_max)), digit
}
```

% latex table generated in R 4.0.2 by x table 1.8-4 package % Mon Jan 31 10:20:02 2022

1 cal_average m1 2 0.0485 0.0351 2 cal_average m2 2 0.0485 0.0351 3 cal_average bc 2 0.0484 0.0351 5 logreg_no_interc_sweep_C sbt 2 0.0472 0.0338 6 logreg_no_interc_sweep_C m1 2 0.0469 0.0338 7 prob_average.uncert m2 2 0.0469 0.0334 8 prob_average.uncert m1 2 0.0468 0.0334 9 cal_prob_average.uncert m2 2 0.0467 0.0333 10 prob_average.uncert bc 2 0.0467 0.0333 11 logreg_no_interc_sweep_C m2 2 0.0467 0.0333 12 prob_average.uncert sbt 2 0.0466 0.0333 13 logreg_uncert m2 2 0.0466 0.0333 14 cal_prob_average.uncert bm2 2 0.0466 0.0331 15 logreg_no_interc.uncert m2 2 0.0466 0.0331 16 cal_prob_average.uncert sbt 2 0.0464 0.031 17 cal_prob_average.uncert sbt 2 0.0464 0.0331 18 logreg_no_interc.uncert sbt 2 0.0464 0.033 18 logreg_no_interc_sweep_C.uncert sbt 2 0.0461 0.032		method	combination_size	imp_o_avg	imp_o_max
3 cal_average bt 2 0.0485 0.0351 4 cal_average bc 2 0.0484 0.0351 5 logreg_no_interc_sweep_C bt 2 0.0472 0.0338 6 logreg_no_interc_sweep_C ml 2 0.0469 0.0338 7 prob_average.uncert ml 2 0.0469 0.0333 8 prob_average.uncert br 2 0.0467 0.0333 9 cal_prob_average.uncert bc 2 0.0467 0.0333 10 prob_average.uncert bc 2 0.0467 0.0333 11 logreg_no_interc_sweep_C m2 2 0.0466 0.0333 12 prob_average.uncert bs 2 0.0466 0.0333 13 logreg_uncert m2 2 0.0465 0.0331 15 logreg_no_interc.uncert m1 2 0.0465 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert bt 2 0.0464 0.0331 18 logreg_sweep_C.uncert m2 2 0.0464 0.0330 19 logreg_no_interc_sweep_C.uncert m2 2 0.0464 0.0330 20 logreg_no_interc_sweep_C.uncert bs 2 0.0463 0.0326 </td <td>1</td> <td>cal_average m1</td> <td>2</td> <td>0.0485</td> <td>0.0351</td>	1	cal_average m1	2	0.0485	0.0351
4 cal_average bc 2 0.0484 0.0351 5 logreg_no_interc_sweep_C ml 2 0.0472 0.0338 6 logreg_no_interc_sweep_C ml 2 0.0469 0.0335 7 prob_average.uncert ml 2 0.0468 0.0334 8 prob_average.uncert bc 2 0.0467 0.0333 10 prob_average.uncert bc 2 0.0467 0.0333 11 logreg_no_interc_sweep_C m2 2 0.0467 0.0333 12 prob_average.uncert sbt 2 0.0466 0.0332 13 logreg_nucert m2 2 0.0466 0.0333 14 cal_prob_average.uncert sbt 2 0.0465 0.0331 15 logreg_no_interc.uncert m2 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert sbt 2 0.0464 0.0331 18 logreg_no_interc_uncert sbt 2 0.0464 0.0331 19 logreg_no_interc_sweep_C.uncert m2 2 0.0464 0.0330 20 logreg_no_interc_sweep_C.uncert bs 2	2	cal_average m2	2	0.0485	0.0351
5 logreg_no_interc_sweep_C sbt 2 0.0472 0.0338 6 logreg_no_interc_sweep_C m1 2 0.0471 0.0338 7 prob_average.uncert m2 2 0.0468 0.0334 8 prob_average.uncert m1 2 0.0467 0.0333 10 prob_average.uncert bc 2 0.0467 0.0333 11 logreg_no_interc_sweep_C m2 2 0.0466 0.0333 12 prob_average.uncert sbt 2 0.0466 0.0333 13 logreg_uncert m2 2 0.0465 0.0331 15 logreg_no_interc.uncert m1 2 0.0465 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert bc 2 0.0464 0.0331 18 logreg_sweep_C.uncert m2 2 0.0464 0.0331 19 logreg_no_interc_uncert sbt 2 0.0464 0.0330 10 logreg_no_interc_sweep_C.uncert m2 2 0.0463 0.0320 21 logreg_no_interc_sweep_C.uncert bc 2 0.0461 0.0328 22 logreg_sweep_C.uncert sbt 2 0.0461	3	cal_average sbt	2	0.0485	0.0351
6 logreg_no_interc_sweep_C m1 2 0.0471 0.0338 7 prob_average.uncert m2 2 0.0469 0.0334 8 prob_average.uncert m1 2 0.0468 0.0334 9 cal_prob_average.uncert bc 2 0.0467 0.0333 10 prob_average.uncert bc 2 0.0467 0.0333 11 logreg_no_interc_sweep_C m2 2 0.0466 0.0333 12 prob_average.uncert bt 2 0.0466 0.0333 13 logreg_uncert m2 2 0.0465 0.0331 14 cal_prob_average.uncert m2 2 0.0464 0.0331 15 logreg_no_interc.uncert m2 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert sbt 2 0.0464 0.0331 18 logreg_no_interc.uncert sbt 2 0.0464 0.0330 19 logreg_no_interc.uncert sbt 2 0.0464 0.0330 20 logreg_no_interc.uncert sbt 2 0.0463 0.0330 21 logreg_no_interc.sweep_C.uncert sbt 2 0.0463 0.0320 22 logreg_no_interc.sweep_C.uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.mcert sbt 2 0.0461 <td>4</td> <td></td> <td>2</td> <td>0.0484</td> <td>0.0351</td>	4		2	0.0484	0.0351
7 prob_average.uncert m2 2 0.0469 0.0335 8 prob_average.uncert m1 2 0.0468 0.0334 9 cal_prob_average.uncert m2 2 0.0467 0.0333 10 prob_average.uncert bc 2 0.0467 0.0333 11 logreg_no_interc_sweep_C m2 2 0.0466 0.0333 12 prob_average.uncert sbt 2 0.0466 0.0332 14 cal_prob_average.uncert m2 2 0.0465 0.0331 15 logreg_no_interc.uncert m2 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert bb 2 0.0464 0.0331 18 logreg_sweep_C.uncert m2 2 0.0464 0.0331 18 logreg_no_interc.uncert sbt 2 0.0464 0.0330 18 logreg_no_interc.sweep_C.uncert m2 2 0.0463 0.0330 19 logreg_no_interc_sweep_C.uncert bt 2 0.0463 0.0330 20 logreg_no_interc_sweep_C.uncert bt 2 0.0461 0.0328 22 logreg_uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0326 24 cal_average.uncert m2 2 0.0461	5	logreg_no_interc_sweep_C sbt	2	0.0472	0.0338
8 prob_average.uncert m1 2 0.0468 0.0334 9 cal_prob_average.uncert m2 2 0.0467 0.0333 10 prob_average.uncert bc 2 0.0467 0.0333 11 logreg_no_interc_sweep_C m2 2 0.0467 0.0333 12 prob_average.uncert sbt 2 0.0466 0.0333 13 logreg_no_interc_uncert m2 2 0.0465 0.0331 15 logreg_no_interc.uncert m2 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert sbt 2 0.0464 0.0331 18 logreg_sweep_Cuncert m2 2 0.0464 0.0331 19 logreg_no_interc.uncert sbt 2 0.0464 0.0330 19 logreg_no_interc.uncert sbt 2 0.0463 0.0330 20 logreg_no_interc.uncert sbt 2 0.0463 0.0320 21 logreg_no_interc_sweep_C.uncert sbt 2 0.0461 0.0328 22 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert bc <td>6</td> <td>logreg_no_interc_sweep_C m1</td> <td>2</td> <td>0.0471</td> <td>0.0338</td>	6	logreg_no_interc_sweep_C m1	2	0.0471	0.0338
9 cal_prob_average.uncert m2 2 0.0467 0.0333 10 prob_average.uncert be 2 0.0467 0.0333 11 logreg_no_interc_sweep_C m2 2 0.0467 0.0333 12 prob_average.uncert sbt 2 0.0465 0.0332 13 logreg_uncert m2 2 0.0465 0.0331 15 logreg_no_interc.uncert m1 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert sbt 2 0.0464 0.0331 18 logreg_sweep_C.uncert m2 2 0.0464 0.0330 19 logreg_no_interc_uncert sbt 2 0.0464 0.0330 20 logreg_no_interc_sweep_C.uncert m2 2 0.0463 0.0330 21 logreg_no_interc_sweep_C.uncert sbt 2 0.0463 0.0320 22 logreg_uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0326 24 cal_average.uncert sbt 2 0.0461 0.0326 25 logreg_sweep_C.meet 2 0.0461 0.0326 26 cal_average.uncert bc	7	prob_average.uncert m2	2	0.0469	0.0335
10 prob_average.uncert bc 2 0.0467 0.0333 11 logreg_no_interc_sweep_C m2 2 0.0466 0.0333 12 prob_average.uncert sbt 2 0.0466 0.0333 13 logreg_uncert m2 2 0.0465 0.0332 14 cal_prob_average.uncert m1 2 0.0465 0.0331 15 logreg_no_interc.uncert m2 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert bc 2 0.0464 0.0331 18 logreg_sweep_C.uncert m2 2 0.0464 0.0330 18 logreg_sweep_C.uncert m2 2 0.0464 0.0330 19 logreg_no_interc.uncert sbt 2 0.0463 0.0330 19 logreg_no_interc.uncert sbt 2 0.0463 0.0330 19 logreg_no_interc_sweep_C.uncert m2 2 0.0463 0.0330 10 logreg_no_interc_sweep_C.uncert sbt 2 0.0462 0.0328 10 logreg_uncert sbt 2 0.0461 0.0328 10 logreg_sweep_C.uncert sbt 2 0.0461 0.0327 10 logreg_sweep_C.uncert m2 2 0.0461 0.0327 10 logreg_uncert bc 2 0.0460 0.0326 10 logreg_uncert bc 2 0.0460 0.0326 10 logreg_uncert bc 2 0.0460 0.0326 10 logreg_uncert m1 2 0.0460 0.0326 10 logreg_uncert m1 2 0.0460 0.0326 10 logreg_uncert m1 2 0.0460 0.0326 10 logreg_uncert bc 2 0.0459 0.0325 10 logreg_uncert bc 2 0.0459 0.0325 10 logreg_uncert bc 2 0.0459 0.0325 10 logreg_uncert bc 2 0.0455 0.0321 10 logreg_uncert bc 2 0.0455 0.0321 10 logreg_uncert sbt 2 0.0455 0.0321 10 lograd_ml.uncert	8	prob_average.uncert m1	2	0.0468	0.0334
11 logreg_no_interc_sweep_C m2 2 0.0467 0.0333 12 prob_average.uncert sbt 2 0.0465 0.0333 13 logreg_uncert m2 2 0.0465 0.0332 14 cal_prob_average.uncert m1 2 0.0465 0.0331 15 logreg_no_interc.uncert m2 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert sbt 2 0.0464 0.0331 18 logreg_swep_Cuncert m2 2 0.0464 0.0330 19 logreg_no_interc.uncert sbt 2 0.0463 0.0330 20 logreg_no_interc.sweep_Cuncert m2 2 0.0463 0.0320 21 logreg_no_interc_sweep_Cuncert sbt 2 0.0463 0.0320 22 logreg_no_interc_sweep_Cuncert sbt 2 0.0461 0.0328 23 logreg_sweep_Cuncert sbt 2 0.0461 0.0326 24 cal_average.uncert sbt 2 0.0461 0.0327 25 logreg_sweep_C m2 2	9	cal_prob_average.uncert m2	2	0.0467	0.0333
12 prob_average.uncert m2 2 0.0466 0.0333 13 logreg uncert m2 2 0.0465 0.0332 14 cal_prob_average.uncert m1 2 0.0465 0.0331 15 logreg_no_interc.uncert m2 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert sbt 2 0.0464 0.0330 18 logreg_sweep_C.uncert m2 2 0.0464 0.0330 19 logreg_no_interc.uncert sbt 2 0.0463 0.0330 20 logreg_no_interc.uncert sbt 2 0.0463 0.0330 20 logreg_no_interc_sweep_C.uncert sbt 2 0.0463 0.0320 20 logreg_no_interc_sweep_C.uncert sbt 2 0.0461 0.0328 22 logreg_uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C m2 2 0.0461 0.0325 24 cal_average.uncert sbt 2 0.0461 0.0326 25 logreg_sweep_C m2 2 0.04	10	prob_average.uncert bc	2	0.0467	0.0333
13 logreg.uncert m2 2 0.0465 0.0332 14 cal_prob_average.uncert m1 2 0.0465 0.0331 15 logreg_no_interc.uncert m2 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert sbt 2 0.0464 0.0330 18 logreg_sweep_C.uncert m2 2 0.0464 0.0330 19 logreg_no_interc.uncert sbt 2 0.0463 0.0330 20 logreg_no_interc_sweep_C.uncert m2 2 0.0463 0.0320 21 logreg_no_interc_sweep_C.uncert sbt 2 0.0461 0.0328 22 logreg_no_interc_sweep_C.uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 24 cal_average.uncert sbt 2 0.0461 0.0326 25 logreg_sweep_C.m2 2 0.0461 0.0326 26 cal_average.uncert m2 2 0.0460 0.0326 28 logreg_no_interc_sweep_C.uncert m1	11	logreg_no_interc_sweep_C m2	2	0.0467	0.0333
