

REVIEW

Manuscript: "A model-based study of the wind regime over Corinthian Gulf in Greece"

By Koletsis, Kotroni and Lagouvardos

Recommendation:

Not acceptable for publication in its present form, but encourage re-submission in another form.

Summary:

This paper presents the analysis of 5yr wind climatology constructed from MM5 model over the Corinthian gulf. The primary aim of this study is to examine the average wind regime of the gulf which is greatly influenced by the topography.

I have one central issue that prevents me for recommending publication as it is, and I also have several other issues that I believe should be sorted out before going any further.

Although the paper is very interesting and has great potential in the understanding of local wind regime over this very touristic area, my opinion is that not fulfill the main scope of NHESS journal. The topic of this manuscript is probably more appropriate to some other scientific journal.

Major remarks:

1. The simulations employed are inadequate for detailed inspection of the dynamics of wind flow
2. Need the finest horizontal resolution of a km or better
3. There seems to be little new physical insight in the understanding of flow regime especially the gap flow

This paper in its present form has limited contribution. I do not believe it should be accepted, but if other reviewers differ, I would not oppose strongly.