

## **Instruments used in Wind Atlas South Africa project 2 (WASA2)**

### **Cup Anemometers**

Model: P2546A

Manufacturer: WindSensor, Denmark

Heights: 10m, 20 m, 40m, 60 m, 62 m

Calibrated by: Svend Ole Hansen ApS, Denmark

### **Potentiometer wind vanes**

Model: W200P

Manufacturer: Vector Instruments, United Kingdom

Heights: 20 m, 60 m

### **Temperature and Relative Humidity Probes**

Model: HMP155

Manufacturer: Vaisala Oyj, Finland

Height: 60 m

Calibrated by: Vaisala Oyj, Finland

### **Temperature difference sensors**

Model: P2642A01 Pt 500

Manufacturer: WindSensor, Denmark

Heights: 60m, 10m

Calibrated by: WindSensor, Denmark

### **Barometers**

Model: PTB110

Manufacturer: Vaisala Oyj, Finland

Height: 30 m

Calibrated by: Vaisala Oyj, Finland

### **Data loggers/ CompactFlash Module**

Model: CR1000 / CFM100

Manufacturer: Campbell Scientific, Inc, United Kingdom

Height: 30 m

Calibrated by: Campbell Scientific Ltd, United Kingdom

### **Data Capturing**

Data are sampled with 0.5 Hz. Every 10 minute statistics of the measurements average/minimum/maximum/standard deviation are calculated and recorded together with time information.