14 cal_prob_average.uncert m1 2 0.0465 0.0331 15 logreg_no_interc.uncert m2 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert sbt 2 0.0464 0.0330 18 logreg_sweep_C.uncert m2 2 0.0463 0.0330 19 logreg_no_interc_sweep_C.uncert m2 2 0.0463 0.0320 20 logreg_no_interc_sweep_C.uncert sbt 2 0.0463 0.0329 21 logreg_no_interc_sweep_C.uncert sbt 2 0.0461 0.0328 22 logreg_uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 24 cal_average.uncert sbt 2 0.0461 0.0328 25 logreg_sweep_C m2 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0461 0.0327 27 logreg_uncert bc 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 30 logreg_uncert m1 2 0.0460 0.0326 31 logreg_no_interc_sweep_C.uncert bc <td>12</td> <td>prob_average.uncert sbt</td> <td>2</td> <td>0.0466</td> <td>0.0333</td>	12	prob_average.uncert sbt	2	0.0466	0.0333
15 logreg_no_interc.uncert m2 2 0.0464 0.0331 16 cal_prob_average.uncert bc 2 0.0464 0.0331 17 cal_prob_average.uncert sbt 2 0.0464 0.0330 18 logreg_sweep_C.uncert m2 2 0.0463 0.0330 19 logreg_no_interc.uncert sbt 2 0.0463 0.0329 21 logreg_no_interc_sweep_C.uncert sbt 2 0.0462 0.0328 22 logreg_uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 24 cal_average.uncert sbt 2 0.0461 0.0328 24 cal_average.uncert sbt 2 0.0461 0.0327 25 logreg_sweep_C m2 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0461 0.0327 27 logreg_sweep_C meet m2 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460	13	logreg.uncert m2	2	0.0465	0.0332
15 logreg_no_interc.uncert m2 2 0.0464 0.0331 16 cal_prob_average.uncert be 2 0.0464 0.0331 17 cal_prob_average.uncert sbt 2 0.0464 0.0330 18 logreg_sweep_C.uncert m2 2 0.0463 0.0330 19 logreg_no_interc.uncert sbt 2 0.0463 0.0332 20 logreg_no_interc_sweep_C.uncert sbt 2 0.0462 0.0328 21 logreg_no_interc_sweep_C.uncert sbt 2 0.0461 0.0328 22 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 24 cal_average.uncert sbt 2 0.0461 0.0327 25 logreg_sweep_C meet 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 29 logreg_no_interc.uncert bc 2	14	cal_prob_average.uncert m1	2	0.0465	0.0331
17 cal_prob_average.uncert sbt 2 0.0464 0.0330 18 logreg_sweep_C.uncert m2 2 0.0464 0.0330 19 logreg_no_interc.uncert sbt 2 0.0463 0.0330 20 logreg_no_interc_sweep_C.uncert m2 2 0.0462 0.0328 21 logreg_no_interc_sweep_C.uncert sbt 2 0.0461 0.0328 22 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 24 cal_average.uncert sbt 2 0.0461 0.0328 24 cal_average.uncert sbt 2 0.0461 0.0327 25 logreg_sweep_C m2 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0461 0.0327 27 logreg_uncert bc 2 0.0460 0.0326 28 logreg_no_interc.uncert m1 2 0.0460 0.0326 30 logreg_no_interc.uncert m1 2 0.0459 0.0326 31 logreg_sweep_C.uncert bc 2 <	15	logreg_no_interc.uncert m2	2	0.0464	0.0331
18 logreg_sweep_C.uncert m2 2 0.0464 0.0330 19 logreg_no_interc.uncert sbt 2 0.0463 0.0330 20 logreg_no_interc_sweep_C.uncert m2 2 0.0463 0.0329 21 logreg_no_interc_sweep_C.uncert sbt 2 0.0461 0.0328 22 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0327 25 logreg_sweep_C.mcert sbt 2 0.0461 0.0327 25 logreg_sweep_C.mcert m2 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0461 0.0327 27 logreg_sweep_C.uncert m1 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 29 logreg_uncert m1 2 0.0460 0.0326 30 logreg_sweep_C.uncert bc 2 0.0459 0.0326 31 logreg_no_interc_sweep_C.uncert bc 2 0.0459 0.0325 34 logreg_no_interc_weep_C.uncert bc	16	cal_prob_average.uncert bc	2	0.0464	0.0331
19 logreg_no_interc.uncert sbt 2 0.0463 0.0330 20 logreg_no_interc_sweep_C.uncert m2 2 0.0463 0.0329 21 logreg_no_interc_sweep_C.uncert sbt 2 0.0461 0.0328 22 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0327 24 cal_average.uncert sbt 2 0.0461 0.0327 25 logreg_sweep_C m2 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0461 0.0327 26 cal_average.uncert bc 2 0.0460 0.0327 27 logreg_sweep_C.uncert m1 2 0.0460 0.0326 28 logreg_no_interc.uncert m1 2 0.0460 0.0326 29 logreg_no_interc.uncert m1 2 0.0460 0.0326 31 logreg_sweep_C.uncert bc 2 0.0459 0.0325 32 logreg_mo_interc.uncert bc 2 0	17	cal_prob_average.uncert sbt		0.0464	0.0330
20 logreg_no_interc_sweep_C.uncert m2 2 0.0463 0.0329 21 logreg_no_interc_sweep_C.uncert sbt 2 0.0461 0.0328 22 logreg_uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 24 cal_average.uncert sbt 2 0.0461 0.0327 25 logreg_sweep_C m2 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0461 0.0327 27 logreg_uncert bc 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 29 logreg_no_interc.uncert m1 2 0.0460 0.0326 30 logreg_uncert m1 2 0.0459 0.0326 31 logreg_no_interc_sweep_C.uncert m1 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 34 logreg_no_interc_uncert bc 2 0.0458	18	logreg_sweep_C.uncert m2	2	0.0464	0.0330
21 logreg_no_interc_sweep_C.uncert sbt 2 0.0462 0.0328 22 logreg_uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 24 cal_average.uncert sbt 2 0.0461 0.0327 25 logreg_sweep_C m2 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0461 0.0327 27 logreg_uncert bc 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 29 logreg_no_interc.uncert m1 2 0.0460 0.0326 30 logreg_uncert m1 2 0.0460 0.0326 31 logreg_no_interc_sweep_C.uncert m1 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 34 logreg_no_interc_uncert bc 2 0.0458 0	19	logreg_no_interc.uncert sbt	2	0.0463	0.0330
22 logreg_uncert sbt 2 0.0461 0.0328 23 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 24 cal_average.uncert sbt 2 0.0461 0.0327 25 logreg_sweep_C m2 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0461 0.0327 27 logreg_uncert bc 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 29 logreg_no_interc.uncert m1 2 0.0460 0.0326 30 logreg_no_interc_sweep_C.uncert m1 2 0.0460 0.0326 31 logreg_no_interc_sweep_C.uncert m1 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 33 cal_average.uncert bc 2 0.0459 0.0325 34 logreg_no_interc_sweep_C.uncert bc 2 0.0459 0.0325 35 logreg_no_interc_sweep_C.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 <t< td=""><td>20</td><td>logreg_no_interc_sweep_C.uncert m2</td><td>2</td><td>0.0463</td><td>0.0329</td></t<>	20	logreg_no_interc_sweep_C.uncert m2	2	0.0463	0.0329
23 logreg_sweep_C.uncert sbt 2 0.0461 0.0328 24 cal_average.uncert sbt 2 0.0461 0.0327 25 logreg_sweep_C m2 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0461 0.0327 27 logreg.uncert bc 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 29 logreg_no_interc.uncert m1 2 0.0460 0.0326 30 logreg_no_interc.uncert m1 2 0.0460 0.0326 31 logreg_no_interc_sweep_C.uncert m1 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 33 cal_average.uncert bc 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 <td< td=""><td>21</td><td>logreg_no_interc_sweep_C.uncert sbt</td><td></td><td>0.0462</td><td>0.0328</td></td<>	21	logreg_no_interc_sweep_C.uncert sbt		0.0462	0.0328
24 cal_average.uncert sbt 2 0.0461 0.0327 25 logreg_sweep_C m2 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0461 0.0327 27 logreg_uncert bc 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 29 logreg_no_interc.uncert m1 2 0.0460 0.0326 30 logreg_no_interc_sweep_C.uncert m1 2 0.0459 0.0326 31 logreg_sweep_C.uncert bc 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 33 cal_average.uncert bc 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc.wncert bc 2 0.0459 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0321<	22	logreg.uncert sbt		0.0461	0.0328
25 logreg_sweep_C m2 2 0.0461 0.0327 26 cal_average.uncert m2 2 0.0461 0.0327 27 logreg_uncert bc 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 29 logreg_no_interc.uncert m1 2 0.0460 0.0326 30 logreg_uncert m1 2 0.0459 0.0326 31 logreg_no_interc_sweep_C.uncert bc 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 33 cal_average.uncert bc 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc_sweep_C.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321	23	logreg_sweep_C.uncert sbt		0.0461	0.0328
26 cal_average.uncert m2 2 0.0461 0.0327 27 logreg.uncert bc 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 29 logreg_no_interc.uncert m1 2 0.0460 0.0326 30 logreg_uncert m1 2 0.0460 0.0326 31 logreg_no_interc_sweep_C.uncert m1 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 33 cal_average.uncert m1 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc_sweep_C.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.	24	cal_average.uncert sbt		0.0461	0.0327
27 logreg_uncert bc 2 0.0460 0.0326 28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 29 logreg_no_interc.uncert m1 2 0.0460 0.0326 30 logreg_uncert m1 2 0.0459 0.0326 31 logreg_no_interc_sweep_C.uncert m1 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 33 cal_average.uncert bc 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc.uncert bc 2 0.0458 0.0325 36 cal_average.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert bc 2 0.0455 0.0321 <td>25</td> <td>$logreg_sweep_C m2$</td> <td></td> <td>0.0461</td> <td>0.0327</td>	25	$logreg_sweep_C m2$		0.0461	0.0327
28 logreg_sweep_C.uncert m1 2 0.0460 0.0326 29 logreg_no_interc.uncert m1 2 0.0460 0.0326 30 logreg_uncert m1 2 0.0460 0.0326 31 logreg_no_interc_sweep_C.uncert m1 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 33 cal_average.uncert m1 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc_sweep_C.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0322 39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert bc 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321	26	cal_average.uncert m2		0.0461	0.0327
29 logreg_no_interc.uncert m1 2 0.0460 0.0326 30 logreg_uncert m1 2 0.0460 0.0326 31 logreg_no_interc_sweep_C.uncert m1 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 33 cal_average.uncert bc 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc_sweep_C.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0322 39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert bc 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321 <td>27</td> <td>logreg.uncert bc</td> <td></td> <td>0.0460</td> <td>0.0326</td>	27	logreg.uncert bc		0.0460	0.0326
