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## **Extracting gravity waves parameters during the September 2002 southern hemisphere stratospheric major warming using a SANA E imaging riometer.**

Using absorption data measured by imaging riometer for ionospheric studies (IRIS) located at the South Africa National Antarctic Expedition (SANA E), Antarctica ( $72^{\circ}\text{S}$ ,  $3^{\circ}\text{W}$ ), we extracted the parameters of gravity waves (GW) of periods between 35 and 55 minutes during the period from 16 to 30 September 2002, a period of major sudden stratospheric warming (SSW) in the Southern Hemispheric middle atmosphere.

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