## Monsoon induced intra-seasonal variability in total column ozone

Madhu Vazhathottathil<sup>†</sup>; <sup>†</sup> Cochin University of Science and Technology, India Leading author: <u>madhuv@cusat.ac.in</u>

In the present study we used the total column ozone over five stations from the Ozone Monitoring Instrument (OMI) on the Aura spacecraft for the analysis during the excess monsoon year 2010 over kerala, the gate way of South west monsoon. In the analysis it was evident that many of the intraseasonal oscillations in total column ozone were similar to that in the monsoonal rainfall data. Prominent oscillations present in the total column ozone, one with a periodicity of 30 to 50 day oscillations (i.e. Madden Julian Oscillation) and other with a periodicity varying from 15 to 20 days. It was infer from the study that all these temporal variability in total ozone were due to the monsoonal induced circulation over the Indian subcontinent and found significant at above 95% level of confidence.