30 logreg.uncert m1 2 0.0460 0.0326 31 logreg_no_interc_sweep_C.uncert m1 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 33 cal_average.uncert m1 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc_sweep_C.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0322 39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert bc 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321	28	logreg_sweep_C.uncert m1		0.0460	0.0326
31 logreg_no_interc_sweep_C.uncert m1 2 0.0459 0.0326 32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 33 cal_average.uncert m1 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc_sweep_C.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0322 39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert bc 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321	29	logreg_no_interc.uncert m1		0.0460	0.0326
32 logreg_sweep_C.uncert bc 2 0.0459 0.0325 33 cal_average.uncert m1 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc_sweep_C.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0322 39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert sbt 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321	30	logreg.uncert m1		0.0460	0.0326
33 cal_average.uncert m1 2 0.0459 0.0325 34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc_sweep_C.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0322 39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert sbt 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321	31			0.0459	0.0326
34 logreg_no_interc.uncert bc 2 0.0459 0.0325 35 logreg_no_interc_sweep_C.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0322 39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert sbt 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321		logreg_sweep_C.uncert bc		0.0459	
35 logreg_no_interc_sweep_C.uncert bc 2 0.0458 0.0324 36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0322 39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert sbt 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321	33			0.0459	
36 cal_average.uncert bc 2 0.0458 0.0324 37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0322 39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert sbt 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321	34	logreg_no_interc.uncert bc		0.0459	0.0325
37 logreg_sweep_C sbt 2 0.0455 0.0322 38 logreg_no_interc m1 2 0.0455 0.0322 39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert sbt 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321		logreg_no_interc_sweep_C.uncert bc		0.0458	0.0324
38 logreg_no_interc m1 2 0.0455 0.0322 39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert sbt 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321	36	cal_average.uncert bc		0.0458	
39 grad_bc.uncert sbt 2 0.0455 0.0321 40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert sbt 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321	37	$logreg_sweep_C sbt$		0.0455	0.0322
40 grad_m1.uncert sbt 2 0.0455 0.0321 41 average.uncert sbt 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321		~ ~			
41 average.uncert sbt 2 0.0455 0.0321 42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321	39			0.0455	
42 grad_bc.uncert bc 2 0.0455 0.0321 43 grad_m2.uncert sbt 2 0.0455 0.0321					
43 grad_m2.uncert sbt 2 0.0455 0.0321		0			
		~			
44 grad_m2.uncert m1 2 0.0455 0.0321					
	44	grad_m2.uncert m1	2	0.0455	0.0321

45	average.uncert bc	2	0.0455	0.0321
46	grad_m1.uncert bc	2	0.0455	0.0321
47	grad_m2.uncert bc	2	0.0455	0.0321
48	grad_bc.uncert m1	2	0.0454	0.0321
49	grad_m1.uncert m1	2	0.0454	0.0321
50	grad_m2.uncert m2	2	0.0454	0.0321
51	average.uncert m1	2	0.0454	0.0321
52	average.uncert m2	2	0.0454	0.0321
53	$grad_m2 m2$	2	0.0454	0.0321
54	grad_bc.uncert m2	2	0.0454	0.0321
55	grad_m1.uncert m2	2	0.0454	0.0321
56	$grad_m2 sbt$	2	0.0453	0.0320
57	grad_m2 m1	2	0.0453	0.0319
58	logreg_no_interc sbt	2	0.0453	0.0319
59	average of TemperatureScaling	2	0.0449	0.0316
60	logreg_sweep_C m1	2	0.0447	0.0313
61	logreg m1	2	0.0445	0.0312
62	logreg_no_interc m2	2	0.0445	0.0311
63	grad_bc bc	2	0.0443	0.0309
64	logreg m2	2	0.0442	0.0309
65	grad_m2 bc	2	0.0438	0.0305
66	grad_m1 m1	2	0.0436	0.0302
67	grad_bc m2	2	0.0435	0.0302
68	grad_bc m1	2	0.0435	0.0302
69	grad_bc sbt	2	0.0435	0.0302
70	grad m1 m2	2	0.0434	0.0301
71	grad_m1 bc	2	0.0434	0.0300
72	average m1	2	0.0433	0.0300
73	average m2	2	0.0433	0.0300
74	average sbt	2	0.0433	0.0300
75	average bc	2	0.0433	0.0299
76	logreg sbt	2	0.0429	0.0296
77	logreg_no_interc_sweep_C bc	2	0.0411	0.0278
78	cal_prob_average m2	2	0.0409	0.0275
79	logreg_no_interc bc	2	0.0403	0.0269
80	prob_average sbt	2	0.0397	0.0263
81	cal_prob_average sbt	2	0.0392	0.0259
82	prob average m2	2	0.0389	0.0256
83	prob average m1	2	0.0367	0.0233
84	cal_prob_average m1	2	0.0359	0.0226
85	prob average bc	2	0.0310	0.0177
86	logreg_sweep_C bc	2	0.0276	0.0143
87	cal_prob_average bc	2	0.0244	0.0110
88	logreg bc	2	0.0242	0.0108
89	grad_m1 sbt	2	-0.0020	-0.0154
	<u> </u>			

% latex table generated in R 4.0.2 by x table 1.8-4 package % Mon Jan 31 10:20:02 2022

	method	$combination_size$	imp_o_avg	imp_o_max
1	cal_average m1	2	0.0485	0.0351
2	cal_average m2	2	0.0485	0.0351
3	cal_average sbt	2	0.0485	0.0351
4	cal_average bc	2	0.0484	0.0351

5	logreg_no_interc_sweep_C sbt	2	0.0472	0.0338
6	logreg_no_interc_sweep_C m1	2	0.0471	0.0338
7	prob_average.uncert m2	2	0.0469	0.0335
8	prob_average.uncert m1	2	0.0468	0.0334
9	cal_prob_average.uncert m2	2	0.0467	0.0333
10	prob_average.uncert bc	2	0.0467	0.0333
11	$logreg_no_interc_sweep_C m2$	2	0.0467	0.0333
12	prob_average.uncert sbt	2	0.0466	0.0333
13	logreg.uncert m2	2	0.0465	0.0332
14	cal_prob_average.uncert m1	2	0.0465	0.0331
15	logreg_no_interc.uncert m2	2	0.0464	0.0331
16	cal_prob_average.uncert bc	2	0.0464	0.0331
17	cal_prob_average.uncert sbt	2	0.0464	0.0330
18	logreg_sweep_C.uncert m2	2	0.0464	0.0330
19	logreg_no_interc.uncert sbt	$\overline{2}$	0.0463	0.0330
20	logreg_no_interc_sweep_C.uncert m2	$\frac{1}{2}$	0.0463	0.0329
$\frac{20}{21}$	logreg_no_interc_sweep_C.uncert sbt	2	0.0462	0.0328
$\frac{21}{22}$	logreg.uncert sbt	$\frac{2}{2}$	0.0461	0.0328
$\frac{22}{23}$	logreg_sweep_C.uncert sbt	$\frac{2}{2}$	0.0461	0.0328
$\frac{23}{24}$	-	$\frac{2}{2}$	0.0461	0.0328 0.0327
$\frac{24}{25}$	cal_average.uncert sbt	$\frac{2}{2}$		0.0327 0.0327
	logreg_sweep_C m2	$\frac{2}{2}$	0.0461	
26	cal_average.uncert m2		0.0461	0.0327
27	logreg.uncert bc	2	0.0460	0.0326
28	logreg_sweep_C.uncert m1	2	0.0460	0.0326
29	logreg_no_interc.uncert m1	2	0.0460	0.0326
30	logreg.uncert m1	2	0.0460	0.0326
31	logreg_no_interc_sweep_C.uncert m1	2	0.0459	0.0326
32	logreg_sweep_C.uncert bc	2	0.0459	0.0325
33	cal_average.uncert m1	2	0.0459	0.0325
34	logreg_no_interc.uncert bc	2	0.0459	0.0325
35	logreg_no_interc_sweep_C.uncert bc	2	0.0458	0.0324
36	cal_average.uncert bc	2	0.0458	0.0324
37	logreg_sweep_C sbt	2	0.0455	0.0322
38	logreg_no_interc m1	2	0.0455	0.0322
39	grad_bc.uncert sbt	2	0.0455	0.0321
40	grad_m1.uncert sbt	2	0.0455	0.0321
41	average.uncert sbt	2	0.0455	0.0321
42	grad_bc.uncert bc	2	0.0455	0.0321
43	grad_m2.uncert sbt	2	0.0455	0.0321
44	grad m2.uncert m1	$\frac{1}{2}$	0.0455	0.0321
45	average.uncert bc	$\frac{2}{2}$	0.0455	0.0321
46	grad_m1.uncert bc	$\frac{2}{2}$	0.0455	0.0321
47	grad m2.uncert bc	$\frac{2}{2}$	0.0455 0.0455	0.0321 0.0321
48	grad bc.uncert m1	$\frac{2}{2}$	0.0453 0.0454	0.0321 0.0321
	<u> </u>	$\frac{2}{2}$		
49	grad_m1.uncert m1		0.0454	0.0321
50	grad_m2.uncert m2	2	0.0454	0.0321
51	average.uncert m1	2	0.0454	0.0321
52	average.uncert m2	2	0.0454	0.0321
53	grad_m2 m2	2	0.0454	0.0321
54	grad_bc.uncert m2	2	0.0454	0.0321
55	grad_m1.uncert m2	2	0.0454	0.0321
56	grad_m2 sbt	2	0.0453	0.0320
57	grad_m2 m1	2	0.0453	0.0319
58	logreg_no_interc sbt	2	0.0453	0.0319

59	average of TemperatureScaling	2	0.0449	0.0316
60	logreg sweep C m1	2	0.0447	0.0313
61	logreg m1	2	0.0445	0.0312
62	logreg_no_interc m2	2	0.0445	0.0311
63	grad bc bc	2	0.0443	0.0309
64	logreg m2	2	0.0442	0.0309
65	grad m2 bc	2	0.0438	0.0305
66	grad_m1 m1	2	0.0436	0.0302
67	grad_bc m2	2	0.0435	0.0302
68	grad_bc m1	2	0.0435	0.0302
69	grad_bc sbt	2	0.0435	0.0302
70	grad_m1 m2	2	0.0434	0.0301
71	grad_m1 bc	2	0.0434	0.0300
72	average m1	2	0.0433	0.0300
73	average m2	2	0.0433	0.0300
74	average sbt	2	0.0433	0.0300
75	average bc	2	0.0433	0.0299
76	logreg sbt	2	0.0429	0.0296
77	logreg_no_interc_sweep_C bc	2	0.0411	0.0278
78	cal_prob_average m2	2	0.0409	0.0275
79	logreg_no_interc bc	2	0.0403	0.0269
80	prob_average sbt	2	0.0397	0.0263
81	cal_prob_average sbt	2	0.0392	0.0259
82	prob_average m2	2	0.0389	0.0256
83	prob_average m1	2	0.0367	0.0233
84	cal_prob_average m1	2	0.0359	0.0226
85	prob_average bc	2	0.0310	0.0177
86	logreg_sweep_C bc	2	0.0276	0.0143
87	cal_prob_average bc	2	0.0244	0.0110
88	logreg bc	2	0.0242	0.0108
89	grad_m1 sbt	2	-0.0020	-0.0154

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	method	combination_size	imp_o_avg	imp_o_max
1	logreg_no_interc_sweep_C sbt	3	0.0656	0.0426
2	logreg_no_interc_sweep_C m1	3	0.0654	0.0425
3	cal_average m1	3	0.0653	0.0424
4	cal_average m2	3	0.0653	0.0424
5	cal_average sbt	3	0.0653	0.0424
6	cal_average bc	3	0.0653	0.0424
7	logreg_no_interc_sweep_C m2	3	0.0648	0.0419
8	$logreg_sweep_C m2$	3	0.0643	0.0414
9	logreg_no_interc.uncert sbt	3	0.0640	0.0411
10	logreg.uncert sbt	3	0.0638	0.0409
11	logreg_no_interc.uncert m2	3	0.0637	0.0408
12	$logreg_sweep_C sbt$	3	0.0637	0.0408
13	logreg.uncert m2	3	0.0635	0.0406
14	cal_average.uncert sbt	3	0.0635	0.0405
15	logreg_no_interc_sweep_C.uncert sbt	3	0.0632	0.0403
16	logreg_no_interc_sweep_C.uncert m2	3	0.0632	0.0402
17	logreg_no_interc m1	3	0.0630	0.0401
18	$logreg_no_interc.uncert m1$	3	0.0630	0.0401

10	1 C1-4	9	0.0620	0.0400
19	logreg_sweep_C.uncert sbt	3	0.0630	0.0400
20	logreg_sweep_C.uncert m2	3	0.0630	0.0400
21	cal_average.uncert m2	3	0.0629	0.0400
22	logreg_no_interc.uncert bc	3	0.0628	0.0398
23	logreg.uncert m1	3	0.0627	0.0398
24	logreg.uncert bc	3	0.0627	0.0397
25	logreg_no_interc_sweep_C.uncert m1	3	0.0627	0.0397
26	logreg_sweep_C.uncert m1	3	0.0624	0.0395
27	cal_average.uncert m1	3	0.0624	0.0395
28	logreg_no_interc_sweep_C.uncert bc	3	0.0624	0.0395
29	logreg_sweep_C.uncert bc	3	0.0624	0.0394
