

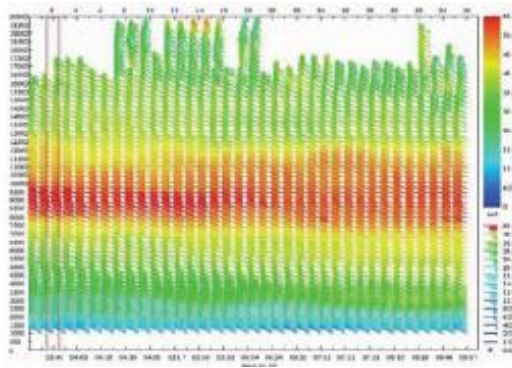
## STRATOSPHERIC WIND PRDFILER RADAR

### 23km stratospheric wind profiler radar

The 23km stratospheric wind profiler radar adopts solid-state active phased-array, digital receiver and other advanced technologies. It can continuously get meteorologic data of atmospheric horizontal wind speed, wind direction and vertical air current 2km~23km above the ground, and atmospheric refraction structural constant Cn2 etc. This radar has characteristics such as high data acquisition rate, high reliability and unattended mode.

#### Main technical Specifications

Detection altitude range	2km~ 23km
Altitude resolution	200m (in low mode),400m (in high mode)
Time resolution	10 min
Wind speed measurement range	Horizontal wind speed: $\geq 80\text{m/s}$ Vertical air current: $-24\text{m/s} \sim +24\text{m/s}$
Wind measurement error (RMS)	Wind speed: $\leq 1\text{m/s}$ (when wind speed $\leq 10\text{m/s}$ ) 10% (when wind speed $> 10\text{m/s}$ ) Wind direction: $10^\circ$ (when wind speed $\geq 6\text{m/s}$ )
Vertical wind measurement error	$\leq 0.25\text{ m/s}$



Wind profile figure



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