Climate models should be built by machine learning instead of man-made formulas

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Brian J. Soden et al. reported reducing uncertainties in climate models (1). Conventional climate models based on man-made formulas do not show the expected behaviors (1). Researchers should use data in order to build an accurate climate model instead of man-made formulas (2). After extensive trainings, machine learning predictions will be more accurate than that of man-made formula models. Defeating human champions in Go games (3), Shogi games (4), and Quiz bowl questions (5) respectively show the superiority of the machine learning over man-made formulas. I don't understand why climate model researchers still stick to physical formulas instead of machine learning for better climate predictions.

References:
1. Brian J. Soden et al., Reducing uncertainties in climate models, Science 27 Jul 2018: Vol. 361, Issue 6400, pp. 326-327
2. Y. Takefuji, http://science.sciencemag.org/content/357/6356/1073/tab-e-letters
3. https://www.nytimes.com/2017/05/23/business/google-deepmind-alphago-go-champion-defeat.html
4. https://mainichi.jp/articles/20170521/k00/00m/040/024000c
5. https://arxiv.org/pdf/1803.08652.pdf