30	prob_average.uncert bc	3	0.0623	0.0394
31	prob_average.uncert m1	3	0.0623	0.0394
32	logreg_sweep_C m1	3	0.0622	0.0393
33	prob_average.uncert sbt	3	0.0622	0.0393
34	cal_average.uncert bc	3	0.0621	0.0392
35	prob_average.uncert m2	3	0.0621	0.0392
36		3	0.0621 0.0621	0.0392 0.0392
37	logreg_no_interc sbt	3		
	cal_prob_average.uncert bc	3	0.0620	0.0391
38	logreg m1		0.0620	0.0391
39	cal_prob_average.uncert m2	3	0.0620	0.0390
40	cal_prob_average.uncert m1	3	0.0619	0.0390
41	cal_prob_average.uncert sbt	3	0.0619	0.0390
42	grad_m2 m2	3	0.0615	0.0386
43	grad_m1.uncert sbt	3	0.0615	0.0386
44	grad_m2.uncert sbt	3	0.0615	0.0385
45	average.uncert sbt	3	0.0615	0.0385
46	grad_bc.uncert sbt	3	0.0615	0.0385
47	average.uncert bc	3	0.0614	0.0385
48	grad_m1.uncert bc	3	0.0614	0.0385
49	grad_m2.uncert bc	3	0.0614	0.0385
50	grad_bc.uncert bc	3	0.0614	0.0385
51	grad_m2.uncert m2	3	0.0614	0.0385
52	grad bc.uncert m1	3	0.0614	0.0385
53	grad_m1.uncert m1	3	0.0614	0.0385
54	grad_m2.uncert m1	3	0.0614	0.0385
55	average.uncert m2	3	0.0614	0.0385
56	grad_m2 sbt	3	0.0614	0.0385
57	average.uncert m1	3	0.0614	0.0385
58	<u> </u>	3		
	grad_bc.uncert m2		0.0614	0.0385
59	grad_m1.uncert m2	3	0.0614	0.0385
60	grad_m1 m2	3	0.0613	0.0384
61	logreg m2	3	0.0613	0.0384
62	grad_m1 m1	3	0.0613	0.0384
63	average of TemperatureScaling	3	0.0612	0.0383
64	grad_m2 m1	3	0.0612	0.0383
65	logreg_no_interc m2	3	0.0608	0.0378
66	logreg sbt	3	0.0600	0.0371
67	grad_m1 sbt	3	0.0589	0.0359
68	logreg_no_interc_sweep_C bc	3	0.0585	0.0355
69	grad_bc bc	3	0.0584	0.0354
70	grad_m2 bc	3	0.0580	0.0350
71	grad_bc m2	3	0.0580	0.0350
72	grad_m1 bc	3	0.0579	0.0350
	· —	-		

73	grad bc m1	3	0.0579	0.0350
74	grad_bc sbt	3	0.0579	0.0350
75	logreg_no_interc bc	3	0.0577	0.0348
76	average m1	3	0.0574	0.0344
77	average m2	3	0.0574	0.0344
78	average sbt	3	0.0574	0.0344
79	average bc	3	0.0574	0.0344
80	cal_prob_average m2	3	0.0554	0.0325
81	prob_average m2	3	0.0537	0.0307
82	prob_average sbt	3	0.0535	0.0306
83	cal_prob_average sbt	3	0.0520	0.0290
84	prob_average m1	3	0.0515	0.0285
85	cal_prob_average m1	3	0.0493	0.0264
86	logreg_sweep_C bc	3	0.0452	0.0222
87	prob_average bc	3	0.0433	0.0203
88	logreg bc	3	0.0411	0.0182
89	cal_prob_average bc	3	0.0334	0.0104

% latex table generated in R 4.0.2 by x table 1.8-4 package % Mon Jan 31 10:20:02 2022

	method	combination_size	imp_o_avg	imp_o_max
1	logreg_no_interc_sweep_C sbt	3	0.0656	0.0426
2	logreg_no_interc_sweep_C m1	3	0.0654	0.0425
3	cal_average m1	3	0.0653	0.0424
4	cal_average m2	3	0.0653	0.0424
5	cal_average sbt	3	0.0653	0.0424
6	cal_average bc	3	0.0653	0.0424
7	$logreg_no_interc_sweep_C m2$	3	0.0648	0.0419
8	$logreg_sweep_C m2$	3	0.0643	0.0414
9	logreg_no_interc.uncert sbt	3	0.0640	0.0411
10	logreg.uncert sbt	3	0.0638	0.0409
11	logreg_no_interc.uncert m2	3	0.0637	0.0408
12	$logreg_sweep_C sbt$	3	0.0637	0.0408
13	logreg.uncert m2	3	0.0635	0.0406
14	cal_average.uncert sbt	3	0.0635	0.0405
15	logreg_no_interc_sweep_C.uncert sbt	3	0.0632	0.0403
16	logreg_no_interc_sweep_C.uncert m2	3	0.0632	0.0402
17	logreg_no_interc m1	3	0.0630	0.0401
18	logreg_no_interc.uncert m1	3	0.0630	0.0401
19	$logreg_sweep_C.uncert sbt$	3	0.0630	0.0400
20	logreg_sweep_C.uncert m2	3	0.0630	0.0400
21	cal_average.uncert m2	3	0.0629	0.0400
22	logreg_no_interc.uncert bc	3	0.0628	0.0398
23	logreg.uncert m1	3	0.0627	0.0398
24	logreg.uncert bc	3	0.0627	0.0397
25	logreg_no_interc_sweep_C.uncert m1	3	0.0627	0.0397
26	logreg_sweep_C.uncert m1	3	0.0624	0.0395
27	cal_average.uncert m1	3	0.0624	0.0395
28	$logreg_no_interc_sweep_C.uncert\ bc$	3	0.0624	0.0395
29	$logreg_sweep_C.uncert\ bc$	3	0.0624	0.0394
30	prob_average.uncert bc	3	0.0623	0.0394
31	prob_average.uncert m1	3	0.0623	0.0394
32	$logreg_sweep_C m1$	3	0.0622	0.0393

33	prob_average.uncert sbt	3	0.0622	0.0393
34	cal_average.uncert bc	3	0.0621	0.0392
35	prob_average.uncert m2	3	0.0621	0.0392
36	logreg_no_interc sbt	3	0.0621	0.0392
37	cal_prob_average.uncert bc	3	0.0620	0.0391
38	logreg m1	3	0.0620	0.0391
39	cal_prob_average.uncert m2	3	0.0620	0.0390
40	cal_prob_average.uncert m1	3	0.0619	0.0390
41	cal_prob_average.uncert sbt	3	0.0619	0.0390
42	grad_m2 m2	3	0.0615	0.0386
43	grad_m1.uncert sbt	3	0.0615	0.0386
44	grad_m2.uncert sbt	3	0.0615	0.0385
45	average.uncert sbt	3	0.0615	0.0385
46	grad_bc.uncert sbt	3	0.0615	0.0385
47	average.uncert bc	3	0.0614	0.0385
48	grad_m1.uncert bc	3	0.0614	0.0385
49	grad_m2.uncert bc	3	0.0614	0.0385
50	grad_bc.uncert bc	3	0.0614	0.0385
51	grad m2.uncert m2	3	0.0614	0.0385
52	grad_bc.uncert m1	3	0.0614	0.0385
53	grad_m1.uncert m1	3	0.0614	0.0385
54	grad_m?.uncert m1	3	0.0614	0.0385
55	average.uncert m2	3	0.0614	0.0385
56	grad m2 sbt	3	0.0614	0.0385
57	<u> </u>		0.0614 0.0614	
	average.uncert m1	3		0.0385
58	grad_bc.uncert m2	3	0.0614	0.0385
59	grad_m1.uncert m2	3	0.0614	0.0385
60	grad_m1 m2	3	0.0613	0.0384
61	logreg m2	3	0.0613	0.0384
62	grad_m1 m1	3	0.0613	0.0384
63	average of TemperatureScaling	3	0.0612	0.0383
64	grad_m2 m1	3	0.0612	0.0383
65	logreg_no_interc m2	3	0.0608	0.0378
66	logreg sbt	3	0.0600	0.0371
67	grad_m1 sbt	3	0.0589	0.0359
68	logreg_no_interc_sweep_C bc	3	0.0585	0.0355
69	grad_bc bc	3	0.0584	0.0354
70	grad_m2 bc	3	0.0580	0.0350
71	grad_bc m2	3	0.0580	0.0350
72	grad_m1 bc	3	0.0579	0.0350
73	grad_bc m1	3	0.0579	0.0350
74	grad_bc sbt	3	0.0579	0.0350
75	logreg_no_interc bc	3	0.0577	0.0348
76	average m1	3	0.0574	0.0344
77	average m2	3	0.0574	0.0344
78	average sbt	3	0.0574	0.0344
79	average bc	3	0.0574	0.0344
80	cal_prob_average m2	3	0.0554	0.0325
81	prob_average m2	3	0.0537	0.0307
82	prob_average sbt	3	0.0535	0.0306
83	cal_prob_average sbt	3	0.0520	0.0290
84	prob_average m1	3	0.0515	0.0285
85	cal_prob_average m1	3	0.0493	0.0264
86	logreg_sweep_C bc	3	0.0493 0.0452	0.0204 0.0222
00	108108 BWCCh O DC	J	0.0402	0.0222

87	prob_average bc	3	0.0433	0.0203
88	logreg bc	3	0.0411	0.0182
89	cal_prob_average bc	3	0.0334	0.0104

% latex table generated in R 4.0.2 by x table 1.8-4 package % Mon Jan 31 10:20:02 2022

	method	combination_	size	imp_o_avg	imp_o_max
1	logreg_no_interc_sweep_C sbt		4	0.0753	0.0452
2	logreg_no_interc_sweep_C m1		4	0.0749	0.0447
3	$logreg_no_interc_sweep_C m2$		4	0.0742	0.0440
4	$logreg_sweep_C m2$		4	0.0740	0.0439
5	$logreg_sweep_C sbt$		4	0.0737	0.0436
6	cal_average m1		4	0.0734	0.0432
7	cal_average m2		4	0.0734	0.0432
8	cal_average bc		4	0.0733	0.0432
9	logreg_no_interc.uncert sbt		4	0.0728	0.0427
10	logreg.uncert sbt		4	0.0727	0.0426
11	logreg_no_interc.uncert m2		4	0.0726	0.0425
12	logreg.uncert m2		4	0.0724	0.0423
13	logreg_no_interc m1		4	0.0723	0.0422
14	cal_average.uncert sbt		4	0.0722	0.0420
15	logreg_no_interc_sweep_C.uncert sbt		4	0.0721	0.0420
16	logreg_no_interc_sweep_C.uncert m2		4	0.0721	0.0419
17	logreg_no_interc.uncert m1		4	0.0720	0.0419
18	logreg_sweep_C.uncert sbt		4	0.0719	0.0418
19	logreg_sweep_C.uncert m2		4	0.0719	0.0418
20	logreg_no_interc.uncert bc		4	0.0718	0.0417
21	logreg_no_interc_sweep_C.uncert m1		4	0.0718	0.0417
22	cal_average.uncert m2		4	0.0718	0.0417
23	logreg.uncert m1		4	0.0717	0.0416
24	$logreg_sweep_C m1$		4	0.0717	0.0416
25	logreg_no_interc_sweep_C.uncert bc		4	0.0717	0.0415
26	logreg.uncert bc		4	0.0716	0.0415
27	logreg_sweep_C.uncert m1		4	0.0715	0.0414
28	logreg_no_interc sbt		4	0.0714	0.0413
29	logreg_sweep_C.uncert bc		4	0.0714	0.0413
30	cal_average.uncert m1		4	0.0714	0.0412
31	cal_average.uncert bc		4	0.0712	0.0411
32	prob_average.uncert m2		4	0.0711	0.0409
33	prob_average.uncert bc		4	0.0710	0.0409
34	prob_average.uncert m1		4	0.0710	0.0409
35	logreg m1		4	0.0710	0.0409
36	prob_average.uncert sbt		4	0.0709	0.0408
37	$cal_prob_average.uncert m2$		4	0.0707	0.0406
38	cal_prob_average.uncert m1		4	0.0707	0.0405
39	cal_prob_average.uncert bc		4	0.0707	0.0405
40	$cal_prob_average.uncert\ sbt$		4	0.0706	0.0405
41	cal_average sbt		4	0.0704	0.0403
42	logreg m2		4	0.0703	0.0402
43	average of TemperatureScaling		4	0.0702	0.0401
44	grad_bc.uncert bc		4	0.0702	0.0401
45	grad_m1.uncert bc		4	0.0702	0.0400
46	grad_m2.uncert bc		4	0.0702	0.0400

47	1 2 1	4	0.0700	0.0400
47 48	grad_m2.uncert m1	$\frac{4}{4}$	0.0702	0.0400
49	average.uncert bc	4	0.0702	0.0400
	grad_m1.uncert m1		0.0701	0.0400
50	average.uncert m1	4	0.0701	0.0400
51	grad_bc.uncert m1	4	0.0701	0.0400
52	grad_m2.uncert m2	4	0.0701	0.0400
53	grad_m2.uncert sbt	4	0.0701	0.0400
54	grad_bc.uncert sbt	4	0.0701	0.0400
55	average.uncert m2	4	0.0701	0.0400
56	grad_m1.uncert m2	4	0.0701	0.0400
57	average.uncert sbt	4	0.0701	0.0400
58	grad_m1.uncert sbt	4	0.0701	0.0400
59	grad_bc.uncert m2	4	0.0701	0.0400
60	$grad_m2 m2$	4	0.0697	0.0396
61	$grad_m2 ext{ sbt}$	4	0.0696	0.0395
62	logreg_no_interc m2	4	0.0694	0.0392
63	grad_m2 m1	4	0.0693	0.0392
64	grad_m1 m2	4	0.0691	0.0390
65	logreg sbt	4	0.0691	0.0389
66	grad_m1 m1	4	0.0689	0.0388
67	grad_m1 sbt	4	0.0686	0.0385
68	logreg_no_interc bc	4	0.0676	0.0375
69	logreg_no_interc_sweep_C bc	4	0.0671	0.0370
70	grad_m2 bc	4	0.0647	0.0346
71	grad_bc m2	4	0.0645	0.0344
72	grad_bc bc	4	0.0645	0.0344
73	grad_bc m1	4	0.0645	0.0344
74	grad_bc sbt	4	0.0645	0.0344
75	grad_m1 bc	4	0.0645	0.0343
76	average bc	4	0.0638	0.0336
77	average m1	4	0.0638	0.0336
78	average m2	4	0.0638	0.0336
79	average sbt	4	0.0638	0.0336
80	cal_prob_average m2	4	0.0632	0.0330
81	prob_average m2	4	0.0608	0.0307
82	prob_average sbt	4	0.0606	0.0305
83	prob_average m1	4	0.0588	0.0287
84	cal_prob_average sbt	4	0.0584	0.0283
85	cal_prob_average m1	$\overline{4}$	0.0561	0.0260
86	logreg_sweep_C bc	$\overline{4}$	0.0532	0.0231
87	logreg bc	4	0.0498	0.0196
88	prob average bc	4	0.0497	0.0195
89	cal prob average bc	4	0.0386	0.0085
		*	0.0000	0.0000

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	method	$combination_size$	imp_o_avg	imp_o_max
1	logreg_no_interc_sweep_C sbt	4	0.0753	0.0452
2	logreg_no_interc_sweep_C m1	4	0.0749	0.0447
3	$logreg_no_interc_sweep_C m2$	4	0.0742	0.0440
4	$logreg_sweep_C m2$	4	0.0740	0.0439
5	logreg_sweep_C sbt	4	0.0737	0.0436
6	cal_average m1	4	0.0734	0.0432

7	cal_average m2	4	0.0734	0.0432
8	cal_average bc	4	0.0733	0.0432
