NASA

Atmospheric Waves Experiment

AWE

NCAR · GATS · USU · NASA · SDL · NRL · CU · ERAU

International Space Station

Exosphere

408 km (254 mi)

400 km

90% field of view

300 km

Thermosphere

200 km

AWE data swath width = 600 km

100 km

Mesopause ~87 km altitude

Mesosphere

Atmospheric Gravity Wave

Stratosphere

Troposphere

0 km

Not to scale

Detector Radiators

Radiator Isolators

IEB Radiators

Instrument
Electronics Box (IEB)

Telescopes with
Multilayer Insulation

AWE Height
537 millimeters

Aperture Baffle

Flexures

CATCH A WAVE