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Interactive comment on "Characterisation of the magmatic signature in gas emissions from Turrialba volcano, Costa Rica" *by* Y. Moussallam et al.

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I think we agree here, the H2/H2O ratio carries a large uncertainty so it isn't used to compute the redox state, the CO/CO2 is. Also we determined the H2O content of the plume using the OP-FTIR values not the MultiGas ones the H2O/SO2 plot in Fig.5 is the one used for the reported composition in Table 2.

I realise I forgot to join the new Fig.6 to the earlier answer (with respect to your last comment), please find it attached. Figure 6 caption: Computed relationship between equilibrium temperature and oxygen fugacity (expressed as deviation from the quartz-fayalite-magnetite buffer) for the measured CO2/CO ratio in the gas emissions from

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the mixed plume. *Range of fO2 for Masaya volcano measured by de Moor et al., (2013) in matrix glass from basaltic scoria.

Please also note the supplement to this comment:
http://www.solid-earth-discuss.net/6/C1063/2014/sed-6-C1063-2014-supplement.pdf

Interactive comment on Solid Earth Discuss., 6, 2293, 2014.

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