9	logreg_no_interc.uncert sbt	4	0.0728	0.0427
10	logreg.uncert sbt	4	0.0727	0.0426
11	logreg_no_interc.uncert m2	4	0.0726	0.0425
12	logreg.uncert m2	4	0.0724	0.0423
13	logreg_no_interc m1	4	0.0723	0.0422
14	cal_average.uncert sbt	4	0.0722	0.0420
15	logreg_no_interc_sweep_C.uncert sbt	4	0.0721	0.0420
16	logreg_no_interc_sweep_C.uncert m2	4	0.0721	0.0419
17	logreg_no_interc.uncert m1	4	0.0720	0.0419
18	logreg_sweep_C.uncert sbt	4	0.0719	0.0418
19	logreg_sweep_C.uncert m2	4	0.0719	0.0418
20	logreg_no_interc_sweep_C.uncert m1	4	0.0718	0.0417
21	logreg_no_interc.uncert bc	4	0.0718	0.0417
22	cal_average.uncert m2	4	0.0718	0.0417
23	logreg.uncert m1	4	0.0717	0.0416
24	logreg sweep C m1	4	0.0717	0.0416
25	logreg_no_interc_sweep_C.uncert bc	4	0.0717	0.0415
26	logreg.uncert bc	4	0.0716	0.0415
27	logreg_sweep_C.uncert m1	4	0.0715	0.0414
28	logreg_no_interc sbt	4	0.0714	0.0413
29	logreg_sweep_C.uncert bc	4	0.0714	0.0413
30	cal_average.uncert m1	4	0.0714	0.0412
31	cal_average.uncert bc	$\overline{4}$	0.0712	0.0411
32	prob_average.uncert m2	$\overline{4}$	0.0711	0.0409
33	prob_average.uncert bc	$\overline{4}$	0.0710	0.0409
34	prob_average.uncert m1	4	0.0710	0.0409
35	logreg m1	4	0.0710	0.0409
36	prob_average.uncert sbt	4	0.0709	0.0408
37	cal_prob_average.uncert m2	4	0.0707	0.0406
38	cal_prob_average.uncert m1	4	0.0707	0.0405
39	cal_prob_average.uncert bc	4	0.0707	0.0405
40	cal_prob_average.uncert sbt	4	0.0706	0.0405
41	cal_average sbt	4	0.0704	0.0403
42	logreg m2	4	0.0703	0.0402
43	average of TemperatureScaling	4	0.0702	0.0401
44	grad_bc.uncert bc	4	0.0702	0.0401
45	grad_m1.uncert bc	4	0.0702	0.0400
46	grad_m2.uncert bc	4	0.0702	0.0400
47	grad_m2.uncert m1	4	0.0702	0.0400
48	average.uncert bc	4	0.0702	0.0400
49	grad_m1.uncert m1	4	0.0702 0.0701	0.0400
50	average.uncert m1	4	0.0701	0.0400
51	grad_bc.uncert m1	4	0.0701	0.0400
52	grad_bc.uncert m2	4	0.0701	0.0400
52	grad m2.uncert sbt	4	0.0701	0.0400
54	grad bc.uncert sbt	4	0.0701	0.0400
55	average.uncert m2	4	0.0701	0.0400
	~	4		
56 57	grad_m1.uncert m2 average.uncert sbt	4	$0.0701 \\ 0.0701$	$0.0400 \\ 0.0400$
58	~	4		
59	grad_m1.uncert sbt grad_bc.uncert m2	4	0.0701	0.0400
	<u> </u>		0.0701	0.0400
60	grad_m2 m2	4	0.0697	0.0396

61	grad m2 sbt	4	0.0696	0.0395
62	logreg no interc m2	4	0.0694	0.0392
63	grad m2 m1	4	0.0693	0.0392
64	grad m1 m2	4	0.0691	0.0390
65	logreg sbt	4	0.0691	0.0389
66	grad_m1 m1	4	0.0689	0.0388
67	grad_m1 sbt	4	0.0686	0.0385
68	logreg_no_interc bc	4	0.0676	0.0375
69	logreg_no_interc_sweep_C bc	4	0.0671	0.0370
70	grad_m2 bc	4	0.0647	0.0346
71	grad_bc m2	4	0.0645	0.0344
72	grad_bc bc	4	0.0645	0.0344
73	grad_bc m1	4	0.0645	0.0344
74	grad_bc sbt	4	0.0645	0.0344
75	grad_m1 bc	4	0.0645	0.0343
76	average bc	4	0.0638	0.0336
77	average m1	4	0.0638	0.0336
78	average m2	4	0.0638	0.0336
79	average sbt	4	0.0638	0.0336
80	cal_prob_average m2	4	0.0632	0.0330
81	prob_average m2	4	0.0608	0.0307
82	prob_average sbt	4	0.0606	0.0305
83	prob_average m1	4	0.0588	0.0287
84	cal_prob_average sbt	4	0.0584	0.0283
85	cal_prob_average m1	4	0.0561	0.0260
86	logreg_sweep_C bc	4	0.0532	0.0231
87	logreg bc	4	0.0498	0.0196
88	prob_average bc	4	0.0497	0.0195
89	cal_prob_average bc	4	0.0386	0.0085

% latex table generated in R 4.0.2 by x table 1.8-4 package % Mon Jan 31 10:20:02 2022

	method	combination_size	imp_o_avg	imp_o_max
1	logreg_no_interc_sweep_C sbt	5	0.0811	0.0454
2	logreg_no_interc_sweep_C m1	5	0.0808	0.0451
3	$logreg_no_interc_sweep_C m2$	5	0.0798	0.0441
4	$logreg_sweep_C m2$	5	0.0794	0.0437
5	$logreg_sweep_C sbt$	5	0.0792	0.0435
6	logreg_no_interc.uncert sbt	5	0.0783	0.0426
7	cal_average bc	5	0.0782	0.0425
8	cal_average m1	5	0.0781	0.0424
9	cal_average m2	5	0.0781	0.0424
10	logreg_no_interc m1	5	0.0780	0.0423
11	logreg_no_interc.uncert m2	5	0.0780	0.0423
12	logreg_sweep_C m1	5	0.0777	0.0420
13	logreg.uncert sbt	5	0.0775	0.0418
14	logreg_no_interc sbt	5	0.0774	0.0417
15	logreg.uncert m2	5	0.0774	0.0417
16	logreg_no_interc_sweep_C.uncert sbt	5	0.0772	0.0415
17	logreg_no_interc.uncert m1	5	0.0772	0.0415
18	logreg_sweep_C.uncert sbt	5	0.0771	0.0414
19	cal_average.uncert sbt	5	0.0771	0.0414
20	logreg_no_interc_sweep_C.uncert m2	5	0.0769	0.0412

21	logreg.uncert bc	5	0.0769	0.0412
22	logreg_no_interc.uncert bc	5	0.0769	0.0412
23	logreg.uncert m1	5	0.0768	0.0411
24	logreg_sweep_C.uncert m2	5	0.0768	0.0411
25	cal_average.uncert m2	5	0.0768	0.0411
26	logreg_no_interc_sweep_C.uncert m1	5	0.0766	0.0409
27	logreg_sweep_C.uncert m1	5	0.0766	0.0409
28	logreg_no_interc_sweep_C.uncert bc	5	0.0766	0.0408
29	logreg_sweep_C.uncert bc	5	0.0765	0.0408
30	cal_average.uncert m1	5	0.0765	0.0407
31	cal_average.uncert bc	5	0.0763	0.0406
32	prob_average.uncert bc	5	0.0761	0.0403
33	prob_average.uncert m1	5	0.0760	0.0403
34	prob_average.uncert m2	5	0.0759	0.0402
35	prob_average.uncert sbt	5	0.0759	0.0402
36	average of TemperatureScaling	5	0.0756	0.0399
37	cal_prob_average.uncert m2	5	0.0755	0.0398
38	cal_prob_average.uncert bc	5	0.0755	0.0398
39	cal_prob_average.uncert m1	5	0.0755	0.0398
40	logreg m2	5	0.0755	0.0398
41	~ ~	5 5	0.0753 0.0754	0.0398 0.0397
42	cal_prob_average.uncert sbt			
	grad_m1.uncert bc	5	0.0751	0.0394
43	grad_bc.uncert bc	5	0.0751	0.0393
44	average.uncert bc	5	0.0750	0.0393
45	grad_m2.uncert bc	5	0.0750	0.0393
46	average.uncert m1	5	0.0750	0.0393
47	grad_bc.uncert m1	5	0.0750	0.0393
48	grad_m1.uncert m1	5	0.0750	0.0393
49	grad_m2.uncert m1	5	0.0750	0.0393
50	grad_m1.uncert sbt	5	0.0749	0.0392
51	grad_m2.uncert sbt	5	0.0749	0.0392
52	grad_bc.uncert sbt	5	0.0749	0.0392
53	logreg_no_interc m2	5	0.0749	0.0392
54	logreg m1	5	0.0749	0.0392
55	average.uncert m2	5	0.0749	0.0392
56	grad_m2.uncert m2	5	0.0749	0.0392
57	average.uncert sbt	5	0.0749	0.0392
58	grad_bc.uncert m2	5	0.0749	0.0392
59	grad_m1.uncert m2	5	0.0749	0.0392
60	grad_m2 m2	5	0.0749	0.0391
61	grad_m2 sbt	5	0.0745	0.0388
62	grad_m1 sbt	5	0.0744	0.0387
63	grad m1 m1	5	0.0744	0.0387
64	grad m1 m2	5	0.0743	0.0386
65	grad_m2 m1	5	0.0742	0.0385
66	logreg sbt	5	0.0736	0.0379
67	logreg no interc bc	5	0.0732	0.0375
68	logreg_no_interc_sweep_C bc	5	0.0727	0.0370
69	grad_m2 bc	5	0.0691	0.0334
70	grad_bc m1	5	0.0690	0.0333
71	grad bc m2	5	0.0689	0.0333
72	grad_bc bc	5 5	0.0689	0.0332 0.0332
73	grad_bc sbt	5 5	0.0688	0.0332 0.0331
	~			
74	grad_m1 bc	5	0.0685	0.0328

75	average m1	5	0.0678	0.0321
76	average m2	5	0.0678	0.0321
77	average sbt	5	0.0678	0.0321
78	average bc	5	0.0678	0.0320
79	cal_prob_average m2	5	0.0669	0.0312
80	prob_average sbt	5	0.0648	0.0291
81	prob_average m2	5	0.0645	0.0288
82	prob_average m1	5	0.0633	0.0276
83	cal_prob_average sbt	5	0.0626	0.0269
84	cal_prob_average m1	5	0.0605	0.0248
85	logreg_sweep_C bc	5	0.0582	0.0224
86	logreg bc	5	0.0557	0.0200
87	prob_average bc	5	0.0538	0.0181
88	cal_prob_average bc	5	0.0428	0.0071
89	cal_average sbt	5	0.0002	-0.0356

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1 logreg_no_interc_sweep_C m1 5 0.0811 0.0454 2 logreg_no_interc_sweep_C m1 5 0.0808 0.0451 3 logreg_no_interc_sweep_C m2 5 0.0798 0.0441 4 logreg_sweep_C m2 5 0.0794 0.0437 5 logreg_sweep_C sbt 5 0.0792 0.0435 6 logreg_no_interc.uncert sbt 5 0.0783 0.0426 7 cal_average bc 5 0.0782 0.0425 8 cal_average m1 5 0.0781 0.0424 9 cal_average m2 5 0.0781 0.0424 10 logreg_no_interc m1 5 0.0780 0.0423 11 logreg_no_interc m1 5 0.0780 0.0423 12 logreg_no_interc m1 5 0.0780 0.0423 12 logreg_no_interc sbt 5 0.0777 0.0420 13 logreg_nuncert sbt 5 0.0774 0.0417 14		method	combination_size	imp_o_avg	imp_o_max
3 logreg_no_interc_sweep_C m2 5 0.0798 0.0441 4 logreg_sweep_C m2 5 0.0794 0.0437 5 logreg_sweep_C sbt 5 0.0792 0.0435 6 logreg_no_interc.uncert sbt 5 0.0783 0.0426 7 cal_average bc 5 0.0781 0.0425 8 cal_average m1 5 0.0781 0.0424 9 cal_average m2 5 0.0781 0.0424 10 logreg_no_interc m1 5 0.0780 0.0423 11 logreg_no_interc.uncert m2 5 0.07780 0.0423 12 logreg_sweep_C m1 5 0.0777 0.0420 13 logreg_uncert sbt 5 0.0777 0.0423 14 logreg_no_interc sbt 5 0.0774 0.0417 15 logreg_uncert m2 5 0.0774 0.0417 16 logreg_no_interc_sweep_C.uncert sbt 5 0.0772 0.0415 17 logreg_no_interc_sweep_C.uncert m1 5 0.0771 0.0414 19 cal_average.uncert sbt 5 0.0771 0.0414	1	logreg_no_interc_sweep_C sbt	5	0.0811	
4 logreg_sweep_C m2 5 0.0794 0.0437 5 logreg_sweep_C sbt 5 0.0792 0.0435 6 logreg_no_interc.uncert sbt 5 0.0783 0.0426 7 cal_average bc 5 0.0782 0.0425 8 cal_average m1 5 0.0781 0.0424 9 cal_average m2 5 0.0781 0.0424 10 logreg_no_interc m1 5 0.0780 0.0423 11 logreg_no_interc.uncert m2 5 0.0780 0.0423 12 logreg_no_interc.uncert m2 5 0.0777 0.0420 13 logreg_sweep_C m1 5 0.0777 0.0420 14 logreg_no_interc sbt 5 0.0774 0.0417 15 logreg_no_interc_sweep_C.uncert sbt 5 0.0774 0.0417 16 logreg_no_interc_sweep_C.uncert sbt 5 0.0772 0.0415 18 logreg_no_interc_sweep_C.uncert m2 5 0.0771 0.0414 19 cal_average.uncert sbt 5 0.0769 0.0412	2	logreg_no_interc_sweep_C m1	5	0.0808	0.0451
5 logreg_sweep_C sbt 5 0.0792 0.0435 6 logreg_no_interc.uncert sbt 5 0.0783 0.0426 7 cal_average bc 5 0.0782 0.0425 8 cal_average m1 5 0.0781 0.0424 9 cal_average m2 5 0.0781 0.0424 10 logreg_no_interc m1 5 0.0780 0.0423 11 logreg_no_interc.uncert m2 5 0.0780 0.0423 12 logreg_no_interc.uncert m2 5 0.0777 0.0420 13 logreg_no_interc sbt 5 0.0777 0.0418 14 logreg_no_interc sbt 5 0.0774 0.0417 15 logreg_no_interc_sweep_C.uncert sbt 5 0.0772 0.0415 16 logreg_no_interc_uncert m1 5 0.0772 0.0415 17 logreg_no_interc_sweep_C.uncert m2 5 0.0771 0.0414 19 cal_average.uncert bc 5 0.0769 0.0412	3	$logreg_no_interc_sweep_C m2$		0.0798	0.0441
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7 cal_average bc 5 0.0782 0.0425 8 cal_average m1 5 0.0781 0.0424 9 cal_average m2 5 0.0781 0.0424 10 logreg_no_interc m1 5 0.0780 0.0423 11 logreg_no_interc.uncert m2 5 0.0780 0.0423 12 logreg_sweep_C m1 5 0.0777 0.0420 13 logreg_uncert sbt 5 0.0775 0.0418 14 logreg_no_interc sbt 5 0.0774 0.0417 15 logreg_uncert m2 5 0.0774 0.0417 16 logreg_no_interc.uncert sbt 5 0.0772 0.0415 17 logreg_no_interc.uncert sbt 5 0.0772 0.0415 18 logreg_sweep_C.uncert sbt 5 0.0771 0.0414 19 cal_average.uncert sbt 5 0.0771 0.0414 20 logreg_no_interc_uncert m2 5 0.0769 0.0412 21 logreg_uncert bc 5 0.0769 0.0412 22 logreg_no_interc_uncert m2 5 0.0768 0.0411 24 logreg_sweep_C.uncert m2 5 0.0768 0.0411		$logreg_sweep_C sbt$			
