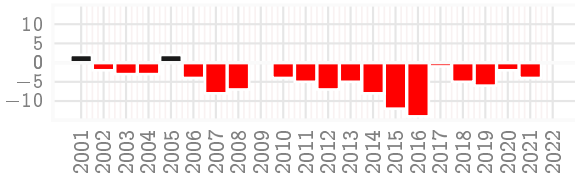


WHO better

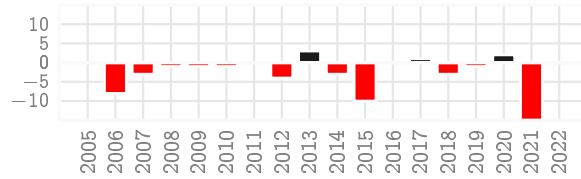
Emergenet better

## Southern Hemisphere (Prediction in December)

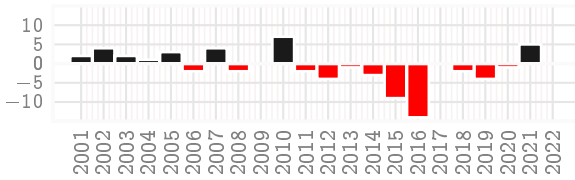
a. Influenza A H1N1 HA



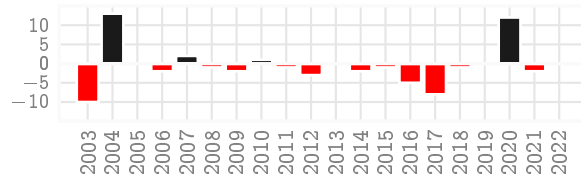
c. Influenza A H3N2 HA



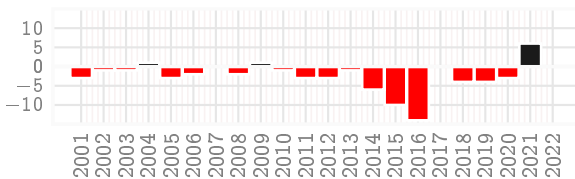
b. Influenza A H1N1 NA



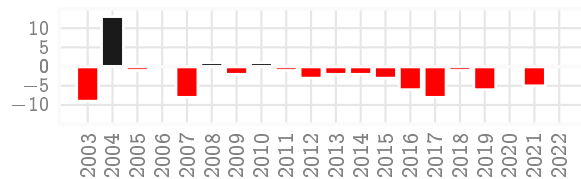
d. Influenza A H3N2 NA



e. Influenza A H1N1 NA (multi-cluster)

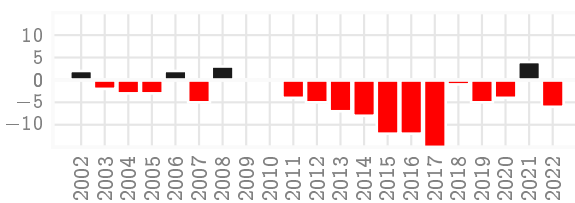


f. Influenza A H3N2 NA (multi-cluster)

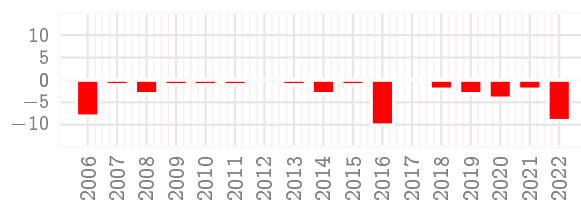


## Northern Hemisphere (Prediction in February)

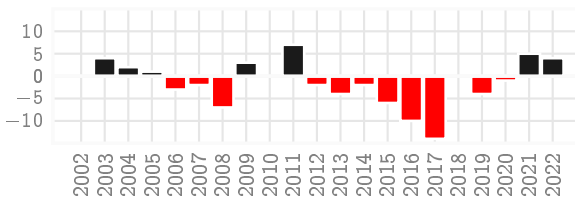
g. Influenza A H1N1 HA



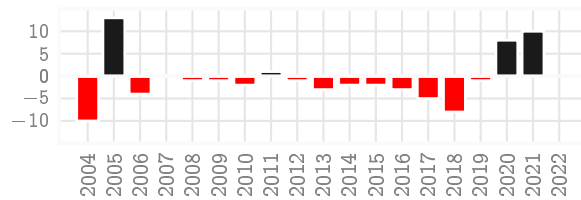
i. Influenza A H3N2 HA



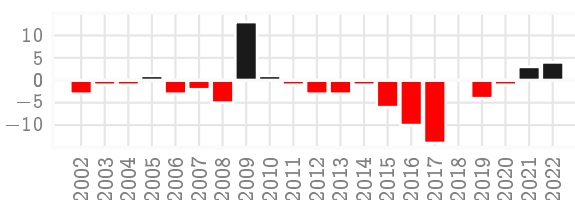
h. Influenza A H1N1 NA



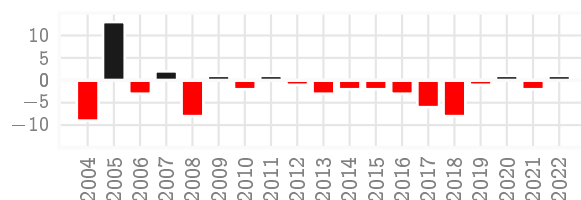
j. Influenza A H3N2 NA



k. Influenza A H1N1 NA (multi-cluster)



l. Influenza A H3N2 NA (multi-cluster)



Improvement in edit distance from dominant strain