

## ***Interactive comment on “Cyclic activity of Fuego de Colima volcano (Mexico): insights from satellite thermal data and non-linear models” by Silvia Massaro et al.***

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The manuscript gives a detailed overview of the recent activity of Fuego de Colima volcano (Mexico). Several types of periodic behaviors are identified. Using wavelet analysis their periods are estimated. Numerical conduit flow model is used to explain observed periodicity. It is shown that different types of periodic signals are controlled by the different mechanisms - long term activity is better explained by dual magma chamber model, while the short period can result from the conduit processes. The problem is that all three timescales do not appear together in the model that accounts for dual magma chamber and to explain shorter timescales authors need to switch to

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different settings. This approach should be discussed in more details. It is well known for Colima that Vulcanian explosions evacuate significant portions of the upper conduit and destroy the lava dome. The influence of these processes on at list short-term periodic regimes should be significant and requires some discussion in the paper.

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