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9 cal_average m2 5 0.0781 0.0424 10 logreg_no_interc m1 5 0.0780 0.0423 11 logreg_no_interc.uncert m2 5 0.0780 0.0423 12 logreg_sweep_C m1 5 0.0777 0.0420 13 logreg.uncert sbt 5 0.0775 0.0418 14 logreg_no_interc sbt 5 0.0774 0.0417 15 logreg.uncert m2 5 0.0774 0.0417 16 logreg_no_interc_sweep_C.uncert sbt 5 0.0772 0.0415 17 logreg_no_interc.uncert m1 5 0.0772 0.0415 18 logreg_sweep_C.uncert sbt 5 0.0771 0.0414 19 cal_average.uncert sbt 5 0.0771 0.0414 20 logreg_no_interc_sweep_C.uncert m2 5 0.0769 0.0412 21 logreg_uncert bc 5 0.0769 0.0412 22 logreg_no_interc.uncert bc 5 0.0768 0.0411 24 logreg_sweep_C.uncert m2 5 0.0768 0.0411 25 cal_average.uncert m2 5 0.0766 0.0409 27 logreg_sweep_C.uncert bc 5 0.0766		cal_average bc		0.0782	
10 logreg_no_interc m1 5 0.0780 0.0423 11 logreg_no_interc.uncert m2 5 0.0780 0.0423 12 logreg_sweep_C m1 5 0.0777 0.0420 13 logreg_uncert sbt 5 0.0775 0.0418 14 logreg_no_interc sbt 5 0.0774 0.0417 15 logreg_uncert m2 5 0.0774 0.0417 16 logreg_no_interc_sweep_C.uncert sbt 5 0.0772 0.0415 17 logreg_no_interc_uncert m1 5 0.0772 0.0415 18 logreg_sweep_C.uncert sbt 5 0.0771 0.0414 19 cal_average.uncert sbt 5 0.0771 0.0414 20 logreg_no_interc_sweep_C.uncert m2 5 0.0769 0.0412 21 logreg_uncert bc 5 0.0769 0.0412 22 logreg_no_interc_uncert bc 5 0.0768 0.0411 24 logreg_sweep_C.uncert m2 5 0.0768 0.0411 25 cal_average.uncert m2 5 0.0766 0.		cal_average m1		0.0781	0.0424
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12 logreg_sweep_C ml 5 0.0777 0.0420 13 logreg_uncert sbt 5 0.0775 0.0418 14 logreg_no_interc sbt 5 0.0774 0.0417 15 logreg_uncert m2 5 0.0774 0.0417 16 logreg_no_interc_sweep_C.uncert sbt 5 0.0772 0.0415 17 logreg_no_interc.uncert m1 5 0.0772 0.0415 18 logreg_sweep_C.uncert sbt 5 0.0771 0.0414 19 cal_average.uncert sbt 5 0.0771 0.0414 20 logreg_no_interc_sweep_C.uncert m2 5 0.0769 0.0412 21 logreg_uncert bc 5 0.0769 0.0412 22 logreg_no_interc.uncert bc 5 0.0769 0.0412 23 logreg_uncert m1 5 0.0768 0.0411 24 logreg_sweep_C.uncert m2 5 0.0768 0.0411 25 cal_average.uncert m2 5 0.0766 0.0409 26 logreg_no_interc_sweep_C.uncert bc 5 0.0766 <	10	0 0— —			
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14 logreg_no_interc sbt 5 0.0774 0.0417 15 logreg_no_interc_sweep_C.uncert sbt 5 0.0772 0.0415 16 logreg_no_interc_sweep_C.uncert sbt 5 0.0772 0.0415 17 logreg_no_interc.uncert m1 5 0.0772 0.0415 18 logreg_sweep_C.uncert sbt 5 0.0771 0.0414 19 cal_average.uncert sbt 5 0.0769 0.0412 20 logreg_no_interc_sweep_C.uncert m2 5 0.0769 0.0412 21 logreg_uncert bc 5 0.0769 0.0412 22 logreg_no_interc.uncert bc 5 0.0769 0.0412 23 logreg_uncert m1 5 0.0768 0.0411 24 logreg_sweep_C.uncert m2 5 0.0768 0.0411 25 cal_average.uncert m2 5 0.0766 0.0409 26 logreg_sweep_C.uncert m1 5 0.0766 0.0409 28 logreg_no_interc_sweep_C.uncert bc 5 0.0766 0.0408 29 logreg_sweep_C.uncert bc 5 </td <td></td> <td>-</td> <td></td> <td></td> <td></td>		-			
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19 cal_average.uncert sbt 5 0.0771 0.0414 20 logreg_no_interc_sweep_C.uncert m2 5 0.0769 0.0412 21 logreg.uncert bc 5 0.0769 0.0412 22 logreg_no_interc.uncert bc 5 0.0769 0.0412 23 logreg.uncert m1 5 0.0768 0.0411 24 logreg_sweep_C.uncert m2 5 0.0768 0.0411 25 cal_average.uncert m2 5 0.0766 0.0401 26 logreg_no_interc_sweep_C.uncert m1 5 0.0766 0.0409 27 logreg_sweep_C.uncert m1 5 0.0766 0.0409 28 logreg_no_interc_sweep_C.uncert bc 5 0.0766 0.0408 29 logreg_sweep_C.uncert bc 5 0.0765 0.0408 30 cal_average.uncert m1 5 0.0765 0.0407 31 cal_average.uncert bc 5 0.0763 0.0406 32 prob_average.uncert bc 5 0.0761 0.0403 33 prob_average.uncert m1 5 0.0760<	17	<u> </u>			0.0415
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21 logreg.uncert bc 5 0.0769 0.0412 22 logreg_no_interc.uncert bc 5 0.0769 0.0412 23 logreg.uncert m1 5 0.0768 0.0411 24 logreg_sweep_C.uncert m2 5 0.0768 0.0411 25 cal_average.uncert m2 5 0.0768 0.0411 26 logreg_no_interc_sweep_C.uncert m1 5 0.0766 0.0409 27 logreg_sweep_C.uncert m1 5 0.0766 0.0409 28 logreg_no_interc_sweep_C.uncert bc 5 0.0766 0.0408 29 logreg_sweep_C.uncert bc 5 0.0765 0.0408 30 cal_average.uncert m1 5 0.0765 0.0407 31 cal_average.uncert bc 5 0.0763 0.0406 32 prob_average.uncert bc 5 0.0761 0.0403 33 prob_average.uncert m1 5 0.0760 0.0403		_ =			
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27 logreg_sweep_C.uncert m1 5 0.0766 0.0409 28 logreg_no_interc_sweep_C.uncert bc 5 0.0766 0.0408 29 logreg_sweep_C.uncert bc 5 0.0765 0.0408 30 cal_average.uncert m1 5 0.0765 0.0407 31 cal_average.uncert bc 5 0.0763 0.0406 32 prob_average.uncert bc 5 0.0761 0.0403 33 prob_average.uncert m1 5 0.0760 0.0403		cal_average.uncert m2		0.0768	
28 logreg_no_interc_sweep_C.uncert bc 5 0.0766 0.0408 29 logreg_sweep_C.uncert bc 5 0.0765 0.0408 30 cal_average.uncert m1 5 0.0765 0.0407 31 cal_average.uncert bc 5 0.0763 0.0406 32 prob_average.uncert bc 5 0.0761 0.0403 33 prob_average.uncert m1 5 0.0760 0.0403	26	logreg_no_interc_sweep_C.uncert m1		0.0766	0.0409
29 logreg_sweep_C.uncert bc 5 0.0765 0.0408 30 cal_average.uncert m1 5 0.0765 0.0407 31 cal_average.uncert bc 5 0.0763 0.0406 32 prob_average.uncert bc 5 0.0761 0.0403 33 prob_average.uncert m1 5 0.0760 0.0403	27	logreg_sweep_C.uncert m1		0.0766	0.0409
30 cal_average.uncert m1 5 0.0765 0.0407 31 cal_average.uncert bc 5 0.0763 0.0406 32 prob_average.uncert bc 5 0.0761 0.0403 33 prob_average.uncert m1 5 0.0760 0.0403	28	logreg_no_interc_sweep_C.uncert bc		0.0766	0.0408
31 cal_average.uncert bc 5 0.0763 0.0406 32 prob_average.uncert bc 5 0.0761 0.0403 33 prob_average.uncert m1 5 0.0760 0.0403	29	logreg_sweep_C.uncert bc		0.0765	0.0408
32 prob_average.uncert bc 5 0.0761 0.0403 33 prob_average.uncert m1 5 0.0760 0.0403	30	cal_average.uncert m1		0.0765	
33 prob_average.uncert m1 5 0.0760 0.0403	31	cal_average.uncert bc		0.0763	0.0406
• - •		prob_average.uncert bc	5	0.0761	
34 prob_average.uncert m2 5 0.0759 0.0402		-		0.0760	
	34	prob_average.uncert m2	5	0.0759	0.0402

35	prob_average.uncert sbt	5	0.0759	0.0402
36	average of TemperatureScaling	5	0.0756	0.0399
37	cal_prob_average.uncert m2	5	0.0755	0.0398
38	cal_prob_average.uncert bc	5	0.0755	0.0398
39	cal_prob_average.uncert m1	5	0.0755	0.0398
40	logreg m2	5	0.0755	0.0398
41	cal_prob_average.uncert sbt	5	0.0754	0.0397
42	grad_m1.uncert bc	5	0.0751	0.0394
43	grad_bc.uncert bc	5	0.0751	0.0393
44	average.uncert bc	5	0.0750	0.0393
45	grad_m2.uncert bc	5	0.0750	0.0393
46	average.uncert m1	5	0.0750	0.0393
47	grad_bc.uncert m1	5	0.0750	0.0393
48	grad_m1.uncert m1	5	0.0750	0.0393
49	grad_m2.uncert m1	5	0.0750	0.0393
50	grad_m1.uncert sbt	5	0.0749	0.0392
51	grad_m2.uncert sbt	5	0.0749	0.0392
52	grad bc.uncert sbt	5	0.0749	0.0392
53	logreg_no_interc m2	5	0.0749	0.0392
54	logreg m1	5	0.0749	0.0392
55	average.uncert m2	5	0.0749	0.0392
56	grad_m2.uncert m2	5	0.0749	0.0392
57	average.uncert sbt	5	0.0749	0.0392
58	grad_bc.uncert m2	5	0.0749	0.0392
59	grad_m1.uncert m2	5	0.0749	0.0392
60	grad_m2 m2	5	0.0749	0.0391
61	grad_m2 sbt	5	0.0745	0.0388
62	grad_m1 sbt	5	0.0744	0.0387
63	grad_m1 m1	5	0.0744	0.0387
64	grad_m1 m2	5	0.0743	0.0386
65	grad_m2 m1	5	0.0742	0.0385
66	logreg sbt	5	0.0736	0.0379
67	logreg_no_interc bc	5	0.0732	0.0375
68	logreg_no_interc_sweep_C bc	5	0.0727	0.0370
69	grad_m2 bc	5	0.0691	0.0334
70	grad_bc m1	5	0.0690	0.0333
71	grad bc m2	5	0.0689	0.0332
72	grad bc bc	5	0.0689	0.0332
73	grad_bc sbt	5	0.0688	0.0331
74	grad_m1 bc	5	0.0685	0.0328
75	average m1	5	0.0678	0.0321
76	average m2	5	0.0678	0.0321 0.0321
77	average sbt	5	0.0678	0.0321 0.0321
78	average bc	5	0.0678	0.0321 0.0320
79	cal_prob_average m2	5	0.0669	0.0320 0.0312
80	prob_average sbt	5	0.0648	0.0312 0.0291
81	prob_average m2	5	0.0645	0.0291 0.0288
82	prob_average m2 prob_average m1	5 5	0.0643	0.0286 0.0276
	-	5 5		
83	cal_prob_average sbt	5 5	0.0626	0.0269
84	cal_prob_average m1		0.0605	0.0248
85 86	logreg_sweep_C bc	5 5	0.0582	0.0224
86	logreg be		0.0557	0.0200
87	prob_average bc	5	0.0538	0.0181
88	cal_prob_average bc	5	0.0428	0.0071

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	method	combination	size	imp_	o_avg	imp_o_max
1	logreg_no_interc_sweep_C m1		6		0.0862	$\frac{1}{0.0465}$
2	logreg_no_interc_sweep_C sbt		6		0.0851	0.0454
3	logreg_no_interc_sweep_C m2		6		0.0832	0.0435
4	logreg_sweep_C sbt		6		0.0830	0.0433
5	logreg no interc.uncert sbt		6		0.0828	0.0431
6	logreg_sweep_C m2		6		0.0825	0.0428
7	logreg.uncert sbt		6		0.0822	0.0425
8	logreg_no_interc.uncert m2		6		0.0821	0.0424
9	logreg no interc.uncert m1		6		0.0820	0.0423
10	logreg_sweep_C m1		6		0.0820	0.0423
11	cal_average bc		6		0.0819	0.0422
12	cal_average m1		6		0.0819	0.0422
13	cal_average m2		6		0.0819	0.0422
14	logreg_no_interc.uncert bc		6		0.0817	0.0420
15	cal_average.uncert sbt		6		0.0816	0.0419
16	logreg_no_interc_sweep_C.uncert m2		6		0.0815	0.0418
17	logreg no interc sweep C.uncert sbt		6		0.0815	0.0418
18	logreg.uncert m2		6		0.0813	0.0416
19	logreg_no_interc_sweep_C.uncert m1		6		0.0812	0.0415
20	logreg_sweep_C.uncert m2		6		0.0811	0.0414
21	logreg.uncert bc		6		0.0809	0.0412
$\frac{1}{2}$	logreg.uncert m1		6		0.0808	0.0411
23	logreg_sweep_C.uncert sbt		6		0.0808	0.0411
$\frac{23}{24}$	cal_average.uncert m2		6		0.0807	0.0410
25	logreg_no_interc_sweep_C.uncert bc		6		0.0807	0.0410
26	logreg_sweep_C.uncert m1		6		0.0807	0.0410
$\frac{27}{27}$	logreg_no_interc m1		6		0.0803	0.0406
28	logreg_sweep_C.uncert bc		6		0.0802	0.0405
29	cal_average.uncert m1		6		0.0799	0.0402
30	cal_average.uncert bc		6		0.0796	0.0399
31	average of TemperatureScaling		6		0.0793	0.0396
32	prob_average.uncert m1		6		0.0790	0.0393
33	logreg_no_interc sbt		6		0.0788	0.0391
34	prob average.uncert bc		6		0.0788	0.0391
35	prob_average.uncert sbt		6		0.0788	0.0391
36	average.uncert bc		6		0.0787	0.0390
