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Observing mesospheric gravity waves with an imaging riometer in SANAE

We present the characteristics of small scale (< 100 km) gravity waves in the lower and upper atmosphere derived from imaging riometer at SANAE (71° S, 20° W). FFT technique is used to extract wave parameters of the gravity waves. These waves have horizontal phase speed of 0-250 m/s, horizontal wavelength of 16-30 km and the period of 3-30 min. And the propagation direction is ~ 50 degrees.

Primary author: Mr KHANYILE, Bhekumuzi Sfundu (University of Fort Hare)

Presenter: Mr KHANYILE, Bhekumuzi Sfundu (University of Fort Hare)

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