

Interactive comment on “Novel index to comprehensively evaluate air cleanness: the “Clean air Index”” by Tomohiro O. Sato et al.

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Dear Referee Kunihiko Arai

Overall summary from Referee: It is highly appreciated that the author defined “Clean Air Index = CII” as a new concept and aimed to apply it worldwide. The author has developed “CII: Air Cleanliness” for the first time in the world and proposed to set it as an international standard of air quality, which has been diverged in various countries until now. It contributes to environmental science in that air quality observation and future prediction can be done quantitatively. It also contributes to social aspects such as utilization in urban planning. “Delicious air” is of great interest in areas with severe environmental problems (especially China, Vietnam, Thailand, Indonesia, etc.). CII

C1

is an important factor for people moving abroad or staying longer. In addition, it is wonderful to open up the possibility of using CII to set a standard for incorporating “delicious air” as a tourism resource. CII can also be highly evaluated for its potential to become a standard for tourism and migration.

Author’s response: We greatly appreciate your efforts to help us improve our manuscript. Yes, CII has many possibilities in social aspects such as urban planning, residence, tourism and migration. We believe the clean air is as valuable a resource as clean water and this manuscript would work to make the CII concept common in the world. We answered your valuable comments point by point as the attached files. We hope that our manuscript is suitable for publication in GC.

Sincerely yours,

Tomohiro Sato National Institute of Information and Communications Technology

Please also note the supplement to this comment:

<https://www.geosci-commun-discuss.net/gc-2019-16/gc-2019-16-AC2-supplement.pdf>

Interactive comment on Geosci. Commun. Discuss., <https://doi.org/10.5194/gc-2019-16>, 2019.

C2