37	grad_bc.uncert bc		6		0.0787	0.0390
38	grad m1.uncert bc		6		0.0787	0.0390
39	prob_average.uncert m2		6		0.0787	0.0390
40	grad_m2.uncert bc		6		0.0786	0.0389
41	average.uncert m1		6		0.0785	0.0388
42	grad bc.uncert m1		6		0.0785	0.0388
43	grad m1.uncert m1		6		0.0785	0.0388
44	grad_m2.uncert m1		6		0.0785	0.0388
45	grad_bc.uncert m2		6		0.0784	0.0387
46	grad_m1.uncert m2		6		0.0784	0.0387
47	grad m2.uncert m2		6		0.0784	0.0387
48	average.uncert m2		6		0.0784 0.0783	0.0386
10	a, orașo, anooro 1112		U		0.0100	0.0000

Sociation Soci	49	average.uncert sbt	6	0.0783	0.0386
51 grad_ml.uncert sbt 6 0.0783 0.0386 52 grad_ml.uncert sbt 6 0.0783 0.0386 53 cal_prob_average.uncert bc 6 0.0781 0.0384 54 cal_prob_average.uncert ml 6 0.0781 0.0384 55 cal_prob_average.uncert sbt 6 0.0781 0.0384 56 grad_ml ml 6 0.0781 0.0384 57 logreg ml 6 0.0778 0.0381 58 cal_prob_average.uncert m2 6 0.0778 0.0381 59 grad_m2 sbt 6 0.0778 0.0381 59 grad_m2 bst 6 0.0778 0.0381 60 logreg m2 6 0.0774 0.0377 61 grad_m1 m2 6 0.0771 0.0373 61 grad_m1 sbt 6 0.0771 0.0374 62 grad_m1 bst 6 0.0764 0.0374 63 grad_m1 m1 6 <		~			
52 grad_m2.uncert sbt 6 0.0783 0.0386 53 cal_prob_average.uncert bt 6 0.0781 0.0384 54 cal_prob_average.uncert m1 6 0.0781 0.0384 55 cal_prob_average.uncert sbt 6 0.0781 0.0384 56 grad_m2 m2 6 0.0780 0.0384 57 logreg m1 6 0.0778 0.0381 58 cal_prob_average.uncert m2 6 0.0778 0.0381 59 grad_m2 sbt 6 0.0775 0.0378 60 logreg m2 6 0.0775 0.0378 61 grad_m2 sbt 6 0.0775 0.0378 61 grad_m1 m2 6 0.0771 0.0377 62 grad_m1 bst 6 0.0771 0.0373 65 logreg_no_interc bc 6 0.0764 0.0367 66 logreg_no_interc bc 6 0.0764 0.0367 67 logreg_no_interc sweep_C bc		~			
53 cal_prob_average.uncert bc 6 0.0782 0.0385 54 cal_prob_average.uncert m1 6 0.0781 0.0384 55 cal_prob_average.uncert sbt 6 0.0781 0.0384 56 grad_m2 m2 6 0.0781 0.0384 57 logreg m1 6 0.0780 0.0383 58 cal_prob_average.uncert m2 6 0.0778 0.0381 59 grad_prob_average.uncert m2 6 0.0778 0.0381 59 grad_m2 sbt 6 0.0775 0.0378 60 logreg m2 6 0.0774 0.0377 61 grad_m1 m2 6 0.0771 0.0374 62 grad_m1 sbt 6 0.0771 0.0374 63 grad_m2 m1 6 0.0771 0.0373 65 logreg_no_interc bc 6 0.0769 0.0372 66 logreg_no_interc m2 6 0.0744 0.0360 69 grad_bc bc <td< td=""><td></td><td><u> </u></td><td></td><td></td><td></td></td<>		<u> </u>			
54 cal_prob_average.uncert m1 6 0.0781 0.0384 55 cal_prob_average.uncert sbt 6 0.0781 0.0384 56 grad_m2 6 0.0781 0.0384 57 logreg m1 6 0.0780 0.0383 58 cal_prob_average.uncert m2 6 0.0778 0.0381 59 grad_m2 sbt 6 0.0775 0.0381 59 grad_m1 m2 6 0.0774 0.0377 61 grad_m1 sbt 6 0.0771 0.0374 62 grad_m2 m1 6 0.0771 0.0374 63 grad_m2 m1 6 0.0770 0.0373 64 grad_m1 m1 6 0.0770 0.0373 65 logreg_no_interc bc 6 0.0769 0.0372 66 logreg_no_interc m2 6 0.0744 0.0367 67 logreg_no_interc sweep_C be 6 0.0747 0.0350 69 grad_be be 6 <t< td=""><td></td><td><u> </u></td><td></td><td></td><td></td></t<>		<u> </u>			
55 cal_prob_average.uncert sbt 6 0.0781 0.0384 56 grad_m2 m2 6 0.0781 0.0384 57 logreg m1 6 0.0780 0.0383 58 cal_prob_average.uncert m2 6 0.0778 0.0381 59 grad_m2 sbt 6 0.0775 0.0378 60 logreg m2 6 0.0775 0.0378 61 grad_m1 m2 6 0.0774 0.0377 62 grad_m1 sbt 6 0.0771 0.0374 63 grad_m2 m1 6 0.0770 0.0373 65 logreg_no_interc bc 6 0.0769 0.0373 65 logreg_no_interc m2 6 0.0764 0.0367 66 logreg_no_interc sweep_C bc 6 0.0757 0.0360 68 logreg_s bt 6 0.0747 0.0350 69 grad_bc bc 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713		-			
56 grad_m2 m2 6 0.0781 0.0384 57 logreg m1 6 0.0780 0.0383 58 cal_prob_average.uncert m2 6 0.0778 0.0381 59 grad_m2 sbt 6 0.0778 0.0381 60 logreg m2 6 0.0774 0.0377 61 grad_m1 m2 6 0.0771 0.0374 63 grad_m2 m1 6 0.0771 0.0374 63 grad_m2 m1 6 0.0771 0.0373 65 logreg_no_interc bc 6 0.0769 0.0373 65 logreg_no_interc m2 6 0.0764 0.0367 67 logreg_no_interc m2 6 0.0747 0.0360 68 logreg_sbt 6 0.0747 0.0360 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0311					
57 logreg ml 6 0.0780 0.0383 58 cal_prob_average.uncert m2 6 0.0778 0.0381 59 grad_m2 sbt 6 0.0775 0.0381 60 logreg m2 6 0.0775 0.0378 61 grad_m1 m2 6 0.0771 0.0374 62 grad_m2 m1 6 0.0771 0.0374 63 grad_m2 m1 6 0.0770 0.0373 65 logreg_no_interc bc 6 0.0769 0.0372 66 logreg_no_interc m2 6 0.0764 0.0366 67 logreg_no_interc_sweep_C bc 6 0.0757 0.0360 68 logreg_sbt 6 0.0744 0.0356 69 grad_bc bc 6 0.0747 0.0356 69 grad_bc m1 6 0.0713 0.0316 71 grad_m2 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313					
58 cal_prob_average.uncert m2 6 0.0778 0.0381 59 grad_m2 sbt 6 0.0778 0.0381 60 logreg m2 6 0.0775 0.0378 61 grad_m1 m2 6 0.0771 0.0377 62 grad_m1 sbt 6 0.0771 0.0374 63 grad_m2 m1 6 0.0770 0.0373 65 logreg_no_interc bc 6 0.0769 0.0373 65 logreg_no_interc m2 6 0.0764 0.0367 67 logreg_no_interc_sweep_C bc 6 0.0757 0.0360 68 logreg_no_interc_sweep_C bc 6 0.0747 0.0350 68 logreg_no_interc_sweep_C bc 6 0.0747 0.0350 68 logreg_no_interc_sweep_C bc 6 0.0747 0.0350 68 logreg_no_interc_sweep_C bc 6 0.0713 0.0316 70 grad_bc m1 6 0.0713 0.0316 71 grad_bc		<u> </u>			
59 grad_m2 sbt 6 0.0778 0.0381 60 logreg m2 6 0.0775 0.0378 61 grad_m1 m2 6 0.0771 0.0374 62 grad_m1 sbt 6 0.0771 0.0374 63 grad_m2 m1 6 0.0770 0.0373 64 grad_m1 m1 6 0.0769 0.0372 65 logreg_no_interc bc 6 0.0769 0.0372 66 logreg_no_interc m2 6 0.0757 0.0360 67 logreg_no_interc_sweep_C bc 6 0.0757 0.0366 68 logreg_no_interc_sweep_C bc 6 0.0757 0.0360 68 logreg_no_interc_sweep_C bc 6 0.0747 0.0350 68 logreg_no_interc_sweep_C bc 6 0.0747 0.0350 68 logreg_no_interc_sweep_C bc 6 0.0713 0.0316 70 grad_bc bc 6 0.0713 0.0316 70 grad_bc bc					
60 logreg m2 6 0.0775 0.0378 61 grad_m1 m2 6 0.0774 0.0377 62 grad_m1 sbt 6 0.0771 0.0374 63 grad_m2 m1 6 0.0770 0.0373 64 grad_m1 m1 6 0.0769 0.0372 65 logreg_no_interc bc 6 0.0764 0.0367 66 logreg_no_interc m2 6 0.0757 0.0360 68 logreg_no_interc_sweep_C bc 6 0.0747 0.0356 68 logreg sbt 6 0.0747 0.0356 69 grad_bc bc 6 0.0722 0.0325 70 grad_bb m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0704 0.0307 74 grad_pbc sbt 6 0.0704 0.0307 <td></td> <td></td> <td></td> <td></td> <td></td>					
61 grad_ml m2 6 0.0774 0.0377 62 grad_ml sbt 6 0.0771 0.0374 63 grad_ml m1 6 0.0770 0.0373 65 logreg_no_interc bc 6 0.0769 0.0372 66 logreg_no_interc m2 6 0.0757 0.0360 67 logreg no_interc_sweep_C bc 6 0.0747 0.0350 68 logreg sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0713 0.0316 70 grad_mb bc 6 0.0713 0.0316 71 grad_m2 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0713 0.0316 73 grad_bc m2 6 0.0704 0.0307 75 average bc 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 <td>60</td> <td></td> <td>6</td> <td>0.0775</td> <td>0.0378</td>	60		6	0.0775	0.0378
62 grad_m1 sbt 6 0.0771 0.0374 63 grad_m2 m1 6 0.0771 0.0374 64 grad_m1 m1 6 0.0769 0.0373 65 logreg_no_interc bc 6 0.0764 0.0367 66 logreg_no_interc m2 6 0.0757 0.0360 68 logreg sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m2 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 72 grad_m2 bc 6 0.0710 0.0314 73 grad_bc m2 6 0.0701 0.0314 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300		~ ~			
64 grad_m1 m1 6 0.0770 0.0373 65 logreg_no_interc bc 6 0.0769 0.0372 66 logreg_no_interc m2 6 0.0764 0.0367 67 logreg_no_interc_sweep_C bc 6 0.0757 0.0360 68 logreg_sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average m2 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0665 0.0	62	~	6	0.0771	0.0374
64 grad_m1 m1 6 0.0770 0.0373 65 logreg_no_interc bc 6 0.0769 0.0372 66 logreg_no_interc m2 6 0.0764 0.0367 67 logreg_no_interc_sweep_C bc 6 0.0757 0.0360 68 logreg_sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0704 0.0307 75 average bc 6 0.0704 0.0307 75 average m1 6 0.0697 0.0300 76 average m2 6 0.0697 0.0300 77 average m2 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0697 0.0300	63	grad m2 m1	6	0.0771	0.0374
66 logreg_no_interc m2 6 0.0764 0.0367 67 logreg_no_interc_sweep_C bc 6 0.0757 0.0360 68 logreg sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0710 0.0313 72 grad_m2 bc 6 0.0708 0.0311 73 grad_bc sbt 6 0.0704 0.0307 74 grad_bc sbt 6 0.0697 0.0300 75 average bc 6 0.0697 0.0300 76 average m2 6 0.0697 0.0300 78 average m2 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 <td>64</td> <td>~</td> <td>6</td> <td>0.0770</td> <td>0.0373</td>	64	~	6	0.0770	0.0373
67 logreg_no_interc_sweep_C bc 6 0.0757 0.0360 68 logreg_sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0710 0.0313 72 grad_m2 bc 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0697 0.0300 80 prob_average sbt 6 0.0665 0.0268 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0665 0.0268	65	logreg_no_interc bc	6	0.0769	0.0372
68 logreg sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0663 0.0286 80 prob_average m2 6 0.0667 0.0273 81 prob_average m1 6 0.0664 0.0267 82 prob_average m1 6 0.0626 0.0229	66	logreg_no_interc m2	6	0.0764	0.0367
69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0704 0.0307 74 grad_bc sbt 6 0.0697 0.0300 75 average bc 6 0.0697 0.0300 76 average m2 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0244	67	logreg_no_interc_sweep_C bc	6	0.0757	0.0360
70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 78 average sbt 6 0.0683 0.0286 80 prob_average m2 6 0.0663 0.0286 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0567 0.0170 <tr< td=""><td>68</td><td>logreg sbt</td><td>6</td><td>0.0747</td><td>0.0350</td></tr<>	68	logreg sbt	6	0.0747	0.0350
71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0644 0.0267 83 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg_bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061 <td>69</td> <td>grad_bc bc</td> <td>6</td> <td>0.0722</td> <td>0.0325</td>	69	grad_bc bc	6	0.0722	0.0325
72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0644 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	70	grad_bc m1	6	0.0713	0.0316
73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0458 0.0061 88 cal_prob_average bc 6 0.0458 0.0061	71	grad_m1 bc	6	0.0713	0.0316
74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average m2 6 0.0697 0.0300 78 average sbt 6 0.0683 0.0286 80 prob_average m2 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0649 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	72	$grad_m2$ bc	6	0.0710	0.0313
75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average m2 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	73	grad_bc m2		0.0708	0.0311
76 average m1 6 0.0697 0.0300 77 average m2 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0644 0.0267 83 cal_prob_average m1 6 0.0626 0.0229 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0601 0.0204 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	74	grad_bc sbt		0.0704	0.0307
77 average m2 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0644 0.0267 83 cal_prob_average sbt 6 0.0649 0.0252 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061		average bc		0.0697	0.0300
78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0649 0.0252 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0458 0.0061 88 cal_prob_average bc 6 0.0458 0.0061		average m1		0.0697	0.0300
79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0649 0.0252 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061		average m2		0.0697	0.0300
80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0649 0.0252 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061					0.0300
81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0649 0.0252 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061					
82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0649 0.0252 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061		-		0.0670	0.0273
83 cal_prob_average sbt 6 0.0649 0.0252 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061		-			
84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061		- 0			
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88 cal_prob_average bc 6 0.0458 0.0061		~ ~			
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89 cal_average sbt 6 -0.2539 -0.2936					
	89	cal_average sbt	6	-0.2539	-0.2936

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	method	combination_size	imp_o_avg	imp_o_max
1	logreg_no_interc_sweep_C m1	6	0.0862	0.0465
2	logreg_no_interc_sweep_C sbt	6	0.0851	0.0454
3	logreg_no_interc_sweep_C m2	6	0.0832	0.0435
4	logreg_sweep_C sbt	6	0.0830	0.0433
5	logreg_no_interc.uncert sbt	6	0.0828	0.0431
6	$logreg_sweep_C m2$	6	0.0825	0.0428
7	logreg.uncert sbt	6	0.0822	0.0425
8	logreg_no_interc.uncert m2	6	0.0821	0.0424

9	logreg_no_interc.uncert m1	6	0.0820	0.0423
10	logreg_sweep_C m1	6	0.0820	0.0423
11	cal_average bc	6	0.0819	0.0422
12	cal_average m1	6	0.0819	0.0422
13	cal_average m2	6	0.0819	0.0422
14	logreg_no_interc.uncert bc	6	0.0817	0.0420
15	cal_average.uncert sbt	6	0.0816	0.0419
16	logreg_no_interc_sweep_C.uncert m2	6	0.0815	0.0418
17	$logreg_no_interc_sweep_C.uncert\ sbt$	6	0.0815	0.0418
18	logreg.uncert m2	6	0.0813	0.0416
19	logreg_no_interc_sweep_C.uncert m1	6	0.0812	0.0415
20	logreg_sweep_C.uncert m2	6	0.0811	0.0414
21	logreg.uncert bc	6	0.0809	0.0412
22	logreg.uncert m1	6	0.0808	0.0411
23	logreg_sweep_C.uncert sbt	6	0.0808	0.0411
24	cal_average.uncert m2	6	0.0807	0.0410
25	logreg_no_interc_sweep_C.uncert bc	6	0.0807	0.0410
26	logreg_sweep_C.uncert m1	6	0.0807	0.0410
27	logreg_no_interc m1	6	0.0803	0.0406
28	logreg_sweep_C.uncert bc	6	0.0802	0.0405
29	cal_average.uncert m1	6	0.0799	0.0402
30	cal_average.uncert bc	6	0.0796	0.0399
31	average of TemperatureScaling	6	0.0793	0.0396
32	prob_average.uncert m1	6	0.0790	0.0393
33	logreg_no_interc sbt	6	0.0788	0.0391
34	prob_average.uncert bc	6	0.0788	0.0391
35	prob_average.uncert sbt	6	0.0788	0.0391
36	average.uncert bc	6	0.0787	0.0390
37	grad_bc.uncert bc	6	0.0787	0.0390
38	grad_m1.uncert bc	6	0.0787	0.0390
39	prob_average.uncert m2	6	0.0787	0.0390
40	grad_m2.uncert bc	6	0.0786	0.0389
41	average.uncert m1	6	0.0785	0.0388
42	grad bc.uncert m1	6	0.0785	0.0388
43	grad_m1.uncert m1	6	0.0785	0.0388
44	grad_m2.uncert m1	6	0.0785	0.0388
45	grad_bc.uncert m2	6	0.0784	0.0387
46	grad_m1.uncert m2	6	0.0784	0.0387
47	grad_m2.uncert m2	6	0.0784	0.0387
48	average.uncert m2	6	0.0783	0.0386
49	average.uncert sbt	6	0.0783	0.0386
50	grad bc.uncert sbt	6	0.0783	0.0386
51	grad m1.uncert sbt	6	0.0783	0.0386
52	grad_m2.uncert sbt	6	0.0783	0.0386
52		6	0.0783 0.0782	
54	cal_prob_average.uncert bc	6	0.0782	0.0385
$\frac{54}{55}$	cal_prob_average.uncert m1	6		0.0384
	cal_prob_average.uncert sbt		0.0781	0.0384
56	grad_m2 m2	6	0.0781	0.0384
57	logreg m1	6	0.0780	0.0383
58	cal_prob_average.uncert m2	6	0.0778	0.0381
59	grad_m2 sbt	6	0.0778	0.0381
60	logreg m2	6	0.0775	0.0378
61	grad_m1 m2	6	0.0774	0.0377
62	grad_m1 sbt	6	0.0771	0.0374

63 grad_m2 m1 6 0.0771 0.0374 64 grad_m1 m1 6 0.0779 0.0373 65 logreg_no_interc bc 6 0.0769 0.0372 66 logreg_no_interc m2 6 0.0757 0.0360 68 logreg sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0704 0.0301 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 78 average m2 6 0.0697 0.0300 79 cal_prob_average sbt 6 0.0697 0.0300 79 cal_prob_average m1 6 0.0665 0.0268			_		
65 logreg_no_interc bc 6 0.0769 0.0372 66 logreg_no_interc m2 6 0.0764 0.0367 67 logreg_no_interc_sweep_C bc 6 0.0757 0.0360 68 logreg_sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc bm1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0663 0.0268 80 prob_average m1 6 0.0665 0.02	63	grad_m2 m1	6	0.0771	0.0374
66 logreg_no_interc m2 6 0.0764 0.0367 67 logreg_no_interc_sweep_C bc 6 0.0757 0.0360 68 logreg sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0663 0.0268 80 prob_average m1 6 0.0665 0.026	64	grad_m1 m1	6	0.0770	0.0373
67 logreg_no_interc_sweep_C bc 6 0.0757 0.0360 68 logreg_sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0665 0.0268 <	65	logreg_no_interc bc	6	0.0769	0.0372
68 logreg sbt 6 0.0747 0.0350 69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average m2 6 0.0667 0.0273 81 prob_average m1 6 0.0665 0.0268 82 prob_average m1 6 0.0626 0.0229 <tr< td=""><td>66</td><td>logreg_no_interc m2</td><td>6</td><td>0.0764</td><td>0.0367</td></tr<>	66	logreg_no_interc m2	6	0.0764	0.0367
69 grad_bc bc 6 0.0722 0.0325 70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0697 0.0300 80 prob_average sbt 6 0.0683 0.0286 82 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.024	67	logreg_no_interc_sweep_C bc	6	0.0757	0.0360
70 grad_bc m1 6 0.0713 0.0316 71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 78 average sbt 6 0.0683 0.0286 80 prob_average m2 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0567 0.0170 <tr< td=""><td>68</td><td>logreg sbt</td><td>6</td><td>0.0747</td><td>0.0350</td></tr<>	68	logreg sbt	6	0.0747	0.0350
71 grad_m1 bc 6 0.0713 0.0316 72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0665 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average sbt 6 0.0649 0.0252 84 cal_prob_average sbt 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061 </td <td>69</td> <td>grad_bc bc</td> <td>6</td> <td>0.0722</td> <td>0.0325</td>	69	grad_bc bc	6	0.0722	0.0325
72 grad_m2 bc 6 0.0710 0.0313 73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0665 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0644 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	70	grad_bc m1	6	0.0713	0.0316
73 grad_bc m2 6 0.0708 0.0311 74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	71	grad_m1 bc	6	0.0713	0.0316
74 grad_bc sbt 6 0.0704 0.0307 75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average m2 6 0.0697 0.0300 78 average sbt 6 0.0683 0.0286 80 prob_average m2 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0649 0.0257 83 cal_prob_average sbt 6 0.0626 0.0229 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	72	grad_m2 bc	6	0.0710	0.0313
75 average bc 6 0.0697 0.0300 76 average m1 6 0.0697 0.0300 77 average m2 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	73	grad_bc m2	6	0.0708	0.0311
76 average m1 6 0.0697 0.0300 77 average m2 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0644 0.0267 83 cal_prob_average m1 6 0.0626 0.0229 84 cal_prob_average m1 6 0.0621 0.0224 86 logreg_sweep_C bc 6 0.0601 0.0204 87 prob_average bc 6 0.0458 0.0061 88 cal_prob_average bc 6 0.0458 0.0061	74	grad_bc sbt	6	0.0704	0.0307
77 average m2 6 0.0697 0.0300 78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	75	average bc	6	0.0697	0.0300
78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0458 0.0061 88 cal_prob_average bc 6 0.0458 0.0061	76	average m1	6	0.0697	0.0300
78 average sbt 6 0.0697 0.0300 79 cal_prob_average m2 6 0.0683 0.0286 80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0626 0.0229 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	77	average m2	6	0.0697	0.0300
80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0649 0.0252 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	78	average sbt	6	0.0697	0.0300
80 prob_average sbt 6 0.0670 0.0273 81 prob_average m2 6 0.0665 0.0268 82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0649 0.0252 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	79	cal_prob_average m2	6	0.0683	0.0286
82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0649 0.0252 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	80		6	0.0670	0.0273
82 prob_average m1 6 0.0664 0.0267 83 cal_prob_average sbt 6 0.0649 0.0252 84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	81	prob_average m2	6	0.0665	0.0268
84 cal_prob_average m1 6 0.0626 0.0229 85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	82	prob_average m1	6	0.0664	0.0267
85 logreg_sweep_C bc 6 0.0621 0.0224 86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	83	cal_prob_average sbt	6	0.0649	0.0252
86 logreg bc 6 0.0601 0.0204 87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	84	cal_prob_average m1	6	0.0626	0.0229
87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	85	logreg_sweep_C bc	6	0.0621	0.0224
87 prob_average bc 6 0.0567 0.0170 88 cal_prob_average bc 6 0.0458 0.0061	86	logreg bc	6	0.0601	0.0204
	87		6	0.0567	0.0170
	88		6	0.0458	0.0061
	89		6	-0.2539	-0.2936